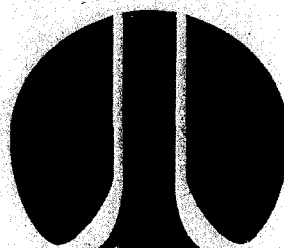


COUNCIL'S MEETING

NO. 14/2016-2017

DATE	:	02ND MARCH, 2017 (THURSDAY)
TIME	:	12-30 P.M.
VENUE	:	COUNCIL ROOM, 3RD FLOOR, PALIKA KENDRA, NEW DELHI.



NDMC

नई दिल्ली नगर पालिका परिषद्

NEW DELHI MUNICIPAL COUNCIL
PALIKA KENDRA : NEW DELHI



नई दिल्ली नगरपालिका परिषद्
NEW DELHI MUNICIPAL COUNCIL
पालिका केन्द्र, संसद मार्ग, नई दिल्ली-११०००१
Palika Kendra, Sansad Marg, New Delhi-110001

F.25(1)/CS/1/2017/D- 200

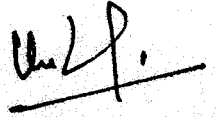
Dated: 28/02/2017.

MEETING NOTICE

The Council's Meeting, No. 14/2016-17, will be held on Thursday, 02nd March, 2017, at 12-30 p.m. in the Council Room, 3rd Floor, Palika Kendra, New Delhi.

The list of business is enclosed herewith.

You are requested to kindly make it convenient to attend the same.


(CHANCHAL YADAV)
Secretary

ALL MEMBERS OF THE COUNCIL

COUNCIL'S MEETING NO. 14/2016-17 DATED 02.03.2017 AT 12-30 P.M.
Arrangement of business

ITEM NO.	SUBJECT	PAGE	ANNEXURE
01 (C-28)	Confirmation and signing of the minutes of the Council's Meeting No.12/2016-17 held on 16.01.2017	3	4 - 9
02 (C-29)	Confirmation and signing of the minutes of the Council's Special Meeting No.13/2016-17 held on 06.02.2017	10	11
03 (C-30)	Confirmation and signing of the minutes of the Council's Meeting held through circulation of agenda on 20.02.2017	12	13
04 (A-57)	Renovation, Construction and Maintenance of 113 Public Toilet Utilities (PTU's) on the Built, Operate and Transfer (BOT) Basis. (Arbitration case OMP (ENF.) (COMM) 118/2016 "City Life Line Travels (P) Ltd. Vs. NDMC Council.	14 - 19	20 - 26
05 (B-26)	RFP for selection of Concessionaire for the project "Selection of Concessionaire for supply, installation and maintenance of Smart Street Light Poles (55 Nos.) having provisions of Wi-Fi, Smart Warm LED Street Light, CCTV camera, and environmental sensors".	27 - 31	32
06 (B-27)	Implementation of Smart Grid Infrastructure Including Enhancing Of Existing Network in NDMC Power Distribution Area. Sub Head:- Strengthening of sub-transmission and distribution network under integrated power development scheme (IPDS) of Ministry of Power, Government of India".	33 - 34	
07 (F-02)	Determination of municipal tax, rates, cesses and rebates for the Financial Year 2017-18 and other related matters.	35 - 38	39 - 42
08 (T-05)	Recommendation for naming of Main Road connecting Shiv Mandir, Y-Block and YZ Block Sarojini Nagar & Vinayak Marg of Pillanji Village in the name of 'Choudhary Jagdev Namberdar Marg' under the Jurisdiction of NDMC area.	43 - 47	48 - 67
09 (E-20)	Transfer of ownership of one unit of Mobile Dispensary consisting of two vehicle Reg. No.DL1LW 5566 and DL1LW 5564.	68 - 69	70 - 73
10 (E-21)	Intimation regarding quarterly expenditure on the PPP Project of Collection & Transportation of garbage from NDMC area to the disposal site for the period January-2016 to March-2016.	74 - 76	
11 (A-58)	Construction of 188 Type-II flats (10 storied) at Aliganj, New Delhi.	77 - 80	
12 (W-05)	Transfer of funds from New Delhi Municipal Council to New Delhi Municipal Council Smart City Limited (NDMC SCL) amounting to Rs. 100,00,00,000 (Rupees One Hundred Crores Only).	81 - 82	
13 (A-59)	RFP for Selection of Concessionaire for "Design, Development, Implementation, Operation and Maintenance of Digital interactive Information Panels to connect digitally with the online services provided by various government bodies in lieu of advertisement rights in NDMC area on BOT".	83 - 88	89 - 90
14 (A-60)	Selection of Concessionaire for "Design, Development, Implementation, Operation and Maintenance of Parking Guidance and Management Solution for on street, off street and indoor Parking Spaces in NDMC area on PPP model".	91 - 97	98 - 102
15 (B-28)	Request for Proposal for Selection of System Integrator for NDMC Smarty City Project "Design, Development, Implementation, Operation and Maintenance of Command and Control Centre & Data Center, Collaboration solution for meetings & virtual education and integration with various Smart City/NDMC Applications".	103 - 107	108 - 317
16 (A-61)	Request for Proposal for Selection of Concessionaire for Design, Development, Implementation, Operation and Maintenance of Digital Interactive Information Panels to connect digitally with the online services provided by various government bodies in lieu of advertisement rights in NDMC area on PPP model (Phase-II).	318 - 321	322 - 324
17 (A-62)	RFP for installation and operation of Public Bicycle Sharing system (PBS) in NDMC Area.	325 - 329	
18 (A-63)	S/R of roads in NDMC area. SH:- Resurfacing of Outer Circle, Inner Circle & Radials of Connaught Place Area	330 - 332	
19 (A-64)	Construction of Underground Multilevel Car Parking at Khan Market, New Delhi.	333 - 335	

20 (A-65)	Purchase/work of Stainless Steel Items for Smart City Project from Steel Authority of India (SAIL).	336 – 338	
21 (C-31)	Annual Administrative Report for the year 2015-16.	339 – 340	341 – 342
22 (C-32)	Contracts/Schemes involving an expenditure of Rs.1 Lac but not exceeding Rs.200 lacs.	343	344 – 352
23 (C-33)	Action Taken Report on the status of ongoing schemes/works approved by the Council.	353	354 – 372
	VOLUME II (CONFIDENTIAL)		
24 (L-30)	Re- e-Auctioning of Property situated at 1, Janpath earlier known as Hotel Asian International.	373 – 375	376 – 403
25 (L-31)	Decision in the matter of property situated at 1, Man Singh Road, commonly known as Hotel Taj Man Singh in light of the MHA's directions dated 01.01.2015 and 23.02.2017, and Hon'ble Supreme Court's directions dated 12.01.2017 in SLP (Civil) No. 33397 of 2016.	404 – 446	447 – 555
26 (L-32)	Regarding termination of license and initiating of eviction proceedings under Sections 5 & 7 of Public Premises (Eviction of Unauthorized Occupants) Act, 1971 against CJ International Hotels Limited (hereinafter referred as "CJ International") for non-payment of outstanding license fee.	556 – 568	569 – 756
27 (L-33)	Proposal for e-auctioning of property situated at plot no. 37, Bhagat Singh Marg, New Delhi, known as Prominent Hotel (The Connaught).	757 – 759	760 – 887
28 (V-04)	Information about the two incidents of building roof collapse at C-Block and L-Block in Connaught Place, New Delhi.	888 – 894	895 – 928
	TABLE ITEM		
29 (L-34)	Revision of licence fee in respect of shops that have to shifted from Central Market East Kidwai Nagar, Vegetable Stall, Mini South Market, South Market East Kidwai Nagar, Suvidha Market and Nauroji Nagar Market to newly constructed NBCC Social Infrastructure Complex at East Kidwai Nagar.	929 – 931	932 – 957
30 (H-11)	Guidelines for engaging eligible dependents of deceased employees of the Public Health Department.	958 – 962	963 – 967
31 (M-10)	Uniform Subsidy to students of class Nursery to XII of NDMC Schools, NDMC Aided Schools, Aanchal and Balwari as per policy prevailing in Education Deptt. NDMC for the Academic Session 2016-17.	968 – 971	

ITEM NO. 01 (C -28)

Confirmation and signing of the minutes of the Council's Meeting No. 12/2016-17 held on 16.01.2017. (See pages 4- 10)

COUNCIL'S DECISION

**NEW DELHI MUNICIPAL COUNCIL
PALIKA KENDRA: NEW DELHI**

**MINUTES OF THE COUNCIL'S MEETING NO. 12/2016-17 HELD ON 16.01.2017 AT 11-00
A.M. IN THE COUNCIL ROOM, PALIKA KENDRA, NEW DELHI.**

MEETING NO.	:	12/2016-17
DATE	:	16.01.2017
TIME	:	11-00 A.M.
PLACE	:	PALIKA KENDRA, NEW DELHI

PRESENT:

- | | | |
|-----------------------------|---|-------------------|
| 1. Shri Naresh Kumar | - | Presiding Officer |
| 2. Sh. Karan Singh Tanwar | - | Vice-Chairperson |
| 3. Sh. Abdul Rasheed Ansari | - | Member |
| 4. Dr. Anita Arya | - | Member |
| 5. Sh. B.S. Bhati | - | Member |
| 6. Sh. Puneet Kumar Goel | - | Member |
| 7. Smt. Chanchal Yadav | - | Secretary |

ITEM NO.	SUBJECT	DECISION
01 (C-24)	Confirmation and signing of the minutes of the Council's Meeting No. 09/2016-17 held on 30.11.2016.	Minutes confirmed.
02 (A-52)	S/R of Roads in NDMC area.SH: - Micro Surfacing of roads through Cold Mix Technology in the year 2015-16.	Resolved by the Council to accord approval for acceptance of the lowest offer of Sh. Harpal Singh with tendered amount of ₹4,49,21,860/- (Rs. Four Crore Forty Nine Lakh Twenty One Thousand Eight Hundred and Sixty only) as per the terms and conditions of the NIT. The Council further resolved to direct QCTA Division, NDMC to ensure that the work is executed as per designed specification to ensure quality of work. It was also resolved by the Council that the department may initiate further necessary action in anticipation of confirmation of the minutes of the Council.
03 (B-20)	Construction of Underpass including corridor development works and intersection development at the junction of Benito Juarez Marg and Inner Ring Road. Sub Head:Shifting of H.T. 66 KV 630 sq. mm. single core XLPE cables for construction of B.J Marg, San Martin Marg, Ring Road	Resolved by the Council that the approval is accorded to award the deposit work of "Construction of Underpass including corridor development works and intersection development at the junction of Benito Juarez Marg and Inner Ring Road. Sub-head:-Shifting of H.T. 66 KV 630 sq. mm. single core XLPE cables for construction of B.J Marg, San Martin Marg, Ring Road Service Lane Underpass" to L-I firm, M/s. Universal Cables Ltd. at the negotiated amount of L-1 ₹5,00,22,613/- (Rupees Five Crores Twenty Two Thousand Six Hundred Thirteen Only), as per the terms and condition of NIT.

	service Lane Underpass (Deposit work). Tender I.D. No.: 2016_NDMC_98979_1	The Council further resolved to accord approval to place the order to the L-1 firm, in anticipation of the confirmation of minutes of the Council, as PWD has made 100% payment to NDMC for the proposed work vide receipt no. CH161711NDMC016121 dated 25.11.2016.
04 (U-17)	NIT for Security Services/Arrangements at various NDMC Premises under Group Contract A,B,C,D,E,F,G,H,J & K.	<p>Resolved by the Council to accord approval to the fresh NIT and also to float the tenders for group contracts A,B,C,D,E,F,G,H,J & K for providing security services on the basis of fresh NIT as placed at Annexure – III of the preamble.</p> <p>The Council further resolved that the existing arrangements will be extended on the same terms and conditions till the finalization of the vendors through inviting fresh NITs as mentioned above, or 31.03.2017, whichever is earlier.</p> <p>It was also resolved by the Council that the department may initiate further necessary action in anticipation of confirmation of the minutes of the Council.</p>
05 (B-21)	Replacement of 33KV Panel Boards at 33KV Sub-Station Scindia House &BapuDham.	Resolved by the Council that Administrative Approval & Expenditure Sanction is granted to the estimate amounting to ₹14,11,32,384/- (Gross) and ₹14,04,40,000/- (Net) for Replacement of 33KV Panel Boards at 33KV Electric Sub-station Scindia House & Bapu Dham.
06 (B-22)	Design, Supply, Installation, Testing and commissioning of outdoor high definition LED Video Screen in NDMC area. Tender I.D. No. 2016_NDMC_117533_1	<p>Resolved by the Council that the approval is accorded to award the work of "Design, Supply, Installation, Testing and commissioning of outdoor high definition LED Video Screen in NDMC area to L 1 firm, M/s Modern Stage Service at their quoted amount of ₹3,54,42,700.00 (Rs. Three crore fifty four lakh forty two thousand seven hundred only) (₹1,92,02,700.00 for equipment + ₹1,62,40,000.00 for Operation and comprehensive maintenance contract of 7 years after completion of defect liability period of 3 years) as per the terms and conditions of NIT.</p> <p>The Council resolved to accord revised Administrative Approval and Expenditure Sanction, amounting to ₹3,79,95,998.00 (Rs. Three crore seventy nine lakhs ninety five thousand nine hundred ninety eight only), based on the tendered cost and expenditure incurred on advertisement.</p> <p>It was further resolved by the Council that the department may initiate further necessary action in anticipation of confirmation of the minutes of the Council.</p>
07 (M-09)	Proposal for conducting a quality assessment of NDMC /Navyug schools by Quality Council of India.	<p>The Council resolved to approve the proposal for conducting a quality assessment in 30 NDMC/Navyug schools by Quality Council of India for classes from V to VIII as outlined in the para 20 of the preamble.</p> <p>The Council further resolved to constitute a multidisciplinary team consisting of following for monitoring and evaluation of this work:-</p>

		<ol style="list-style-type: none"> 1. Dr. Anita Arya, Member, NDMC 2. Sh. A.R. Ansari, Member, NDMC 3. Chief Auditor 4. Director (Skill Development) 5. Director (Education) <p>The Council also resolved that the abovementioned multidisciplinary team shall review the progress quarterly and submit its report for consideration of the Council.</p> <p>It was also resolved by the Council that the department may initiate further necessary action in anticipation of confirmation of the minutes of the Council.</p>
08 (B-23)	Norms for Annual Maintenance of Various Electrical Services/Work (Review).	<p>Resolved by the Council to accord approval for the following:-</p> <ol style="list-style-type: none"> 1. The existing norms as approved by the Council Resolution No. 03 (B-21) dated 26.03.2013 do not require any change and therefore these norms may be kept same for further period of 3 years beyond 31.3.2016. 2. Lifts and escalators belong to same family. Therefore, the existing norms for lifts be also applicable to escalators. 3. For remaining services such as CCTVs, Sound reinforcement system, video screens, EPABX, SCADA System and other specialized items/ services etc., the concerned Department should ensure that: <ol style="list-style-type: none"> a. the items for which there are fixed CPWD norms, the Department would prepare the estimate based on those norms, and b. the items for which there are no fixed norms of CPWD, the same should be taken on the basis of (i) LAR, (ii) rates of Authorized Agent(s), (iii) OEM, whichever is lower.
09 (B-24)	Supply, Installation, Testing & Commissioning of one 66/11KV, 16/20MVA Power Transformers & two 33/11KV, 16/20MVA Power Transformer at various ESS of NDMC.	<p>Resolved by the Council that the approval is accorded to award the work of Supply, Installation, Testing & Commissioning of 66/11KV, 16/20MVA Power Transformers & 33/11KV, 16/20MVA Power Transformer at various ESS of NDMC to L-1 firm, M/S Capital Electech Pvt. Ltd at a total cost of ₹5,11,00,000/- (Rupees Five Crore Eleven Lacs Only) on the terms & conditions of NIT.</p> <p>The Council further accorded revised administrative and expenditure sanction amounting to ₹5,11,00,000/-, based on the tendered cost of L-1 firm.</p>
10 (B-25)	Annual Maintenance Contract for 518 Nos H.T. Panels, Areva make in NDMC area.	<p>Resolved by the Council to accord administrative approval and expenditure sanction to the estimate ₹2,32,32,300/- (Rs. Two Crore Thirty Two Lakhs Thirty Two Thousand and Three Hundred only) (inclusive of taxes & duties) for the Annual Maintenance Contract (AMC) of 518 "Areva Make" H.T. Panels, installed in M/N & M/S area of NDMC & to</p>

		<p>award the work of AMC to the OEM M/s Schneider Electric Infrastructure Ltd., for Areva Make H.T panels @ ₹ 39,000/- per panel + Service Tax @15% (or as applicable at the time of billing/invoicing) amounting to ₹2,32,32,300/- for total 518nos. Panels (259 nos panels for 1st year and balance 259 nos. panels for 2nd year), as per the agreed terms & conditions (Detailed at serial. No. 4 of the preamble).</p> <p>The Council further resolved that performance of vendor shall be monitored by a committee headed by Chief Engineer (Electric-II), NDMC and one official from QCTA Division, NDMC.</p>
11 (A-53)	Construction of New Charak Palika Hospital at MotiBagh, New Delhi.	<p>Resolved by the Council to accord administrative approval and expenditure sanction amounting to ₹278.50 crore and to allow the department to put up DE/NIT, in anticipation of confirmation of minutes of the this Council Meeting.</p> <p>The Council further resolved that the existing building of Veterinary Hospital shall only be demolished after shifting of the same at an alternate site, for which construction activities are being taken up by the Civil Engineering –II Department separately.</p> <p>The Council also resolved that simultaneously NDMC shall send a proposal to the Ministry of Health and Family Welfare, Government of India to establish and operate the proposed new Charak Palika Hospital in collaboration with NDMC.</p>
12 (A-54)	Up-gradation of playground in various school of NDMC. Sub- Head: Preparation of basketball, Volley Ball and other playing courts in NDMC School.	<p>The Council resolved to reject the tender of M/s. Advanced Sports Technologies LLP at tendered rates of ₹4,32,61,200/- which is 6.49% above estimated cost of ₹4,06,22,641/- and 0.16% below justified cost, being a single tender.</p> <p>The Council further resolved that the concerned Department should re-call the tender.</p>
13 (G-07)	A. Revision of water tariff in NDMC area	<p>The Council resolved to accord approval:</p> <ol style="list-style-type: none"> to adopt the water tariff of DJB prospectively w.e.f. 01st February, 2017. that in future, NDMC water tariff should be revised in-line with water tariff by DJB, whenever DJB changes water tariff. to extend the subsidy for free water upto 20KL to the consumers as and when funds in this regard are released by the GNCTD. <p>The Council further resolved that only in the case of consumers in the JJ clusters, NDMC will subsidise the water supply from more than 20KL upto 25 KL (i.e. 20001 litre to 25000 litre) through bearing the cost of water charges, till the GNCTD provides the subsidy for free water upto 20KL</p>
13 (K-06)	B. Enhancement of User Charges etc. of Parks.	Deferred.
13 (K-07)	C. Enhancement of User	Deferred.

	charges etc. of Barat Ghars and Community Centres/Halls	
14 (L-29)	Extension of time limit for applying for renewal of licenses or change of trade of license or transfer/partnership or subletting of licence etc.	Keeping in view the hardships of the licensees, constraints of the concerned department and voluminous records involved in each case, pending cases of more than 10 to 20 years and non-renewal of cases for the last so many years, the Council resolved that time limit for applying for renewal of licenses be extended for another six months from today, i.e. till 16 th July, 2017.
15 (M-10)	Mid-Day Meal scheme for NDMC/Navyug/Aided schools/Balwaris.	<p>The Council resolved to reject the Department's proposal and to direct the Department to float fresh Expression of Interest.</p> <p>The Council further resolved to direct the Department to contact mid-day meal suppliers, who are catering mid-day meals in North Delhi Municipal Corporation, South North Delhi Municipal Corporation, East Delhi Municipal Corporation, schools and State run schools and encourage them to participate in the fresh bid for Expression of Interest for wider participation.</p> <p>The Council also resolved that the existing scheme may be extended for six months as an interim measure, or till the selection of vendor through tender, whichever is earlier.</p>
16 (D-03)	<p>a) Acceptance of final reports submitted by M/s. SBICAP to NDMC for the formation of Electricity Distribution Strategic Business Unit (EDSBU) within NDMC.</p> <p>b) Incorporation of all the Administrative, Accounting & IT related changes proposed by M/s. SBICAP in NDMC.</p> <p>c) Implementation of the Accounting changes in the e-financial Application through M/s.e-Governments Foundation, software developer of Integrated Financial Application of NDMC.</p>	<p>The Council resolved to:</p> <ol style="list-style-type: none"> accept the final reports submitted by M/s. SBICAP to NDMC for the formation of Electricity Distribution Strategic Business Unit (EDSBU) within NDMC. Incorporate all the Administrative, Accounting & IT related changes proposed by M/s. SBICAP in NDMC. accord approval for the formation of Water Supply and Sewerage Division (WS &SD) parallel to EDSBU within NDMC.
17 (A-55)	Request for proposal (RFP) Selection of Concessionaire, for Setting up and management of 'Happiness Areas' at Children Park	<p>Resolved by the Council to accord approval for the proposal of 'Selection of Concessionaire, for setting up and management of "Happiness Areas" at Children Park' on PPP basis.</p> <p>It was further resolved by the Council that the department may initiate further necessary action in anticipation of confirmation of the minutes of the Council.</p>
18 (A-56)	Improvement and	The Council resolved to accord in-principle approval to the

	revamping the existing water supply including water audit, consumers survey, GIS Mapping Measures to reduce NRW/ UFW, Achievement of service level benchmark and upgrading the system for continuous (24x7) water supply to the command area of NDMC.	<p>proposal of the Department.</p> <p>The Council further resolved that the department may also consult other well-known consultants like Administrative Staff College of India, (ASCI) Hyderabad, before proceeding further in the matter.</p>
19 (C-25)	Contracts/Schemes involving an expenditure of Rs.1 Lac but not exceeding Rs.200 lacs.	Information noted.
20 (C-26)	Action Taken Report on the status of ongoing schemes/works approved by the Council.	Information noted.
21 (C-27)	Annual Administrative Report for the year 2015-16.	The Council resolved to discuss the Annual Administrative Report for the year 2015-16 in its next meeting.
22 (D-05)	Grant of Exclusive Co-Branding and Advertisement Rights at selected Subways of NDMC.	<p>The Council resolved to approve the proposal for grant of exclusive Co-Branding and Advertisement Rights at selected Subways to entities selected through Open Tenders.</p> <p>It was further resolved by the Council that the department may initiate further necessary action in anticipation of confirmation of the minutes of the Council.</p>
23 (X-04)	Collaboration towards providing technical and skill development training with ICICI Academy for Skill.	<p>Resolved by the Council to accord approval to sign Memorandum of Understanding (MOU) between New Delhi Municipal Council Smart City Limited (NDMCSCSL) and ICICI Foundation for inclusive Growth (ICICI Foundation) for opening 'NDMC- ICICI Academy for Skills' at New Delhi.</p> <p>The Council resolved to provide four class rooms at N.P. Boys Sr. Sec. School, Mandir Marg, New Delhi earmarked for Skill Development Courses, free of charge at present, to NDMCSCSL.</p>

Sd/-
(CHANCHAL YADAV)
SECRETARY

Sd/-
(NARESH KUMAR)
CHAIRPERSON / PRESIDING OFFICER

ITEM NO. 02 (C -29)

Confirmation and signing of the minutes of the Council's Special Meeting No.13/2016-17 held on 06.02.2017. (See page 11)

COUNCIL'S DECISION

Deferred. The next Council meeting is scheduled at 09:30 a.m. on 06.03.2017.

NEW DELHI MUNICIPAL COUNCIL
PALIKA KENDRA: NEW DELHI

MINUTES OF THE COUNCIL'S SPECIAL MEETING NO. 13/2016-17 HELD ON 06.02.2017 AT
10.00 AM IN THE COUNCIL ROOM, PALIKA KENDRA, NEW DELHI.

SPECIAL MEETING NO.	:	13/2016-17
DATE	:	06-02-2017
TIME	:	10:00 A.M.
PLACE	:	PALIKA KENDRA, NEW DELHI

PRESENT:

- | | | | |
|----|------------------------|---|-------------------|
| 1. | Smt. Meenakshi Lekhi | - | Presiding Officer |
| 2. | Sh. Naresh Kumar | - | Chairperson |
| 3. | Sh. Karan Singh Tanwar | - | Vice Chairperson |
| 4. | Sh. Surender Singh | - | Member |
| 5. | Dr. Anita Arya | - | Member |
| 6. | Sh. B. S. Bhati | - | Member |
| 7. | Sh. D.S. Mishra | - | Member |
| 8. | Sh. Dharmendra | - | Member |
| 9. | Smt. Chanchal Yadav | - | Secretary |

ITEM NO.	SUBJECT	DECISION
01 (T-04)	Recommendation for renaming of 'Dalhousie Road' under the NDMC area as 'Dara Shikoh Road'.	<p>The Council resolved that the name of 'Dalhousie Road' under the NDMC area be renamed as 'Dara Shikoh Road' in terms of clause (a) of sub-section (1) of section 231 of the New Delhi Municipal Act, 1994, with immediate effect.</p> <p>The Council further resolved that the resolution of the Council be conveyed to the (i) Ministry of Home Affairs, Government of India; (ii) Department of Posts and Telegraph, Government of India; and (iii) Government of NCT of Delhi.</p> <p>It is further resolved by the Council that the department may initiate further necessary action in anticipation of confirmation of the minutes of the Council.</p>

ITEM NO. 03 (C-30)

Confirmation and signing of the minutes of the Council's Meeting held through circulation of agenda on 20.02.2017. **(See page 13)**

COUNCIL'S DECISION

Deferred. The next Council meeting is scheduled at 09:30 a.m. on 06.03.2017.

**NEW DELHI MUNICIPAL COUNCIL
PALIKA KENDRA: NEW DELHI**

**MINUTES OF THE COUNCIL'S MEETING HELD THROUGH CIRCULATION OF AGENDA
ON 20.02.2017.**

The following members have signed in token of its approval.

- | | | | |
|-----|--------------------------|---|-------------------|
| 1. | Sh. Arvind Kejriwal | - | Presiding Officer |
| 2. | Smt. Meenakshi Lekhi | - | Member |
| 3. | Sh. Naresh Kumar | - | Chairperson |
| 4. | Sh. Karan Singh Tanwar | - | Vice Chairperson |
| 5. | Sh. Surender Singh | - | Member |
| 6. | Dr. Anita Arya | - | Member |
| 7. | Sh. Abdul Rasheed Ansari | - | Member |
| 8. | Sh. B.S. Bhati | - | Member |
| 9. | Sh. D.S. Mishra | - | Member |
| 10. | Sh. Dharmendra | - | Member |
| 11. | Ms. P.S. Srivastava | - | Member |
| 12. | Sh. Puneet Kumar Goel | - | Member |
| 13. | Smt. Chanchal Yadav | - | Secretary, NDMC. |

ITEM NO.	SUBJECT	DECISION
01 (E-19)	Approval of the Rate Contract for procurement of Allopathic Medicines for a period of one year from the date of approval of the council.	<p>(a) Approval of annual rate contract for purchase of allopathic medicines from the approval of the date of council resolution during the current financial year 2016-17 and 2017-18.</p> <p>(b) The department is also directed to take further action in the matter in anticipation of confirmation of minutes of the Council.</p>

Copy of Reso. No. 04(A-57)
of
Council: Ordinary Meeting
Dated: 02-03-2017

ITEM NO. 04 (A-57)

1. Name of the Subject / Project :-

Sub:- Renovation, Construction and Maintenance of 113 Public Toilet Utilities (PTU's) on the Built, Operate and Transfer (BOT) Basis. (Arbitration case OMP (ENF.) (COMM) 118/2016 "City Life Line Travels (P) Ltd. Vs NDMC Council.

1. Name of the Department :-

Civil Engineering Department, EE(RIP)

2. Brief History of the Subject / Project :-

- a) M/s City Life Line Travels (P) Ltd. and NDMC entered into a concession agreement for a period of 10 years on 07.10.2008 for the work "Renovation, Construction and Maintenance of 113 Public Toilet Utilities (PTU's) on the Built, Operate and Transfer (BOT) Basis".
- b) During the concession period, the dispute arises between the agency and NDMC, the agency filled a case in the Hon'ble High Court. The Hon'ble Court appointed the Arbitrator to resolve the dispute between the parties.
- c) The claim and counter claims were submitted to the arbitrator by the claimant and respondent respectively are as under:-

Claims submitted by Plaintiff (i.e. City Life Line Travels (P) Ltd.):

- (i) **Claim No-1:- Award of ₹99,87,194/-** alongwith Interest (including the cost of consultancy charges and legal fees + Construction of PTUs+ interest paid to NDMC + submission of tender and preliminary expenses + salary and notice+ staff welfare + printing and stationery+ miscellaneous expenses + interest of the above said expenses till 07-03-2011).
- (ii) **Claim no-2:- Award of ₹18,51,020/-** towards banks charges along with interest (including the cost of Bank Guarantee issuing charges by the Bank + processing fee charged by Bank for sanction of Bank Guarantee + Bank Charges.
- (iii) **Claim No.-3:- Award of ₹33,48,708/-** along with interest thereon, towards reimbursement of expenses incurred by claimant towards loss on account of difference between FDR and ODR.
- (iv) **Claim No.-4:- Refund of ₹2,62,684/-** towards arbitration tribunal and court expenses.
- (v) **Claim No.-5:-** The Respondent is liable to pay pendent-lite and future interest to the claimant @24% the same being

commercially prevalent on the date of filing of the present statement of claim before this Hon'ble Tribunal.

Counter Claims submitted by Respondent (i.e. NDMC):-

- (i) **Counter Claim No-1:- Payment of Concession Fee:-** The concession fee is Rs. 1.55 Crores + applicable taxes per month for the entire lot of PTUs be paid monthly in advance to the NDMC by the Concessionaire. The concession fee shall be increased @ 5% every year starting from the commencing date. Therefore, under Counter Claim No. 1 the Respondent is entitled to recover a sum of Rs. 3,88,92,252/-.
 - (ii) **Counter Claim No-2:- Expenditure incurred by the Respondent on the Group B Public Toilet Utilities:-** Till September 2009 the Respondent incurred an expenditure of Rs. 63,24,558/- on account of labour expenditures at the Group B toilets and an expenditure of Rs. 3,78,857/- on account of miscellaneous expenditures at the said toilets. Thus under Counter Claim No.2 the Respondent is entitled to recover a sum of Rs.67,03,415/-.
 - (iii) **Counter Claim No-3:- Cost and Litigation Expenditure:-** The Respondent has incurred an amount of Rs. 22,62,912/- towards litigation costs and Rs. 3,66,156/- towards arbitral fees. Thus under Counter Claim No. 3 the Respondent is entitled to recover a sum of Rs.26,29,069/-.
 - (iv) **Counter Claim No.4:- Interest:-** That the Claimant is liable to pay pendent-lite and future interest to the Respondent @24% p.a. on the amounts mentioned in the above counter claims amounting to Rs.4,78,58,579/-
- d) After going through the record furnished by the both the parties to the extend found just and reasonable the Arbitration Tribunal has given the award vide dt. 07.05.2016 as follows: -

Award given by Hon'ble Arbitrator on the claim filled by M/s City Life Line Travels (P) Ltd.) :-

- (i) **Claim No-1:-** The said claim is allowed to the extent of Rs. 45,69,413/- (Construction of PTUs + interest paid to NDMC + submission of tender and preliminary expenses + salary and notice + staff welfare + printing and stationery) along with interest at 12% p.a. from the date of filing of the present petition (10.03.2011) as the above mentioned amount is support by documentary evidence. The said documentary evidence has been

denied by the Respondent, however as the ledgers filed by the Claimant are duly certified by the Chartered Accountant, the authenticity of the document is accepted by this Tribunal.

The amount of Rs. 31,35,500/- claimed towards consultancy charges and legal fees is not supported by documentary evidence and hence cannot be awarded. However the Claimant is being awarded Rs. 5 Lakhs towards litigation and other incidental cost as it is found a just and reasonable amount to be paid in view of the nature of the dispute.

- (ii) **Claim no-2:-** The Tribunal has held the Claimant is not liable to pay any amount to the Respondent. The order of the Hon'ble High Court dated 27.04.2011 has held as under:-

If the learned Arbitrator holds the plaintiff not liable to pay any amount to the defendant, the Bank Guarantee in question shall stand discharged and in that event, the defendant would be liable to pay the cost of keeping the Bank Guarantee alive to the Plaintiff'.

Thus the Claimant is being awarded the costs till 20.09.2015 i.e. claim of Rs. 59,63,178/-.

- (iii) **Claim No.-3:-** The said claim of ₹33,48,708/- towards bank charges along with interest at 12% p.a. from the date of filing of the present petition (10.03.2011) is allowed.

- (iv) **Claim No.-4:-** There was an interim order passed by the Hon'ble High Court on 27.04.2011 restraining the Respondent from encashing the Bank Guarantee furnished by the Claimant. Since the contract has been found to have been breached by the Respondent, the said Bank Guarantee for Rs. 9,30,00,000/- furnished by the Claimant shall stand discharged.

The respondent is to pay the awarded sum to the Claimant within 12 weeks from today, failing which the Respondent will be liable to pay the said amount along with an interest of 18% as per Section 31(7)(b) of the Arbitration and Conciliation Act, 1996 as per annum from the date of award.

The arbitration proceedings are thus disposed of in terms of this award. The stamp duty is required by either of the parties to be got ascertained and paid on this Award.

- e) The arbitration tribunal rejected the counter claims of NDMC on the pretext that counter claims of respondent are nothing but a counter blast to the claims of the claimant. The above award was challenged on the advice of Sh. Anil Grover, Standing Counsel NDMC in High Court through Sh. Gaurav Bhargava ASC U/s 34 (Annexure- 'I') (See pages 20 -21). The Hon'ble High Court vide order dt. 07.11.2016 dismissed the application challenging the award. Further, Hon'ble High Court on 08.11.2016 on the execution application of agency order to release the payment within 4 weeks of the orders and the next Date of Hearing was fixed on 15.12.2016. On the date of hearing Hon'ble court directed to pay the arbitration award within three weeks along with the interest upto the date of payment.
- f) On the judgment of High Court dt. 07.11.2016, Sh. Anil Grover, Standing Counsel NDMC given opinion on dated: 24.11.2016 that in the present case, *"there is no such ground on the basis of which the appeal can be filed and got admitted"*.

3. Detailed proposal on the subject / project.

The case is submitted for the consideration and accord approval from the Council to release the payment amounting to ₹2,16,74,138/- (₹ Two Crores Sixteen Lakh Seventy Four Thousand One Hundred Thirty Eight Only) including interest upto 15.01.2017 as per direction Hon'ble High Court to M/s City Life Line Travels Pvt. Ltd. as per detailed given below:-

S. No	Details of Claim	Claim Amount	Award Amount	Interest from 10.03.2011 to 07.05.2016	Total Amount payable upto 07.05.2016
1.	Claim 1 a) Constructio n of PTU alongwith interest.	₹99,87,194 /-	₹45,69,413/-	₹28,31,784 /-	₹74,01,197/-
	b) Consultanc y Charges		₹5,00,000/-	Nil	₹5,00,000/-
2.	Claim 2:- Bank Charges alongwith interest	₹18,51,020 /-	₹59,63,178/-	Nil	₹59,63,178/-
3.	Claim 3:- Toward reimbursement of expenses incurred by claimant towards loss on account of difference between FDR & ODR	₹33,48,708 /-	₹33,48,708/-	₹20,75,282 /-	₹54,23,990/-
	Toilet		₹1,43,81,299 /-	₹49,07,066/ -	₹1,92,88,365 /-

Total Amount with interest payable upto 07.05.2016	₹ 1,92,88,365/-
Interest @18% p.a. from 08.05.2016 to 28.02.2017	₹ 28,25,085/-
Total Amount if paid upto 28.02.2017	₹ 2,21,13,450/-

4. Financial implications of the proposed subject / project.

Financial implications of the proposed subject / project work out to ₹2,21,13,450/- upto 28.02.2017.

6. Implementation schedule with timelines for each stage including internal processing.

On the execution petition filled by M/s City Life Line Travels Pvt. Ltd., the Hon'ble High Court of Delhi vide order dated: 08.11.2016 has directed to the respondent (i.e. NDMC) to pay the award amount within period of 4 weeks from the date of order i.e. 08.11.2016. The next date of hearing was fixed on 15.01.2017 and the Hon'ble Court directed NDMC to pay the arbitration award within 3 weeks along with the interest upto the date of payment (Annexure- 'II') (See pages 22 – 26). The Hon'ble High Court of Delhi vide order dated: 24.01.2017 has fixed next date of hearing on 27.03.2017.

5. Final Comments of Finance Department on the subject with diary no. & date:-

Finance has seen the case vide Diary No. 2301/Finance/R-Civil dt. 28.12.2016:-
The proposal is for acceptance of the interest bearing arbitration award passed by Hon'ble High Court of Delhi.

This payment has arisen out of the contractual obligation. Law Department and Standing Counsel has already recommended to accept the arbitration award stating that there is no strong ground to challenge this orders. Since the award is interest bearing and calculated by the department upto 30.12.2016, department may release the payment under approval of the Chairman in terms of the Sr. no. 22 of DOFP consulting Law Department Thereafter, Council may be informed for the action taken along with full details / facts in the Council Meeting.

6. Legal implications of the subject / project

The date of hearing on the execution petition filled by M/s City Life Line Travels Pvt. Ltd. in the High Court is 24.01.2017.

9. Details of previous council resolution / existing law of Parliament and Assembly on the subject.

NA

10. Final Comments of Law Department on the subject.

Law Department has seen the case vide Diary No. FR-2476/LD/16 dt. 22.12.2016:-

In this case, this Department as well as Standing Counsel NDMC has rendered our opinion at page 22/N, wherein standing Counsel has opined that there is no strong ground to challenge this orders dated 08.11.2016 passed by this Hon'ble High Court in OMP(Enf.)(Comm.) 118/2016 in the case titled as City Life Line Travels Pvt. Vs NDMC.

We reiterate the same. However, if there is strong ground for challenging the orders dt. 07.11.2016 before the appellate court, same may be brought on record or may be discussed with the Standing Counsel, NDMC by the officer who is well conversant with the facts of this case on urgent basis.

11. Certification by the department that all central vigilance commission (CVC) guidelines have been followed while processing the case.
Certified that all relevant CVC guidelines would be followed.

12. **Recommendations:-**

The case is placed before the council for accord approval to release the payment amounting to ₹2,21,13,450/- (₹ Two Crores Twenty one Lakh thirteen Thousand four Hundred fifty Only) as Arbitration Award with interest upto 28.02.2017 in favour to M/s City Life Line Travels Pvt. Ltd. for the work "Renovation, Construction and Maintenance of 113 Public Toilet Utilities (PTU's) on the Built, Operate and Transfer (BOT) Basis" against the "Arbitration case OMP (ENF.) (COMM) 118/2016 titled as City Life Line Travels (P) Ltd. Vs NDMC".

The expenditure will be charged to Miscellaneous Advance Head and same will be adjusted after obtaining requisite funds in appropriate Head of Account. Amount paid will be calculated on the basis of actual date of payment but not later than 28.02.2017.

Permission may also be granted to take action in anticipation of confirmation of minutes of the Council Meeting

COUNCIL'S DECISION

Deferred. The next Council meeting is scheduled at 09:30 a.m. on 06.03.2017.

K. Sharma
 Secy. Director (City) Sectt.
 New Delhi Municipal Council
 Panchsheel Park, New Delhi

MOST URGENT


LAW DEPARTMENT

City Lifeline Travels Pvt. Ltd. Vs NDMC.

In the above cited matter, Sole Arbitrator Sh. Mukul Mudgal, Justice (Retd.) has allowed all the four claims of the claimant alongwith interest @12% per annum from the date of filing petition i.e. 10/03/2011. Hon'ble Arbitrator further directed the respondent to pay the awarded amount to the claimant within 12 weeks from the date of award i.e. 20/02/2011, failing which interest @ 18% will be payable to the Claimant u/s 31(7) (b) of the Arbitration and Conciliation Act, 1996. Hon'ble Arbitrator has disallowed all counter-claims of Respondent NDMC. The department has referred the matter to Law Department for advice.

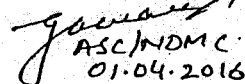
Under Section 34 of the Arbitration and Conciliation Act, there are very limited grounds on which arbitration award can be challenged by way of application for setting aside in the High Court. Sub-Section 3 of Section-34 provides that the arbitration award can be challenged within 3 months from the date of passing the award by an arbitrator. Further, proviso to Sub-Section 3 of Section 34 provides that if the Court is satisfied that applicant was prevented by sufficient cause from making application within the said period of 3 months, it may entertain the application within further period of 30 days. In this matter, huge amount is involved, therefore, award passed by the arbitrator should be challenged. However, as desired by the department, in the first instance, comments of the Arbitration Counsel are invited on the award passed by the Arbitrator.

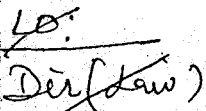
This issues with the prior approval of Director (Law).



(DHARAM PAL)
LAW OFFICER
31.03.2016

ASC, High Court

With due deference to the opinion expressed by the Ld. Law Officer, irrespective of the amount involved, adequate legal grounds to challenge the award are not available; especially since re-appreciation of evidence is not permissible u/s 34 of the Arb. Act. However, if deemed appropriate, the opinion of the Ld. Standing Counsel may be sought w.r.t the suggested grounds of challenge, if any. *Urgent. Litigation involved.*


ASC/NDMC
01.04.2016


Dir (Law)

SC.  In my opinion without wasting any further time we



नर्मिनी नगरपालिका परिषद्
न०दि०न०पा०प०
N. D. M. C.

B/1230/LD/14
17/3/16

URGENT

FR/127/SC/16
3/3/16

FD/680/SC/16
5/4/16

(37)
1423/10/16
ST

FR/139/SC/16
6/4/16

Should challenge the award under Section 34.

26/4/2016

28/4/16

XXX

Dir (Law) h
CEEC-1) 26 URGENT
4 minutes

FD/850/54/16
28/4/16

Wh
28/4/16

FO/1718/20/16
28/4

Pl discuss

2/5/16

R 579/2016
2/5/16

SECRET

EE(RIP)

Submit
2/5/16

XXX

ADD
KEE

Discuss with C.O. & ask name
of advocate to present the case

Discussed & submitted pl.

2/5/16

EECR(1)

2/5/2016

EECR-58/EECR(1)
2/5/16

R-286/04/EECR
2-5-16

\$-27

* IN THE HIGH COURT OF DELHI AT NEW DELHI

+ OMP (ENF.) (COMM.) 118/2016

CITY LIFE LINE TRAVELS (P) LTD.

..... Petitioner

Through: Ms Manmeet Arora, Ms Nidhi P. Mr
Chand Chopra, Advocates.

versus

NEW DELHI MUNICIPAL COUNCIL

..... Respondent

Through: Mr Gaurave Bhargava, Additional
Standing counsel NDMC with Mr V.
K. Singh, Assistant Engineer
(NDMC).

CORAM:

HON'BLE MR. JUSTICE VIBHU BAKHRU

ORDER

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08.11.2016

Ms Arora, learned counsel appearing for the petitioner states that the respondent's application under Section 34 of the Arbitration and Conciliation Act, 1996 has been dismissed and, therefore, the Award in favour of the petitioner has become final.

In the circumstances, the respondent is directed to pay the awarded amount within a period of four weeks from today.

List on 15.12.2016.

VIBHU BAKHRU, J

NOVEMBER 08, 2016
MK

Submitted for further documents to

Q. 11/16
Q. 11/16

In light of the above discussion, I am of the view that for reasons enumerated above, the Respondent was in breach of the Contract and hence the Claimant had a valid reason to avoid the Contract.

In so far as the Counter Claim is concerned as the Tribunal has held that the Respondent was in breach of Contract, there is no question of the Respondent claiming any amount on account of loss of revenue.

The Counter Claim for seeking expenses incurred for maintaining the Group B PTUs is also not maintainable, because as per Respondent's own clarification given to the Claimant, the Respondent was to maintain the PTUs until they are handed over to the Claimant.

The clarification on page 9 of 16 is - "No change. However, it is clarified that the handing over of the toilets to the concessionaire will be in phases and till that time NDMC will continue to maintain the toilets which have not been handed over."

Thus it is found that the Counter Claims of the Respondent are nothing but a counter blast to the claims of the Claimant. The Respondent has not been able to establish its case and therefore the Counter Claim is dismissed.

The Claimant by its letter dated 27.03.2009 and 15.05.2009 requested the Respondent to terminate the Contract, due to the project becoming unviable for the reasons mentioned above. The Claimant even assured the Respondent that the Claimant would indemnify the Council against all such claims, expenses and damages and from legal recourse if the Council agrees for the termination. The Claimant in return had asked for release of its Performance Bank Guarantee.

The non-acceptance of the termination of the contract by the Respondent has led to the present dispute. Had the Respondent terminated the Contract at the request of the Claimant, the said Claim of the Claimant would not have arisen.

However as the Respondent is in breach of the Contract, the following Claims of the Claimant are allowed to the extent found just and reasonable-

Claim 1 - Rs.99,87,194/- alongwith interest (including the cost of consultancy charges and legal fees+ construction of PTUs+ interest paid to NDMC+ submission of tender and preliminary expenses+ salary and notice+ staff welfare+ printing and stationery+ miscellaneous expenses+ interest on the above said expenses till 07-03-2011).

The Claimant had submitted the cash vouchers, salary slips of the workers, duly audited ledger accounts of the Company along with the Photographs of the Construction of the PTUs done by it. The perusal of the said documentary evidence makes it clear that the Claimant did spend a considerable amount of time and money in carrying out the work as per the Contract as evident from the photographs submitted by the Claimant.

Therefore the said claim is allowed to the extent of Rs. 45,69,413 (construction of PTUs, interest paid to NDMC+ submission of tender and preliminary expenses+ salary and notice+ staff welfare+ printing and stationary) alongwith interest at 12% p.a. from the date of filing of the present petition (10.03.2011) as the above mentioned amount is supported by documentary evidence. The said documentary evidence has been denied by the Respondent, however as the Ledgers filed by the Claimant are duly certified by the Chartered Accountant, the authenticity of the document is accepted by this Tribunal.

The amount of Rs. 31, 35,500/- claimed towards consultancy charges and legal fees is not supported by documentary evidence and hence cannot be awarded. However the Claimant is being awarded Rs. 5 lakhs towards litigation and other incidental cost as it is found a just and reasonable amount to be paid in view of the nature of the dispute.

Claim 2 - Award of Rs. 18,51,020/- towards banks charges along with interest (including the cost of Bank Guarantee issuing charges charged by the Bank+ processing fee charged by Bank for sanction of Bank Guarantee+ Bank Charges

The Tribunal has held that the Claimant is not liable to pay any amount to the Respondent. The order of the Hon'ble High Court dated 27.04.2011 has held as under:-

'If the learned Arbitrator holds the plaintiff not liable to pay any amount to the defendant, the Bank Guarantee in question shall stand discharged and in that event, the defendant would be liable to pay the cost of keeping the Bank Guarantee alive to the Plaintiff'

Thus the Claimant is being awarded the costs till 20.09.2015 i.e. claim of Rs. 59,63,178/- ✓

Claim 3 - Award of Rs.33,48,708/- along with interest thereon, towards reimbursement of expenses incurred by the claimant towards loss on account of difference between FDR and ODR.

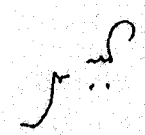
The said claim of Rs.33,48,708/- towards banks charges alongwith interest at 12% p.a. from the date of filing of the present petition (10.03.2011) is allowed.

There was an interim order passed by the Hon'ble High Court on 27.04.2011 restraining the Respondent from encashing the Bank Guarantee furnished by the Claimant. Since the contract has been found to have been breached by the Respondent, the said Bank Guarantee for Rs. 9,30,00,000/- furnished by the Claimant shall stand discharged.

The Respondent is to pay the awarded sum to the Claimant within 12 weeks from today, failing which the Respondent will be liable to pay the said amount along with an interest of 18% as per Section 31(7) (b) of the Arbitration and Conciliation Act, 1996 as per annum from the date of award.

The Arbitration proceedings are thus disposed of in terms of this award. The stamp duty is required by either of the parties to be got ascertained and paid on this Award.

Date: 07.05.2016


MUKUL MUDGAL
(ARBITRATOR)

IN THE HIGH COURT OF DELHI AT NEW DELHI
OMP (FNF) (COMM) 118/2016

CITY LIFE LINE TRAVELS (P) LTD. Petitioner

Through: Ms Manmeet Arora, Ms Nidhi
Parashar and Mr Chand Chopra,
Advocates.

versus

NEW DELHI MUNICIPAL COUNCIL

..... Respondent

Through: Mr Gaurave Bhargava, Additional
Standing counsel with Mr Navandeep
Matta alongwith Mr V.K. Singh, AE,
NDMC.

CORAM:

HON'BLE MR. JUSTICE VIBHU BAKHRU

ORDER

15.12.2016

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The learned counsel for the respondent, on instructions of Mr V.K. Singh, Assistant Engineer, states that the respondents do not intend to prefer an appeal against the order dismissing their petition under Section 34 of the Arbitration and Conciliation Act, 1996. He further states that the respondent would pay the awarded amount within a period of three weeks from today along with interest till date of payment.

In view of the aforesaid statement, the hearing of the present petition is deferred. List for compliance on 24.01.2017.

VIBHU BAKHRU, J

DECEMBER 15, 2016

ITEM NO. 05 (B-26)

Copy of Reso. No. 05(B-26)
of
Society's Ordinary Meeting
Dated 02-03-2017

7. Name of the Project:

RFP for selection of Concessionaire for the project "Selection of Concessionaire for supply, installation and maintenance of Smart Street light Poles (55 Nos.) having provisions of Wi-Fi, Smart Warm LED Street Light, CCTV camera, and environmental sensors".

8. Name of the Department concerned:-

Electrical Engineering Department (Zone-I)

9. Brief History of the Project:-

NDMC has been selected by the Ministry of MOUD, Govt. of India as one of 1st 20 Smart Cities under the Smart City Mission.

To provide the free wifi service, city surveillance, monitoring of air quality parameters and smart LED for the citizen this project was prepared. The project of Smart Street Light Poles (55 Nos.) consists of various components like Wi-Fi, Smart Warm LED Street Light, CCTV camera, and environmental sensors on these smart poles having a height of 9 & 12 meters and designed as approved by NDMC. These smart poles will be installed at the existing locations of the street light poles by replacing it or at new locations as per NDMC requirement. The concessionaire will do following works in lieu of rights over these Smart Poles for installation of telecom equipments to enable multiple telecom services based on Wi-Fi/2G/3G/4G/RF/NextGen for the concession period of nine and half years [including implementation period]. The smart pole will be provided in Connaught Place, Baba Khark Singh Marg, Sansad Marg, Janpath, K.G. Marg, Barakhamba Road, Tolstoy Marg and nearby area as approved/directed by NDMC.

10. Detailed proposal of the Project:-

The Concessionaire will install fifty five (55 nos.) street lighting poles in Connaught Place, BKS Marg, Sansad Marg, Janpath, K.G. Marg, Barakhamba Road, Tolstoy Marg and nearby area as approved/directed by NDMC (As per list placed as annexure- 1 See page 32) to create infrastructure to enable multiple telecom services based on Wi-Fi/2G/3G/4G/RF/NextGen.

The Concessionaire will provide the following services free of cost

11. Wi-Fi Services at smart pole locations

The Concessionaire will install microcell/Wi-Fi Aps on these smart street light poles to provide Wi-Fi @ one Mbps speed and throughout of 100 Kbps per user and for 75 users per pole simultaneously to the public shall be free of cost for 50 MB data per day subject to one GB data per month per user. One access point catering to 75 free users simultaneously to be installed at each smart street light pole under the scope of this RFP." Internet bandwidth for free internet services is to be provided for atleast 75 users per pole at a time. The free SSID's will be displayed firstly on the mobile phone. Free Wi-Fi shall be provided without any interference with other SSID's. On mobile phone it should be clearly displayed that other SSID's are paid services so that the citizen should be well aware that it is a paid service. The applicant can generate revenue through online advertisement while providing free Wi-Fi to public without hindering the free Wi-Fi service for not more than 5% time in total and also through paid Wi-Fi services after free time. In addition to this,

the concessionaire is allowed to place online advertisement on the free Wi-Fi login page only.

b) Smart Lighting solution with Smart connectivity to control room through Cloud

The Concessionaire will install Smart Warm LED luminaries with individual controller on these smart street light poles to remotely on/off and monitoring of these LEDs. The total comprehensive warranty for replacement of these LED luminaries is for throughout the concession period of nine and half years. During this period, the Concessionaire has to provide the replacement of all defective LED luminaries and other equipments related to LED luminaries. Detailed specifications are available at Clause-3.7 of the RFP.

12. CCTV Based Surveillance

The Concessionaire will install PTZ IP based camera on these Smart street light poles as per specifications defined in the RFP document. The feed of the camera will be stored in the **Cloud based storage** or local data storage for CCTV in NDMC premises (built up space for keeping servers of local data storage of data will be provided by NDMC free of cost) so that the same can be seen anytime and anywhere. Detailed specifications are available at Clause-3.7. The camera feed will be stored for 30 days and @ 15 frames per second at 2 Megapixel resolutions.

13. Environmental monitoring sensors

The concessionaire has to install the sensors for monitoring of the parameters like Temperature, Humidity, CO, CO₂, NO₂, SO₂, PM₁₀, PM_{2.5}. Each set of all these sensors will be installed on a group of every three smart street light poles, and these sensors shall provide and send online data of these parameters to one central location so that the same can be display on NDMC 311 app. API for integrating such data with NDMC App 311 shall be provided by the concessionaire. Nine (9) numbers digital / LED Outdoor Panels (65" to 72" inches) will be installed by the concessionaire for online display of these parameters at the locations provided by the NDMC. No advertisement will be allowed on these digital / LED panels. The Concessionaire has to install the Outdoor LED Screens at designated places at the cost of the Concessionaire. Details of such places will be provided by the NDMC to the concessionaire. Necessary API to integrate the data from the environmental sensors with the (i) NDMC 311 App (running at present), and (ii) NDMC's Command and Control System (proposed to be set-up in future) will be provided by the Concessionaire.

The Concessionaire will Design, Develop, Implement, Manage Operations & Maintenance of the complete solution at its own cost throughout concession period. In lieu of these services, the Concessionaire will use these poles. The same will be utilized by multiple service providers having valid license from Department of Telecommunication (DoT), Government of India on non-discriminatory basis on fair market price. The Concessionaire will charge from service provider as per the business model of the Concessionaire for using these services. It will help to drive intelligent sensor-based Internet of Thing (IoT) innovations in transportation, utilities, public safety. In lieu of it, the Concessionaire will provide the services sought in this RFP document to NDMC free of cost alongwith the Concessionaire fee as quoted by it under this RFP document.

The case has been examined and concurred by the Finance Deptt.

14. FINANCIAL IMPLICATIONS OF THE PROJECT:

No investment from NDMC. The Concessionaire will invest in the project and also bear the cost of O&M for nine years. The concessionaire will pay to NDMC a monthly concession fee of Rs. 2610/- per month per pole which will be increased by 5% annually on compounded basis throughout concession period.

The year wise/monthly concession fee to be payable is as under:-

Revenue calculation for 55 smart poles during concession period of 9 years.			
S.No.	Concession period (Years)	Monthly concession fee to be	Revenue from 55 poles per annum with increase of 5% per year on compounded basis.
1	1	143550/-	1722600
2	2	1,50727.50	1808730
3	3	158263.92	1899167
4	4	166177.08	1994125
5	5	174485.92	2093831
6	6	183,210.25	2198523
7	7	192370.75	2308449
8	8	201,989.25	2423871
9	9	2,12,088.75	2545065
Total concession fee for 9 years			18994361

15. IMPLEMENTATION SCHEDULE WITH TIMELINESS FOR EACH STAGE INCLUDING INTERNAL PROCESSING.

- (i) To award the work and execution of agreement : 30 days
- (ii) Implementation of the project within six month of signing of agreement as under:
 - a. Provide and install 5 Smart Poles : within two months
Stabilization period for such 5 poles : within three months
 - b. Next 10 Smart Poles : within three months
Stabilization period for such 10 poles : within four months
 - c. Next 20 Smart Poles : within four months
Stabilisation period for such 20 poles : within five months
 - d. Balance 20 Smart Poles : within five months
Stabilization period for such 20 poles : within six months
- (iii) Concession Period (including implementation period of 6 months) : Nine and half years.

7.(a) FINAL COMMENTS OF THE FINANCE DEPARTMENT ON THE SUBJECT WITH DIARY NUMBER & DATE.

Finance Deptt. Has already seen the proposal of the deptt. As at P-28-29/N and concurred on Np-33 the same with certain clarifications which are to be apprised to the Competent Authority while obtaining approval thereof.

7.(b) COMMENTS OF THE DEPARMTNET ON THE COMMENTS OF THE FINANCE DEPTT.

16. Department will ensure the timely receiving of the concession fee from the concessionaire in terms of clause 3.5.6.
17. Department will ensure in terms of clause 6.5 that the concessionaire agreement should be executed within one month of the date of issue of letter of acceptance subject to performance guarantee has been deposited within the prescribed period.
18. The RFP was uploaded on NDMC website as well as published in various newspapers throughout the country. As per prevailing practice, the RFP was uploaded on NDMC website but submission is in hard copy instead of e-tender as such type of agency are not registered on online tender and also documents to be submitted alongwith bids are much more as compared to normal tender. The RFP was duly vetted by the Committee headed by F.A. and duly approved by the Competent Authority.
19. The Sub-Committee being constituted by the Competent Authority for this project is self competent to take the decision on the matters related to the project for which it is constituted. It is however clarified that the decision to reduce the concession fee from Rs.5000/- pole per month to Rs.2500/- pole per month was taken by the Sub-Committee keeping in view the query raised by company in pre-bid meeting and after detailed discussion and due deliberation and same was uploaded as reply to the pre-bid query
20. Regarding reasonability of the rates it is brought on the record that no such project was executed in NDMC as well as in India having same scope of work as well as same terms & conditions. In most of the RFP in India departments are paying capital cost as well as Operation & Maintenance cost or they are allowing advertisement on each pole with some Gap Funding. In the present case, all the Capital Cost and Operation & Maintenance are of the applicant and they will pay to NDMC monthly concession fee of Rs.2610/- per month per pole against the minimum fee of Rs.2500/-. The rate of Rs.2610/- per month per pole is reasonable and justified.
- vi. All data and information brought on record are correct to the best of information available with the department.

21. LEGAL IMPLICATION OF THE SUBJECT/PROJECT:

No legal implication is involved.

9. DETAILS OF PREVIOUS COUNCIL RESOLUTIONS, EXISTING LAW OF PARLIAMENT AND ASSEMBLY ON THIS SUBJECT:

Council Resolution No.21(B-11) dt. 02-03-2016, 05(A-03) dt 26-04-2016 and 05(B-12) dated 05-09-2016.

10. FINAL COMMENTS OF THE LAW DEPARTMENT ON THE SUBJECT/PROJECT:

Draft agenda item for 55 nos. of pole in C.P. with various faculties has no legal implication at this stage. However, deptt. may ensure that facts & figures mentioned therein are correct and are as per approval of competent authority and this will serve the purpose of deptt. and are in interest of council. All CVC and CPWD manual guideline are adhered to.

11. CERTIFICATION BY THE DEPARTMENT THAT ALL CENTRAL VIGILANCE COMMISSION (CVC) GUIDELINES HAVE BEEN FOLLOWED WHILE PROCESSING THE CASE.

It is certified that all Central Vigilance Commission (CVC) guidelines have been followed while processing the case.

12. RECOMMENDATIONS:

The case is placed before the Council for consideration and approval for :-

- i). To award the work to the highest bidder i.e. M/s Indus Towers (I) Ltd. They will pay to NDMC a monthly lump-sum concession fee of Rs.2610/- per month per pole which will be increased by 5% annually on compounded basis throughout the concession period from (i) the date of implementation (i.e. Go-Live) of the project, or (ii) expiry of six month period from the date of signing of the concession agreement, whichever is earlier, and till expiry of the Concession period of Nine and a half years.
- ii). To award the work in anticipation to the confirmation of the minutes of the Council Meeting.

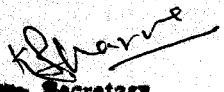
22. DRAFT RESOLUTION:

Resolved by the Council that approval is accorded for

- i) To award the work to the highest bidder i.e. M/s Indus Towers (I) Ltd. They will pay to NDMC a monthly lump-sum concession fee of Rs.2610/- per month per pole which will be increased by 5% annually on compounded basis throughout the concession period from (i) the date of implementation (i.e. Go-Live) of the project, or (ii) expiry of six month period from the date of signing of the concession agreement, whichever is earlier, and till expiry of the Concession period of Nine and a half years.
- ii) To award the work in anticipation to the confirmation of the minutes of the Council Meeting.

COUNCIL'S DECISION

Deferred. The next Council meeting is scheduled at 09:30 a.m. on 06.03.2017.


 The Secretary
 New Delhi Municipal Council
 Vidya Kendra, New Delhi

Location of Smart Street Light Poles

S. No.	Location	Number of Smart Street Light Pole
1	B.K.S. Marg from Gole Dhakana to Connaught Place	05
2	Sansad Marg from Patel Chowk to Connaught Place	05
3	Janpath from Le Meridian Hotel to Connaught Place	06
4	K.G. Marg from Ferozshah Road Crossing to Connaught Place	05
5	Barakhamba Road from Mandi House to Connaught Place	06
6	Tolstoy Marg from Jantar Mantar to Barakhamba Road	07
7	Connaught Place, Outer, Middle, Inner circle	21
Total		55 Nos.

Note: One set of Air Quality Sensors will be installed on a Group of every three Smart Street Light Poles.

ITEM NO. 06 (B-27)Electricity Department-II.

Subject:- Implementation of Smart Grid Infrastructure Including Enhancing Of Existing Network in NDMC Power Distribution Area

Sub Head:- Strengthening of sub-transmission and distribution network under integrated power development scheme (IPDS) of Ministry of Power, Government of India".

1. Council vide resolution no 17 (B-05) dated 28/08/2015 accorded Ex-Post facto Administrative approval (A/A) for submission of DPR amounting to Rs. 528.7009 Crores under IPDS for strengthening of sub-transmission and distribution network including metering & IT enablement, for consideration of the Empowered Monitoring Committee in Ministry of Power GOI, in the meeting held on 06.08.2015 through Ministry of Home Affairs (MHA).
2. Vide the same resolution council also approved Expenditure sanction (E/S) of Rs. 211.480 Crores, being the non-grant (40%) portion in the work of strengthening of Sub-transmission & Distribution Network including metering & IT enablement in NDMC under Integrated Power Development Scheme (IPDS), to be funded by NDMC, from its own resources.
3. Power Finance Corporation (PFC), the nodal agency of IPDS conveyed NDMC vide letter no 02:16: IPDS: NDMC: DELHI: 042003 dated 22.09.2016 that IPDS Monitoring Committee of MoP/GOI, in its 7th meeting held on 28th April 2016 has considered NDMC's project proposals and approved Rs 196.92 Cr as the project cost for NDMC area of Delhi.. Details of approvals are as under:-
 - a) Approved DPR Cost for NDMC area is Rs 196.92 Crore
 - b) Govt. of India (GoI) Grant of Rs. 118.15 Crore (60% of sl. No. 1)
 - c) Govt. of India (GoI) Grant for Project Management Agency Rs. 0.98 Crs (0.5% of sl. No. 1)
 - d) Total Grant= Rs. 119.13 Crore (sl. No. 2 + sl. No. 3)
4. To execute IPDS work NDMC appointed M/s WAPCOS Limited (A Govt. of India Undertaking) as Project Design & Management Agency (PDMA) for implementation of SMART Grid Infrastructure including Enhancing of Existing Network in NDMC Power Distribution Area.

Based on the proposal submitted by WAPCOS and recommendation of of the department, the Chairman has accorded approval on dtd. 25/1/17 for the detailed estimate amounting to Rs. 185,44,20,070/- and Draft NIT for the work of "Strengthening of sub-transmission and distribution network under integrated power development scheme (IPDS) of Ministry of Power, Government of India" with direction "to inform council also".

Accordingly, e-procurement tender notice was uploaded on website <https://govtprocurement.delhi.gov.in> and www.ndmc.gov.in on dated 30/01/2017. The e-procurement tender notice was also published on dtd. 01/2/17 in following newspaper:-

1. Hindustan Times- English (All India Edition)

2. Economic Times –English (All India Edition)

3. Navbharat Times- Hindi (NCR region)

The details of e-procurement tender notice are as follows:-

Tender ID :- 2017_NDMC_122688_1
 Date of release of e-Tender :- 30/01/2017
 Estimate cost :- Rs. 185,44,20,070/-
 EMD Amount :- Rs. 3,70,88,401/-
 Date and time for Pre-bid meeting :- 14/02/2017 at 11:00 AM, in NDMC
 Council Room, 3rd floor, Palika Kendra, New
 Delhi-110001.
 Last date/time for receipt of Bid :- 28/02/2017 at 3:30PM
 Date/Time for opening of Bid :- 28/02/2017 at 4:00 PM
 The pre bid meeting was held on dtd. 14/2/17 and quarries received from the
 firms have been evaluated and corrigendum is being issued accordingly. The last
 date of submission of bid has been extended from 28/2/2017 to 20/3/2017.

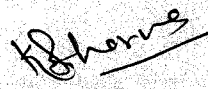
The case is placed before Council for above information.

Draft Resolution

Information noted.

COUNCIL'S DECISION

Deferred. The next Council meeting is scheduled at 09:30 a.m. on 06.03.2017.


 Per Secretary
 New Delhi Municipal Council
 Palika Kendra, New Delhi

ITEM NO.07 (F-02)**1. Name of the Proposal**

Determination of municipal tax, rates, cesses and rebates for the Financial Year 2017-18 and other related matters.

2. Name of the Department

Property Tax Department

3. Proposal for consideration of Council

- (i) Section 60 of the Act mandates that the Council shall levy certain obligatory taxes specified under Section 60(1) of the Act and may levy certain discretionary taxes as specified under Section 60 (2) of the Act.
- (ii) Chairperson while proposing the Budget for the Financial Year 2017-18 before the Council on 13/01/2017 stated that there would be no increase in property tax rates as for the Financial Year 2017-18 {para-10.2) of Budget speech}. The Council has already approved the budget proposals alongwith the Budget Estimates in its meeting held on 13/01/2017.
- (iii) Vide Resolution No.03 (F-01) dated 27.01.2016, Council has determined rates of various municipal taxes, rates and cesses for the year 2016-17 and permissible rebates as per Annexure-A.
- (iv) Accordingly, the rates of taxes, rates and cesses for the Financial Year 2017-18 would be as under:-

4. Property Tax

	Lands and buildings or part thereof	Rate of Tax
i.	Where the rateable value does not exceeds Rs.10 Lacs	20% of the rateable value
ii.	Where the rateable value exceeds Rs.10 Lacs but does not exceeds Rs.20 lacs.	Rs.2,00,000/- plus 25% of the amount by which the rateable value exceeds Rs.10 lacs.
iii.	Where the rateable value exceeds Rs.20 lacs	Rs.4,50,000/- plus 30% of the amount by which the rateable value exceeds Rs.20 lacs.

(B) Tax on vehicles and animals: As per Schedule -II of the Act at 'NIL' rate.

(C) Theatre tax: As per Schedule - III of the Act as 'NIL' rate.

(D) Tax on advertisements other than advertisements published in the Newspapers: As per Schedule-IV of the Act at maximum rate.

(E) Duty on transfer of property: Duty on transfer of property on the instruments specified in Sec. 93(2)(b) and on instruments presented for mutation under Sec.74, at the following rate:-

5. 2% in case the transferee is a woman to the extent of her share in the property.

6. 3% in case the transferees are persons other than women.

(F) Tax on building payable along with the application for sanction of the building plan.

As per Schedule-V of the Act.

(G) Tax on sale or supply of Electricity:

The tax may be @ 5% of tariff fixed by DERC for consumption, sale or supply of electricity or on sale of surplus electricity.

04. Section 124 of the NDMC Act provides that the Council may by resolution passed in this behalf exempt either wholly or in part from the payment of any taxes levied under this Act and any class of person or any class of property or goods. Under this provision, the Council has been giving rebate on the payment of tax and not from the levy of tax. These rebates for the year 2017-18 may be up to the pay by dates as decided by the Council as under:-

7. a rebate of 50% of the tax calculated on the rateable value upto Rs.5 lacs of lands and buildings used or to be used and occupied or to be occupied for residential purposes;

(ii) a self occupancy rebate of 25% of the property tax payable after allowing the rebate at (i) above, in respect of self occupied residential properties singly owned by a Sr. citizen who is sixty years or more in age as on 01.04.2017 or by a women or a physically challenged person, irrespective of their age or jointly owned by any of these categories;

Provided that no portion of the building owned by such a Sr. citizen or women or physically challenged person is on rent or is used for commercial purposes and the building is actually owned and occupied by these categories;

8. a rebate of 50% of the tax determined on rateable values upto Rs.1 lac, for properties other than residential properties;

9. a rebate of 40% of the tax payable in respect of aided schools and colleges and 20% of tax payable by unaided schools for the lands and buildings owned by Society or Body after deducting the rebate at (iii) above;

Provided that no such rebate shall be available on the portions on rent or used for commercial purposes or occupied for residential purposes by staff (employees);

10. on the net tax payable, after rebate as above from (i) to (iv), a prompt payment of rebate of 10% of the net tax may be allowed, if the tax is paid, along with a return U/s-77 of the NDMC Act by 30th September, 2017 and 5% if the tax is paid after 30st September, 2017 but on or before 31st December, 2017;

Provided that the date of payment of tax with rebates can be extended by the Chairperson, generally or in specific case on facts of the case.

Provided further that in case of any dispute on the question of grant of rebates under clause (i) to (v), the decision of the Chairperson shall be final.

05. **SERVICE CHARGES**

Properties of the Union constructed prior to 26th of Jan., 1950 are subject to property tax and those constructed on or after 26th January 1950 are exempt from the levy of property taxes. Under orders of the Govt. of India, as approved by the Hon'ble Supreme Court, Service Charges are payable on all such properties. There has been a change in the valuation of such properties in the Bye-laws of 2009. If the property tax and service charges are paid as per these bye-laws of 2009, the rebates under para-10(v) property tax and service charges would be admissible at the same rates as to the private properties.

06. **Financial implication of the proposed subject**

This is a statutory requirement.

07. **Implementation schedule with timelines for each stage including internal processing.**

Not applicable.

08. **Comments of the Finance Department**

N.A

09. **Comments of the Department on comments of Finance Department**

N.A

10. Legal implications of the subject/project

This is a legal requirement as per Section 55(2) of NDMC Act 1996. Proposed rates would be effective from 1st April, 2017.

11. Details of previous Council Resolution, existing law or Parliament and Assembly on the subject

In Financial Year 2016-17, the rates and rebates were approved vide Resolution No.03(F-01) dated 27/01/2016 by Council, enclosed as Annexure 'A' (See pages 39-42).

12. Comments of the Law Department on the subject/project

This is a requirement of statute and as such no legal implications.

11. Comments of the Department on the comments of Law Department

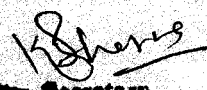
NIL

Recommendations

A detailed proposal as contained in Paras - 03 to 05 on the Determination of Municipal taxes, rates, cesses and rebates for the financial year 2017-18 is placed before the Council for ratification.

COUNCIL'S DECISION

Deferred. The next Council meeting is scheduled at 09:30 a.m. on 06.03.2017.


 The Secretary
 New Delhi Municipal Council
 Patika Kendra, New Delhi

M NO 03 (F-01)

Name of the subject/project

27-1-2016

03(F-01)

~~Ad/Tax~~
Ad/Tax

Determination of municipal tax, rates, cesses and rebates for the year 2016-17 and other related matters.

2. Name of the Department

Property Tax Department

Ad/Tax
18/3

3. Detailed history of the subject and proposal for consideration of Council

4. Requirement of Sub-Section (2) of Section 55 of the New Delhi Municipal Council Act, 1994(hereinafter referred to as the "ACT") is that the Council has to determine the rates of various municipal taxes, rates and cesses for the year 2016-17 on or before 15th February 2016.

5. Section 60 of the Act mandates that the Council shall levy certain obligatory taxes specified under Section 60(1) of the Act and may levy certain discretionary taxes as specified under Section 60 (2) of the Act.

6. Executive instructions from the Central Government, as approved by the Hon'ble Supreme Court of India, provide that Council is entitled to Service Charges on land & building being properties of the Union, constructed on or after 26th Jan , 1950.

07. In Resolution No.26 (F-1) dated 30.01.2015 Council has determined rates of various municipal taxes, rates and cesses for the year 2015-16 and permissible rebates as per Annexure-A (See Pages 21 - 24).

8. The property tax is a percentage of the retable value of lands and buildings and valuation of land and buildings under the Annual Rent Bye Laws of 2009. This Bye Law is under consideration of the Delhi High Court, where in so far no stay on the payment of taxes has been given by the Court so far.

9. It is for the consideration of the Council that the rates of property tax may continue to be the same as in 2015-16. Similarly, the rates of taxes on vehicles and animal, theatre tax, tax on advertisements other than the advertisements published in the newspaper, duty on transfer of property, tax on building payable along with the application for sanction of the building plan may be the same as in 2015-16. The tax on sale, supply and consumption of electricity may @ 5% of tariff fixed by DERC for consumption, sale or supply of electricity or on sale of surplus electricity. Accordingly, the rates of taxes, rates and cesses for the year 2016-17 are proposed for consideration for the Council as under:

R/1699/AdT
18/3/16

R-3815/AdT (7)
16/3/16

(A) Property Tax

	Lands and buildings or part thereof	Rate of Tax
i.	Where the rateable value does not exceeds Rs.10 Lacs	20% of the rateable value
ii.	Where the rateable value exceeds Rs.10 Lacs but does not exceeds Rs.20 lacs.	Rs.2,00,000/- plus 25% of the amount by which the rateable value exceeds Rs.10 lacs.
iii.	Where the rateable value exceeds Rs.20 lacs	Rs.4,50,000/- plus 30% of the amount by which the rateable value exceeds Rs.20 lacs.

(B) Tax on vehicles and animals: As per Schedule -II of the Act at NIL rate.

(C) Theatre tax: As per Schedule - III of the Act as NIL rate.

(D) Tax on advertisements other than advertisements published in the Newspapers: As per Schedule-IV of the Act at maximum rate.

(E) Duty on transfer of property: Duty on transfer of property on the instruments specified in Sec. 93(2)(b) and on instruments presented for mutation under Sec.74, at the following rate:-

- (a) 2% in case the transferee is a woman to the extent of her share in the property.
- (b) 3% in case the transferees are persons other than women.

(F) Tax on building payable along with the application for sanction of the building plan.

As per Schedule-V of the Act.

(G)Tax on sale or supply of Electricity:

The tax may be @ 5% of tariff fixed by DERC for consumption, sale or supply of electricity or on sale of surplus electricity.

10. Section 124 of the NDMC Act provides that the Council may by resolution passed in this behalf exempt either wholly or in part from the payment of any taxes levied under this Act and any class of person or any class of property or goods. Under this provision, the Council has been giving rebate on the payment of tax and not from the levy of tax. These rebates for the year 2016-17 may be upto the pay by dates as decided by the Council as under:

- (i) a rebate of 50% of the tax calculated on the rateable value upto Rs.5 lacs of lands and buildings used or to be used and occupied or to be occupied for residential purposes;
- (ii) a self occupancy rebate of 25% of the property tax payable after allowing the rebate at (i) above, in respect of self occupied residential properties singly owned by a Sr. citizen who is sixty years or more in age as on 01.04.2016 or by a woman or a physically challenged person, irrespective of their age or jointly owned by any of these categories;

Provided that no portion of the building owned by such a Sr. citizen or women or physically challenged person is on rent or is used for commercial purposes and the building is actually owned and occupied by these categories;

- (ii) a rebate of 50% of the tax determined on rateable values upto Rs.1 lac. for properties other than residential properties;
- (iv) a rebate of 40% of the tax payable in respect of aided schools and colleges and 20% of tax payable by unaided schools for the lands and buildings owned by Society or Body after deducting the rebate at (iii) above;

Provided that no such rebate shall be available on the portions on rent or used for commercial purposes or occupied for residential purposes by staff(employees);

- (v) on the net tax payable, after rebates as above from (i) to (iv), a prompt payment of rebate of 10% of the net tax may be allowed, if the tax is paid, along with a return U/s-77 of the NDMC Act by pay by day or 30th September, 2016 whichever is earlier and 5% if the tax is paid after 30th September, 2016 but on or before 31st December, 2016;

Provided that the date of payment of tax with rebates can be extended by the Chairperson, generally or in specific case on facts of the case.

Provided further that in case of any dispute on the question of grant of rebates under clause (i) to (v), the decision of the Chairperson shall be final.

SERVICE CHARGES

- 11. Properties of the Union constructed prior to 26th of Jan., 1950 are subject to property tax and those constructed on or after 26th January 1950 are exempt from the levy of property taxes. Under orders of the Govt. of India, as approved by the Hon'ble Supreme Court, Service Charges are payable on all such properties. There has been a change in the valuation of such properties in the Bye-laws of 2009. If the property tax and service charges are paid as per these bye-laws of 2009, the rebates under para-10(v) property tax and service charges would be admissible at the same rates as to the private properties.

- 12. Financial implication of the proposed subject

This is a statutory requirement.

- 13. Implementation schedule with timelines for each stage including internal processing.

Not applicable.

- 14. Comments of the Finance Department

N.A

- 15. Comments of the Department on comments of Finance Department

N.A

16. Legal implications of the subject/project

This is a legal requirement.

17. Details of previous Council Resolution, existing law or Parliament and Assembly on the subject

In 2015-16, the rates and rebates were approved in Resolution No.26(F-1) dated 30.01.2015 (see pages 21 - 24).

18. Comments of the Law Department on the subject/project

This is a requirement of statute and as such no legal implications.

19. Comments of the Department on the comments of Law Department

NIL

20. Recommendations

Council may approve the proposals as contained in Paras - 09 to 11 and permit implementation, in anticipation of confirmation of minutes of the meeting.

Chairperson has seen the proposal and approved being placed before the Council in its next meeting.

COUNCIL'S DECISION

Resolved by the Council to approve the proposals of the department as contained in Paras - 09 to 11 of the preamble.

It was further resolved by the Council that the department may initiate further necessary action in anticipation of confirmation of the minutes of the Council.

Mhalaup
16-03-16

Copy of Reso. No. 08 (T-05)
of
Council's Ordinary Meeting
Dated 02-03-2017

ITEM NO. 08 (T-05)

1. Name of the subject:

Recommendation for naming of Main Road connecting Shiv Mandir, Y- Block and YZ Block Sarojini Nagar & Vinayak Marg of Pillanji Village in the name of 'Choudhary Jagdev Namberdar Marg' under the Jurisdiction of NDMC area.

2. Name of the Department:

General Administration Department

3. Proposal on the subject/project:

3.1 Brief History on naming/renaming of roads / streets by NDMC

3.1.1 To respect the sentiments of people, the need to recognize and honour great men and women of our times, roads/ streets/ institutions have been re-named in the past. Some of these cases are as follows:-

		Council's Decision on
(i) Connaught Circus	Indira Chowk	12.01.1996
(ii) Connaught Place	Rajiv Chowk	12.01.1996
(iii) Canning Road	MadhavRaoScindiaMarg	26.02.2002
(iv) Aurangzeb Road	Dr. APJ Abdul Kalam Road	28.08.2015
(v) Race Course Road	LokKalyanMarg	21.09.2016
(vi) Dalhousie Road	Dara Shukoh Road	06.02.2017

3.2 Present proposal

In the instant case, a request has been made to the NDMC by Sh. Abdul Rasheed Ansari, and members of the council Dr. Anita Arya, & Sh. B.S. Bhati for naming Main Road connecting Shiv Mandir, Y- Block and YZ Block Sarojini Nagar & Vinayak Marg of Pillanji Village in the name of 'Choudhary Jagdev Namberdar Marg' under the Jurisdiction of NDMC area. (Annexure-I See pages 48 -50).

3.2.2 It has been mentioned by Dr. Anita Arya, & Sh. B.S. Bhati that Chaudhary Jagdev Namberdar Ji was renowned personality not only in Pillanji Village but also in nearby area. They have really worked for promotion of education when 95% of people were un-educated. Some of the other works carried out by Jagdev Ji are as follow:-

- *To educated people to work against social evils.*
- *To stop the excess expenditure during marriage and banning of Child marriage.*
- *To settle dispute of by means of Gram Panchayat*

Impressed by his works even the Britishers have nominated him the first Numberdar of Pillanji Village.

3.2.3 The request was also received from Smt. Meenakshi Lekhi, Hon'ble Member of Parliament, Lok Sabha regarding proposal to name the main street of village Pillanji as Sh. JagdevNamberdar.

4. Details of previous Council Resolutions, exiting Law of Parliament and Assembly on the subject:

4.1 Statutory Provisions under the NDMC Act, 1994

4.1.1 Section 11 of the New Delhi Municipal Council (NDMC) Act, 1994 provides for 'Obligatory functions of the Council'. Clause (q) of section 11 provides that:

"11. Subject to the provisions of this Act and any other law for the time being in force, it shall be incumbent on the Council to make adequate provisions by any means or measures which it may lawfully use or take, for each of the following matters, namely-

...

(q) the naming and numbering of streets and premises;

..."

4.1.2 NDMC Act, 1994 has provisions regarding 'Naming and numbering of streets and numbering of buildings'. Clause (a) of sub-section (1) of section 231 of the Act provides the following:

"(1) The Chairperson may -

(a) with the sanction of the Council determine the name or number by which any street or public place vested in the Council shall be known;

..."

4.2 NDMC Resolution No. VIII (C-31) dated 13.10.2006

4.2.1 NDMC on 13.10.2006 passed a Resolution on 'Naming-Renaming of roads, streets, parks, installation of statues etc. in NDMC area' (copy placed as Annexure-II: See pages 51 – 53) which inter-alia provided that:

(1) Naming and numbering of public streets have to be with the sanction of the Council as per Section 231 (i) (a) of the NDMC Act. The representation for naming should be from a group of persons such as an Association, Manch etc. Any proposal for naming has to be put-up for sanction or rejection of the Council. The name has to be for an unnamed road/street. Subsequently the decision taken by the Council is to be communicated to the State Names Authority (SNA), GNCT of Delhi for their approval. The cases of rejection by the Council may be communicated directly to the concerned organization.

(2) The guidelines of the Ministry of Home Affairs, Govt. of India, vide letter No.13022/34/74/Delhi dt.27.09.1975 are to be strictly adhered to with respect to renaming of streets. Any renaming can be considered by the Council only when there are directives from the Govt. of India. The Department shall communicate to the applicants directly as per guidelines of the Govt. of India. Renaming can only be an exception. Recommendations can be given by the

Council regarding renaming. Any contrary decision of the Govt. of India shall be brought to the notice of the Council.

4.3 Guidelines issued by Ministry of Home Affairs dated 27.9.1975

4.3.1 Guidelines issued by Ministry of Home Affairs vide letter No. 13022/34/74-Delhi dated 27.9.1975 (copy placed as **Annexure III: See page 54**) which provides the following:

"...change in the names of streets / roads etc. not only create confusion for the Post Offices and the public, but also deprive the people of a sense of history. It has been decided that the names of existing streets/ roads etc. should not be changed. Only new streets / roads etc., and such old and such old streets / roads etc., as are in existence without specific names may be named after eminent personalities local, national or international to honour them.

2 The local bodies in Delhi may be advised to follow these guidelines henceforth."

4.4 Guidelines to be followed by State Names Authority, Government of NCT of Delhi

4.4.1 A State Names Authority has been constituted in Delhi by the Hon'ble Lieutenant Governor vide Order No. F. No. 13/41/84/UD/3226-3258 dated 07.05.1999 read with Order No. F. No. 13/41/84/UD/14576-14604 dated 09.09.1999. The Jurisdiction of the Authority extends to all roads, streets, parks, colonies and other geographical entities in the National Capital Territory of Delhi except those vested in MCD or NDMC.

4.4.2 Guidelines have been circulated by Department of Urban Development, Government of NCT of Delhi vide Circular No. 12/40/2003/SNA/UD/4006-34 dated 18.6.2004 (copy placed as **Annexure IV: See pages 55 – 58**) to be followed by State Names Authority, which provided the following regarding renaming of roads/ streets etc.:

"II. RENAMING OF ROADS/STREETS ETC.

(i) The names of existing streets, roads etc. should not be changed. Only new streets, roads etc., can be considered for being named after eminent personalities of the local, national or international level in order to honor them.

(ii) Names which are a part of history may not be altered."

4.4.3 The Guidelines dated 1.12.2006 (copy placed as **Annexure V: See pages 59 – 64**) to be followed by State Names Authority provides that:

"4. RENAMING OF ROADS / STREETS ETC.:

(iii) The names of existing streets, roads etc. will normally not be changed. Only new streets, roads etc., will be considered for being named after eminent personalities.

(iv) Names, which are a part of history, will not be altered.

(v) All proposal for re-naming will be referred to Ministry of Home Affairs, Govt. of India in accordance with instructions in letter dated 27.09.1975.

...

6. NDMC ROADS / STREETS

The NDMC Act, 1994 under section 11(q) states that the naming and numbering of streets and premises is an obligatory function of the council. Section 231(a) provides that "The Chairperson may with the sanction of the Council determine the name or number by which any street or public place vested in the Council shall be known". Hence all roads and streets falling in NDMC area may be named as per the rules and guidelines of NDMC, keeping in view the instructions issued by Govt. of India referred to in para 3 above. (emphasis added)

4.4.4 The State Names Authority, Government of NCT of Delhi has issued instructions vide letter No. F-12/47/2013/SNA/UD/18454-56 dated 26.09.2013 that all roads and streets falling in NDMC area may be named as per rules and guidelines of NDMC (Annexure VI: See page 65).

4.4.5 The State Names Authority, Government of NCT of Delhi has been re-constituted vide Order no. F-12(20)/SNA/UD/2015/D-38 dated 11.8.2015, a copy of which is placed at Annexure VII (See pages 66-67).

4.5 In view of the above, the Chairman, NDMC after approval of the New Delhi Municipal Council may rename any street / road under the NDMC area as per the provisions of the NDMC Act, 1994.

4.6 The Council vide its resolution item No. 08(T-01) dated 27.06.2016 decided that not many unnamed roads / streets are available in NDMC area, therefore, only request made in this regard, as recommended by the member of the Council may be brought before the Council. As the instant proposal is recommended by Shri Abdul Rasheed Ansari, Dr. Anita Arya & Sh. B.S. Bhati Members of the Council, therefore, this agenda item is placed before the Council for its consideration.

5. Financial implications of the proposed project/subject:

There are no financial implications, except the expenditure on the change of name in the road sign boards, display boards, etc.

6. Implementation schedule with timeliness for each stage including internal proceedings

The decision of the Council will be implemented immediately.

7. Comments of the Finance Department on the subject:

Not applicable.

8. Comment of the Department on comments of Finance Department:

Not applicable.

9. Legal Implications of the subject:-

Not applicable

10. Comment of the Law Department on the subject:-

There is no law point involved and as such no comments. However, department may follow the necessary guidelines issued by the Government from time-to-time.

11. Comments of the Department on the comments of Law Department

No comments

12. Certification by the department that all the Central Vigilance Commission (CVC) guidelines have been followed while processing the case.

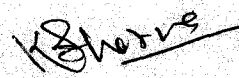
Not applicable.

13. Recommendation:

In view of above, the matter is placed before the Council to consider naming of Main Road connecting Shiv Mandir, Y- Block and YZ Block Sarojini Nagar & Vinayak Marg of Pillanji Village in the name of 'Choudhary Jagdev Namberdar Marg' under the Jurisdiction of NDMC areain terms of clause (a) of sub-section (1) of section 231 of the New Delhi Municipal Act, 1994. If approved, the decision of the Council will be conveyed to the (i) Ministry of Home Affairs, Government of India; (ii) Department of Posts and Telegraph, Government of India; and (iii) Government of NCT of Delhi.

COUNCIL'S DECISION

Deferred. The next Council meeting is scheduled at 09:30 a.m. on 06.03.2017.

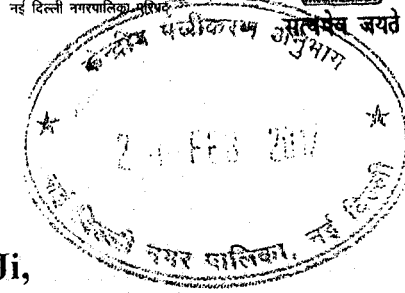

Secretary
New Delhi Municipal Council
Patika Kendra, New Delhi

डॉ. अनीता आर्या

सदस्य, न.दि.न.प.

पूर्व संसद सदस्य (लोक सभा)

नई दिल्ली



Annexure - 1

नई दिल्ली नगरपालिका परिषद

तृतीय तल, पालिका केन्द्र, नई दिल्ली-1100

फोन : 23362195, 41501353/3660

41755/2017/CR
20/2/17

No. 22 /PA/AA/Member/2017

Dated - 20/2/2017

Dear Sh. Naresh Ji,

I am also enclosing herewith an application received from Sh. Rajpal Baisoya, Pradhaan, "Pillanji Gaon Vikas Samiti", Sarojini Nagar, New Delhi and request of residents of Pillanji Village vide which they have requested to name Main Road connecting Shiv Mandir, Y - Block and Y-Z Block, Sarojini Nagar and Vinyak Marg of Pillanji Village in the name of "Choudhary Jagdev Namberdar Marg/Street".

"Choudhary Jagdev Namberdar Ji was a renowned personality not only in Pillanji Village but also in nearby area. They have really worked for promotion of education when 95% of people were un-educated. Some of the other works carried out by Jagdev Ji are as follows: -

- To educate people to work against social evils.
- To stop the excess expenditure during marriage and banning of Child marriage.
- To settle dispute of by means of Gram Panchayat.

Impressed by his works even the Britishers have nominated him the first Numberdar of Pillanji Village (documents enclosed).

I shall be grateful to you, if you kindly place my proposal to name Main Road connecting Shiv Mandir, Y - Block and Y-Z Block, Sarojini Nagar and Vinyak Marg of Pillanji Village in the name of "Choudhary Jagdev Namberdar Marg/Street" in the upcoming Council to be held in the February, 2017 as to pay respect to sentiments of people, the need to recognize and honour great men and women of our times.

With warm regards,

Yours faithfully

Tejendra Singh

Sh. Naresh Kumar
Chairman
N.D.M.C
Palika Kendra

Chairman
Secy.
Dir (GA)

20/2
27/2/17

4141c
(Anita Arya)

श्री. एस. भाटी,

सदस्य, नई दिल्ली नगरपालिका परिषद्
अध्यक्ष, भारतीय मजदूर संघ, दिल्ली प्रदेश



नई दिल्ली नगरपालिका परिषद्

तृतीय तल, पालिका केन्द्र

नई दिल्ली - 110001

फोन: 23362576, 41501353/2201

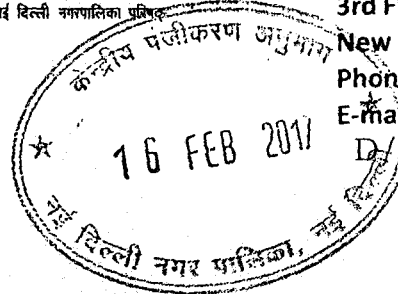
3rd Floor, Palika Kendra

New Delhi-110001

Phone: 23362576, 41501353/2201

E-mail: bhatibs58@gmail.com

D/39/BSB/PS/15/02/17



16/2/17

Dear Sh. Naresh Ji,

I am also enclosing herewith an application received from Sh. Rajpal Baisoya, Pradhaan, "**Pillanji Gaon Vikas Samiti**", Sarojini Nagar, New Delhi and request of residents of Pillanji Village vide which they have requested to name **Main Road connecting Shiv Mandir, Y - Block and Y-Z Block, Sarojini Nagar and Vinyak Marg of Pillanji Village in the name of "Choudhary Jagdev Namberdar"**.

"Choudhary Jagdev Namberdar Ji was a renowned personality not only in Pillanji Village but also in nearby area. They have really worked for promotion of education when 95% of people were un-educated. Some of the other works carried out by Jagdev Ji are as follows: -

- To educate people to work against social evils.
- To stop the excess expenditure during marriage and banning of Child marriage.
- To settle dispute of by means of Gram Panchayat.

Impressed by his works even the Britishers have nominated him the first Numberdar of Pillanji Village (documents enclosed).

I shall be grateful to you, if you kindly place my proposal to name Main Road connecting Shiv Mandir, Y - Block and Y-Z Block, Sarojini Nagar and Vinyak Marg of Pillanji Village in the name of "Choudhary Jagdev Namberdar" in the **upcoming Council to be held in the February, 2017** as to pay respect to sentiments of people, the need to recognize and honour great men and women of our times.

With warm regards,

Pl. speak

Yours faithfully

Chairman
Secy

17/2/17

(B.S. Bhati)

Sh. Naresh Kumar
Chairman
N.D.M.C
Palika Kendra

CDU (GA)

27/2/17

अब्दुल रशीद अंसारी

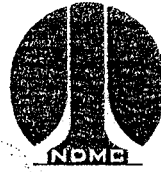
सदस्य, न. दि. न. पा.

عبدالرشید انصاری

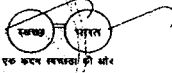
ممبر: این ڈی ایم سی

ABDUL RASHEED ANSARI

Member N.D.M.C.



नई दिल्ली नगरपालिका परिषद्



एक कदम स्वच्छता की ओर

Annexure - I
नई दिल्ली नगरपालिका परिषद्

NEW DELHI MUNICIPAL COUNCIL

कमरा नं. 3009, तृतीय तल, पालिका केन्द्र, नई दिल्ली - 11000

Room No. 3009, 3rd Floor, Palika Kendra, New Delhi - 11000

Ph.: (Off.) 011-23361937, 41501353 / 2511

No. D-16 /PA/MEMBER/2017

Date: 21-02-2017

Dear Sh Naresh Kumar Ji,

51962/2017/0
21/2

I am sending herewith a representation from the Pradhan of Pillanji village Vikas Samiti (Regd.), Sarojini Nagar, New Delhi and another one from Sh Baboo Lal, Numberdar, Pillanji Village for naming First Lane Shiv Mandir, Y Block and YZ Block Pillanji, Sarojini Nagar as Jagde Numberdar Marg.

Kindly get the same examined for further action.

With regards,

H. Speal

Yours sincerely

Abdul Rasheed Ansari

(ABDUL RASHEED ANSARI)

Encl: as above

✓ Sh Naresh Kumar, I.A.S.

Chairman

NDMC, Palika Kendra

NEW DELHI.

Chairman
Secy

H.
2/2

We may move
an agenda for
Council approval.

H.
2/2

Dir (GA)

Resolution No. 8 (C-31) dated 13.10.2006

1. NAME OF THE SUBJECT Naming-Renaming of roads, streets, parks, installation of statues etc. in NDMC area.

9. NAME OF THE DEPARTMENT : General Administration Department

10. BRIEF HISTORY OF THE SUBJECT:

The NDMC receives representations for naming/renaming of roads/street, parks, inter-sections, installation of statues etc. These representations are forwarded to the Civil Engineering Department, Horticulture department for identification of any unnamed road, park etc. Apart from this, the issue of renaming of existing roads also arises based on these representations. Normally since there are hardly any unnamed roads in the NDMC area, replies are sent accordingly

The following provisions of the NDMC Act 1994 are relevant with regard to definition, vesting and naming of streets:-

11. The definition of Private street, Public Street and streets are given in Section 2 (36), 2(39) and 2 (51) of the Act
- II) Naming and numbering of streets and premises is an obligatory function of NDMC as per Section 11(q) of the NDMC Act, 1994.
- III) Section 202 of NDMC Act 1994 vests all public streets in the Council. The provisions read as follows:-

“All streets within New Delhi which are or at any time become public streets and the pavements, stones and other materials thereof shall vest in the Council.

Provided that no public street which immediately before the commencement of this Act vested in the Union shall, unless the Central Government with the consent of the Council so directs, vest in the Council by virtue of this sub-section.

(2) All public streets vesting in the Council shall be under the control of the Chairperson and shall be maintained, controlled and regulated by him in accordance with the bye-laws made in this behalf.”

12. Section 231 (i) (a) provide for naming and numbering of streets as follows:

“The Chairperson may with the sanction of the Council determine the name or number by which any street or public place vested in the Council shall be known”.

v) Section 388 D(6) provides for framing of bye-laws relating to street in connection with construction, repair, maintenance, naming, numbering and lighting of street for which provisions is necessary or should be made.”

vi) The Ministry of Urban Development has issued guidelines for installation of statues/ memorial. These guidelines prescribe that all cases are placed before the Central Cabinet for required permission and that Ministry of Works, Housing and Supply (now known as Ministry of Urban Development (MOUD) will deal with this matter. The other terms and conditions include that cost of work, fabrication, transportation etc. is borne by the organization and clearance from DUAC and CPWD is also taken. The proposals are to be initiated by an organization. Apart from this, State Names Authority (SNA) chaired by the Chief Minister Delhi has also outlined that any kind of statue should first be approved, in principle, by it.

vii) State Names Authority (SNA) of the Govt. of NCT of Delhi has also issued certain guidelines for naming/renaming of roads, streets etc. vide their minutes dated 8.1.86, 20.6.2001 and 17.6.2004.

These guidelines pertain to naming/renaming of streets, statues and that such requests should from a group of persons such as Association, Manch, Sangh etc. and not from a single person.

viii) The issue of re-naming is governed by the guidelines issued by the Ministry of Home Affairs vide letter no. 13022/34/74/Delhi dated 27.9.1975. These guidelines of the Government of India specify that the names of existing streets/roads etc. should not be changed. Only new streets/roads etc., and such old streets/roads etc. as are in existence without specific names may be named after eminent personalities local, national or international to honour them. The Local Bodies in Delhi including NDMC have been advised to follow these guidelines. This decision is in view of the fact that changes in the names of streets/roads etc. not only create confusion for the Post Offices and public but also deprive the people of a sense of history.

x) Since 1994 the Council has considered 49 Resolutions pertaining to naming/renaming of roads, parks, installation of statues etc. There are exceptions in respect of renaming e.g. renaming of Aurangzeb Road as Dara Shikoh Marg, South End Road as Piloo Mody Road, Canning Road as Madhav Rao Scindia Marg, Willingdon Crescent as Mother Teresa Crescent etc. However, the Council also accepted the renaming of Connaught Circus as Indira Chowk and Connaught Place as Rajiv Chowk as per direction of the Govt. of India

13. DETAILED PROPOSAL ON THE SUBJECT:

The guidelines regarding naming/renaming of streets, statutes etc. are as mentioned below and are placed for information:-

14. Naming and numbering of public streets have to be with the sanction of the Council as per Section 231 (i) (a) of the NDMC Act. The representation for naming should be from a group of persons such as an Association, Manch etc. Any proposal for naming has to be put for sanction or rejection of the Council. The name has to be for an unnamed road/street. Subsequently the decision taken by the Council is to be communicated to the State Names Authority (SNA), GNCT of Delhi for their approval. The cases of rejection by the Council may be communicated directly to the concerned organization.

2) The guidelines of the Ministry of Home Affairs, Govt. of India vide letter no. 13022/34/74/Delhi dated 27.9.1975 are to be strictly adhered to with respect to renaming of streets. Any renaming can be considered by the Council only when there are directives from the Government of India. The department shall communicate to the applicants directly as per guidelines of the Govt. of India.

3) With regard to installation of statues, the guidelines of the Government of India are to be adhered to strictly and all proposals are to be forwarded to the State Naming Authority and Government of India for requisite permissions.

4) Byelaws for naming of streets shall be framed taking into consideration the guidelines of the State Names Authority and Government of India. With regard to action taken in the past, the matter shall be referred to Ministry of Home Affairs for approval.

5) Any other guidelines as decided by the Council.

15. FINANCIAL IMPLICATION:

There are no financial implications.

16. IMPLEMENTATION SCHEDULE WITH TIMELINESS FOR EACH STAGE INCLUDING INTERNAL PROCESSING:

Not applicable.

17. COMMENTS OF THE FINANCE DEPARTMENT :

"The draft agendum has been seen in Finance Department and seems to be in order. Some minor corrections have been done on the body of agendum itself that may kindly be taken care of. Moreover, the department may also fill up suitably serial no. 7, 8, 11 & 12 of the draft agendum before placing it for consideration of the Council."

18. COMMENTS OF THE DEPARTMENT ON THE COMMENTS OF THE FINANCE DEPARTMENT:

The necessary corrections as mentioned by the Finance in the draft agendum have been made.

9. LEGAL IMPLICATIONS OF THE SUBJECT:

The proposal aims at adopting a uniform guideline.

10. DETAILS OF PREVIOUS COUNCIL RESOLUTIONS, EXISTING LAW OF PARLIAMENT & ASSEMBLY ON THE SUBJECT:

These details are presented in the brief history on the subject as at para 3.

11. COMMENTS OF THE LAW DEPARTMENT:

"The agenda has been as per provisions of the NDMC Act and the guidelines/directions from MHA/Delhi Administration may be placed before the Council for information." The Law Department further observed"i) preamble refers to provision of Section 388(1)D(6) of the NDMC Act which provides for framing of Byelaws for naming and numbering of streets. These Byelaws have not been framed. When NDMC frames Byelaws, views of public are available. The Byelaws gets approval of GNCT of Delhi and when placed before Parliament, it has approval of Parliament. It is therefore suggested that guidelines of State Names Authority and M/o Home Affairs be included in the Byelaws. ii) As regards, action taken in past, the matter be referred to M/o. Home Affairs (MHA) for approval."

12. COMMENTS OF THE DEPARTMENT ON THE COMMENTS OF THE LAW DEPARTMENT:

The views of Law Department are accepted.

19. RECOMMENDATIONS:

Recommended for considering the proposals as at Para 4 (1) to (5).

The Chairperson has seen the case.

The matter is laid before the Council for consideration.

20. DRAFT RESOLUTION:

Resolved by the Council that the proposals as at Para 4 (1) to (5) are approved. Resolved further that action on the item may be taken pending confirmation of the minutes of the meeting.

COUNCIL'S DECISION

Approved.

Resolved by Council that the proposal at Para 4 (1) to (5) are approved with following additions in Para 4(2)..." Renaming can only be an exception. Recommendations can be given by the Council regarding renaming. Any contrary decision of the Government of India shall be brought to the notice of the Council.

54

The Government of India, Ministry of Home Affairs, has issued certain instructions/guidelines regarding naming of streets/roads etc., vide their letter No. 13022/34/74-Delhi dated 17th Sept., 1975 to the local bodies in Delhi.

The copy of the aforesaid letter is reproduced below:-

No. 13022/34/74-Delhi
GOVERNMENT OF INDIA,
(BHARAT SARKAR)
MINISTRY OF HOME AFFAIRS
NEW DELHI - 110 001

Dated, the 27th Sept., 1975

The Chief Secretary,
Delhi Administration,
Delhi.

Sub: Guide-lines for renaming of Streets/roads etc.

Sir, The question of renaming of streets/roads etc., has been under the consideration of this Ministry for some time the changes in the names of streets/roads etc. not only create confusion for the Post Offices and the public, but also deprive the people of a sense of history. It has been decided that the ~~same~~ existing streets/roads etc. should not be changed. Only new streets/roads etc., and such old streets/roads etc., as are in existence without specific names may be named after eminent personalities local, national or international to honour them.

The local bodies in Delhi may be advised to follow these guide-lines henceforth.

Yours faithfully,

sd/-
(R.D. Kapoor)
Deputy Secretary to the
Govt. of India

CIRCULAR

I am directed to forward herewith the guidelines to be followed by State Name Authority for marking numbering of roads, streets, villages, towns etc. and installation of Statues/Memorials.

Encl. As above.

S. Y. YADAV
DEPUTY SECRETARY (UD)

NO.F.12/402003/EN/UD/402-34

Dated: 17/05/2004

1. Hon'ble Chief Minister, Govt. of NCT of Delhi.
2. The Chief Secretary, Govt. of NCT of Delhi, Delhi Sectt. New Delhi.
3. Dr. S.C. Vats, MLA, 404, Sainik Vihar, Delhi - 34.
4. Sh. Ashok Singh, MLA, B-5/183, Safdar Jung Enclave, New Delhi.
5. Sh. Parlad Singh, Sewhne, MLA, 6-C, 7 Rajpur Road, Ashok Apartments, Delhi.
6. Smt. Kiran Walia, MLA, R-120, Greater Kailash-I, New Delhi.
7. The Secretary (Home), Government of India, North Block, New Delhi.
8. The Secretary, Ministry of Human Resources, Deptt. of Culture, Government of India, Shastri Bhawan, New Delhi.
9. The Secretary, Ministry of Urban Development, Government of India, Nirman Bhawan, New Delhi.
10. The Vice-Chairman, DDA, Vikas Sadan, INA, New Delhi.
11. The Principal Secretary, Urban Development Department, Govt. of NCT of Delhi, Delhi Sectt. New Delhi.
12. The Pr. Secretary (Home), Govt. of NCT of Delhi, Delhi Sectt. New Delhi.
13. The Commissioner of Police, Delhi, MSO Building, New Delhi.
14. The Pr. Secretary (PWD), Govt. of NCT of Delhi, Delhi Sectt. New Delhi.
15. The Pr. Secretary (Education), Govt. of NCT of Delhi, Old Sectt. Delhi.
16. The Commissioner, MCD, Town Hall, Delhi.
17. The Chairman, NDMC, Palika Kendra, New Delhi.
18. The Development Commissioner-cum-Revenue Secretary, GNCTD, 5/9 Under Hill Road, Delhi.
19. The Director General, Air Survey of India, West Block No. 4, Wing No. 4, R.K. Puram, New Delhi.
20. The Director General of Archives, Government of India, West Block No. 4, Wing No. 4, R.K. Puram, New Delhi.
21. The Chairman, Delhi Tourism and Transportation Development Corporation Ltd, 9 Nayaya Marg, Charakya Puri, New Delhi.
22. The Director Archives, Govt. of NCT of Delhi, Plot No. 198, Satsang Vihar Marg, Special Institutional Area, near JNU Campus, New Delhi.
23. The Director (Postal Services), Delhi, Meghdoot Bhawan, Jhandewalan, New Delhi.
24. The General Manager, (Admin.), Mahanagar Telephone Nigam Limited, Khurshid Lal Bhawan, New Delhi.
25. The Chief Executive Officer, Delhi Cantt. Board, Delhi Cantt. Delhi.
26. The Dean of Colleges, University of Delhi, Delhi.
27. The Chief Engineer, PWD, Zone - I, MSO Building, New Delhi.
28. Shri Yashraj Singh (Expert), D-17, Mahadevi Enclave, Delhi.
29. Special Secretary, Urban Development Department, GNCTD, Delhi Sectt. New Delhi.

S. Y. YADAV
DEPUTY SECRETARY (UD)

GUIDELINES TO BE FOLLOWED BY STATE NAMES AUTHORITY FOR NAMING/RENAMING OF ROADS, STREETS, VILLAGES, TOWNS ETC. AND INSTALLATION OF STATUE/MEMORIALS

From time to time instructions have been issued by Govt. of India regarding naming/renaming of roads, streets, villages etc. and installation of statue/memorials.

The State Names Authority in its earlier meetings has adopted certain principles for naming/renaming of roads, streets, etc. For the sake of convenience, all these guidelines have been compiled and reproduced below to be followed by all concerned.

I. NAMING OF ROADS, STREETS, ETC.

1. Request for naming a park, street, road, colony etc. should come from a group of persons such as Association, Manch, Sangh, Group etc. and not from any single person. After preliminary scrutiny the request will be sent to the concerned Land Owning Agency and the Dy. Commissioner (Revenue) for comments. The DC shall form his views after assessing public opinion in the area and taking a view on the applications being of representative merit. After receiving their comments the proposal will be examined by the Sub-Committee of SNA. Only the proposals recommended by the Sub-Committee will be placed before SNA for consideration.
2. If any road, park, street, building etc. has already been named once after a particular dignitary, then a fresh proposal for renaming any other place after the same dignitary should not be sent to the State Names Authority.

Every proposal should be accompanied by a brief write up about the accomplishments of the individual whose name is proposed.

4. The service rendered by a particular dignitary to the Nation, and particularly Delhi should be the guiding principle.
5. Names of living persons are usually not suggested.
6. While adopting the names of the foreigners (of international standing) the proposed name should be precise and correctly spell.

II. RENAMING OF ROADS/STREETS ETC.

1. The names of existing streets, roads etc. should not be changed. Only new streets, roads etc., can be considered for being named after eminent personalities of the local, national or international level in order to honour them.
2. Names which are a part of history may not be altered.

III. CHANGE IN THE NAMES OF VILLAGES, TOWNS, ETC.

Changes in the names of Villages, Towns etc. should be discouraged as far as possible, that no change should be agreed to unless there were compelling reasons to justify it, and that all proposals should be referred to the Ministry of Home Affairs before any change is made.

State Govt. have been advised to follow a uniform procedure in the matter of changing the names of places and to keep the following broad principles in mind while making proposals for changes in the names of villages, towns etc. to the Government of India:-

- a) If there is some very special reason, it is not desirable to change a name which people have got used to.
- b) Names of villages etc. having a historical connection should not be changed as far as possible.
- c) Change should not be made merely on grounds of local patriotism or for linguistic reasons, e.g. villages etc. should not be renamed after national leaders merely to show respect to them or for satisfying local sentiment in the matter of language etc.
- d) In selecting new names, care should be taken to see that there is no Village or Towns etc. of the same name in the State and Neighbourhood.
- e) While recommending any change, the State Governments should furnish detailed reasons for proposing a change in the name and also for selecting the new name.
3. Where an ancient place has fallen into decay and with that the old place name has also disappeared the ancient name should be restored.

IV. INSTALLATION OF THE STATUE MEMORIALS

1. The Government normally does not install statues. If at all this is done, there should be an organization to initiate such proposals and ready to bear the cost of installation of statues etc. as a whole. Such organizations are also required to fulfil the following terms and conditions, before the request is considered by the Government:

- (i) Cost of the work relating to the statue, including cost of fabrication, transportation and installation should be borne by the organization.
- (ii) The organization should obtain clearance of the Delhi Urban Art Commission and Chief Architect, Central PWD regarding the size of the statue, material used and design of the pedestal for the statue landscaping of the area.
- (iii) It will be the responsibility of the organization to have proper landscaping of the area in consultation with the local authorities i.e. NDMC/MCD.
- (iv) The organization shall take up and settle with the local bodies concerned the question of the maintenance of the statue after the installation of the statue and its landscaping.
- (v) The organization will have no claim on land on which it is permitted to install the statue and the ownership of the land will continue to vest in the Government.
- (vi) The statue shall be installed in accordance with the site plan to be obtained by the organization from the Chief Architect, CPWD.

regards the location/site for the statues, normally the Delhi Urban Art Commission and the Chief Architect, CPWD are not in favour of allowing a traffic roundabout in the city for installation of statues.

2. Every proposal for erecting any kind of statue in Delhi (except Lutyen's Delhi) should first be approved in principle by the State Names Authority. Proposal for installation of statues in Lutyen's Delhi will require the approval of Union Cabinet.

3. After getting approval of State Names Authority, the proposal should be approved by MCD/NDMC/DDA/Cantonment Board as the case may be and also by the Delhi Urban Art Commission.

INSTALLATION OF SECOND STATUE:

Normally sanction for installation of second statue may not be considered. However, if the first statue installed is not readily accessible to the general public, a proposal for installation of a second statue may be considered on a case-to-case basis.

1. THE STATE NAMES AUTHORITY FOR NAMING, RE-NAMING OF ROADS, STREETS, VILLAGES, TOWNS, ETC. AND INSTALLATION OF STATUE/MEMORIALS TO BE FOLLOWED BY STATE NAMES AUTHORITY, DELHI

1. A State Names Authority has been constituted by the Hon'ble LG vide Order No. F.No.13/41/84/UD/3226-3258, dated 07.05.1999 (page 52/c) read with order No. F.No.13/41/84/UD/14576-14604, dated 01.09.1999 (page 53/c) to decide on naming/renaming of roads, streets, villages etc. and installation of statues/memorials. The State Names Authority has the following terms of reference:

- a) Research and investigation into the names of geographical entities falling wholly within the boundaries of the State or the Union of Territory and standardization of their names and spelling in the State language.
- b) Giving names to new villages/townships/& other geographical entities.
- c) Scrutiny of proposals for alteration of existing names and processing them in accordance with Govt. of India letter No.130/53-public dt.11.9.53. Such proposals for change of names will only be referred to Ministry of Home Affairs.
- d) Publishing a list of standardized geographical names and ensuring their use by the Govt. agencies and public concerned.
- e) Acting as a clearing House for information pertaining to geographical names.
- f) Transliterating geographical names falling outside the State or Union Territory into the State language according to the system of transliteration approved by the Central Govt.
- g) Co-ordination and co-operation with the adjoining States in standardization of names.

2. The Jurisdiction of the Authority extends to all roads, streets, parks, colonies and other geographical entities in the National Capital Territory of Delhi except those vested in MCD or NDMC.

3. NAMING OF ROADS, STREETS ETC.:

- i) Request for naming a park, street, road, colony etc. should come from a group of persons such as Association, Manch,

etc. should normally be registered under the Societies Registration Act. RWAs under Bhagidari Cell can also send proposals.

- ii) After preliminary scrutiny, the proposals will be sent to the concerned Deputy Commissioners of the Revenue districts as well as the Land Owning Agencies, who will give their views within 30 days. Thereafter proposals will be scrutinized by a sub-committee of SNA chaired by Principal Secretary (Urban Development).
- iii) Only proposals recommended by the sub-committee will be placed before the State Names Authority. Every proposal should be accompanied by a brief write up about the accomplishments of the individual whose name is proposed.
- iv) If any road, park, street, building etc. has already been named after a particular dignitary, then a fresh proposal for naming any other place after the same dignitary will normally not be entertained.
- v) The service rendered by the nominee to the nation and particularly to Delhi will be the major guiding principle for taking a decision.
- vi) A road, street, park etc. should be named as far as possible in the area where the particular dignitary resided.
- vii) Names of living persons will not be entertained.
- viii) While considering names of foreigners (of International standing) the views of Ministry of External Affairs should be obtained.

4. RENAMING OF ROADS/STREETS ETC. :

- i) The names of existing streets, roads etc. will normally not be changed. Only new streets, roads etc. will be considered for being named after eminent personalities.
- ii) Names, which are a part of history, will not be altered.
- iii) All proposals for re-naming will be referred to Ministry of Home Affairs, Govt. of India in accordance with instructions in letter-dated 27.09.1975 (Annex-I).

5. MCD ROADS/STREETS

The DMC Act, 1957 under Section 42 (q) states that the Naming and Numbering of streets and premises is an obligatory function of the Corporation. Section 327 (a) provides that "the Commissioner may with sanction of the Corporation determine the name or number by which any street or public place vested in the Corporation shall be known". Hence all MCD roads/streets and parks may be named by MCD as per the rules and guidelines of the Corporation, keeping in view the instructions issued by Govt. of India from time to time. (Annex-I-IV)

6. NDMC Roads/Streets

The NDMC Act, 1994 under section 11 (q) states that the naming and numbering of streets and premises is an obligatory function of the council. Section 231 (a) provides that "The Chairperson may with the sanction of the Council determine the name or number by which any street or public place vested in the council shall be known". Hence all roads and streets falling in NDMC area may be named as per the rules and guidelines of NDMC, keeping in view the instructions issued by Govt. of India referred to in para 3 above.

7. CHANGES IN THE NAMES OF VILLAGES, TOWNS ETC. :

- i) Changes in the names of villages, towns etc. should be discouraged as far as possible. No change should be agreed to unless there are compelling reasons to justify it and all proposals should be referred to the Ministry of Home Affairs before any change is made. The guidelines framed by Ministry of Home Affairs vide letter no. 130/53-Public dt. 11/09/1953, letter no. 11/7/2004-M&G dt. 11/04/2005 and letter no. 39/11/60-Pub.1 dt. 28/12/1960 (copies at Annex-II-IV) may be kept in view while making recommendations for change in names of Villages, Towns etc.
- ii) Unless there is some very special reason, it is not desirable to change a name which people have got used to.

show respect to them or for sentimental reasons in the matter of language etc. An exception can, however, be made in the case of Martyrs where the name can be suitably added to the name of a place sought to be changed, if a request is made by the State government to that effect and there is general recognition of the role of the Martyr in national life.

- v) In selecting new names, care should be taken to see that there is no village or town etc. of the same name in the State and Neighborhood.
- vi) While recommending any change, the State Governments should furnish detailed reasons for proposing a change in the name and also for selecting the new name.
- ii) Where an ancient place has fallen into decay and with that the old name has also disappeared the ancient name should be restored.

8. INSTALLATION OF STATUES/MEMORIALS :

The Government normally does not install statues. If at all this is done, there should be an organization to initiate such proposals and ready to bear the cost of installation of statues etc. Such organizations are also required to fulfill the following terms and conditions, before the request is considered by the State Names Authority:-

- The Authority shall also consult the Chief Architect, Central Urban Authority, NDMC and CPWD regarding the size of the statue, material used and design of the Pedestal.
- i) It will be the responsibility of the organization to have proper landscaping of the area in consultation with the local authorities i.e. NDMC/MCD.
 - ii) The sponsoring organization shall bear the cost of maintenance of the statue and its surroundings.
 - iii) The organization will have no claim on land on which it is permitted to install the statue and the ownership of the land will continue to vest in the land owning agency.
 - iv) The statue shall be installed in accordance with the site plan to be obtained by the organization from the Chief Architect, CPWD.
 - v) As regards, the site for the statues, traffic roundabouts shall normally not be considered.
 - vi) Normally sanction for installation of second statue will not be considered. However, if the first statue installed is not easily accessible or prominently visible to the general public, a proposal for installation of a second statue may be considered.
 - vii) Every proposal for erecting any kind of statue in Delhi should be accompanied by an NOC from the land owning agency before being considered by the State Names Authority. Final approval in all such cases will be accorded by the Union Ministry of Urban Development.

The Authority may invite any historian, academician or eminent citizen to participate in its discussion.

+++++

01.12.2006

GOVT. OF NCT OF DELHI
DEPARTMENT OF URBAN DEVELOPMENT
CHIEF EXECUTIVE WING, DELHI SECRETARIAT
1.P. ESTATE, NEW DELHI

No. F.12/47/2013/S.N.A. /D/ 18454 - 86

Date:- 26/09/13

To,
The Chairperson
NDMC
Palika Kendras, New Delhi

Sub:- Naming of Road/Street as CH. DILSUKH MARG.

Sir,

Reference our letter no. F.12/47/2013/SNA/17974-76, dated-17/09/2013 on the subject cited above. In this regard your kind attention is brought to the excerpts of NDMC Act which reads "The NDMC Act, 1994 under section 11 (q) states that the naming and numbering of streets and premises is an obligatory function of the council. Section 231 (a) provides that 'The Chairperson may with the sanction of the Council determine the name or number by which any street or public place vested in the council shall be known.' Hence all roads and streets falling in NDMC area may be named as per the rules and guidelines of NDMC, keeping in view the instruction issued by Govt. of India referred to in para 3 above."

You are hereby requested to take action at your end and intimate the undersigned.

RECEIVED
BY NO. 3684
DATE 26/9/13

2039/21/CA

27/9/13 Copy to :-

1. Pillanji Gram Sudhar Sewak Samiti, P-202, Old Pillanji, Sarojini Nagar, New Delhi-110023
2. Chief Minister Office, Govt. of NCT of Delhi, Delhi Secretariat, w.r.t. letter no. CM-PG/VIP 2013/4941. Dated-09/09/2013.

Chairperson
Siv (GA)

27/9

Yours faithfully,
26.9.13
Dy. Secretary (SNA)

Yours faithfully,
26.9.13
Dy. Secretary (SNA)

GOVERNMENT OF NATIONAL CAPITAL TERRITORY OF DELHI
DEPARTMENT OF URBAN DEVELOPMENT
9th LEVEL, C-WING, DELHI SECT. I.
I.P. ESTATE, NEW DELHI-110 001.

F.NO.: F-12(20)/SNA/UD/2015/D- 38

Dated:- 11/8/2015

ORDER

The Competent Authority of Delhi is pleased to re-constitute the State Names Authority as under:-

1. Deputy Chief Minister
2. Sh. Adarsh Shastri, M.L.A.
3. Sh. Saurabh Bhardwaj, M.L.A.
4. Ms. Rakhi Bidlan, M.L.A.
5. Ms. Bhawna Gaur, M.L.A.
6. Chairperson, New Delhi Municipal Council
7. Principal Secretary, Urban Development, N.C.T. of Delhi
8. Commissioner, East D.M.C.
9. Commissioner, South D.M.C.
10. Commissioner, North D.M.C.
11. Special Secretary, U D Deptt. N.C.T of Delhi


Chairman
Member
Member
Member
Member
Member
Member
Member
Member
Member Secretary

The functions of the said Committee will be as under:-

- (a) Research and investigation into the names of geographical entities falling wholly within the boundaries of the NCT of Delhi and standardization of their names and spellings in the state language.
- (b) Giving names to new villages /townships & other geographical entities.
- (c) Scrutiny of proposals for alteration of existing names and processing them in accordance with Govt. of India letter no. 130/53-Public dated 11.09.1953. Such proposals for change of names will only be referred to Ministry of Home Affairs.
- (d) Publishing a list of standardized geographic names and ensuring their use by the Govt. agencies and public concerned.
- (e) Acting as a clearing house for information pertaining to geographical names.

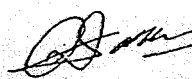
Contd2/-

- f) Transliterating geographical names falling outside the State or Union Territory into the State language according to the system of transliteration approved by Central Govt.
- (g) Co-ordination and co-operation with the adjoining States in Standardization of names.


Deputy Secretary (U
Govt. of N.C.T of D

Copy forwarded to:-

1. Principal Secretary to Hon'ble CM.
2. Secretary to Hon'ble Dy. CM.
3. All Concerned.
4. Programmer, Urban Development Deptt
- for uploading on the Official Website.


Deputy Secretary
Govt. of N.C.T of

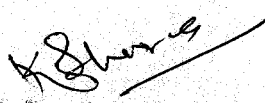
ITEM NO. 09 (E-20)

1. **Subject:** - Transfer of ownership of one unit of Mobile Dispensary consisting of two vehicle Reg. No.DL1LW 5566 and DL1LW 5564.
2. **Name of the department:** - Medical Department.
3. **Brief History of the Subject:** - From the MP LAD fund of MP Smt. Meenakshi Lekhi, 4 vehicles were procured for NDMC. Two units of 2 vehicles each were fabricated through e-tender by M/s Instromedix India Pvt. Ltd. One vehicle contain X-ray machine, CR System, ECG Machine and Portable Compact Mobile Lab (Accuster). Second vehicles for patient's examination.
4. **Detailed Proposal on the Subject/Project:** - On the proposal of Hon'ble Member of Parliament, Smt. Meenakshi Lekhi vide D.O. letter no. ML/Misc./2016/000491 dated 31.08.2016 wherein Hon'ble MP proposed to give one unit of mobile dispensary consisting of two vehicles Regd. No. DL1LW 5566 and DL1LW 5564 to Delhi Cantonment Board for operation for the medical facilities at the doorsteps of the people of Delhi Cantt and adjoining area. The proposal was accepted by the CEO, Delhi Cantonment Board vide letter no. 28659/2016/CP dated 05.09.2016. Accordingly approval was accorded by the Competent Authority for handing over the two vehicles to Delhi Cantonment Board under intimation to the Hon'ble MP on 05.09.2016. Now the CEO Delhi Cantonment Board has requested to transfer the ownership of vehicle no. No.DL1LW 5566 and DL1LW 5564 to CEO, Delhi Cantonment Board. The details of handing over of both the mobile dispensaries alongwith accessories is attached as Annexure 'A' (See pages 70-73).
5. **Comments of the department on the comments of Finance Department.**
6. **Final views of Finance Department.** Nil
7. **Legal implications of the subject** Nil
8. **Comments of the Law Department on the subject/Project.** Nil
9. **Financial Implications of the Proposed Project:** - Nil.

10. **Recommendations:** - Transfer the ownership of one unit of Mobile Dispensary consisting of two vehicles Regd. No. DL1LW 5566 and DL1LW 5564 (procured under MP LAD fund) from Secretary NDMC to CEO Delhi Cantonment Board.

COUNCIL'S DECISION

Deferred. The next Council meeting is scheduled at 09:30 a.m. on 06.03.2017.


Secretary
New Delhi Municipal Council
Patika Kendra, New Delhi

LIST OF ACCUSTER MINI LAB COMPONENTS

S.No.	Description of Items	Quantity
1	Portable compact Mobile Lab	1
2	Outer bag Mobile lab	1
3	Solar Panel 40 watt	1
4	Battery	1
5	Battery Bag	1
6	Microtips Blue	1
7	Microtips Yellow	1
8	Micro Centrifuge Tubes	1
9	Labtop (ASUS)	1
10	Power Less Thermal Cooling Unit	1
11	Scculine Analyser USB Port	1
12	Centrifuge Machine	1
13	Incubator	1
14	Cass/Mobile Carrying Platform	1
15	Cuvetts	100
16	Cuvetts Holder	4
17	Micropipets 0.5 units to 50 units	1
18	Micropipets 100 to 100 Units	1
19	Power Backup in-built	1
20	Cover Bag/ Ruck Salk bag for thermal pack	1
21	Microtip Holder	2
22	USB Port for data connect/charging cable	1

Taken Over :-

Dr. P. P. Singh

Dr. P. P. Singh
Senior Medical
Officer

Sachin Kumar

SACHIN KUMAR
M.T. Incharge

Handed Over by :- (Dr. HARINDER SINGH)

CMO (Allopathic)
Palika Health Complex
Dharam Marg
New Delhi

Dr. HARINDER SINGH
CMO (SAG) II
NDMC ALLOPATHIC DISPENS.
PALIKA HEALTH COMPLI
DHARAM MARG, CHANAKYAPURI, N.

In the presence of
① *6/9/16*

Dr. Anu Sahni
Coro (Med) CD

2) *Abhishek Choudhary*

LIST OF MOBILE UNIT DISPENSARIES/ITEMS/ARTICLES

- 1) MOBILE VANS UNIT ONE - Vehicle No DL 1LW5566 - Van with Dispensary & ECG Machine(RMS Ultraius)
Vehicle No DL 1LW5564 - Van with X-Ray Machine - Prime RMS (With CR System - Fuji consisting of Computer, Printer & Digitilizer with GPS Tracker System)
- 2) Original RC'S - Two in number
- 3) 2 Sets of Mobile Van Keys - 3 keys in each set
- 4) Two Stepney of Vechicles
- 5) Original Insurance Policies - The Oriental Insurance Co. Ltd.
(1. Policy No - 212203/31/2016/3698)
(2. Policy No - 212203/31/2016/3699)

5) **Original Receipts of Invoices of**

Mobile Van Unit Fabrication - Retail Invoice No. IIPL/GGN/022/2015-16

- a) Fabrication MMU in Temp Traveller 4020 Force
- b) Inverter 900va sukam Sr. No. 56901B21331305150227 & 135AH Battery Sukam Sr.No.
02301A53352904154588
- c) ECG Machine (RMS) with All Leads & Cables, Glucometer, Peak flow meter, Pulse oxymeter, Otoscop3.5v & Ophtalmoscope)
- d) Auto loading stretcher
- e) Patient Bed, Dr Table, Chair SS Cabinet, Head Racks, Curtain
- f) Fresh & Drinking Water Provision, Communication Window
- g) Attendant Seat, Fans 4 no's Tube light 6 no's & Dustbins 2 no
- h) Light Bar & Blinkers or PA System
- i) Air-conditioning system with Digital control panel
- j) Digital Clock, Fire Cylinder & Grab Rail with Handel
- k) Foot Step on Rear Door Entry & Grab rail
- l) Charging lead 10 mtr & Soap & Tissue Dispenser (1 set)
- m) GPS Device (MAYMY INDIA)

Mobile Van Unit - Description of Goods - Retail Invoice No. IIPL/089/2015-16

Sachin. Kumar
6/9/2016

Dr. P. Singh
DR P. P. SINGH
SR Medical
officer

Dahi
28/11/16

Dr. HARINDER SINGH
CMO (SAG)
NDMC ALLOPATHIC DISPENSARY
PALIKA HEALTH COMPLEX
DHARAM MARG, CHANAKYAPUR, N

- 6) Two Ophthalmoscope (HEINE)
- 7) Two Otoloscope (HEINE)
- 8) One Glucometer (Accu-Chek Active)
- 9) One Pulse Oxymeter (Aero)
- 10) One Peak flow Meter (Vitalograph)
- 11) One Weighing Machine - Digital (Equinox)
- 12) One BP Instrument - Digital (Vital)
- 13) One Mini Lab (Accuster)

Taken Over :-

2. *Sachin Kumar*
6/9/2016
SACHIN KUMAR, JE (E&M)
M.T. Incharge
Delhi Cantt Board

2. X-Ray Unit is without
A.E.R.N. Approval for all
other items are in place.
P. P. Singh
DR P. P. SINGH

In the presence of

1) *[Signature]*
6/9/16
Dr. Anur Sahni
Cmo (med) CPH

2) Abhishek Choudhary

[Signature] 6/9/16
Handed Over by:- (Dr. HARINDER SINGH)
CMO (Allopathic)
Palika Health Complex
Dharam Marg
New Delhi

Dr. HARINDER SINGH
CMO (SAG) I/c
NDMC ALLOPATHIC DISPENSARY
PALIKA HEALTH COMPLEX
DHARAM MARG, CHANDNIGARH, N.D.

NEW DELHI MUNICIPAL COUNCIL
HEALTH DEPARTMENT
DHARMA MARG CHANKYA PURI

S. No	Reagent	Quantity
1	Glucose reagent (Accustar)	1 kit (4x100ml)
2	Uric acid (Erba)	1kit (5x20ml)
3	Cholesterol Regent (Accustar)	1 kit (5x 20ml)
4	HDL Cholesterol Regent (Erba)	1 kit (2x50ml)
5	Triglyceride Regent (Accustar)	1kit (5x20ml)
6	Albumin Regent (Accustar)	1 kit (5x50ml)
7	Urea Regent (Erba)	1 kit (5x20ml)
8	Creatine Regent (Accustar)	1 kit (5x50ml)
9	Hemoglobin Regent (Avantar)	1Bottle (1x1000ml)
10	Bilirubin Regent (Erba)	1kit (2x60ml)-T (2x60ml)-D


HANDED OVER

DR. P. P. SINGH
GENERAL PHYSICIAN
NEW DELHI MUNICIPAL COUNCIL
DHARMA MARG CHANKYA PURI


TAKEN OVER

DR. P. P. SINGH
G.D.M.O. - CHANKYA
Delhi Cantonment
Board

Copy of Reso. No. 10(E-21)
of
Council's Ordinary Meeting
Dated 02-03-2017

ITEM NO. 10 (E-21)

1. NAME OF THE SUBJECT:-

Intimation regarding quarterly expenditure on the PPP Project of Collection & Transportation of garbage from NDMC area to the disposal site for the period July-2016 to September-2016.

2. NAME OF THE DEPARTMENT:

Public Health Department, NDMC

3. BRIEF HISTORY OF THE SUBJECT / PROJECT:

Vide Resolution No. 07(W-03) dated 30.01.2015, NDMC awarded the work of collection and transportation of garbage to M/s Metrro Waste Handling Pvt. Ltd. as the amount of payments to be made to M/s Metrro Waste Handling Pvt. Ltd in lieu of the collection the financial powers conferred to Chairman, NDMC. Accordingly, an agenda was put up before the Council vide resolution No. 14(E-13) dated 17.08.2016 to empower Chairperson, NDMC for administrative approval and expenditure sanction even if it crosses the upper limit of financial powers of Chairperson, NDMC. In that agenda, it was also resolved by the Council that " the Chairperson, NDMC may accord expenditure sanction based on the amount billed in respect of monthly bills for collection and transportation of garbage from NDMC area as per concession agreement. The actual liability incurred shall be verified as per the prescribed procedure duly concurred by Finance Department and approved by Competent Authority. Total expenditure incurred in every quarter shall be brought into the notice of the Council."

4. DETAILED PROPOSAL ON THE SUBJECT/PROJECT:

As resolved by the Council vide resolution No. 25(E-17) dated 03.11.2016 the monthly expenditure billed for the subject work has been got approved from Chairman, NDMC upto billed quantity for September, 2016. The intimation regarding quarterly expenditure for the period July-2016 to September-2016 is to be brought to the notice of the Council. The quarterly expenditure for the July-2016 to September-2016 is Rs. 6,29,97,855/- (Rupees Six Crore Twenty Nine Lac Ninety Seven Thousand Eight Hundred Fifty Five Only). The month wise details are as under:-

Month	Amount
July-2016	Rs.2,19,64,287/-
August-2016	Rs. 2,13,76,806/-
September-2016	Rs. 1,96,56,762/-
Total	Rs. 6,29,97,855/-

5. FINANCIAL IMPLICATIONS OF THE PROPOSED PROJECT / SUBJECT:

Quarterly expenditure for the period July-2016 to September-2016 is Rs.6,29,97,855/- (Rupees Six Crore Twenty Nine Lac Ninety Seven Thousand Eight Hundred Fifty Five Only).

6. IMPLEMENTATION SCHEDULE WITH TIMELINESS FOR EACH STAGE INCLUDING INTERNAL PROCEEDING:

After finance concurrence and approval of the Competent Authority, the above payments have been paid to the concessionaire.

7. FINAL COMMENTS OF THE FINANCE DEPARTMENT ON THE SUBJECT WITH DIARY NO. AND DATE:

Finance Department has already concurred the above payments.

8. LEGAL IMPLICATIONS OF THE SUBJECT/PROJECT:

No legal implications.

9. DETAILS OF PREVIOUS COUNCIL RESOLUTIONS, EXISTING LAW OF PARLIAMENT AND ASSEMBLY ON THE SUBJECT:

Council Resolution Item No. 07 (W-03) dated 30.01.2015.

Council Resolution Item No. 19 (E-04) dated 15.12.2015.

Council Resolution Item No. 10 (E-06) dated 27.06.2016.

Council Resolution Item No. 14 (E-13) dated 17.08.2016.

Council Resolution Item No. 25(E-17) dated 03.11.2016.

10. FINAL COMMENTS OF THE LAW DEPARTMENT ON THE SUBJECT/ PROJECT

Not applicable

11. CERTIFICATION BY DEPARTMENT THAT ALL CENTRAL VIGILANCE COMMISSION (CVC) GUIDELINES HAVE BEEN FOLLOWED WHILE PROCESSING THE CASE.

Yes, all CVS guidelines have been followed.

12. RECOMMENDATIONS:-

As resolved by the Council vide resolution No. 25 (E-17) dated 03.11.2016 the monthly expenditure billed for the subject work has been got approved from Chairman, NDMC upto billed quantity for September,2016. The intimation regarding quarterly expenditure for the period July-2016 to September-2016 is to be brought to the notice of the Council. The quarterly expenditure for the July-2016 to September-2016 is Rs. 6,29,97,855/- (Rupees Six Crore Twenty Nine Lac Ninety Seven Thousand Eight Hundred Fifty Five Only). The month wise details are as under:-

Month
 July-2016
 August-2016
 September-2016
 Total

Amount
 Rs.2,19,64,287/-
 Rs. 2,13,76,806/-
 Rs. 1,96,56,762/-
 Rs. 6,29,97,855/-

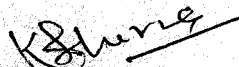
13. DRAFT RESOLUTION

Council has taken note of the Quarterly expenditure for the July-2016 to September-2016 is Rs. 6,29,97,855/- (Rupees Six Crore Twenty Nine Lac Ninety Seven Thousand Eight Hundred Fifty Five Only).

Agenda has been placed for kind information of the Council.

COUNCIL'S DECISION

Deferred. The next Council meeting is scheduled at 09:30 a.m. on 06.03.2017.


 Secretary
 New Delhi Municipal Council
 Patla Nendra, New Delhi

ITEM NO. 11 (A-58)

1. NAME OF THE SUBJECT/PROJECT:

Sub: Construction of 188 Type-II flats (10 storied) at Aliganj, New Delhi.

2. NAME OF THE DEPARTMENT/DEPARTMENTS CONCERNED:

CIVIL ENGINEERING DEPARTMENT -II, NDMC

3. BRIEF HISTORY OF THE SUBJECT/PROJECT:

There are total 130 nos. of Type-I Flats at Aliganj, (40 flats in double storey and 90 flats in triple storey). These flats were constructed in 1960 and as per CPWD Manual the life of load-bearing structures is 55 years. AS such these flats have outlived their life. The Survey Report of demolishing these 130 Type-I flats at Aliganj has already been approved by the Council with a written off amount of Rs.40,27,680/-, with reserved price of Rs.(-)6,51,415/-. Chief Architect NDMC was requested to provide the drawings for construction of new flats in the place of existing 130 Nos. Type-I flats at Aliganj. Accordingly Chief Architect NDMC has provided the drawings for construction of 188 Type-II flats, (4 towers of 10 storey buildings). The type-I flats are being upgraded to type-II flats, (4 towers of 10 storey buildings). The type-I flats are being upgraded to Type-II flats as the accommodation falls short for even group 'D' employees. On the basis of the drawings issued by Architect department, a Preliminary Estimate amounting to Rs.47,34,14,000/- was prepared.

Accordingly, case was submitted to Council for seeking Administrative approval and expenditure sanction. Council has accorded Administrative Approval and Expenditure Sanction vide Resolution No.23(A-26) dt.11.12.14 for Rs.47,34,14,000/- and vide item NO. 09(A-46) dated 11.02.2015 by council

4. DETAILED PROPOSAL ON THE SUBJECT/PROJECT:

Sealed item rate e-tender for the above noted work was invited through e-procurement system vide ID No.2016_NDMC_117342_1. Vide publicity through advertisement in leading newspapers, internet, notice board, contractor association was given. The date of opening of the technical tender was fixed on 16.11.2016 with a pre-bid meeting scheduled on 08.11.2016 at 11.30 A.M. in the Chamber of C.E. (C-II). Six agencies i.e. M/s. Modern Construction Co., M/s. Abhilasha Enterprises, M/s. N.S. Associates Pvt. Ltd., M/s. Sam India Builtwell Pvt. Ltd., M/s. Kamladitya Construction Pvt. Ltd. and M/s. BL Goel & Co. participated in the pre-bid meeting and raised some general queries which were clarified in due discussion upto the satisfaction of agency in writing. Further, it was also decided that some necessary changes/ corrections, as pointed out by the agencies, be made in the NIT and that for giving wide publicity of corrections made in the NIT on e-tendering system and also giving reply to agencies, date of opening of technical bid, which was due to be opened on 16.11.2016, was also extended to 25.11.2016.

Accordingly, technical bid was opened on due date and time i.e. on 25.11.2016 in the presence of E.E.(BM-PK), following four bidders were visible on e-procurement portal:-

- M/s. Abhilasha Enterprises
- M/s. Kamladitya Construction Pvt. Ltd.
- M/s. N.S. Associates Pvt. Ltd.
- M/s. Sam (India) Builtwell Pvt. Ltd.

Initially a technical evaluation sub-committee was held in the chamber of CE(C-II) on dated 09.12.2016 for scrutiny the documents as per the eligibility criteria of approved NIT and subsequently final meeting of technical evaluation sub-committee

was again held in the chamber of CE(C-II) on dated 23.12.2016 and it was decided to open the financial bids of above four eligible agencies i.e. M/s. Abhilasha Enterprises, M/s. Kamladitya Construction Pvt. Ltd., M/s. N.S. Associates Pvt. Ltd. & M/s. Sam (India) Builtwell Pvt. Ltd. Accordingly, Financial bid was opened on 27.12.2016.

Comparative Statement of above four agencies was prepared. The details of the quoted amount are as per comparative statement given below.

ESTIMATED COST= 46,79,11,704/-

S. No	Bidder Name	Quoted Amount	Bid Rank	% below/ above Estimated cost
1	M/s. N.S. Associates Pvt. Ltd.	Rs.40,32,67,137.00	L1	13.82 %below
2	M/s. Kamladityya Construction Private Limited	Rs.40,55,19,035.00	L2	13.33% below
3	M/s. Abhilasha Enterprises	Rs.41,17,62,302.00	L3	12.00% below
4	M/s. Sam (India) Builtwell Pvt. Ltd.	Rs.45,16,62,742.00	L4	3.47% below

From the above comparative, M/s. N.S. Associates Pvt. Ltd. quoted the lowest rates of Rs.40,32,67,137/- i.e. 13.82% below the estimated cost of Rs.46,79,11,704/-. The justification of composite work including civil, electrical and fire-fighting after due scrutiny by main planning of Civil Engineering Department, Electrical Department and Fire Department which works out to 7.79 % below the estimated cost of Rs. 46,79,11,704/-. The quoted rate by the lowest tenderer is 6.53% below the justified cost. The case was submitted to Finance Department for their scrutiny and concurrence. Finance has concurred the proposal for acceptance of the tender in respect M/s. N.S. Associates Pvt. Ltd. for quoted amount of Rs.40,32,67,137/- i.e. 13.82% below the estimated cost.

5. FINANCIAL IMPLICATIONS OF THE PROPOSED PROJECT/SUBJECT:

Financial concurred Rs. 40,32,67,137/-

6. IMPLEMENTATION SCHEDULE WITH TIMELINESS FOR EACH STAGE INCLUDING INTERNAL PROCESSING

Time of completion of the project is considered as 21 months after award of work

7. FINAL COMMENTS OF THE FINANCE DEPARTMENT ON THE SUBJECT WITH DIARY NO. & DATE.

Finance Department vide their diary No. 337/Finance/R-Civil dt. 17.02.2017, concurred the proposal as under:-

1. The case pertains to acceptance of the offer of L-1, M/s N.S. Associates at tendered amount of Rs 40,32,67,137/-.
2. AA & ES was accorded for Rs 47,34,14,000/- by Council vide item No. 09 (A-46) dated 11.02.2015 (NP-36).
3. Technical sanction for Rs 40,82,22,000/- and NIT for Rs 46,79,11,704/- were approved by Chief Engineer at NP-44 and 72 respectively.
4. The tenders were invited giving due publicity and supporting documents are placed in the file at P. 1-7/C of Tender Correspondence file and 62-108/C of work file.
5. Pre bid meeting was held on 8.11.2016 and corrigendum published on 12.11.2016 (P.29-37/C). Minutes in r/o pre-bid meeting are placed at NP-74-80.

The date of opening of bids, initially fixed for 16.11.2016 was extended up to 25.11.2016 (NP-88)

6. Tenders were opened on the due date i.e. 25.11.2016. This is the first call of tender.
7. Validity of the tender is for 120 days i.e. up to 24.03.2017 and completion period of work is 21 (twenty one) months.
8. Four firms submitted their offers.
9. Technical Sub Committee evaluated the offers. All the firms were found eligible for opening of financial bids vide minutes placed at NP-88/89 and 91/92.
10. It has been certified that the performance certificates furnished by various bidders are as per definition of 'similar work' and L-1 fulfills eligibility criteria.
11. Financial comparative statement is prepared and placed at P. 14-61/C of work file. The following position is brought out at NP-93 :

Inter se position	Name of the agency	Tendered amount (Rs)	% quoted w.r.t. estimated cost
L-1	M/s N.S. Associates (P) Ltd.	40,32,67,137.20	13.82% below
L-2	M/s Kamaladitya Constn. (P)	40,55,19,035.00	13.33% below
L-3	Ltd.	41,17,62,302.30	12% below
L-4	M/s Abhilasha Enterprises M/s Sam (India) Builtwell (P) Ltd.	45,16,62,741.80	3.47% below

12. Planning has examined the proposal at NP-101 on the basis of justification checked at 7.79% below estimated cost of Rs 46,79,11,704/-. The tendered cost of Rs 40,32,67,137/- works out to 13.82% below estimated cost and 6.53% below justified cost.
13. It has been certified that justification has been prepared on the basis of lowest prevailing market rates and in consonance with Section 20.4.3.1 of CPWD Works Manual.
14. The financial position of quoted rates of L-1 firm as recommended by the department after due examination and detailed checking by Planning for acceptance, is as under (NP-101):

Estimated Rates	Justified cost	Tendered amount	% quoted w.r.t. justified cost
Rs 46,79,11,704/-	Rs 43,14,61,382/- 7.79% below EC	Rs 40,32,67,137/- 13.82% below EC	6.53% below the justified cost.

15. The tendered rates are within allowable variation as per CPWD Manual provisions.
16. The department may submit its proposal in r/o "award of work to M/s N.S. Associates Pvt. Ltd. for Construction of 188 Nos. Type II flats (10 storied towers) at Aliganj, New Delhi at their tendered rates of Rs 40,32,67,137/- which is 13.82% below estimated cost of Rs 46,79,11,704/- and 6.53% below justified cost worked out at 7.79% below estimated cost" for consideration of Competent Authority i.e. Council.
17. Keeping in view that the tendered rates are quite below the estimated as well as justified cost of the work, the department has ensured that execution of work will be strictly as per NIT specifications.

8. LEGAL IMPLICATION OF THE SUBJECT/PROJECT:

No Legal Issue is involved.

9. DETAILS OF PREVIOUS COUNCIL RESOLUTION, EXISTING LAW OF PARLIAMENT AND ASSEMBLY ON THE SUBJECT:

- (i) Resolution No.23 (A-26) dt.11.12.2014 for A/A & E/S for Rs.47,34,14,000/- but meeting was postponed NP-34 not taken up by council as meeting postponed
- (ii) Resolution No.09 (A-46) dt. 11.02.2015 for A/A & E/S for Rs.47,34,14,000/-

10. FINAL COMMENTS OF THE LAW DEPARTMENT ON THE SUBJECT/PROJECT.**11. CERTIFICATION BY THE DEPARTMENT THAT ALL CENTRAL VIGILANCE COMMISSION (CVC) GUIDELINES HAVE BEEN FOLLOWED WHILE PROCESSING THE CASE**

Certified that necessary guidelines of CVC have been followed while processing the case.

12. RECOMMENDATION

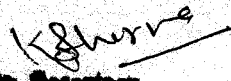
The case is placed before the Council for acceptance and award of Work to the lowest tenderer i.e. M/s. N.S. Associates Pvt. Ltd with the tendered amount of Rs.40,32,67,137/- which is 13.82% below the estimated cost of Rs. 46,79,11,704/-. The justified cost is 7.79% below the estimated cost. The quoted amount is 6.53% below the justified cost. Permission be also accorded for taking necessary action for award of work in anticipation of confirmation of the minutes of the Council.

13. Draft Resolution

Resolved by the Council that Council has accepted lowest tender of M/s. N.S. Associates Pvt. Ltd with the tendered amount of Rs.40,32,67,137/- which is 13.82% below the estimated cost of Rs. 46,79,11,704/-. The justified cost is 7.79% below the estimated cost. The quoted amount is 6.53% below the justified cost. Permission be also accorded for taking necessary action for award of work in anticipation of confirmation of the minutes of the Council.

COUNCIL'S DECISION

Deferred. The next Council meeting is scheduled at 09:30 a.m. on 06.03.2017.


Secretary
 New Delhi Municipal Council
 Patika Kendra, New Delhi

Copy of Res. No. 12(W-05)
of
Sounding Ordinary Meeting
Dated 02-03-2017

ITEM NO. 12 (W-05)

9. Name of the Subject/Project:

Transfer of funds from New Delhi Municipal Council to New Delhi Municipal Council Smart City Limited (NDMCSCSL) amounting to Rs. 100,00,00,000 (Rupees One Hundred Crores Only).

10. Name of the Department:

Project Department, New Delhi Municipal Council.

11. Brief history of the subject:

- a. Government of India (GOI), Ministry of Urban Development (MoUD) launched Smart City Mission on 25th June, 2015 to develop 100 cities throughout the country as Smart Cities who will be given matching grant of Rs. 500 Crores each from the Government of India and same amount to be arranged by the Urban Local Body (ULB)/State. The mission is a centrally sponsored scheme launched and steered by the Ministry of Urban Development (MoUD), GOI.
- b. The New Delhi Municipal Council has been selected as one of the 20 Lighthouse Smart Cities by the MoUD under the Round-1 of Smart City Mission. According to the Smart City Mission guidelines of MoUD, a Special Purpose Vehicle (SPV) needs to be established by the selected Smart Cities under the Company's Act 2013, for implementation of Smart City Mission. The SPV will plan, apprise, approve, release funds, implement, manage, operate, monitor and evaluate the Smart City Development projects.
- c. The Council vide its Resolution No. 07(W-02) dated 26.4.2016 had approved inter-alia the following:-
 - i) Establishing an SPV (a Public Limited Company) 100% wholly owned by the NDMC under the provisions of Section 12(z) of the NDMC Act 1994 with an authorize capital of Rs. 500 crores
 - ii) Transfer of funds of Rs. 500 Crores as proposed in Para 5 of the agenda item from NDMC to the proposed SPV, as and when required.
 - iii) Authorizing NDMC to request MoUD to allocate the funds to the proposed SPV in terms of the Smart City Mission Guidelines.
- d. The SPV for the Smart City was incorporated in the name and style of NDMC Smart City Limited (NDMCSCSL) on 28th July 2016 under the Company's Act 2013 as a 100% wholly owned entity of NDMC with an authorized share capital of Rs. 500 crores and minimum paid-up capital of Rs. 250 crores.
- e. Further the MoUD, Government of India in November 2016, had transferred NDMC through Government of Delhi, an amount of Rs. 194 crores as the grant-in-aid for the year 2015-16, 2016-2017, which was credited in the account of NDMC.

12. DETAILED PROPOSAL ON THE SUBJECT

To enable the building up of the equity base of the Special Purpose Vehicle (SPV)- NDMC Smart City Limited (NDMCSCSL) and to enable ULB's (NDMC) to contribute their share of the equity capital, GOI grants will be permitted to be utilized as ULB's share of equity capital in the SPV, subject to the conditions given in the Smart City Mission guidelines.

It has been confirmed from the MoUD that this amount can be used as equity contribution towards NDMCSCL's share capital. Since, the company is required to mandatorily maintain Rs. 250 Crores as authorised capital.

An amount of Rs. 56 Crores & Rs. 44 crores have been transferred to NDMC Smart City Ltd. on 12.12.2016 and on 20.2.2017 respectively as NDMC share from the HOA- '4124006'. (Capital work in progress, (Urban Development) function code 'City & Town Planning') and from the HOA - 4204001 (NDMC Share for Smart City Ltd.) through RTGS to the Firm - NDMCSCL. Provision of Rs. 50 Crores is kept in BE-2017-18, under the Head 4204001 (NDMC share for Smart City Ltd.)

The transfer of share of NDMC is towards fulfillment of the guidelines of the Smart City Mission. The transfer of NDMC's contribution is required to maintain NDMC's equity contribution as well as to mandatorily maintain the paid-up capital of the NDMC SCL Company.

As per the scheme the matching grants have to be contributed by the State/ULB and accordingly NDMC has to contribute its share as per the scheme guidelines. The transfer of NDMC's share/contribution has been done in consultation and concurrence of the Finance Department, NDMC.

As mentioned above, the Council has already given in-principle approval for transfer of funds to the tune of Rs. 500 crores as and when required vide Agenda Item No. 07(W-02) dated 26.4.2016.

Accordingly, the case is placed before the Council for information.

COUNCIL'S DECISION

Deferred. The next Council meeting is scheduled at 09:30 a.m. on 06.03.2017.

K. Sharma
For Secretary
New Delhi Municipal Council
Patika Kendra, New Delhi

Copy of Reso. No. 13 (A-59)
of
Society's Ordinary Meeting
Dated 02-03-2017

ITEM NO. 13 (A-59)

1. Name of the Project:

RFP for Selection of Concessionaire for "Design, Development, Implementation, Operation and Maintenance of Digital interactive Information Panels to connect digitally with the online services provided by various government bodies in lieu of advertisement rights in NDMC area on BOT".

2. Name of the Department concerned:-

Civil Engineering Department (Zone-I)

3. Brief History of the Project:-

Presently there are very few tourist and citizen information centers available in NDMC areas and it is difficult for citizens to visit these places to get required informations. Tourists travelling NDMC area are unaware of these information centers and they either depend on internet or local public for information. Citizens also face challenges when they require to visit NDMC offices frequently for bill information, bill payments and other NDMC related works. Purpose of these Digital interactive information panels is to offload some NDMC civic services works and to provide other interactive information to public through these panels.

To provide the facilities to the public, RFP for digital interactive information panel having following facilities has been prepared by the Civil Engineering Department.

A proposal for selection of Concessionaire for the aforesaid project was earlier prepared with the following details was placed before the Council:-

- a) Free Wi-Fi to the public in a radius of 25 m area.
- b) Public Telephone Facilities.
- c) Interactive Touch Screen with Internet connectivity.
- d) Mobile charging points
- e) Large size digital display for displaying information for public and for advertisement.
- f) Easy access of public to various govt. portals through interactive touch screen.
- g) Tourist information System through interactive touch screen.
- h) Information regarding availability of trains, online status of railway reservation and information regarding various airlines etc.
- i) Emergency responders update citizens in real time about as evacuation through social media from any device.
- j) Project the policies of modern governance, deliver more services for longer hours, closer to citizen locations.
- k) Increase govt. citizen productivity.
- l) Ensure greater transparency and consistency of services.
- m) Easier and wider choice of access, less travel and waiting time.
- n) Access to public services any time anywhere.

The AIP was accorded by the Council vide Item No.19 (A-07) dated 26-04-2016.

4. Detailed proposal of the Project:-

To meet the above objectives, it is proposed to install Digital Interactive Touch Screen Information Panels in NDMC area. These digital interactive Information panels will be installed in phases.

Present RFP is to engage a concessionaire who will design, provide, install, operation and maintain 75 nos. digital interactive information panels throughout the concession period of nine years (which includes implementation period of eight months).

The RFP for "Selection of Concessionaire for Design, Development, Implementation, Operation and Maintenance of Digital interactive Information Panels to connect digitally with the online services provided by various government bodies in lieu of advertisement rights in NDMC area on BOT" have been prepared containing various facilities as detailed under:-

I. Digital Interactive Information Panel: These interactive digital interactive information panels having following provision:-

- a. Free Wi-Fi to at least 40 users per location simultaneously at a minimum speed of 1 Mbps per user with 50 MB data per day subject to 1 GB data per month per user within a range of 25 meter from such panel.
- b. Digital interactive information panel will have 75" digital advertisement screen (without touch) on one side and 46" digital interactive (touch) screen on other side.
- c. 1st display should be 46" LCD/LED size for better display and support interactive communication, video with touch screen facility i.e. interactive panel. Detailed specifications as per clause 3.8.4.
- d. 2nd display of size 75" LCD/LED and it will play advertisement (Video) with non touch screen display i.e. Advertisement panel.
- e. Both these panel should have 1920 x 1080 Resolution (Full HD) or better.
- f. Managed remotely by an advanced, web-based management portal and content management software.
- g. LED panels' enclosure will be in a protective shell made of robust weatherproof material, it would be placed outdoor so it should survive adverse weather condition.
- h. To give NDMC a lump-sum monthly concession fee as quoted in the financial bid which will be increased @ 7% per annum compounded annually with minimum guaranteed revenue @ Rs 5,000/- per month per Unit of Digital interactive information panel.
- i. Digital interactive information panel's will provide interactive information to citizens and tourists on travel bookings, bus and metro routes, exploring location, current affairs, finding restaurants, neighborhood information, etc.

Project will enhance the efficiency and competitiveness of the services provided by the administration and move towards the sustainability of cities by improving resource efficiency.

NDMC is looking for a digital interactive panel system for quick access to public information, faster connectivity while providing a very rich citizen and tourist experience. It will be a comprehensive solution featuring a Digital interactive information panels and interactive city guide across Delhi.

RFP for the above mentioned work was invited on 26-11-2016 by publishing the same in the leading news papers (national editions) and also the same was

uploaded on the NDMC website. The pre-bid meeting was held on 8-12-2016. Replies to the pre-bid meeting were uploaded on the NDMC website. Since this project is for installation of LED Screens on road side which is highly risk oriented project. All the investment in the project has to be done by the concessionaire. Several extensions to the final date of submission of RFP were given as most of the market players are reluctant to respond to this bid. Only a single bid of M/s Planet Advertising (P) Ltd., for the above said work has been received on the due date i.e. 6-2-2017. The technical bid was got examined by the Technical Evaluation Sub-Committee. As per Clause 5.3.9.2 the applicant has to score minimum 50% in individual Technical Evaluation Criteria and 70% marks out of total 100 marks of Technical Evaluation Criteria. The marks obtained by the applicant fulfil the minimum requirements of technical score i.e. more than 50% marks in individual technical evaluation and 70% marks out of total marks. The agency has proposed to install 75" & 46" LED panels of Samsung brand, model no. OM 46D-W/K & OM 75D-W/K which meets the technical specifications. They have also proposed CISCO Aironet 1570 services outdoor access points.

M/s Planet Advertising (P) Ltd. has given the presentation regarding the concept of the project with various components mentioned in the RFP document. The presentation was seen by the members of the sub-committee.

Technical Evaluation Sub-Committee has evaluated the bid in its meeting in accordance with the approved RFP as per clause 5.3.2 and qualified the applicant for opening of financial bid.

M/s Planet Advertising (P) Ltd. has quoted the lump-sum monthly concession fee of Rs.11555.00 per month per digital interactive panel, which will be increased @ 7% per annum compounded annually, For 75 digital interactive information panel the total concession fee quoted by the M/s Planet Advertising (P) Ltd. is Rs.866625.00 per month.

Since this project is for installation of LED Screens on road side which is highly risk oriented. Several extensions to the RFP were given as most of the market players are reluctant to respond to this bid. In the present case also a single bid was received. This shows that the project is not lucrative to the market players. In addition such type of outdoor LED Screen project was never executed in NDMC earlier as well as in NCR. So, rates quoted by the concessionaire are not comparable with other similar works. The concessionaire will invest the total capital cost of the project and also operate & maintain the digital interactive information panels throughout the concession period of 09 years. Interactive side of the digital panel will be for the public and NDMC use only, free of cost. Free Wi-Fi connectivity for the public will also be provided by the concessionaire throughout the concession period of 9 years. Since no project of such type has been executed in NDMC earlier as well as in NCR, the justification in the conventional/traditional manner cannot be worked out. Secondly, project consists of various variable complex components, the revenue from the digital content display can't be ascertained. If compared with the revenue to NDMC from the various BOT projects of PTU's and BQS the revenue in terms of per sq.mtr area of Advertisement allowed is much more. In view of the detailed position explained above, the rate appears to be reasonable.

The case has been examined and concurred by the Finance Deptt. for accord of approval of competent authority to place the offer of the single applicant (H1 bidder) i.e. M/s Planet Advertising Pvt. Ltd before the council for acceptance of the offer.

5. FINANCIAL IMPLICATIONS OF THE PROJECT:

No investment by NDMC. The Concessionaire will invest in the project and also bear all the cost of O&M for nine years. The concessionaire will pay to NDMC a monthly concession fee of Rs. 11555/- per month per panel which will be increased by 7% annually on compounded basis throughout concession period of eight year and four months.

Based on the products offered the concessionaire has given the investment cost and O&M cost for 9 years and the same is placed as **Annexure-I (See page 89)** The details of concession fee to be received by the NDMC during the entire concession period of 9 years (including 8 months of implementation period) are enclosed as at **Annexure-II (See page 90)**.

6. IMPLEMENTATION SCHEDULE WITH TIMELINES FOR EACH STAGE INCLUDING INTERNAL PROCESSING.

- (iv) Implementation of the project within eight months of signing of agreement is as under:
 - a. Providing and installation of 15 digital interactive panels: within 4 months
 - b. Next 30 digital interactive panels : within six months
 - c. Next 30 digital interactive panels : within eight months
- (v) Concession Period (including implementation period of 8 months): Nine years.

7.(a) FINAL COMMENTS OF THE FINANCE DEPARTMENT ON THE SUBJECT WITH DIARY NUMBER & DATE. 388/Finance dated 23-2-2017

The case was submitted to finance department for approval of the proposal. Finance department has concurred the case with the following observations:-

1. "The proposal of the Department is for acceptance of the tender of lone bidder M/s Planet Advertising Pvt. Ltd. at the monthly concession fees of Rs.11,555/- Per Digital Panel.
2. Council has accorded AIP vide Resolution no. 19(A-07) dated 26.04.2016 to prepare RFP to invite proposal for selection of concessionaire on the above cited subject.
3. RFP was seen by the Sub-Committee consisting of FA, CE(E)-II, CE(C)-I, Dir(IT) and SE(PH) wherein 150 Nos. of digital interactive information panel was kept in the RFP but after conducting pre-bid meeting with the prospective bidders, it was reduced to 75 Nos, digital panel (minutes of pre-bid meeting are placed in the file).
4. The concession period is Nine (9) years including Eight months implementation period.
5. Chairman has accorded approval at Page-9/N for publishing the RFP in newspapers and NDMC website. Tenders for the work were invited by the Department giving publicity on NDMC website and also published in newspapers. The tender was opened on 06.02.2017 wherein single firm M/s, Planet Advertising Pvt. Ltd. has quoted the tender for the above cited project. Technical sub-Committee evaluated the bids and recommended at Page-13/N to open the financial bids of the Single firm.
6. M/s Planet Advertising Pvt. Ltd. has quoted the lump-sum monthly concession fees of Rs.11,555/- per month per digital interactive panel which will be increased @ 7% every year on annual compounding basis. For 75 digital interactive information panel, the total concession fees quoted by the lone firm is Rs.8,66,625/- per month which will be increased by @ 7% per annum.

7. For ascertaining the reasonability of rates, Department has stated that since no project of such type has been executed in NDMC earlier as well as in NCR, the justification in the conventional/traditional manner cannot be worked out. Secondly, project consists of various variable complex components, the revenue from the digital content display can't be ascertained. If compared with the revenue to NDMC from various BOT projects of PTUs and BQS the revenue in terms of per sq.mtr. area of advertisement allowed is much more. In view of this, the rates appear to be reasonable (Work out sheet of per sq. mt. rates in BQS and PTUs are placed in the file).
8. In view of recommendation of the CE(C-I), Department may process its proposal to the Council for acceptance of the tender of Highest Lone bidder M/s Planet Advertising Pvt. Ltd. at the monthly concession fees of Rs.11,555/- per Digital Panel (total concession fees would be Rs.8,66,625/- per month for 75 Nos. panels) for a period of 9 years. However, while submitting the case to the competent authority, Department may bring on record that (i) rates of lone firm are reasonable and justified for acceptance w.r.t. current market rates, being a single bid received in first call (ii) due publicity was given to RFP as well corrigendum as per codal provision (iii) checklist duly filled be got signed by AO (Works) (iv) the details of capital investment and operation & maintenance cost to be incurred by concessioner in 9 years and the total concession fee to be received by NDMC in 9 years based on quoted rates."

7.(b) COMMENTS OF THE DEPARMTNET ON THE COMMENTS OF THE FINANCE DEPTT.

Finance Department has concurred the proposal vide no.388/finance/R-civil dated 23.02.2017. The clarification/comments of the department to the observations of the finance department as mentioned in point No. 7(a) are given as under:-

- (i) Since this project is for installation of LED Screens on road side which is highly risk oriented. Several extensions to the RFP were given as most of the market players are reluctant to respond to this bid. In the present case also a single bid was received. This shows that the project is not lucrative to the market players. The concessionaire will invest the total capital cost of the project and also operate & maintain the digital interactive information panels throughout the concession period of 09 years (including implementation period of 8 months). Interactive side of the digital panel will be for the public and NDMC use only, free of cost. Free Wi-Fi connectivity, for the public will also be provided by the concessionaire throughout the concession period of 9 years. Since no project of such type has been executed in NDMC earlier as well as in NCR, the justification in the conventional/traditional manner cannot be worked out. Secondly, project consists of various variable complex components, the revenue from the digital content display can't be ascertained. If compared with the revenue to NDMC from the various BOT projects of PTU's and BQS the revenue in terms of per sq.mtr area of Advertisement allowed is much more. In view of the detailed position explained above, the rate appears to be reasonable.
- (ii) Due publicity was given to the RFP by publishing the same in national leading news papers throughout the India. The RFP & it's various corrigendum were also uploaded on NDMC website.
- (iii) Check list duly signed by AO (Works) is placed in the file.
- (iv) Based on the models of the products to be installed, the concessionaire has given the details of capital investment and O&M cost to be incurred in nine years are enclosed as Annexure-I to the council agenda. Total concession fee received by NDMC in 9 years based on quoted rates is enclosed as Annexure-II (See page 90).

8. LEGAL IMPLICATION OF THE SUBJECT/PROJECT:

9. DETAILS OF PREVIOUS COUNCIL RESOLUTIONS, EXISTING LAW OF PARLIAMENT AND ASSEMBLY ON THIS SUBJECT:
 Council Resolution No.19 (A-07) dated 26-04-2016.

10. FINAL COMMENTS OF THE LAW DEPARTMENT ON THE SUBJECT/PROJECT:

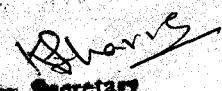
11. CERTIFICATION BY THE DEPARTMENT THAT ALL CENTRAL VIGILANCE COMMISSION (CVC) GUIDELINES HAVE BEEN FOLLOWED WHILE PROCESSING THE CASE.
 It is certified that all Central Vigilance Commission (CVC) guidelines have been followed while processing the case.

12. RECOMMENDATIONS:
 The case is placed before the Council for consideration and approval for:-
 - i). To award the work to the highest bidder i.e. M/s Planet advertising Pvt. Ltd. They will pay to NDMC a monthly lump-sum concession fee of Rs.11555/- per digital interactive panel per month which will be increased by 7% annually on compounded basis throughout the concession period.
 - ii). To award the work in anticipation to the confirmation of the minutes of the Council Meeting.

13. DRAFT RESOLUTION:

COUNCIL'S DECISION

Deferred. The next Council meeting is scheduled at 09:30 a.m. on 06.03.2017.


For Secretary
 New Delhi Municipal Council
 Parka Hendra, New Delhi

FINANCIAL BID ESTIMATION**Table1: Capital investment (Price Schedule).**

Sl. No.	Brief Item Description	Unit	Quantity	Rate (Rs)	Amount (Rs)
1	75" LED Display Screen	1	77	600000	46200000
2	46" LED Display Screen	1	77	500000	38500000
3	Protection Overlay for 75" Screen		77	30000	2310000
4	Touch-overlay for 46" Screen		77	40000	3080000
5	Aluminium Kisok Panel		75	80000	6000000
6	UTM		77	5000	385000
7	Mobile Charging USB Port		77*4	250	77000
8	Headphone Jack		77	500	38500
9	Media Player		150	5500	825000
10	Magic Info Software		1	70000	70000
11	Magic Info Admin Panel		1	50000	50000
12	Auto-Source Switching		75	1000	75000
13	WiFi AP		75	₹10000	75000
14	User Account Management		1	25000	25000
15	RJ45 Network Cables		160	1500	240000
16	AWS Ec2 Server		1	80000	80000
17	Installation of Network Cables		76	25000	1900000
18	Zamok Web Browsing Software for 46" Panel		1	150000	150000
19	Teamviewer Application		1	150000	150000
20	Uncrashable Application		1	120000	120000
21	PC at Server		5	50000	250000
Total Amount					135905000

Table 2 : Operation and Maintenance Price Schedule for 09 years (Amount in Rs.)

S.No.	Brief Item Description	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
1	Electric Connection	4500000	500000	500000	500000	500000	500000	500000	550000	550000
2	Internet Connection	4500000	500000	500000	500000	500000	500000	500000	550000	550000
3	Regular Maintenance	1500000	1500000	1500000	1500000	1500000	1500000	1500000	1500000	1500000
4	Manpower	3500000	380000	4100000	4400000	4800000	5300000	5700000	6100000	6600000

Details of concession fee to be received by NDMC during concession period of 9 years (including 8 months of implementation period)

The year wise/monthly concession fee to be payable to NDMC is as under:-

Revenue calculation for 75 Digital Interactive Panels during concession period of 9 years (including 8 month of implementation period).

S.No.	No. of years from the date of installation and commissioning of the complete project	Monthly concession fee to be paid to NDMC (Rs.)	Revenue from 75 Digital Interactive Panels per annum with increase of 7% per year on compounded basis. (Rs.)
1	0-4 th month (4month)	Nil	Nil
2	5 th to 6 th month (2 months)	15X11555=1,73,325/-	3,46,650.00
3	7 th to 8 th month (2 months)	45X11555=5,19,975/-	10,39,950.00
4	9 th month to 1 year & 8 th month (12 months)	75X11555=8,66,625/-	1,03,99,500.00
5	1 st year & 8 th month to 2 nd year & 8 th month (12 months)	75X12364=9,27,300/-	1,11,27,600.00
6	2 nd year & 8 th month to 3 rd year & 8 th month (12 months)	75X13229=9,72,175/-	1,19,06,100.00
7	3 rd year & 8 th month to 4 th year & 8 th month (12 months)	75X14155=10,61,625/-	1,27,39,500.00
8	4 th year & 8 th month to 5 th year & 8 th month (12 months)	75X15146=11,35,950/-	1,36,31,400.00
9	5 th year & 8 th month to 6 th year & 8 th month (12 months)	75X16206=12,15,450/-	1,45,8,5400.00
10	6 th year & 8 th month to 7 th year & 8 th month (12 months)	75X17341=13,00,575/-	1,56,069,00.00
11	7 th year & 8 th month to 8 th year & 8 th month (12 months)	75X18555=13,91,625/-	1,66,99,500.00
12	8 th year & 8 th month to 9 th year (4 months)	75X19854=14,89,050/-	59,56,200.00
Total concession fee for 9 years (in Rs.)			11,40,38,700.00

Copy of Reso. No. 14 (A-60)
of
Council's Ordinary Meeting
Dated 02-03-2017

ITEM NO. 14 (A-60)

1. **Name of the Project:**
Selection of Concessionaire for "Design, Development, Implementation, Operation and Maintenance of Parking Guidance and Management Solution for on street, off street and indoor Parking Spaces in NDMC area on PPP model".
2. **Name of the Department concerned:-**
Civil Engineering Department (Zone-I)
3. **Brief History of the Project:-**

Parking lots of NDMC are either maintained manually or semi automatically. There is extra demand of surface Parking lots (on street and off street) whereas indoor parking lots at Palika Parking, C.P., Shivaji Stadium and at BKS Marg remains underutilized. It is causing inconvenience to the public and causing traffic jam at some of these locations. There is urgent need to regulate these parking lots through intervention of technology so that there will be better utilization of Parking lots with public friendly solutions.

The Council has already decided to take back management of all 94 parking lots from M/s. DIMTS so it is also become necessary to arrange alternate arrangement of managing these parking lots by selection of new concessionaire.

For managing the parking lots it was felt that this can be done by introduction of the latest technology. So it was proposed to introduce sensor based parking guidance and management system, in which all the information of the availability of tariff applicable, online booking through mobile App and website of NDMC and also through variable messages signboards. Accordingly, this RFP was prepared for parking lots falling in 550 Acres of the NDMC area identified under Area Based Development in Smart Cities Mission.

Following are NDMC's key objectives of the parking management and parking guidance initiative proposed under this RFP:

- j. To uniquely identify all parking slots through sensors and/or video based, and other smart parking technology solutions.
- k. To enable accurate information on availability of parking slots in real time through monitoring entry and exit of each vehicle in each parking lot.
- l. To enable parking guidance system to direct drivers to available parking spot.
- m. To enable users to pay on the spot / reserve parking slots via mobile app or online portal.
- n. To reduce circling, leading to savings of time and fuel.
- o. To help in reducing overall congestion and general improvement in quality of life.
- p. To view a live video feed of parking.
- q. To get central report management of parking occupancy, revenue, and enforcement.

To achieve the above mentioned goals, a draft RFP has been prepared to appoint a concessionaire for a period of seven years (including six months implementation period) on private public partnership basis, who will be responsible for following:-

- a. To upgrade 87 numbers of parking lots in Connaught Place (Central Business District) and its surroundings area from Mandi House circle to Shivaji Stadium area, with parking sensors, parking guidance and management system, installation of cameras and other equipments required for this purpose. Proposed system should have the capability to uniquely identify each motorist entering into any of the parking lots. Concessionaire may propose barcoded tickets, magnetic strip cards, RFID cards, Smart Cards, QR Coded entry or any other technology, as deemed fit.
- b. To depute manpower to manage these parking lots and collect parking charges as per NDMC parking policy. Comprehensive operation and maintenance of all parking sensors and other equipments required for parking guidance and management system throughout the concession period.
- c. To provide a smart parking system for specially-abled person, free of cost.
- d. The solution provided by concessionaire shall include end devices for parking management and revenue collection and alternate fallback mechanism for ensuring smooth working of Smart Parking initiative/technology.
- e. All revenues, generated from Parking, should be accounted for and tracked. It should be collected online to the maximum extent. Any leakages in the same will not be permitted.
- f. To ensure at all times that the parking lots are utilized by cars, cabs, two wheelers.
- g. To give NDMC a monthly concession fee in percentage of the revenue collected from parking charges per month subject to guaranteed revenue to NDMC.

The RFP document was got approved by the council vide resolution item No. No.24 (A-41) dated 3-11-2016.

4. Detailed proposal of the Project:-

Under this proposal, total 87 nos. of parking lots have been taken up including three numbers of underground parking. At present most of the parking lots in NDMC area are being run by DIMTS (i.e. 94 numbers) and revenue being paid by DIMTS to NDMC for all 94 parking lots are much less than as proposed in RFP and out of 94 parking lots with DIMTS, 67 numbers of parking lots with DIMTS has been taken up under this RFP, in phase-I.

Accordingly, bids were invited for 87 parking lots falling under area identified for Area Based Development Plan under Smart Cities Mission of around 550 Acres for phase-I. Four bids were received on due date and time i.e. 23-12-16 at 3:00 P.M. Technical bids of all the four agencies were opened. During evaluation of technical eligibility by the Technical Evaluation Sub-Committee (TEC), it was observed that out of four only two agencies were fulfil the eligibility criteria as defined in the approved RFP and was found eligible for opening of financial bids accordingly the financial bids of both the eligible applicants were opened on 19th January 2017.

The rates quoted by both the companies are as under:-

Sr. No.	Name of the Applicants	Details of Financial bid (Percentage revenue to be given to NDMC.)
1.	M/s Building Control Solutions (I) Pvt. Ltd. (Single Company)	52.0% of Revenue
2.	M/s Neptune India Ltd. (Consortium)	50.4% of Revenue

The applicant M/s Building Control Solutions (I) Pvt. Ltd. (Single Company) has submitted highest bid @ 52% (Fifty two percent) of Revenue share which will be provided to NDMC subject to minimum concession fee as Rs. 75.00 Lakh (Rupees Seventy Five Lakh only) on monthly basis. By the award of this work NDMC will get minimum guaranteed revenue of Rs. 9 Crore per annum against the present revenue of Rs. 2.51 Crore (Approx.)

TEC further observed the following w.r.t. the instant RFP:

- (i) At present most of the parking lots in NDMC area are being run by DIMTS (i.e. 94 numbers);
- (ii) As per information received from the Enforcement Department, NDMC received revenue from DIMTS for these 94 number of parking lots of Rs. 2.6 Crore (for the period of April 2014 to Sept. 2015) i.e. for 18 months which becomes Rs. 1.73 Crore annually;
- (iii) out of 94 parking lots with DIMTS, 67 numbers of parking lots with DIMTS has been taken up under this RFP document;
- (iv) this RFP proposal consists of total 87 nos. parking lots [67 parking lots with DIMTS, 3 underground parkings (Palika Parking, Shivaji Stadium, and Baba Kharak Singh parking in front of Emporia building), and 17 newly identified places at which there is no parking contract given by NDMC as on date but unauthorized parking of vehicles going on];
- (v) at present, revenue being paid by DIMTS to NDMC for these 67 parking lots is much less than as proposed in RFP;
- (vi) further NDMC is also bearing expenses incurred on staff deployed by NDMC for running of underground Palika Parking were costing in lakhs annually, excluding energy consumption, regular upkeepment and maintenance charges and security staff deployed through private agency. The total amount received by NDMC from underground Palika parking for the year 2013-2014 and 2014-2015 were Rs.67.00 Lakh and Rs. 78.00 Lakh respectively.

Para 10 of TEC provides that

"From the financial bids of both the technically successful bidders, the following has been observed:

- (i) The applicant M/s Building Control Solutions (I) Pvt. Ltd. (Single Company) has submitted highest bid @ 52% of Revenue which will be provided to NDMC. However, M/s Building Control Solutions (I) Pvt. Ltd. (Single Company), has mentioned the following in their financial bid (Annexure-4) to the RFP and forwarding letter enclosing the financial bid (Annexure 5) w.r.t. minimum concession fee amount:
 - a) in figure Rs.75,00,000/- and in words (Rupees seventy five lakh only) in the financial bid (Annexure 4).
 - b) in figure Rs.75,00,000/- and in words (Rupees one seventy five lakh only) in forwarding letter enclosing the financial bid (Annexure 5).

The TEC has deliberated and observed that as per the scheme of the RFP documents, the bidder was supposed to quote the percentage revenue to be shared with NDMC and not the minimum concession fee amount. TEC observed that M/s Building Control Solutions (I) Pvt. Ltd. has quoted 52% revenue to be shared with NDMC in both Annexures 4 and 5, however, out of four places in

Annexures 4 and 5, M/s Building Control Solutions (I) Pvt. Ltd. has mentioned Rs.75 lakhs at three places (twice in letters and once in words) and Rs. One seventy five lakhs at one place [once in words in forwarding letter enclosing the financial bid (Annexure 5)].

Considering the above that out of four places, at three places M/s Building Control Solutions (I) Pvt. Ltd. has quoted Rs.75 lakhs, and the fact that the bidder was not supposed to quote the minimum concession fee as per the scheme of RFP documents, TEC is of the view that the mentioning of Rs. One seventy five lakhs in words at one place in forwarding letter enclosing the financial bid, seems to be a typographical mistake, and may be ignored.

- (ii) M/s Neptune India Ltd. has submitted second highest bid @ 50.4% of Revenue which will be provided to NDMC, and changed the minimum quoted amount to Rs.75 lakhs appropriately in the financial bid (Annexure 4) and forwarding letter enclosing the financial bid (Annexure 5) as per the RFP document. However, it has not changed the revenue earned appropriately as it mentioned that 'revenue earned = Gross revenue minus service taxes as applicable' instead of Revenue=(Gross Revenue) - (service taxes as applicable) - (5% discount given to the users for payment through pre-paid cards, e-wallets, payment gateways, etc., except cash payments) - (service charges to be paid to bank or e-wallet gateway etc. for bookings made through Mobile App or smart online web-based portal application)" as per the requirement of the RFP document in terms of modified clause 3.8.1 of the RFP document.

TEC is of the view that such error of not mentioning the gross revenue by M/s Neptune India Ltd., seems to be a typographical mistake, and may be ignored."

As per Clause 5.4.2.2 & 5.4.2.3, the only criteria for comparison of the financial bid, is the percentage revenue to be given to NDMC. Clause 5.4.2.2 and 5.4.2.3 provides that:

"Clause 5.4.2.2:

The Financial Bids shall be evaluated on the basis of the monthly concession fee quoted by the Concessionaire in terms of % age sharing to NDMC as per clause 5.4.1 above.

Clause 5.4.2.3:

The Applicant whose Financial Bid has the highest quoted monthly concession fee "percentage of revenue" to be payable to the NDMC for the Project ("H1 Applicant") shall be the best preferred applicant."

As per Clause 5.4.2.2 in the pre-bid meeting two things of financial bids were changed:

- (i) Minimum concession fee has been revised from Rupees One Crore to Rupees Seventy Five Lakh only.
- (ii) Two additional components i.e. 5% discount given to the users for payment through prepaid cards, e-wallets, payment gateways etc. Secondly service charges to be paid to bank or e-wallet gateway etc. have been deducted additional from the Gross revenue so as to arrive at the revenue for sharing with NDMC. Both these above modifications will be applicable by default and the applicant can't change it.

In the present proposal revenue to be paid by the Concessionaire for 87 parking lots will be 52% of the revenue subject to a minimum concession fees of (Rs. 75,00,000/- per month) for the 69 parking lots out of 94 parking lots with DIMTS along with other parking lots. Further in this proposal, NDMC is not investing any capital investment and Concessionaire will invest, implement, maintain and operate the complete system throughout the concession period. As per SLAs defined in the RFP and will also pay 52% (Fifty two percent) revenue received per month subject to minimum Rs. 75,00,000/- per month to be paid to NDMC.

A decision on the parking lots in the Inner, middle and outer Circle of Connaught Place included in the RFP need to be taken in view of the proposed *pedestrianisation* of Connaught Place. Accordingly, it is proposed that following may be specifically mentioned in the LOI to be issued to the H-1 bidder:

"The availability of parking lots included in the Inner and Middle Circle of the Connaught Place will be subject to finalisation of pedestrianisation plans being undertaken in NDMC while the NDMC will try to minimise the reduction in parking area in Inner & Middle Circle of Connaught Place, as mentioned in the RFP, however, this will not creates any right in favour of the successful applicant at any stages. NDMC reserves the right to withdraw parking lots situated at inner, middle and outer circle of Connaught Place only for the purpose of implementation of pedestrianisation of Connaught Place area."

The minutes of the meeting of the TEC are enclosed as Annexure-1 (See pages .

5. FINANCIAL IMPLICATIONS OF THE PROJECT:

No investment from NDMC. The concessionaire will share the revenue @ 52% (fifty two percent) of revenue [Revenue=(Total Revenue) - (service taxes as applicable) - (5% discount given to the users for payment through pre-paid cards, e-wallets, payment gateways, etc., except cash payments) - (service charges to be paid to bank or e-wallet gateway etc. for bookings made through Mobile App or smart online web-based portal application)] collected from parking charges from such 87 parking lots subject to minimum payment of Rs.75.00 lakh(seventy five lakh) per month to NDMC.

6. IMPLEMENTATION SCHEDULE WITH TIMELINESS FOR EACH STAGE INCLUDING INTERNAL PROCESSING.

- (vi) To invite proposal and award the work : Three months
- (vii) Concession Period (including implementation period of 6 months): 7 years

7(a). FINAL COMMENTS OF THE FINANCE DEPARTMENT ON THE SUBJECT WITH DIARY NUMBER & DATE.

Finance department has concurred the proposal vide diary no.359 fin./R-civil dated 21.02.2017, with the observation as under:

"The observations of the Finance Department has been replied by the Department at page 58/N which has been duly recommended by CE (C-I), Department may place its proposal for seeking approval of the council."

7.(b) COMMENTS OF THE DEPARMTNET ON THE COMMENTS OF THE FINANCE DEPTT.

As given in the detailed proposal at Sr. No. 6 in this agenda, however, minutes of the TEC are enclosed at Annexure-1 (See pages 98 – 102) .

8. LEGAL IMPLICATION OF THE SUBJECT/PROJECT:

9. DETAILS OF PREVIOUS COUNCIL RESOLUTIONS, EXISTING LAW OF PARLIAMENT AND ASSEMBLY ON THIS SUBJECT:

- (a) Council's resolutions vide Item No. 3 (J-2) dated 26.07.2004, No. 3(J-2) dated 26.08.2004, meeting taken by the then Chairperson with Council Members on 05.08.2004, 07(L-03) dated 28.02.2013, No. 18(J-04) dated 31.03.2013, and No. 18 (A-06) dated 26/4/2016, and No.18 (A-30) 17.08.2016, and was deferred 24(A-41) dated 03.11.2016.

10. FINAL COMMENTS OF THE LAW DEPARTMENT ON THE SUBJECT/PROJECT:

11. CERTIFICATION BY THE DEPARTMENT THAT ALL CENTRAL VIGILANCE COMMISSION (CVC) GUIDELINES HAVE BEEN FOLLOWED WHILE PROCESSING THE CASE.

It is certified that all Central Vigilance Commission (CVC) guidelines has been followed while processing the case.

12. RECOMMENDATIONS:

The case is placed before the Council for consideration and approval for :-

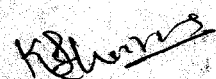
- i) To award the work to the highest bidder (H-1) i.e. M/s Building Control Solutions (I) Pvt. Ltd. on his quoted offer i.e. they will pay to NDMC a monthly Concession Fee @ 52% of Revenue earned = {(Total Revenue) , (service taxes as applicable) - (5% discount given to the users for payment through pre-paid cards, e-wallets, payment gateways, etc., except cash payments) - (service charges to be paid to bank or e-wallet gateway etc. for bookings made through Mobile App or smart online web-based portal application)} subject to minimum concession fee as Rs. 75.00 Lakh (Rupees Seventy Five Lakh only) on monthly basis throughout the concession period of seven years for such 87 parking lots in the NDMC area.

- ii) It is proposed that following may be specifically mentioned in the LOI to be issued to the H-1 bidder: "The availability of parking lots included in the Inner and Middle Circle of the Connaught Place will be subject to finalization of pedestrianisation plans being undertaken in NDMC while the NDMC will try to minimize the reduction in parking area in Inner & Middle Circle of Connaught Place, as mentioned in the RFP, however, this will not creates any right in favour of the successful applicant at any stages. NDMC reserves the right to withdraw parking lots situated at inner, middle and outer circle of Connaught Place only for the purpose of implementation of pedestrianisation of Connaught Place area."
- iii) To award the work in anticipation to the confirmation of the minutes of the Council Meeting.

13. **DRAFT RESOLUTION:**

COUNCIL'S DECISION

Deferred. The next Council meeting is scheduled at 09:30 a.m. on 06.03.2017.


For Secretary
New Delhi Municipal Council
Palika Mandra, New Delhi

Sub: Request for Proposal for Selection of Concessionaire for Design Development, Implementation, Operation and Maintenance of Parking Guidance and Management Solution for on street, off street and indoor Parking Spaces in NDMC area on PPP model.

1 RFP of the project was uploaded on NDMC website on dated 09.11.2016 with the approval of the council vide item no. 24(A-41) dated 03.11.2016 with last date of receiving of bids as 06.12.2016. The reply to the queries during pre-bid meeting (17.11.2016) were uploaded on NDMC website on 06.12.2016 and last date of opening of the bids was extended to 20.12.2016 which was further extended till 3:00 PM dated 23.12.2016.

2 Bids of the project were opened at 3:00 PM dated 23.12.2016 in the presence of all concerned and interested parties/bidders. Four bids of the following agencies were received on due date.

- (i) M/s Building Control Solutions (I) Pvt. Ltd. (Single Company)
- (ii) M/s ASN services Pvt. Ltd. (Consortium)
- (iii) M/s Rajendra and Sons Infra Pvt. Ltd. (Single Company)
- (iv) M/s Neptune India Ltd. (Consortium)

3 The bids of the four agencies were evaluated in accordance with terms & conditions of the approved RFP. Clarifications were asked from the applicant regarding eligibility documents and further technical evaluation and compliance to the technical specifications. The case was examined by the technical sub-committee in its meeting dated 13.01.2017.

4 Out of four bids, two agencies mentioned at Sr. No. (ii) & (iii) were found non-eligible for opening of their financial bids.

5 There after the two eligible bidders at Sr. No. (i) & (iv) were asked to give their presentations as per technical evaluation criteria. M/s Neptune India Ltd. had given presentation on 17.01.2017 and M/s Building Control Solutions (I) Pvt. Ltd. (Single Company) gave the presentation on 18.01.2017. Sub-committee vide meeting dated 18.01.2017 had recommended for opening of the financial bids of M/s Building Control Solutions (I) Pvt. Ltd. (Single Company) and M/s Neptune India Ltd. (Consortium), since both these firms had scored more than 60% marks in individual criteria and 70% marks in aggregate.

6 Financial bid of the eligible applicants were opened on dated 19.01.2017. The details of the financial bid of both the companies are reproduced below:-

Sr. No.	Name of the Applicants	Details of Financial bid (Percentage revenue to be given to NDMC.)
3.	M/s Building Control Solutions (I) Pvt. Ltd. (Single Company)	52.0% of Revenue
4.	M/s Neptune India Ltd. (Consortium)	50.4% of Revenue

7 The financial bid of both the companies has been evaluated in accordance with clause 3.8.1 (read with corrigendum no.2 dated 06.12.2016) as under:-

"The applicant shall quote the 'Concession Fee' in percentage of Gross Revenue earned which will be provided to NDMC and in the prescribed format given at Annexure 5. The Concessionaire would pay to NDMC every month the Concession Fee as quoted above throughout the concession period based on the parking rates mentioned at Annexure-3, subject to minimum concession fee as Rs.75,00,000/-(Rupees Seventy Five Lakh only) per month from the date of handing over of parking lots.

For the purpose of this clause Revenue means:

Revenue=(Gross Revenue) - (service taxes as applicable) - (5% discount given to the users for payment through pre-paid cards, e-wallets, payment gateways, etc., except cash payments) - (service charges to be paid to bank or e-wallet gateway etc. for bookings made through Mobile App or smart online web-based portal application)."

8 As per Clause 5.4.2.2 & 5.4.2.3, the only criteria for comparison of the financial bid, is the percentage revenue to be given to NDMC. Clause 5.4.2.2 provides that:

"The Financial Bids shall be evaluated on the basis of the monthly concession fee quoted by the Concessionaire in terms of % age sharing to NDMC as per clause 5.4.1 above."

Clause 5.4.2.3 provides that:

"The Applicant whose Financial Bid has the highest quoted monthly concession fee "percentage of revenue" to be payable to the NDMC for the Project ("H1 Applicant") shall be the best preferred applicant."

9 TEC observed that in response to the queries raised in the pre-bid meeting, inter-alia, the financial two changes were made:

- (iii) Minimum concession fee has been revised from Rupees One Crore to Rupees Seventy Five Lakh only.
- (iv) Two additional components i.e. (a) 5% discount given to the users for payment through prepaid cards, e-wallets, payment gateways etc. and (b) service charges to be paid to bank or e-wallet gateway etc., have been deducted additional from the Gross revenue so as to arrive at the revenue for sharing with NDMC.

Both these modifications will be applicable by default, and the bidders can't change them, and these clauses have been made by NDMC as corrigendum to the RFP document in response to the pre-bid queries.

10 From the financial bids of both the technically successful bidders, the following has been observed:

(iii) The applicant M/s Building Control Solutions (I) Pvt. Ltd. (Single Company) has submitted highest bid @ 52% of Revenue which will be provided to NDMC. However, M/s Building Control Solutions (I) Pvt. Ltd. (Single Company), has mentioned the following in their financial bid (Annexure-4) to the RFP and forwarding letter enclosing the financial bid (Annexure 5) w.r.t. minimum concession fee amount:

- a) in figure Rs.75,00,000/- and in words (Rupees one seventy five lakh only) in forwarding letter enclosing the financial bid (Annexure 5); and
- b) in figure Rs.75,00,000/- and in words (Rupees seventy five lakh only) in the financial bid (Annexure 4).

The TEC has deliberated and observed that as per the scheme of the RFP documents, the bidder was supposed to quote the percentage revenue to be shared with NDMC and not the minimum concession fee amount. TEC observed that M/s Building Control Solutions (I) Pvt. Ltd. has quoted 52% revenue to be shared with NDMC in both Annexures 4 and 5, however, out of four places in Annexures 4 and 5, M/s Building Control Solutions (I) Pvt. Ltd. has mentioned Rs.75 lakhs at three places (twice in letters and once in words) and Rs. One seventy five lakhs at one place [once in words in forwarding letter enclosing the financial bid (Annexure 5)].

Considering the above that out of four places, at three places M/s Building Control Solutions (I) Pvt. Ltd. has quoted Rs.75 lakhs, and the fact that the bidder was not supposed to quote the minimum concession fee as per the scheme of RFP documents, TEC is of the view that the mentioning of Rs. One seventy five lakhs in words at one place in forwarding letter enclosing the financial bid, seems to be a typographical mistake, and may be ignored.

(iv) M/s Neptune India Ltd. has submitted second highest bid @ 50.4% of Revenue which will be provided to NDMC, and changed the minimum quoted amount to Rs.75 lakhs appropriately in the financial bid (Annexure 4) and forwarding letter enclosing the financial bid (Annexure 5) as per the RFP document. However, it has not changed the revenue earned appropriately as it mentioned that 'revenue earned = Gross revenue minus service taxes as applicable' instead of *Revenue=(Gross Revenue) - (service taxes as applicable) - (5% discount given to the users for payment through pre-paid cards, e-wallets, payment gateways, etc., except cash payments) - (service charges to be*

paid to bank or e-wallet gateway etc. for bookings made through Mobile App or smart online web-based portal application)" as per the requirement of the RFP document in terms of modified clause 3.8.1 of the RFP document.

TEC is of the view that such error of not mentioning the gross revenue by M/s Neptune India Ltd., seems to be a typographical mistake, and may be ignored.

11 TEC would like to emphasis to the fact that no one in general parlance offers anything more than what has been asked for. The ignorance of typographical errors as recommended by the TEC in Para 10 above is due to the fact that these two bidders were neither supposed to quote the minimum concession fee nor the method of calculation of gross revenue, and to the fact that why should these bidders propose anything above such requirements. If they would like to quote something more, they could have quoted higher percentage of gross revenue to be shared with NDMC rather than making such mistakes, which is the ultimate criteria for selection after qualifying the technical round.

12 Both of these parameters are also not part of the comparison of the financial bid. So, the Technical Evaluation Committee has examined whole the matter in details and decided to recommend to the Council to ignore the typographical mistake made by both the technically qualified bidders. TEC, therefore, considered the financial bids of both the applicants and the percentage revenue quoted by both the firms as valid for comparison as per clause no. 5.4.2.2 & 5.4.2.3 of the RFP documents.

13 TEC further observed the following w.r.t. the instant RFP:

- (vii) At present most of the parking lots in NDMC area are being run by DIMTS (i.e. 94 numbers);
- (viii) As per information received from the Enforcement Department, NDMC received revenue from DIMTS for these 94 number of parking lots of Rs. 2.6 Crore (for the period of April 2014 to Sept. 2015) i.e. for 18 months which becomes Rs. 1.73 Crore annually (refer NP-03);
- (ix) out of 94 parking lots with DIMTS, 67 numbers of parking lots with DIMTS has been taken up under this RFP document;
- (x) this RFP proposal consists of total 87 nos. parking lots [67 parking lots with DIMTS, 3 underground parkings (Palika Parking, Shivaji Stadium, and Baba Kharak Singh parking in front of Emporia building), and 17 newly identified places at which there is no parking contract given by NDMC as on date but unauthorised parking of vehicles going on];
- (xi) at present, revenue being paid by DIMTS to NDMC for these 67 parking lots is much less than as proposed in RFP;

- (xii) further NDMC is also bearing expenses incurred on staff deployed by NDMC for running of underground Palika Parking were costing in lakhs annually, excluding energy consumption, regular upkeepment and maintenance charges and security staff deployed through private agency. The total amount received by NDMC from underground Palika parking for the year 2013-2014 and 2014-2015 were Rs.67.00 Lakh and Rs. 78.00 Lakh respectively.

14 In the present proposal, the highest revenue to be paid by the H-1 Concessionaire viz. M/s Building Control Solutions (I) Pvt. Ltd., for 87 parking lots will be 52% of the Gross revenue subject to a minimum concession fees of Rs. 9.00 Crore only (Rs. 75,00,000/- per month). TEC further observed that in this proposal, NDMC is not investing any capital investment and Concessionaire will invest, implement, maintain and operate the complete system throughout the concession period as per SLAs defined in the RFP and H-1 concessionaire will also pay 52% revenue received per month subject to minimum Rs. 75,00,000/- per month to be paid to NDMC.

15 A decision on the parking lots in the Inner, middle and outer Circle of Connaught Place included in the RFP need to be taken in view of the proposed *pedestrianization* of Connaught Place. Accordingly, it is proposed that following may be specifically mentioned in the LOI to be issued to the H-1 bidder:

"The availability of parking lots included in the Inner and Middle Circle of the Connaught Place will be subject to finalisation of pedestrianization plans being undertaken in NDMC while the NDMC will try to minimise the reduction in parking area in Inner & Middle Circle of Connaught Place, as mentioned in the RFP, however, this will not creates any right in favour of the successful applicant at any stages. NDMC reserves the right to withdraw parking lots situated at inner, middle and outer circle of Connaught Place only for the purpose of implementation of pedestrianisation of Connaught Place area."

16 In view of the position elaborated above, the Technical Evaluation Committee recommends that the proposal for accepting the offer of highest applicant i.e. "M/s Building Control Solution (I) Pvt. Ltd. (Single Company)", subject to the condition mentioned in Para 15 above, for consideration and approval of the competent authority viz. the Council. While placing the agenda before the Council in the regard, TEC is of the view that the typographical errors of both the technically qualified bidders as recorded in Para 10 above, alongwith recommendation of the TEC thereon, shall be mentioned in the Agenda for consideration of the Council.

Copy of Reso. No. 15(B-28)
of
Council Ordinary Meeting
Dated 02-03-2017

ITEM NO. 15 (B-28)

1. Name of the Project:

Request for Proposal for Selection of System Integrator for NDMC Smarty City Project "Design, Development, Implementation, Operation and Maintenance of Command and Control Centre & Data Center, Collaboration solution for meetings & virtual education and integration with various Smart City/NDMC Applications".

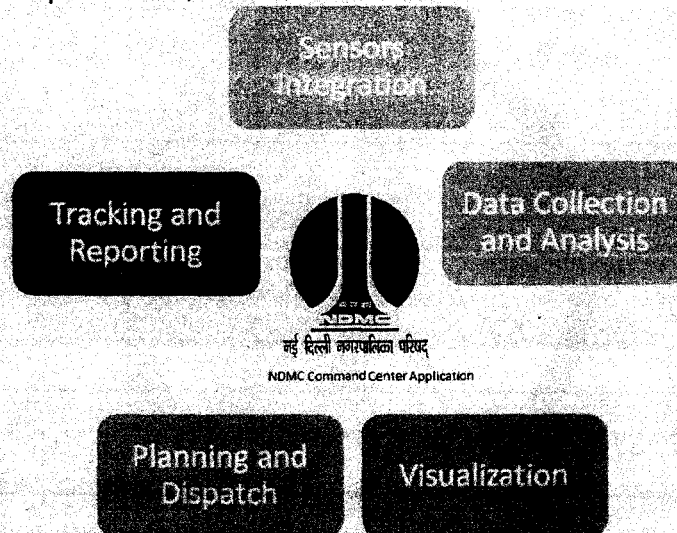
2. Name of the Department concerned:-

Electrical Engineering Department (Zone-I)

3. Brief History of the Project:-

NDMC has been selected by the Ministry of MOUD, Govt. of India as one of 1st 20 Smart Cities under the Smart City Mission. As a part of Smart City initiatives a Command & Control Centre has to be created which will act as a integrated centre for all type of services.

The vision of the NDMC is to provide Integrated City Operations Platform (ICOP) with combination of Command and Control, Data Visualisation and Sensor Integration technologies into a Common Operating Picture that improves whole communities' response to and management of planned and unplanned events, and builds the capability and resiliency of agencies charged with citizen safety, infrastructure protection, and relief activities.



The ICOP technology platform and capability enables diverse information sources to be shared and used for accurate and timely decision-making. GIS capability of the integrated command and control center will leveraged the NDMC with Incident Management, Correlation, Alarm Management, Dispatch Capability and tracking of Incident. It allows responding agencies to take advantage of detection and prediction technologies that can use all available and relevant data, and support decision-making in the wider context of the situation as it is now and as it might unfold.

The ICOP may be staffed continuously, or opened only when required by operational procedures. The latter situation means that the centre and the personnel that will be running it need to be ready at short notice. This in turn implies that the ICOP technology platform will be cost-effective to maintain and the need for complex staff training and retraining kept to a minimum. The integrated operations centre allows responding agencies to:

- See and make sense of what's happening.
- Utilize a shared platform for collaborative decision-making.
- Cooperatively manage tools and resources, allocate tasks, and issue notifications.

The success of an integrated operations centre will be measured by the ability of decision-makers to have access to the information they need to allow them to make decisions in collaboration with other decision-makers and stakeholders. They will be presented with their own tailored views or slices of the common operating picture, updated and refreshed together with the views of other operators throughout the solution. Access to sensitive information will be managed through robust identity management and formal trust relationships that are aligned with legislated powers.

The ICOP shall be working in a fully automated environment for optimized monitoring, regulation and enforcement of traffic with various law enforcement services. Integration with other business systems applications/ modules that provide the transformation capabilities to do whatever is needed. The inherent capability of the same ICOP will provide the middleware to integrate sub system defined in RFP but not limited to-

The application specified in this RFP shall be integrated into one functional system and shall be accessible by the operators and concerned agencies with necessary login credentials. The integration with such systems will be in the scope of the System Integrator.

4. Detailed proposal of the Project:-

Command & Control Centre and Data Centre.

- A. The system integrator will provide the architectural design and interior design for Command & Control Centre (CCC) and Data Centre for the space allocated by NDMC. NDMC will approve the design of the CCC & Data centre. Based on the approved design the system integrator has to do the civil (flooring, false ceiling, wall panelling, creation of viewing gallery, space for video wall), electrical works, cabling (electrical & data cables), furniture and air-conditioning works for CCC & Data centre.
- B. Supply, installation and commissioning of necessary hardware, software items for setting up of CCC & DC as per scope define in the RFP.
- C. Seamless integration of following smart services and solution is desired: Command & Control software offered by SI should provide APIs and integrate with the following services from Day 1 for this project. System Integrator will integrate all these modules. Following Services should be considered as part of this RFP:
 - 1) Smart LED Street Lights
 - 2) Sensor Based & Camera Based Smart Parking for 15000 ECS whole of the NDMC area.
 - 3) Water-SCADA & Smart Water Metering
 - 4) Electricity-SCADA & Smart Electric Metering
 - 5) Property Tax
 - 6) Smart Classroom
 - 7) Surveillance using CCTV
 - 8) NDMC App 311
 - 9) Centralized Control of Variable Messaging Sign (VMS) (existing – 3 Nos.; new – 5 Nos.) markets, digital interactive panels-75 Nos.)

- 10) Building Plan Approval
- 11) Accounts Module (e-fin module)
- 12) Legal Module
- 13) e-hospital
- 14) GPS (Garbage vehicle, C&D waste, municipal vehicles, mechanical sweepers, water tankers etc.)
- 15) e-office (including e-dak)
- 16) Public Wi-Fi
- 17) Estate License/ License fee module
- 18) Citizen Interactive Kiosks for Urban Service Delivery
- 19) Environmental Monitoring (sensor based)
- 20) Smart Waste Management (sensor and GPS based)
- 21) Billing of Electricity & Water (Commercial Department)
- 22) Event Management-(Venue Booking, Bharat Ghar Booking and other events)
- 23) Birth & Death Module
- 24) Health License
- 25) Asset Management
- 26) Material Management and Procurement Management
- 27) Central Workshop Management
- 28) HRMS including pay roll and pension, Biometric Attendance

Integration requirements for initiatives/services proposed in future by the NDMC, which are not mentioned above will be dealt as change request mechanism, if required by the NDMC.

D. Collaboration solution for Administrative Meeting and Virtual Education Solution

The solution shall be used for administrative meetings by NDMC at many instances, which will help reduce travel, faster decision making & save time. Also it would provide virtual classrooms in schools for the purpose of distance learning and remote education.

E. Enhancement and integration of Property tax Application Module

With the aim of digitizing all services NDMC wants to rollout a comprehensive module for property tax which would have all data pertaining to the property. Consumers can also verify, assess the data and also at the same time make payments for the same.

The major functions of these applications would be as follows:

- Property tax assessment.
- Web Portal
- Online transactions
- Tax Generation as per Rate Chart
- Tax Exemptions
- Demand Notice Generation
- Rebate assessment
- E-Mail / SMS gateway

F. VMS Display System

In the digital era it becomes more significant for NDMC to create awareness of services being offered by NMDC. VMS Display System play a pivotal role in showcase such services and also reaching out to its consumers in the most effective form and manner. VMS Display System will not only serve the purpose of creating awareness by citizen service announcement, awareness programmes, but will also help drawing revenue by means of advertisements.

RFP document has been prepared based on the above scope of work. The draft RFP document is enclosed as Annexure-I (See pages 108 – 317) for consideration of the council. However, the same will be floated for invitation of bids but if required certain modification in the same will be done by a Committee headed by the Secretary, NDMC and consisting of Financial Advisor and concerned head of department.

Preceding & Pre-bid will be the part of the RFP. Based on the queries raised in the pre-bid, if certain modification in any condition will be required than the same will be done by the above mentioned Committee. After receiving and evaluating the bids, the case will be placed before the council for award of work.

5. FINANCIAL IMPLICATIONS OF THE PROJECT:

Approximate value of the project will be Rs. 65 Crores. However, final cost will be derived from the outcome of the bids received. Since, such type of project involves many integration efforts.

6. IMPLEMENTATION SCHEDULE WITH TIMELINESS FOR EACH STAGE INCLUDING INTERNAL PROCESSING.

- (viii) To award the work and execution of agreement : 90 days
(ix) Implementation of the project within twelve months of signing of agreement as under:

Stage Name	Description	Period
Implementation Stage	Setting up of Command and Control Centre and Data centre (All civil, electrical, air-conditioning works, IT hardware & software)	Up to 6 months from the date of signing of contract agreement.
	Integration and commissioning of 1/3 rd services defined in section 15 of RFP.	Up to 6 months from the date of signing of contract agreement.
	Integration and commissioning of 2/3 rd services defined in section 15 of RFP.	Up to 9 months from the date of signing of contract agreement.
	GO-LIVE (Integration and commissioning of 100% services defined in section 15 of RFP).	Up to 12 months from the date of signing of contract agreement.
Operation and Maintenance Stage (Post Implementation Stage)		Period of five (5) years from the date of GO-LIVE.

7.(a) FINAL COMMENTS OF THE FINANCE DEPARTMENT ON THE SUBJECT WITH DIARY NUMBER & DATE.

The proposal will be processed for approval of finance deptt. separately.

7.(b) COMMENTS OF THE DEPARTMENT ON THE COMMENTS OF THE FINANCE DEPTT.

No comments.

8. LEGAL IMPLICATION OF THE SUBJECT/PROJECT:

No legal implication is involved.

9. DETAILS OF PREVIOUS COUNCIL RESOLUTIONS, EXISTING LAW OF PARLIAMENT AND ASSEMBLY ON THIS SUBJECT:

Council Resolution No.21(B-11) dt. 02-03-2016, 05(A-03) dt 26-04-2016 and 05(B-12) dated 05-09-2016.

10. FINAL COMMENTS OF THE LAW DEPARTMENT ON THE SUBJECT/PROJECT:

Not required since it is only AIP.

11. CERTIFICATION BY THE DEPARTMENT THAT ALL CENTRAL VIGILANCE COMMISSION (CVC) GUIDELINES HAVE BEEN FOLLOWED WHILE PROCESSING THE CASE.

It is certified that all Central Vigilance Commission (CVC) guidelines will be followed while processing the case.

12. RECOMMENDATIONS:

The case is placed before the Council for consideration and approval for :-

- i). Approval in principle to invite the RFP for this project.
- ii). To invite RFP in anticipation to the confirmation of the minutes of the Council Meeting.

13. DRAFT RESOLUTION:

COUNCIL'S DECISION

Deferred. The next Council meeting is scheduled at 09:30 a.m. on 06.03.2017.

K. Shrivastava
 For Secretary
 New Delhi Municipal Council
 Patika Kendra, New Delhi

*Request for Proposal for Selection of System Integrator for NDMC Smarty City Project
"Design, Development, Implementation, Operation and Maintenance of Command and
Control Centre & Data Center, Collaboration solution for meetings & virtual education
and integration with various Smart City/NDMC Applications".*



NEW DELHI MUNICIPAL COUNCIL (NDMC)
PALIKA KENDRA, NEW DELHI

Disclaimer

The information contained in this Request for Proposal document ("RFP document") or subsequently provided to Applicant(s), whether verbally or in documentary or in any other form, by or on behalf of New Delhi Municipal Council (hereafter referred to as "NDMC") or any of its employees or advisors, is provided to the Applicant(s) on the terms and conditions set out in this RFP document and all other terms and conditions subject to which such information is provided in writing.

This RFP document is intended to be and is hereby issued only to the prospective Applicants. The purpose of this RFP document is to provide the Applicant(s) with information to assist the formulation of their Proposals. This RFP document does not purport to contain all the information that each Applicant may require. This RFP document may not be appropriate for all persons, and it is not possible for the NDMC, its employees or advisors to consider the investment objectives, financial situation and particular needs of each Applicant who reads or uses this RFP document. The assumptions, assessments, statements and information contained in the RFP document may not be complete, accurate, adequate or correct. Each Applicant should, therefore, conduct its own investigations and analysis and should check the accuracy, adequacy, correctness, reliability and completeness of the assumptions, assessments, statements and information contained in this RFP document and where necessary obtain independent advice from appropriate sources. The NDMC, its employees and advisors make no representation or warranty and shall incur no liability under any law, statute, rules or regulations as to the accuracy, adequacy, correctness, reliability or completeness of the RFP document.

Information provided in this RFP document to the Applicant(s) is on a wide range of matters, some of which may depend upon interpretation of law. The information given is not intended to be an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. The NDMC accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on law expressed herein.

The NDMC, its employees and advisors make no representation or warranty and shall have no liability to any person, including any Applicant under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this RFP document or otherwise, including the accuracy, adequacy, correctness, completeness or reliability of the RFP document and any assessment, assumption, statement or information contained therein or deemed to form part of this RFP document or arising in any way for participation.

The NDMC also accepts no liability of any nature whether resulting from negligence or otherwise howsoever caused arising from reliance of any Applicant upon the statements contained in this RFP document.

The NDMC may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information, assessment or assumptions contained in this RFP document before the last date of bid submission.

The issue of this RFP document does not imply that the NDMC is bound to select an Applicant or to appoint the selected Applicant or Concessionaire, as the case may be, for the Project and the NDMC reserves the right to reject all or any of the Applicants or Bids without assigning any reason whatsoever.

The Applicant shall bear all its costs associated with or relating to the preparation and submission of its Bid including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by the NDMC or any other costs incurred in connection with or relating to its Bid. All such costs and expenses will remain with the Applicant and the NDMC

shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by an Applicant in preparation or submission of the Bid, regardless of the conduct or outcome of the Bidding Process.

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Abbreviations & Definitions

NDMC	New Delhi Municipal Council
Act	The New Delhi Municipal Council Act, 1994
Applicant/Supplier/Seller	A company registered under Indian Companies Act, 1956 or a partnership firm registered under Partnership Act or a proprietorship firm.
Bidding Document	Documents issued by the procuring entity, including any amendments thereto, that set out the terms and conditions of the given procurement and includes the invitation to bid
Authorised Signatory	The Applicant's representative/ officer vested (explicitly, implicitly, or Signatory through conduct) with the powers to commit the authorizing Organization to a binding agreement. Also called signing officer/authority having the Power of Attorney (PoA) from the competent authority of the respective Bidding firm.
Bid	A formal offer made in pursuance of an invitation by a procuring entity and includes any tender, proposal or quotation in electronic format
Security Deposit	A security provided to the procuring entity by a Applicant for securing the Deposit fulfillment of any obligation in terms of the provisions of the bidding documents
BOQ	Bill of Quantity
SI	System Integrator
CCC	Command and Control Centre
DC ²	Data Centre
BG	Bank Guarantee
PAN	Permanent Account Number
PBG	Performance Bank Guarantee
SLA	Service Level Agreement is a negotiated agreement between two parties wherein one is the customer and the other is the service provider. It is a service contract where the level of service is formally defined. In practice, the term SLA is sometimes used to refer to the contracted delivery time (of the service) or performance.
VAT	Value Added Tax/ Central VAT
EMD	Earnest Money Deposit
LOA	Letter of Acceptance
O&M	Operation & Maintenance

1. Invitation for Proposal

1.1 Name of the Work: Request for Proposal for Selection of System Integrator for NDMC Smarty City Project "Design, Development, Implementation, Operation and Maintenance of Command and Control Centre & Data Center, Collaboration solution for meetings & virtual education and integration with various smart city/ NDMC Applications".

NDMC hereby invites bids for Selection of a System Integrator for the following works

- (i) For design, supply and Installation & maintenance of civil, interior decoration, furniture, electrical, air-conditioning works for setting up of Command & Control Centre and Data Center.
- (ii) Design, supply and Installation & maintenance of Central Command & Control Centre (CCC) and Data Centre with appropriate hardware and software for viewing, analyzing, storing and retrieval of the data for various Application and services defined in this RFP.
- (iii) Design, supply and Installation & maintenance of VMS Display Systems, collaboration solution for administrative meetings and virtual education solutions.
- (iv) Enhancement, integration and maintenance of property tax application,
- (v) Integration of CCC software with various Smart City/NDMC Applications.

The detailed scope of work is set out in the RFP document.

1.3 Applicant/Agencies are advised to study this RFP document carefully before submitting their bid/proposals in response to the RFP document. Submission of apropos in response to this notice shall be deemed to have been done after careful study and examination of this document with full understanding of its terms, conditions, implications and after assessment of the project viability.

1.4 The RFP document can be obtained after depositing a Demand Draft of Rs.10,000 (Rupees Ten Thousand only) drawn in favour of "Secretary NDMC" payable at Delhi/New Delhi from the office, details of which are given below. The RFP document has been uploaded on NDMC's website. In case of downloaded RFP document, the Applicant is required to deposit a Demand Draft of Rs.10,000/- drawn in favour of "Secretary NDMC" payable at Delhi/New Delhi while submitting the bid.

Office of the Executive Engineer
Room No.1503, 15th Floor,
New Delhi Municipal Council
Palika Kendra
New Delhi - 110001
Tel No:- 011-23348418
Email: to be added

All subsequent notifications, changes and amendments will be uploaded on the NDMC's website.

1.5 A three-envelope selection procedure shall be adopted as detailed in the RFP document.

1.6 Applicant (authorized signatory) shall submit its offer for preliminary qualification, technical and financial proposal. However, Tender Document Fees, and Earnest Money Deposit (EMD) should be deposited as per details provided in the bid document. The bid document complete in all respect is to be deposited on or before the time of last date of submission of bid. NDMC will not be responsible for delay in submission due to any reason.

1.7 Key Events and Dates

S.No.	Information	Details
1.	Advertising Date	to be added

2.	Last date to send in requests for clarifications	to be added
3.	Date, Time and Place of Pre-Bid conference	NDMC Conference Hall, 3 rd Floor, Palika Kendra, New Delhi- 110001
4.	Release of response to clarifications would be available at	www.ndmc.gov.in
5.	Last date and time for submission of bids (Bid Due Date)	to be added
6.	Technical Bid Opening Date & Time	to be added
7.	Date for Presentation	To be informed
8.	Financial Bid Opening Date & Time	To be informed
9.	Address for communication and hard copy submission of documents / correspondence	Executive Engineer Civil Engineering Department, 15 th floor, Room No. 1503, Palika Kendra, New Delhi-110001 Phone:- 011-23348418

1.8 Other Important Information Related to Bid

S. No.	Item	Description
1.	Earnest Money Deposit (EMD) – Online	Rs. 1.00 Cr. (Rupees One Crore Only)
2.	RFP document fee	Rs. 10,000 (Rupees Ten Thousand Only)
3.	Bid Validity Period	(180) One-hundred-and eighty days from the date of opening of Bids.
4.	Last date for furnishing Performance Bank Guarantee to NDMC (By preferred Applicant)	Within Fifteen (15) days of the date of issue of Letter of Acceptance (LOA).
5.	Performance Bank Guarantee value (Performance Bank Guarantee)	10% of the tender value.
6.	Performance Bank Guarantee (PBG) validity period	PBG shall be valid till for 180 days beyond the term of the concession period of five years from the date of GO-LIVE.
7.	Last date for signing the Concession Agreement	15 days from the date of issue of Letter of Acceptance.

2. NDMC'S OVERVIEW

2.1 About New Delhi Municipal Council (NDMC)

NDMC is one of the five urban local body in National Capital Territory of Delhi. It has its origins in the Imperial Delhi Committee, which was constituted on 25 March 1913 to overlook the construction of the new capital of India. The administrative area under the New Delhi Municipal Council comprises of 42.7 sq. km. The NDMC is governed by a Council by a 13 member Council. The Council Members includes the Member of Parliament of New Delhi Parliamentary Constituency, the Member of Legislative Assembly of New Delhi and Delhi Cantonment Assembly Constituency.

NDMC consists of nearly 3% of the area and 2.5 lakh of the resident population of National Capital Territory of Delhi. However, there is about 16-20 lakhs floating population in daytime which possess challenges for managing the civil services in NDMC area.

NDMC is a seat of the head of the Federal Legislature, Executive and the Judiciary. The NDMC region comprises of Lutyen's Delhi, the area which was historically come was regarded as the centre of Central in Union of India. It also consists of important buildings such as Rashtrapati Bhawan, Parliament House, Supreme Court, North and South Blocks and others. In addition to this, NDMC area also comprises of the embassy area. The strategic geo-political location of the NDMC area and its history makes the area extremely important for the country. Efficient functioning of the municipal body is, thus, extremely important for the country.

2.2 NDMC's main responsibilities are –

- Providing basic civic amenities
- To manage its own assets and collection of Property Tax
- Building Regulation
- Registration of Birth and Death
- Construction, and maintenance of municipal markets and regulation of trades
- Sanitation & Public Health
- Maintenance of public parks, gardens or recreational centres

NDMC is one of the few local bodies in the country who is financial self-reliant. It is also a distribution company for water and electricity and its municipal solid waste is 100% scientifically disposed of.

2.3 NDMC'S TRANSFORMING INTO A SMART CITY

NDMC has been one of the first city to initiate Smart City projects which inter-alia include city-wide wi-fi services in the Connaught Place and Khan Market area, Multi-tier automatic parking system at Sarojini Nagar and Baba Kharak Singh Marg, a multi utility (Service corridor) duct of about 1.2 km in the Connaught Place area and e-governance initiatives such as on-line payments for electricity-water bills, property taxes and other online services such as citizen complaint centers, hospital data of birth and death, electricity water connections. NDMC is also taking big strides in moving to mobile platform for rendering citizen services.

NDMC has been selected by the Ministry of Urban Development (MoUD), Government of India as one of the 20 Smart Cities under the Smart City Mission.

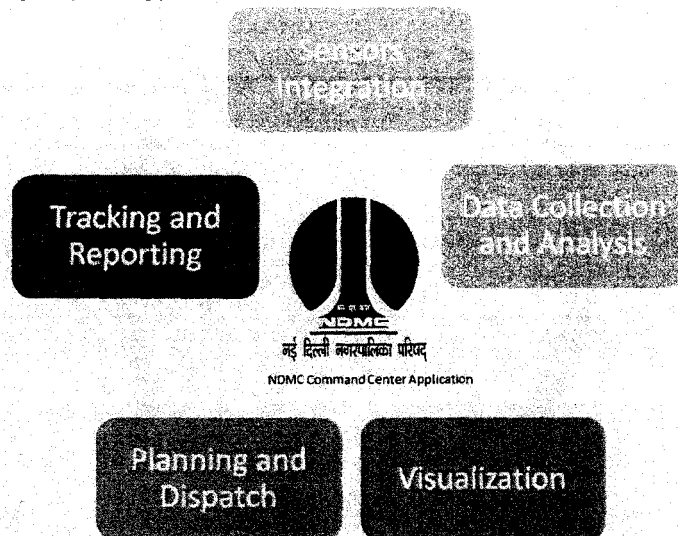
The vision for NDMC Smart City has been formulated based on the strategic blueprint and the needs and aspirations articulated through the stakeholder consultations. NDMC Vision for Smart City is thus:

"To be the Global Benchmark for a Capital City"

3. PROJECT OBJECTIVE & SCOPE

3.1 Project Objective

The vision of the NDMC is to provide Integrated City Operations Platform (ICOP) with combination of Command and Control, Data Visualisation and Sensor Integration technologies into a Common Operating Picture that improves whole communities' response to and management of planned and unplanned events, and builds the capability and resiliency of agencies charged with citizen safety, infrastructure protection, and relief activities.



The ICOP technology platform and capability enables diverse information sources to be shared and used for accurate and timely decision-making. GIS capability of the integrated command and control center will leveraged the NDMC with Incident Management, Correlation, Alarm Management, Dispatch Capability and tracking of Incident. It allows responding agencies to take advantage of detection and prediction technologies that can use all available and relevant data, and support decision-making in the wider context of the situation as it is now and as it might unfold.

The ICOP may be staffed continuously, or opened only when required by operational procedures. The latter situation means that the centre and the personnel that will be running it need to be ready at short notice. This in turn implies that the ICOP technology platform will be cost-effective to maintain and the need for complex staff training and retraining kept to a minimum.

The integrated operations centre allows responding agencies to:

- See and make sense of what's happening.
- Utilize a shared platform for collaborative decision-making.
- Cooperatively manage tools and resources, allocate tasks, and issue notifications.

The success of an integrated operations centre will be measured by the ability of decision-makers to have access to the information they need to allow them to make decisions in collaboration with other decision-makers and stakeholders. They will be presented with their own tailored views or slices of the common operating picture, updated and refreshed together with the views of other operators throughout the solution. Access to sensitive information will be managed through robust identity management and formal trust relationships that are aligned with legislated powers.

The ICOP shall be working in a fully automated environment for optimized monitoring, regulation and enforcement of traffic with various law enforcement services. Integration with other business systems applications/ modules that provide the transformation capabilities to do whatever is needed. The inherent capability of the same ICOP will provide the middleware to integrate sub system defined in RFP but not limited to-

The application specified in this RFP shall be integrated into one functional system and shall be accessible by the operators and concerned agencies with necessary login credentials. The integration with such systems will be in the scope of the SI.

3.1.1 Command & Control Centre and Data Centre.

- G. The system integrator will provide the architectural design and interior design for Command & Control Centre (CCC) and Data Centre for the space allocated by NDMC. NDMC will approve the design of the CCC & Data centre. Based on the approved design the system integrator has to do the civil (flooring, false ceiling, wall panelling, creation of viewing gallery, space for video wall), electrical works, cabling (electrical & data cables), furniture and air-conditioning works for CCC & Data centre.
- H. Supply, installation and commissioning of necessary hardware, software items for setting up of CCC & DC as per scope define in the RFP.

3.1.2 Command & Control Centre and Data Centre.

Seamless integration of following smart services and solution is desired: Command & Control software offered by SI should have provision for integration with the following services from Day 1 for this project. SI will integrate all these modules. Following Services should be considered as part of this RFP:

- 29) Smart LED Street Lights (for 21000 LEDs)
- 30) Sensor Based & Camera Based Smart Parking for 15000 ECS whole of the NDMC area.
- 31) Water-SCADA & Smart Water Metering (for 35000 water meters)
- 32) Electricity-SCADA & Smart Electric Metering (for 90000 Electric meters)
- 33) Property Tax
- 34) Smart Classroom
- 35) Surveillance using CCTV (for approximately 2000 camera)
- 36) NDMC App 311
- 37) Centralized Control of Variable Messaging Sign (VMS) (existing – 3 Nos; new – 5 Nos' markets, digital interactive panels-75 Nos.)
- 38) Building Plan Approval
- 39) Accounts Module (e-fin module)
- 40) Legal Module
- 41) e-hospital
- 42) GPS (Garbage vehicle, C&D waste, municipal vehicles, mechanical sweepers, water tankers etc.)
- 43) e-office (including e-dak)
- 44) Public Wi-Fi
- 45) Estate License/ License fee module
- 46) Citizen Interactive Kiosks for Urban Service Delivery
- 47) Environmental Monitoring (sensor based)
- 48) Smart Waste Management (sensor and GPS based)
- 49) Billing of Electricity & Water (Commercial Department)
- 50) Event Management-(Venue Booking, Bharat Ghar Booking and other events)
- 51) Birth & Death Module
- 52) Health License
- 53) Asset Management
- 54) Material Management and Procurement Management
- 55) Central Workshop Management
- 56) HRMS including pay roll and pension, Biometric Attendance

APIs requirement for initiatives/services proposed in future by the NDMC, which are not mentioned above will be dealt as per Clause 3.5.6, if required by the NDMC.

3.1.3 Collaboration solution for Administrative Meeting and Virtual Education Solution

The solution shall be used for administrative meetings by NDMC at many instances, which will help reduce travel, faster decision making & save time. Also it would provide virtual classrooms in schools for the purpose of distance learning and remote education.

3.1.4 Enhancement and integration of Property tax Application Module

With the aim of digitizing all services NDMC wants to rollout a comprehensive module for property tax which would have all data pertaining to the property. Consumers can also verify, assess the data and also at the same time make payments for the same.

The major functions of these applications would be as follows:

- Property tax assessment.
- Web Portal
- Online transactions
- Tax Generation as per Rate Chart
- Tax Exemptions
- Demand Notice Generation
- Rebate assessment
- E-Mail / SMS gateway

3.1.5 VMS Display System

In the digital era it becomes more significant for NDMC to create awareness of services being offered by NDMC. VMS Display System play a pivotal role in showcase such services and also reaching out to its consumers in the most effective form and manner. VMS Display System will not only serve the purpose of creating awareness by citizen service announcement, awareness programmes, but will also help drawing revenue by means of advertisements.

Detailed scope defined in Volume-II

3.2 Project Scope

3.2.1 Centralized Command and Control Center

For centralized monitoring and decision making as per the scope defined below:

3.2.1.1 Components:

- i. Net work and Security Management Solution
- ii. Centralized System for Security Solution
- iii. Core Computing and Data Processing infrastructure
- iv. Integration with Third Party Shared Services
- v. Managed hosted Data Center (DC) at NDMC premises. Necessary Civil, Electrical work including furniture, including Air-conditioning for Data Centre, and Command & Control Centre.

3.2.1.2. In brief the Central command control will be the nodal point of availability of all online data and information related to smart services like LED lighting, CCTV cameras, air quality sensors, Smart Parking system, Wi-Fi , electricity and water SCADA, GIS, Electric and water meters, e-hospitals etc.

3.2.1.3. Command Control Centre will be established with all hardware, software and network infrastructure including switches and routers and will be maintained by the system integrator throughout the operation and maintenance period. Alongside setting up workstation consoles as well

The system integrator will give the space requirement within one month from the date of signing of the agreement. Accordingly, NDMC will provide the space in Palika Kendra or at any other location.

3.2.1.4. Necessary Civil, Electrical work including furniture, including Air-conditioning shall be the responsibility of SI for Data Centre, and Command & Control Centre. DC and CCC can be in same premises or at different locations.

The system integrator will give the Architectural Design showing Civil, Electrical, furniture, Air-conditioning and all other work for Data Centre and CCC within two months from the date of signing of the agreement. Accordingly, NDMC will approve the same or suggest some modifications there after the SI will execute the Civil, Electrical works and provide furniture, including the Air-Conditioning works within a reasonable time.

Detailed functional and technical requirement is mentioned in section 15

3.2.2 Centralized Command and Control Center for centralized monitoring and decision making as per the scope defined below:

3.2.3.1. Components:

- vi. Net work and Security Management Solution
- vii. Centralized System for Security Solution
- viii. Core Computing and Data Processing infrastructure
- ix. Integration with Third Party Shared Services
- x. Managed hosted Datacenter (DC) at NDMC premises. Necessary Civil, Electrical work including furniture and Air-conditioning for Data Centre, and Command & Control Centre.

3.2.3.2. In brief the Central command control will be the nodal point of availability of all online data and information related to smart LED lighting, CCTV cameras, Wi-Fi, sensors, Smart Parking system and connected to NDMC network of services.

3.1.2 Seamless integration of Command and Control Centre software.

Seamless integration of following smart services and solution is desired:

Command & Control software offered by SI should provide APIs for the following services from Day 1 for this project. SI will integrate all these modules. Following Services should be considered as part of this RFP:

- 1) Smart LED Street Lights (for 21000 LEDs)
- 2) Sensor Based & Camera Based Smart Parking for 15000 ECS whole of the NDMC area.
- 3) Water-SCADA & Smart Water Metering
- 4) Electricity-SCADA & Smart Electric Metering
- 5) Property Tax
- 6) Smart Classroom
- 7) Surveillance using CCTV (for approximately 2000 camera)
- 8) NDMC App 311
- 9) Centralized Control of Variable Messaging Sign (VMS) (existing – 3 Nos; new – 5 Nos' markets, digital interactive panels-75 Nos.)
- 10) Building Plan Approval
- 11) Accounts Module (e-fin module)
- 12) Legal Module
- 13) e-hospital
- 14) GPS (Garbage vehicle, C&D waste, municipal vehicles, mechanical sweepers, water tankers etc.)
- 15) e-office (including e-dak)
- 16) Public Wi-Fi
- 17) Estate License/ License fee module
- 18) Citizen Interactive Kiosks for Urban Service Delivery
- 19) Environmental Monitoring (sensor based)
- 20) Smart Waste Management (sensor and GPS based)
- 21) Billing of Electricity & Water (Commercial Department)
- 22) Event Management-(Venue Booking, Bharat Ghar Booking and other events)
- 23) Birth & Death Module

- 24) Health License
- 25) Asset Management
- 26) Material Management and Procurement Management
- 27) Central Workshop Management
- 28) HRMS including pay roll and pension, Biometric Attendance

APIs requirement for initiatives/services proposed in future by the NDMC, which are not mentioned above will be dealt as per Clause 3.5.6, if required by the NDMC.

3.2.4. Collaboration solution for Administrative Meeting and Virtual Education Solution

3.2.4.1 NDMC requires IP based full high definition 1080p video conferencing solution to be implemented in NDMC conference rooms, meeting rooms and executive desktop solutions. The solution shall be used for administrative meetings by NDMC at many instances, which will help NDMC reduce travel, faster decision making, save time.

3.2.4.2 NDMC requires Virtual Education to connect all the NDMC schools on an IP based collaboration technology for virtual classrooms for the purpose to distance learning and remote education. Presently one classroom per school shall be enabled for remote education through collaboration based virtual classroom based solution. Detailed functional and technical requirement is mentioned in section 15.

3.2.5 Enhancement and integration of Property tax Application Module

NDMC requires to Enhancement and integration of module related to property tax. The broad function of this module would be to have all services of property tax like property assessment, rate chart, rebate, exemptions, payment transactions etc.

In addition to above, further scope of work, including functional requirements and technical specifications, has been provided in the RFP document at **Clause 15.6**

3.2.6 VMS Display System

The proposed VMS Display System is envisaged keeping In mind digital campaign. These system would be installed at places deemed by NDMC for various purposes like advertisements, citizen service announcements, awareness programs etc.

In addition to above, further scope of work, including functional requirements and technical specifications, has been provided in the RFP document at **Clause 15**.

3.2.7 Integration with various Smart City/NDMC Applications.

3.3 The Engagement Mode is bifurcated in to following two stages- (i) Implementation Stage; and (ii) Operation and Maintenance Stage:

Stage Name	Description	Period
Implementation Stage	Setting up of Command and Control Centre and Data centre (All civil, electrical, air-conditioning works, IT hardware & software)	Up to 6 months from the date of signing of contract agreement.
	Integration and commissioning of 1/3 rd services defined in section 15.	Up to 6 months from the date of signing of contract agreement.

	Integration and commissioning of 2/3 rd services defined in section 15.	Up to 9 months from the date of signing of contract agreement.
	GO-LIVE (Integration and commissioning of 100% services defined in section 15).	Up to 12 months from the date of signing of contract agreement.
Operation and Maintenance Stage (Post Implementation Stage)		Period of five (5) years from the date of GO-LIVE.

3.4 NDMC responsibilities (No charges from system integrator)

Responsibility of all consumables will be of the system integrator, except the consumables at DC and CCC (like papers, toners etc.) for which NDMC will bear the cost

All the electricity consumed for providing service to NDMC, will be free of cost.

3.4.1 Minimum space required for installation of Gateway, Switches, Routers etc. for NDMC services will be provided free of cost by NDMC, subject to availability of space.

Minimum space required for installation of UPS for electric power back-up for services under this project may be provided by the NDMC free of cost.

Any Civil/Electrical work required will be the responsibility of the system integrator.

All the equipments required for Command & Control Centre including fibre POP, FMS Rack etc. will be the responsibility of system integrator.

3.4.2 NDMC will provide built-up space, and free electricity for setting up of Command and Control Centre and Data Centre. Built-up space solely for the purpose of storage of spares will be provided by NDMC.

3.4.3 NDMC shall provide single window clearance ("in area where NDMC has full control") to the system integrator for the purpose of this RFP document.

3.4.4 NDMC will provide the updated GIS map. It will be responsibility of the system integrator to integrate it with various services defined in this RFP for proper functioning of all the services in command and control centre.

3.5 System Integrator Responsibilities

The Responsibilities of the System Integrator throughout the operation and maintenance period shall be as indicated under this RFP document, including:

3.5.1 Design, Develop, Implement, Manage, Operations and Maintenance of following services to improve NDMC operation and delivers benefits to citizens:

- Set-up Centralized Command Control, Data Center and Help desk;
- Setup collaboration solution for administrative meetings & virtual education education in schools
- Setup Enhancement and integration of Property Tax module application
- Setup VMS Display System at designated places
- Operation and maintenance of services under this RFP document over the concession period of five years post go-live

Sr. No.	Description of Item/service	Civil, Electrical, Interior, Air-conditioning, Furniture etc.	Supply, installation and commissioning of IT Hardware and Software	Comprehensive Operation & Maintenance by the system integrator including replacement of defective parts, spare parts to be provided by the system integrator. For a period of five years from the date of Go-Live.	Licenses cost for Software including updates to be beared by a system integrator. For a period of five years from the date of Go-Live.	Transfer of assets to NDMC by the system integrator in proper working condition. At the end of period of five years from the date of Go-Live or termination of agreement, whichever is earlier.
1.	Data Centre	Yes	Yes	Yes	Yes	Yes
2.	Central Command and Control Centre	Yes	Yes	Yes	Yes	Yes
3.	Collaboration solution	-	Yes	Yes	Yes	Yes
4.	Enhancement and integration of Property tax module	-	Yes	Yes	Yes	Yes
5.	VMS Display System	-	Yes	Yes	Yes	Yes

3.5.2 For initiatives / services proposed in future by the NDMC which are not covered in this RFP document, if there is any requirement of the additional switches / up-gradation of any hardware/ software / other equipments, the same will be arranged, installed and maintained by the SI on payment basis. NDMC will take competitive rates from third party for such equipments, and the payment will be made to the SI for this additional work by the NDMC at such competitive rates. However, all originally installed equipments / switches / routers shall be maintained by the SI as per terms & conditions of the RFP document.

3.5.3 During the O&M period, the system integrator will maintain minimum 2 % spares of equipments in built-up space provided by the NDMC and manage the same as per the Service Level Agreement (SLA) throughout the concession period.

3.5.4 The system integrator is required to provide adequate battery bank to ensure uninterrupted power supply to services provided to the NDMC under this project

3.5.5 At the end of the O&M period of five years from the date of Go-Live, the system integrator has to hand over all the assets and services belonging to the NDMC in proper working condition. In case of any deficiency noticed at the time of such handing over, the system integrator has to get it rectified at his own cost within 45 days of such handing over otherwise NDMC will get it rectified at the risk and cost of the system integrator. Performance guarantee of system integrator will be released only after successful handing over of the all hardware, software, network and services in working conditions to NDMC.

3.5.6 At the time of Go-Live (i.e. completion of implementation period), the system integrator shall inform the NDMC in writing for the same along-with a list of all the assets (details of equipments, softwares, services etc.) created during the implementation period for the NDMC including their costs. The system integrator shall update such assets list on yearly basis throughout the O&M period.

3.5.7 The system integrator has to take all measures for Cyber security, protection of information and communication technology systems of this project from cyber attacks that are purposeful attempts by unauthorized persons to access ICT systems in order to achieve the target of theft, disturbance, damage, or other illegal actions. The system integrator will detect, analysis and do mitigation of vulnerabilities and protect Data centre and command and control centre from cyber attacks throughout the O&M period.

3.5.8 All the software licenses to be provided by the concessionaire should be enterprise versions or open source based or open standard based, genuine, perpetual, full use and should provide patches, fixes, security patches and updates directly from the OEM, if applicable. All the licenses and support (updates, patches, bug fixes, etc.) shall be in the name of NDMC.

3.5.9 Supply of Hardware and associated Software: All the hardware and software items, peripherals and accessories related to CC & DC as per the detailed BOQ are to be supplied as per the specifications and requirement. All cables, connectors and other accessories required to complete the system integration, must be supplied by the Applicant. Any software (system or otherwise) required to make the system functional must also be provided by the Applicant. All software with necessary licenses supplied for complete integration and commissioning of the project must be provided in the name of NDMC.

3.5.10 Site Survey: Applicant can inspect proposed site for suitability where all hardware/software under the scope of work are to be installed. Applicant shall also come out with details like air-conditioning and UPS requirements for CCC & DC for all the systems to be supplied in the instant case.

The structured network cabling along with necessary accessories is to be carried out at space identified for CCC & DC.

3.5.11 Solution Document: The Applicant has to submit detailed solution document for setting up a CCC & DC with detailed layout diagrams indicating the complete integration of various components in the system. These details are to be submitted for approval of NDMC before commencement of installation and commissioning.

3.5.12 Technical Specifications: All the equipment quoted should meet the technical specifications as per tender requirement. Technical specifications of any other hardware/ software not mentioned in the tender but required to complete the project should also be given.

3.5.13 Cable Laying: All Fiber cables will be laser optimized MMF (LOMMF) OM3 cable, All passive components shall be from one OEM only. No mix and match is allowed.

3.5.14 Installation and Commissioning: The successful Applicant shall undertake installation and commissioning of all the items supplied as per the terms and conditions stipulated in the bid document. The Applicant must provide all the accessories and peripherals viz. cables, cords, connectors, fittings, fixtures etc. required for successful installation and commissioning of the new setup even if the same are not explicitly spelt out in the bid document.

The Applicant shall also supply and install the entire software stack including Operating System, Parallel File System, Back-up & Network Management Software, Libraries,

Compilers, Cluster & System monitoring and management tools and any other software tool required to complete the end-to-end solution.

Also Applicant shall undertake Installation, Commissioning strictly in accordance with recommendations and best practices of OEM and by OEM / OEM certified engineers. Any suggestion from NDMC needs to be incorporated.

3.5.15 Integration: The entire solution must be integrated for redundancy so that there is no single point of failure.

3.5.16 System Familiarization: Applicant shall provide onsite system familiarization to 10 NDMC officers for 10 working days by certified trainer(s) before the acceptance of entire system. Familiarization should cover technical details of all the systems hardware, system software, system configuration and operation. Familiarization is an integral part of the scope of work. System familiarization should cover the following:

- a. Installation, configuration and administration of CCC & DC systems hardware/software
- b. Performance analysis & tuning of system
- c. Operation & Management of the Network System.
- d. Maintenance of the system.
- e. Testing of the System

Note: Comprehensive hardcopy and Soft copy of system familiarization course material must be provided.

3.5.17 Documentation: The Applicant has to provide a Solution Document (both in hardcopy and softcopy) with details of technical specifications, interconnectivity diagrams, physical layouts, configurations details along with maintenance procedures and periodicity of maintenance for the equipment supplied under this tender. This document needs to be provided before the acceptance of the system.

3.5.18 Acceptance Testing: The system, after the integration is completed, will be put on Acceptance tests. As a part of Acceptance Testing, all the components would be powered on for a period of 72 hours before initiating the acceptance procedure. In the acceptance procedure the Applicant has to demonstrate full and documented functionalities and throughput of the system to NDMC team. The handling of the system and basic troubleshooting must be elaborated to the NDMC systems team for smooth day-to-day operations. NDMC system team and user groups will test the system over a period of 5 days. On successful completion of the acceptance test, NDMC will issue Acceptance Certificate.

Note: Performance Throughput of all applications must be demonstrated on desktops as well as video walls

The job of Installation, Integration, Commissioning, System Familiarization and Acceptance as detailed in the scope of work should be completed within 150 days from the date of letter of Intimation from NDMC. All the jobs are required to be carried out during regular office hours of NDMC except in exceptional circumstances.

On successful completion of the entire scope of work as defined above under 1.2 and its sub-clauses, NDMC will issue the Acceptance Certificate.

3.5.19 Post-Completion Liabilities during warranty:

- a) The System Integrator will provide Post-completion onsite comprehensive Warranty for 5 years.
- b) The System Integrator will conduct onsite Major Patch upgrade of Software in consultation with NDMC.

- c) The System Integrator should also provide On-site minimum 3-day Familiarisation /Refresher of hardware/software by OEM-certified Personnel once every year.
- d) The System Integrator has to maintain min. spare in working condition, as recommended by OEM.
- e) The System Integrator has to depute resident Engineers at CCC & DC as per the manpower schedule, during 5 years of comprehensive O&M period. Engineer has to be physically available onsite and also on call/mail 24x7. Engineer should be Certified from OEM. In case Engineer is on leave/non-available due to any reason, an alternate resource with similar experience has to be stationed during that time. However, backend support should be available 24 x 7 x 365 days. If the services of the deputed person is not satisfactory, he/she has to be replaced with competent person with immediate effect by the System Integrator.
- f) Replacement of any defective item during O&M period of five years from the date of GO-LIVE.

4 INSTRUCTIONS TO THE APPLICANTS

This section includes all the important information related to RFP document required to bid for this project.

A. GENERAL

4.1 General Information and Guidelines

- 4.1.1 NDMC invites bids to this Request for Proposals ("RFP document") from eligible Applicants as per the scope of work defined in this RFP document. RFP document means this RFP document, Contract Agreement, supporting annexure / appendices / formats etc., any addenda to this RFP document and all other such documents.
- 4.1.2 Any contract that may result from this bidding process will be effective from the date of Signing of the Contract Agreement and shall, unless terminated earlier in accordance with its terms, continue for a period of five years from date of go-live.
- 4.1.3 The assumptions, assessments, statements and information provided in this RFP document is for the assistance to the Applicants who are expected to carry out their own surveys, investigations and other detailed examination of the Project before submitting their Bids. The Applicant shall visit the site and examine the project in detail for execution of the work and deployment of equipment. Nothing contained in this RFP document shall be binding on the NDMC nor confer any right on the Applicants, and the NDMC shall have no liability whatsoever in relation to or arising out of any or all contents of the RFP document.
- 4.1.4 Applicants may carry out Project Site visits/ inspections at their own cost.
- 4.1.5 The Applicant / Applicant has to ensure that the general public/ tourist/ visitors are not hindered in any manner while survey, execution, operations and maintenance of the project.
- 4.1.6 All information supplied by Applicants may be treated as contractually binding on the Applicants on successful award of the assignment by NDMC on the basis of this RFP document.
- 4.1.7 No commitment of any kind, contractual or otherwise shall exist unless and until a formal written Contract Agreement has been executed by or on behalf of NDMC. Any notification of Preferred Applicant status (including issue of a Letter of Acceptance) by NDMC shall not give rise to any enforceable rights by the Applicant. NDMC may cancel this public procurement at any time prior to a formal written Contract Agreement being executed by or on behalf of NDMC.
- 4.1.8 This RFP document supersedes and replaces any previous public documentation and communications, and Applicants should place no reliance on such communications.
- 4.1.9 The Bid should be furnished clearly indicating the bid amount in both figures and words, in Indian Rupees, and signed by the Applicant's authorized signatory. In the event of any difference between figures and words, the amount indicated in words shall be taken into account.
- 4.1.10 The Applicant shall deposit an Earnest Money Deposit (EMD) of Rs.1.00 crore (Rupees One Crore only) in accordance with the provisions of this RFP document. The Applicant has the option to provide the EMD either as a Demand Draft/Pay order/Bankers Cheque/FDR/TDR/BG in favour of "Secretary, NDMC" payable at Delhi/New Delhi. Bank Guarantee shall be, as per format at Annexure-5.
- 4.1.11 The validity period of the Bank Guarantee shall not be less than 180 (one hundred and eighty) days from the Bid Due Date, inclusive of a claim period of 60 (sixty) days, and may be extended as may be mutually agreed between the NDMC and the Applicant. Where a demand draft is provided, its validity shall not be less than 120 (one hundred and twenty) days from the Bid Due Date, for the purposes of encashment by the NDMC. The Bid shall be summarily rejected if it is not accompanied by the Earnest Money Deposit (EMD). The EMD shall be refundable no later than 60 (sixty) days from the date of issuance of Letter of

Acceptance to the Preferred Applicant except in the case of the Preferred Applicant whose Bid Security shall be retained till it has provided a Performance Security under the Contract Agreement.

- 4.1.12 No Applicant shall submit more than one Application for the Project. An Applicant applying individually or as a member of Consortium shall not be entitled to submit another Application either individually or as a member of any Consortium, as the case may be.
- 4.1.13 The Applicant shall acquaint himself with the proposed site of work, its approach roads, working space available before submitting the bid.
- 4.1.14 The Applicant should submit a Power of Attorney authorizing the signatory of the Application to commit the Applicant.
- 4.1.15 In the case of a Consortium, the Members should submit a Power of Attorney in favour of the Lead Member.
- 4.1.16 If for any reason, any area in whole or part is not available for work, the agreed execution schedule shall be suitably modified. However, under no circumstances the system integrator shall be entitled to any relaxation, whatsoever, on this ground and he shall re-organize his resources to suit the modified schedule.
- 4.1.17 The system integrator shall abide by and comply with all the Applicable Laws and statutory requirements, including Minimum Wages Act 1948, Payment of Wages Act 1936, Contract Labour (Regulation & Abolition) Act 1970, Employees' Provident Funds and Miscellaneous Provisions Act 1952 etc.
- 4.1.18 The project cost on the part of the Applicant would include the cost of hardware, software, civil, electrical works, manpower and other costs. There will be recurring annual cost associated with operation and maintenance of these facilities as per the scope of the work defined in the RFP document.
- 4.1.19 Organizational Structure during Implementation and Operation: The Applicant shall submit its proposed organizational structure during implementation, operation and maintenance stages commensurate with targeted Project Completion Schedule, which will form the basis of Employment Schedule. The Applicant shall also enclose CV's of the key persons including tasks assigned to them.
- 4.1.20 The system integrator shall be responsible for the operations and maintenance as per the terms set out in the RFP document.
- 4.1.21 If during the course of execution of the project any minor revisions to the technical specifications of the command and control centre applications are to be made to meet the goals of the project, such changes shall be carried out without any cost.
- 4.1.22 An Applicant shall be liable for disqualification and forfeiture of Earnest Money Deposit if any legal, financial or technical adviser of the NDMC in relation to the Project is engaged by the Applicant, its Members or any Associate thereof, as the case may be, in any manner for matters related to or incidental to the Project during the Bidding Process or subsequent to the (i) issue of the Letter of Acceptance or (ii) execution of the Contract Agreement. In the event any such adviser is engaged by the Preferred Applicant or system integrator, as the case may be, after issue of the incidental to Project, then notwithstanding anything to the contrary contained herein or in the Letter of Acceptance or the Contract Agreement and without prejudice to any other right or remedy of the NDMC, including the forfeiture and appropriation of the Earnest Money Deposit or Performance Security, as the case may be, which the NDMC may have there under or otherwise, the Letter of Acceptance or the Contract Agreement, as the case may be, shall be liable to be terminated without the NDMC being liable in any manner whatsoever to the Preferred Applicant or system integrator for the same. For the avoidance of doubt, this disqualification shall not apply where such adviser was engaged by the Applicant, its Member or Associate in the past but its assignment expired or was terminated prior to the Application Due Date. Nor will this disqualification apply where such adviser is engaged after a period of 3 (three) years from the date of commercial operation of the project.

4.2 Change in Ownership

Lead Member will hold at least 51% of the paid up capital of the consortium throughout the O&M period. The Applicant further acknowledges and agrees that the aforesaid obligation shall be the minimum, and shall be in addition to such other obligations as may be contained in the RFP document / Contract Agreement, and a breach hereof shall, notwithstanding anything to the contrary contained in the RFP document / Contract Agreement, be deemed to be a breach of the RFP document / Contract Agreement and dealt with as such there under. For the avoidance of doubt, the provisions of this Clause shall apply only when the Applicant is a Consortium.

4.3 Cost of Bidding

The Applicants shall be responsible for all of the costs associated with the preparation of their Bids and their participation in the Bidding Process. The NDMC will not be responsible or in any way liable for such costs, regardless of the conduct or outcome of the Bidding Process.

4.4 Site visit and verification of information

4.4.1 Applicants are encouraged to submit their respective Bids after visiting the Project site and ascertaining for themselves the site conditions, traffic, location, surroundings, climate, availability of power, water and other utilities for construction, access to site, handling and storage of materials, weather data, Applicable Laws and regulations, and any other matter considered relevant by them.

4.4.2 It shall be deemed that by submitting a Bid, the Applicant has:

- (i) made a complete and careful examination of this RFP Document and unconditionally and irrevocably accepted the terms thereof;
- (ii) received all relevant information requested from the NDMC;
- (iii) made a complete and careful examination of the various aspects of the Project including but not limited to:
 - (a) existing facilities and structures;
 - (b) conditions of the access roads, street light poles and utilities, buildings in the vicinity of the Project Site;
 - (c) conditions affecting transportation, access, disposal, handling and storage of materials;
 - (d) all other matters that might affect the Applicant's performance under this RFP document;
- (iv) accepted the risk of inadequacy, error or mistake in the information provided in the RFP document furnished by or on behalf of the NDMC relating to any of the matters referred to in this RFP document;
- (v) satisfied itself about all matters, things and information, including matters referred to in Clause 4.4.1 hereinabove, necessary and required for submitting an informed Bid, execution of the Project in accordance with this RFP Document and performance of all of its obligations there under;
- (vi) acknowledged and agreed that inadequacy, lack of completeness or incorrectness of information provided in this RFP Document or ignorance of any of the matters referred to in Clause 4.4.1 hereinabove shall not be a basis for any claim for compensation, damages, extension of time for performance of its obligations, loss of profits etc. from the NDMC, or a ground for termination of the Contract Agreement by the system integrator;
- (vii) acknowledged that it does not have a Conflict of Interest; and
- (viii) agreed to be bound by the undertakings provided by it under and in terms hereof.

- 4.4.3 NDMC shall not be liable for any omission, mistake or error in respect of any of the above or on account of any matter or thing arising out of or concerning or relating to RFP Document or the Bidding Process, including any error or mistake therein or in any information or data given by the NDMC.

4.5 Verification and Disqualification

- 4.5.1 The NDMC reserves the right to verify all statements, information and documents submitted by the Applicant in response to the RFP document and the Applicant shall, when so required by the NDMC, make available all such information, evidence and documents as may be necessary for such verification. Any such verification, or lack of such verification, by the NDMC shall not relieve the Applicant of its obligations or liabilities hereunder nor will it affect any rights of the NDMC there under.

- 4.5.2 The NDMC reserves the right to reject any Bid and appropriate the Earnest Money Deposit if:

- (a) at any time, a material misrepresentation is made or uncovered, or
- (b) the Applicant does not provide, within the time specified by the NDMC, the supplemental information sought by the NDMC for evaluation of the Bid, or
- (c) any act or omission of the Applicant results in violation of or non-compliance with this RFP document or any Applicable Laws (Clause No. 8.10).

Such misrepresentation/ improper response shall lead to the disqualification of the Applicant. If the Applicant is a Consortium, then the entire Consortium and each Member may be disqualified / rejected. If such disqualification / rejection occurs after the Bids have been opened and the Preferred Applicant gets disqualified / rejected, then the NDMC reserves the right to take any such measure as may be deemed fit in the sole discretion of the NDMC, including annulment of the Bidding Process.

- 4.5.3 In case it is found during the evaluation or at any time before signing of the Contract Agreement or after its execution and during the period of subsistence thereof granted by the NDMC, that one or more of the qualification conditions have not been met by the Applicant, or the Applicant has made material misrepresentation or has given any materially incorrect or false information, the Applicant shall be disqualified forthwith if not yet appointed as the system integrator either by issue of the Letter of Acceptance or entering into of the Contract Agreement, and if the Preferred Applicant has already been issued the Letter of Acceptance or has entered into the Contract Agreement, as the case may be, the same shall, notwithstanding anything to the contrary contained therein or in this RFP document, be liable to be terminated, by a communication in writing by the NDMC to the Preferred Applicant or the system integrator, as the case may be, without the NDMC being liable in any manner whatsoever to the Preferred Applicant or system integrator. In such an event, the NDMC shall be entitled to forfeit and appropriate the Earnest Money Deposit or Performance Security, as the case may be, as Damages, without prejudice to any other right or remedy that may be available to the NDMC under the RFP document and/ or the Contract Agreement, or otherwise.

B. DOCUMENT**4.6 Contents of the RFP Document**

- 4.6.1 This RFP document comprises the Disclaimer set forth hereinabove, the contents as listed below, and will additionally include any Addenda issued in accordance with Clause 4.9.

Invitation for Bids

- Section 1. Invitation for Proposal
- Section 2. Project Overview
- Section 3. Project Objective and Scope
- Section 4. Instructions to the Applicants
- Section 5. Evaluation of Bids
- Section 6. Appointment of system integrator
- Section 7. Fraud and Corrupt Practices
- Section 8. Miscellaneous
- Section 9. Punitive Clause
- Section 10. Force Majeure
- Section 11. Event of Default and Termination
- Section 12. Dispute Resolution
- Section 13. Liquidated Damages
- Section 14. Exit Management Schedule
- Section 15. Detailed Project Scope
- Section 16. Bill of Material

Annexures:

- 1. Letter comprising the application for Bid submission.
- 2. Pre contract Integrity Pact
- 3. Power of Attorney for Lead Member of Consortium
- 4. Joint Bidding Agreement
- 5. Bank Guarantee Format
- 6. Format for financial bid covering letter
- 7. Format for financial bid
- 8. Power of attorney for signing of Application
- 9. Statement of legal Capacity
- 10. Declaration of Non-Blacklisting
- 11. No Deviation Certificate
- 12. Manufacturers'/Producers' Authorization Form
- 13. Manpower Plan

4.7 Clarifications

- 4.7.1 Applicants requiring any clarification on the RFP document may notify the NDMC in writing by speed post/ courier/ special messenger and by e-mail and should send in their queries so as to reach the officer designated in Clause 1.4 by the date specified in Clause 1.7 (Key Events and Dates). NDMC shall endeavour to respond to the queries within the period specified therein, but no later than 7 (seven) days prior to the Bid Due Date. The responses will be sent by e-mail. The NDMC will upload clarifications, if any, on its website (www.ndmc.gov.in). The envelopes/ communication shall clearly bear the following identification/ title:

"Queries/Request for Additional Information: RFP for SI for Command Control Centre"

- 4.7.2 The NDMC shall endeavour to respond to the questions raised or clarifications sought by the Applicants. However, the NDMC reserves the right not to respond to any question or provide any clarification, in its sole discretion, and nothing in this Clause shall be taken or read as compelling or requiring the NDMC to respond to any question or to provide any clarification.
- 4.7.3 The NDMC may also on its own motion, if deemed necessary, issue interpretations and clarifications to all Applicants through its website. All clarifications and interpretations issued by the NDMC shall be deemed to be part of the RFP document. Verbal clarifications and information given by NDMC or its employees or representatives shall not in any way or manner be binding on the NDMC.
- 4.8 Modification in the RFP Document**
- 4.8.1 At any time prior to the Bid Due Date, the NDMC may, for any reason, whether at its own initiative or in response to clarifications requested by an Applicant, modify the RFP document by the issuance of Addendum.
- 4.8.2 Any Addendum / clarification issued hereunder will be in writing and will be published on the NDMC's website (www.ndmc.gov.in) to make it accessible to all Applicants, and shall be deemed to be a part of this RFP document.
- 4.8.3 In order to afford the Applicants a reasonable time for taking an Addendum into account, or for any other reason, the NDMC may, in its sole discretion, extend the Bid Due Date.

C. PREPARATION AND SUBMISSION OF BIDS

4.9 Format and Signing of Bid

- 4.9.1 The Applicant shall provide all the information sought under this RFP document. The NDMC will evaluate only those Bids that are received in the required formats and complete in all respects.
- 4.9.2 The Bid shall be typed or written in indelible ink and signed by the authorised signatory of the Applicant who shall also initial each page, in blue ink. All the alterations, omissions, additions or any other amendments made to the Bid shall be initialled by the person(s) signing the Bid.
- 4.9.3 It is expected that Applicants have read and understood the RFP document along with clarification / addenda (if any) before the proposal submission. As a matter of confirmation of the same, a copy of the RFP document including other documents like clarification & addendum, if any, duly signed by the authorized signatory shall be submitted alongwith the bid. The bid documents shall have an index page with page numbers specified for all the key information/headers.

4.10 Sealing and Marking of Bids

- 4.10.1 A two envelope/cover system shall be followed for the bid. The Applicant shall upload the bid on e-procurement website of Delhi govt. and also submit the hard copy of Bid and seal it in the following two envelopes:
- (a) Envelope A: (i) Earnest Money Deposit; (ii) Cost of RFP document (in case of downloaded RFP document), if any; and (iii) Eligibility Criteria including the following:
 - (i) Power of Attorney for signing of Bid, Authority Letter after the Resolution passed by the board of directors.

- (ii) If applicable, the Power of Attorney for Lead Member of Consortium in the format of Annexure-3 ; and
 - (iii) A copy of the Concession Agreement with each page initialled by the person signing the Bid in pursuance of the Power of Attorney referred to in Clause (i) hereinabove.
- (b) Envelope B: Technical Bid
Financial bid to be submitted in e-procurement website only.

4.10.2 The Bid shall include the following documents: -

Envelope A		
Sl. No.	Documents Type	Document Format
1.	Earnest Money Deposit (EMD)	EMD – Rs.1.00 Crore to be deposited in the form of Demand Draft/Pay order/Bankers Cheque/FDR/TDR in favour of "Secretary, NDMC" Payable at Delhi/New Delhi.
2.	Cost of RFP document, if applicable	Cost of RFP document (in case of RFP document downloaded from website) – Rs.10,000/- to be deposited in the form of Demand Draft/Bankers Cheque in favour of "Secretary, NDMC" Payable at Delhi/New Delhi.
3	Eligibility Criteria	The Eligibility Criteria shall be prepared in accordance with the requirements specified in RFP document.
Envelope B		
1	Technical Bid	The Technical Bid shall be prepared in accordance with the requirements specified in this RFP document and in the formats prescribed. This Envelope should also mandatorily include un-priced Bill-of-Material (BOM). To be uploaded Online on e-procurement portal
1	Financial Bid	The Financial Bid proposal shall be prepared in accordance with the requirements specified in this RFP document and in the formats prescribed in RFP document.

4.10.2 The two envelopes specified in Clauses 4.10.1 shall be placed in an outer envelope, which shall be sealed. Each of the four envelopes shall clearly bear the following identification:

"Bid for the SI for CCC"

and shall clearly indicate the name and address of the Applicant. In addition, the Bid Due Date should be indicated on the right hand top corner of each of the envelopes.

4.10.3 Each of the envelopes shall be addressed to the officer designated in Clause 1.4.

4.10.4 If the envelopes are not sealed and marked as instructed above, the NDMC assumes no responsibility for the misplacement or premature opening of the contents of the Bid submitted and consequent losses, if any, suffered by the Applicant.

4.10.5 Bids submitted by fax, telex, telegram or e-mail shall not be entertained and shall be rejected.

4.11 Bid Due Date

4.11.1 Bids should be submitted before the Bid Due Date (Last date and time for submission of bids) at the address provided in Clause 1.4 in the manner and form as detailed in this RFP document.

4.11.2 The NDMC may, in its sole discretion, extend the Bid Due Date by issuing an Addendum in accordance with Clause 4.8 uniformly accessible for all Applicants.

4.12 Late Bids

Bids received by the NDMC after the specified time on the Bid Due Date (including the extended period if any) shall not be eligible for consideration and shall be summarily rejected.

4.13 Contents of the Bid

- 4.13.1 Generally, the Project will be awarded to the Preferred Applicant.
- 4.13.2 The opening of Bids and acceptance thereof shall be substantially in accordance with this RFP document.
- 4.13.3 The proposed Contract Agreement shall be deemed to be part of the Bid.

4.14 Modifications/ Substitution/ Withdrawal of Bids

- 4.14.1 The Applicant may modify, substitute or withdraw its Bid after submission, provided that written notice of the modification, substitution or withdrawal is received by the NDMC prior to the Bid Due Date. No Bid shall be modified, substituted or withdrawn by the Applicant on or after the Bid Due Date.
- 4.14.2 The modification, substitution or withdrawal notice shall be prepared, sealed, marked, and delivered in accordance with Clause 4.10, with the envelopes being additionally marked "MODIFICATION", "SUBSTITUTION" or "WITHDRAWAL", as appropriate.
- 4.14.3 Any alteration/ modification in the Bid or additional information supplied subsequent to the Bid Due Date, unless the same has been expressly sought for by the NDMC, shall be disregarded.

4.15 Opening of Bids

- 4.15.1 The NDMC shall open the Bids (Envelope A and B) received within the specified time, on the Bid Due Date as specified in Clause 1.7 at the place specified in Clause 1.4 and in the presence of the Applicants who choose to attend.
- 4.15.2 The representatives of the Applicants should carry the identity card or a letter of authority from the Applicant to identify their bonafides for attending the Technical Bid opening.
- 4.15.3 The NDMC will subsequently examine and evaluate the Bids in accordance with the provisions set out in this RFP document.
- 4.15.4 To facilitate evaluation of Bids, the NDMC may, at its sole discretion, seek clarifications in writing from any Applicant regarding its Bid.
- 4.15.5 The technical evaluation of only those Applicants will be done who will found eligible in terms of Clause 5.2.
- 4.15.6 The Financial Proposal will remain unopened and will be opened on the date and time of opening of the Financial Proposals.
- 4.15.7 NDMC shall invite the Technically Qualified Applicants as declared in terms of clause 5.3.9.3 for the opening of the Financial Proposals. The date, time, and location of the opening of Financial Proposals will be informed by NDMC separately and individually to such Technically Qualified Applicants.

4.16 Rejection of Bids

- 4.16.1 Notwithstanding anything contained in this RFP document, the NDMC reserves the right to reject any Bid and to annul the Bidding Process and reject all Bids at any time without any liability or any obligation for such acceptance, rejection or annulment, and without assigning any reasons therefore. In the event that the NDMC rejects or annuls all the Bids, it may, in its discretion, invite all eligible Applicants to submit fresh Bids hereunder.
- 4.16.2 The NDMC reserves the right not to proceed with the Bidding Process at any time, without notice or liability, and to reject any Bid without assigning any reasons.

4.17 Validity of Bids

The Bids shall be valid for a period of not less than 120 (one hundred and twenty) days from the Bid Due Date. The validity of Bids may be extended by mutual consent of the respective Applicants and the NDMC.

4.18 Confidentiality

4.18.1 Information relating to the examination, clarification, evaluation and recommendation for the Applicants shall not be disclosed to any person who is not officially concerned with the process or is not a retained professional advisor advising the NDMC in relation to, or matters arising out of, or concerning the Bidding Process. The NDMC will treat all information, submitted as part of the Bid, in confidence and will require all those who have access to such material to treat the same in confidence. The NDMC may not divulge any such information unless it is directed to do so by any statutory entity that has the power under law to require its disclosure or is to enforce or assert any right or privilege of the statutory entity and/ or the NDMC or as may be required by law or in connection with any legal process.

4.18.3 The system integrator shall keep confidential all the details and information with regard to the Project, including systems, facilities, operations, management and maintenance of the systems/facilities.

4.18.4 The NDMC or its nominated agencies shall retain all rights to prevent, stop and if required take the necessary punitive action against the system integrator regarding any forbidden disclosure.

4.18.5 For the avoidance of doubt, it is expressly clarified that the aforesaid provisions shall not apply to the following information:

- (i) information already available in the public domain;
- (ii) information which has been developed independently by the Applicant / system integrator not affecting any interest of the NDMC;
- (iii) information which has been received from a third party who had the right to disclose the aforesaid information;
- (iv) information which has been disclosed to the public pursuant to a court order.

4.18.6 To the extent the system integrators have sits confidential or proprietary information with NDMC for effective performance of the Services, the provisions of the Clause 4.18.2 to 4.18.4 shall apply *mutatis-mutandis* on the NDMC.

4.19 Correspondence with the Applicant

Save and except as provided in this RFP document, the NDMC shall not entertain any correspondence with any Applicant in relation to acceptance or rejection of any Bid.

4.20 Contacts during Bid Evaluation

Bids shall be deemed to be under consideration immediately after they are opened on the Bid Due Date and until such time the NDMC makes official intimation of award through issuance of Letter to Acceptance to the Preferred Applicant/ rejection to the Applicants. While the Bids are under consideration, Applicants and/ or their representatives or other interested parties are advised to refrain, save and except as required under the RFP document, from

contacting by any means, the NDMC and/ or their employees/ representatives on matters related to the Bids under consideration.

4.21 Deviation Statement

Applicants will note that NDMC will not entertain any deviations to the RFP document whatsoever may be including compliance to the technical specifications defined in the document at the time of submission of the Proposal or thereafter. The Proposal to be submitted by the Applicants would have to be unconditional and unqualified and the Applicants would be deemed to have accepted the terms and conditions of the RFP document with all its contents. Any deviation from the notified RFP document including compliance to the technical specifications will lead to disqualification of the applicant.

4.22 Bid Submission Format

The Applicant should ensure that all the required documents, as mentioned in this RFP document, are submitted alongwith the bid and in the prescribed format only. NDMC will not accept delivery of Proposal in any manner other than that specified in this RFP document. Proposal delivered in any other manner shall be treated as defective, invalid and rejected. Non-submission of the required documents or submission of the documents in a different format /contents may lead to the rejections of the bid proposal submitted by the Applicant.

4.23 Earnest Money Deposit (EMD)

4.23.1 The Applicant shall furnish as part of its Bid, an Earnest Money Deposit (EMD) of Rs.1.00 Crore (Rs. One Crore only) in the form of Demand Draft/ Pay Order/ Bankers Cheque/ FDR/ TDR in favour of "Secretary, NDMC" payable at Delhi/ New Delhi or in the form of a Bank Guarantee issued by a nationalized bank, or a Scheduled Bank in India, in favour of the "Secretary NDMC" in the format at Annexure-5 (the "Bank Guarantee") and having a validity period of not less than 180 (one hundred eighty) days from the Bid Due Date, inclusive of a claim period of 60 (sixty) days, and may be extended as may be mutually agreed between the NDMC and the Applicant from time to time. In case the Bank Guarantee is issued by a foreign bank outside India, confirmation of the same by any nationalized bank in India is required. For the avoidance of doubt, Scheduled Bank shall mean a bank as defined under Section 2(e) of the Reserve Bank of India Act, 1934.

4.23.2 The NDMC shall not be liable to pay any interest on the Earnest Money Deposit so made and the same shall be interest free.

4.23.3 Any Bid not accompanied by the Earnest Money Deposit shall be summarily rejected by the NDMC as non-responsive.

4.23.4 The Earnest Money Deposit of unsuccessful Applicants will be returned by the NDMC, without any interest, as promptly as possible on issuance of the Letter of Acceptance to the Preferred Applicant or when the Bidding process is cancelled by the NDMC.

4.23.5 The Preferred Applicant's EMD will be returned, without any interest, upon the system integrator signing the Contract Agreement after furnishing the Performance Security in accordance with the provisions thereof.

- 4.23.6 The NDMC shall be entitled to forfeit and appropriate the EMD as Damages *inter alia* in any of the events specified in Clause 4.23.7 herein below. The Applicant, by submitting its Bid pursuant to this RFP document, shall be deemed to have acknowledged and confirmed that the NDMC will suffer loss and damage on account of withdrawal of its Bid or for any other default by the Applicant during the period of Bid validity as specified in this RFP document. No relaxation of any kind on EMD shall be given to any Applicant.
- 4.23.7 The EMD shall be forfeited as Damages without prejudice to any other right or remedy that may be available to the NDMC under the RFP document and/ or under the Concession Agreement, or otherwise, if-
- (a) An Applicant submits a non-responsive Bid;
 - (b) An Applicant engages in a corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice as specified in Clause-7 of this RFP document;
 - (c) an Applicant withdraws its Bid during the period of Bid validity as specified in this RFP document and as extended by mutual consent of the respective Applicant(s) and the NDMC;
 - (d) The Preferred Applicant fails within the specified time limit -
 - (i) to sign and return the duplicate copy of Letter of Agreement; or
 - (ii) to sign the Contract Agreement; or
 - (iii) to furnish the Performance Security within the period prescribed therefore in the Contract Agreement.

In such an event, the decision of the NDMC regarding forfeiture of the EMD shall be final and binding upon Applicants.

- 4.23.8 Applicants should mention the beneficiary account details for EMD refund in the Earnest Money Deposit Form as required for Refund. The beneficiary account provided for EMD refund should remain active for successful EMD refund. The earnest money deposit of unsuccessful Applicants will be refunded through RTGS / NEFT mode. Applicants should submit scanned copy of cancelled cheque of the beneficiary account for EMD refund.
- 4.23.9 In case of forfeiture of EMD as prescribed in as above, the Applicant shall not be allowed to participate in the rebidding process of the same project.

E. Pre-Bid Meeting

4.24 Pre-Bid Meeting

- 4.24.1 Pre-Bid Meeting will be convened at the designated date as mentioned in Clause 1.7 at a time and place specified by the NDMC.
- 4.24.2 Only those persons who have purchased this RFP document shall be allowed to participate in the pre-bid conference.
- 4.24.3 A maximum of three representatives of each person who has purchased this RFP document shall be allowed to participate on production of duly issued authority letter from such person and identity documents.
- 4.24.4 During the course of Pre-Bid Conference(s), the Applicants may seek clarifications and make suggestions for consideration of the NDMC.
- 4.24.5 The NDMC shall endeavour to provide clarifications and such further information as it may, in its sole discretion, consider appropriate for facilitating a fair, transparent and competitive Bidding Process.
- 4.24.6 All enquiries from the Applicants relating to this RFP document must be submitted in writing only to NDMC at the time of pre-bid meeting (Key Events and Dates – Clause 1.7). The queries of applicants, who have purchased this RFP document, may be emailed seph.civil@ndmc.gov.in

F. Administrative Guidelines

4.26 This section describes the administrative guidelines, policies and procedures to be followed by the system integrator while undertaking operational activities. NDMC is particular about safeguarding the aesthetics and regulatory norms of NDMC and expects the system integrator to strictly abide to the same. This includes, but is not limited to, approach related to operational activities, safety and security aspects, repair and maintenance, vandalism, damage to public property, misuse of public amenities, misuse of public space and other key NDMC requirements. The system integrator is responsible for adhering to the following administrative guidelines:

- (i) NDMC reserves the right to intervene at any point throughout the Contract Agreement for all administrative, operation and maintenance activities.
- (ii) Any civil and architectural work or structural changes required while implementation should go through proper approvals from NDMC. Every plan that is submitted would be reviewed and approved with necessary amendments (if any) by the NDMC based on the project plan. The system integrator is responsible for incorporating the amendments proposed by the NDMC, and submit the revised plan for approval to NDMC. All civil and architectural changes are to be implemented by the system integrator only after the plans are approved by NDMC.
- (iii) All regulatory approvals required for executing this project, acquired from concerned parties (Public and Private) should be planned and arranged by the system integrator. NDMC will extend assistance in getting the requisite permission from statutory bodies in this regard.
For permissions other than in purview of NDMC, the concessionaire has to arrange such permissions at their own. NDMC may act as a facilitator for obtaining such permissions by the system integrator. However, this will not create any right in favour of the system integrator for getting such permission through NDMC.
- (iv) NDMC will hold ownership of all hardware equipment and software components, including but not limited to all active and passive devices, sensors, servers, computer systems, solutions, applications, reports, software and licenses etc.
- (v) The system integrator shall be responsible to keep all the tangible and intangible assets under this Agreement in good, operational and serviceable conditions at all times. Timelines have been defined in clause No. 3.5.3(g).
- (vi) The system integrator shall not cause any damage to Government buildings / other premises / property/ public places etc. If any damage occurs, the system integrator will perform necessary restoration at its own cost.
- (vii) The work of system integrator shall be subject to inspection at various stages. The system integrator shall abide and follow all Safety and Security Regulations and practices at all times. The system integrator should not use any sub-standard products only as per technical specifications defined in RFP document.
- (viii) The system integrator would also be required to maintain a centralized Helpdesk monitoring system at the Centralized Command and Control Center, which will track new installations, complaints, issues logged by the Facility Management Service team.
- (ix) All the hardware and software supplied and replaced should be new and from reputed OEMs as per the RFP document. The system integrator shall ensure that the products procured are of the OEM proposed in the bid. The material shall be checked/ validated/ audited through agency identified by NDMC, along with Quality tests before dispatching to site or thereafter. The system integrator is responsible to check and validate all material including hardware, software and peripherals and provide the list of the same to NDMC before installation.

G. Operation and Maintenance (O&M) Guidelines

4.27 The system integrator shall follow the following Operation and Maintenance guidelines:

- (i) The system integrator has to adhere to the operation and maintenance policies and procedures, as applicable from time to time, for managing and operating the Project. This includes (but not limited to) approach related to manpower, resources, vendor management, security, customer service, repair and maintenance and other primary functions, training programs to staff, user

- manuals, technical manuals, financial management, risk management, life/safety management, employee management and administrative policies and procedures for customer service improvement.
- (ii) system integrator will be responsible to deploy on-field and off-field (but on-site at NDMC) resources for appropriate up-keeping, maintenance, and operation of all network, hardware, and software components, and ensure smooth functioning of the project throughout the entire O&M period of five years from the date of Go-Live.
 - (iii) The Command and Control Center will be hosted and operated at NDMC premises at Palika Kendra, Sansad Marg, New Delhi. System Integrator will operate and maintain all equipments installed at Command Control Centre of Data Centre. Day to day operations at Command and Control Center will be monitored and operated by NDMC. All the hardware and software issues will be the responsibility of the system integrator.
 - (iv) After implementation period, the Operations and Maintenance (O&M) period shall be upto a period of five years from the date of GO-LIVE.
 - (v) The system integrator shall provide comprehensive on-site warranty for all the hardware items, softwares and peripherals, supplied under this RFP.
 - (vi) The system integrator shall provide comprehensive Facility Management Service (FMS) for all devices, equipment and its related hardware, software, electrical and network infrastructure components supplied for the this project. This involves comprehensive maintenance of all component covered under the Contract Agreement, including configuration of servers, desktops, routers, switches, firewall, CCTVs, and various other active and passive components along with repair, replacement of parts, sensors, providing spare parts, updating, security alerts and patch updating, regular backup of the data etc.
 - (vii) The system integrator shall depute adequate manpower as full time dedicated onsite FMS team. The FMS team shall be deputed to identify, acknowledge, troubleshoot, manage, replace and repair the hardware/ system software. The FMS team shall undertake day-to-day troubleshooting and maintenance requirements for this project.
 - (viii) The FMS team shall be also be responsible for regular monitoring of all the equipment, proactively perform warranty checks, and generate SLA reports from the SLA monitoring tool.
 - (ix) The FMS team shall be required to take regular backup of the application data as per the frequency defined by NDMC. Security and safety arrangements for safe custody of the backup data shall also be the responsibility of system integrator upto O&M period.
Time frame for regular data backup will be provided by the applicant in its proposed architecture of the system. NDMC reserves its right to ask the concessionaire to do modification in such time-frame, if required, at any time upto a period upto O&M period.
 - (x) The system integrator shall ensure that the FMS team has appropriate skill-sets for managing data center, networking, hardware and application software tools & CCC.
 - (xi) The system integrator shall ensure that the instruction manuals, technical manuals and user manuals supplied by the manufacturer/ OEMs/ system integrator are referred, referenced, reviewed and maintained up-to-date at all times.
 - (xii) All patches and updates to any software and hardware devices shall be provided by the system integrator without any additional costs during O&M period.
 - (xiii) NDMC reserves the right to ask for replacement of any hardware, software and network components if it is not from approved OEM and does not conform to the specification/requirements specified in the RFP document.
 - (xiv) During the ~~concession~~ maintenance period, if any hardware or software needs to be replaced, the same will be replaced with same OEM and with same or higher configuration free of cost.

H. Passive Cabling Guidelines

- 4.28.1 The system integrator is required to carry out all work related to passive cabling under the scope of setting up the command center. All work under passive cabling should be governed by a set of standards that specify wiring data centers, offices, and other buildings for data or voice communications, using fibre cables. The category 7 (CAT 7) and modular sockets will only be used when requirement of data transfer is very low. For high data transfer fiber cable will be used. All materials used shall be conforming to relevant standard and as per ISO.
- 4.28.2 The system integrator should ensure that appropriate communication channels are setup for data, voice along with wireless compatibility. The system integrator should ensure that the cable layouts are neat and distinguishable. The termination of cables needs to be planned for future expansion of scope.

5 EVALUATION OF BIDS

5.1 BID EVALUATION

- 5.1.1 NDMC will evaluate the bids.
- 5.1.2 The NDMC may seek clarifications in writing from the Applicants on their proposals and may visit Applicant's client site to validate the credentials/ citations claimed by Applicant.
- 5.1.3 Each of the responses shall be evaluated as per the criteria and requirements specified in this RFP document. NDMC reserves the right to reject any or all proposals on the basis of any deviations from this RFP document.
- 5.1.4 This is a Lowest Price Bid based selection. Only those applicants who achieve minimum technical criteria would be eligible for financial bid opening.
- 5.1.5 Technical Score for being eligible for financial bid opening is 70 marks out of 100.

5.1A Tests of responsiveness

- 5.1A.1 Prior to evaluation of Bids, the NDMC shall determine whether each Bid is responsive to the requirements of this RFP document. A Bid shall be considered responsive if:

- (a) it is received as per the format defined in RFP document.
- (b) it is received by the Bid Due Date including any extension thereof pursuant to Clause 4.11;
- (c) it is signed, sealed, bound together in hard cover and marked as stipulated in Clauses 4.9 and 4.10;
- (d) it is accompanied by the Earnest Money Deposit;
- (e) it is accompanied by the Power(s) of Attorney, if applicable;
- (f) it contains all the information (complete in all respects) as requested in this RFP document (in formats same as those specified);
- (g) it quotes complete scope of Work as indicated in the RFP documents, addendum (if any) and any subsequent information given to the Applicant;
- (h) it does comply with all the Technical specifications and General Terms and conditions;
- (i) it does not contain any condition or qualification;
- (j) the Applicant has submitted all additional information or clarification as sought by NDMC within the prescribed period;
- (k) Bids with duly signed integrity pact; and
- (l) it is not non-responsive in terms hereof.

- 5.1A.2 The NDMC reserves the right to reject any Bid which is non-responsive and no request for alteration, modification, substitution or withdrawal shall be entertained by the NDMC in respect of such Bid. Provided, however, that the NDMC may, in its discretion, allow the Applicant to rectify any infirmities or omissions if the same do not constitute a material modification of the Bid.

5.2 Earnest Money Deposit, RFP Document Cost (if applicable) and Eligibility Criteria (Envelope A)

- 5.2.1 The bids without Earnest Money Deposit will be summarily rejected.
- 5.2.2 In case, the Applicant has downloaded the RFP document from the NDMC's website, then the Applicant is required to pay the cost of RFP document along with the EMD, failing which its bid will be rejected.
- 5.2.3 The bid of the Applicant shall be evaluated on the basis of the following Eligibility Criteria:

Pre-Qualification Criteria

S.No.	Eligibility Criteria	Document Proof	Name to be given to the PDF file to be uploaded
1.	<p>A Company Registered under the companies Act 1956/2013; OR A Consortium consisting of:</p> <ul style="list-style-type: none"> (i) Maximum 3 companies are allowed in a consortium (ii) One of the consortium member should lead the consortium. Lead member should have more than 50% stake in the consortium and should be registered in India under the Companies Act 1956/2013. (iii) Lead Member should be registered in India for at least three completed financial years i.e. should be registered before 01/04/2013. (iv) All the consortium members are equally responsible and jointly & severally liable under this RFP for <ul style="list-style-type: none"> • The delivery of products & services. • Successful completion of this entire Project • Meeting the SLAs (v) Other consortium members either should be registered in India under Companies Act 1956/2013. Or Registered abroad under any other suitable Act of the respective country. 	<ul style="list-style-type: none"> • Copy of Certificate of Incorporation/ Registration under Companies Act, 1956/2013 or any suitable Act abroad. • Consortium agreement clearly stating the roles and responsibilities of each member. 	PQ-1
2.	<p>The average annual Turnover (TO) in Indian Rupees for last 3 audited financial years (2013-14, 2014-15, 2015-16) in the field of</p> <ul style="list-style-type: none"> (a) ICT infrastructure (b) Telecom infrastructure (c) IT system integration services <ul style="list-style-type: none"> • For Sole Applicant- 100Cr • In case of Consortium, lead member shall have average annual turnover of Rs. 100 Cr. 	<ul style="list-style-type: none"> • Certificate from the Statutory auditor/CA clearly specifying the annual turnover for the specified years. 	PQ-2

- | | | |
|--|---|--|
| <p>3. For Sole Applicant or in case of Consortium, lead member shall have the Positive Net Worth (PNW) in Indian Rupees as one and of financial year 2015-16 as Rs. 20 Cr.</p> | <ul style="list-style-type: none"> • Certificate from the Statutory auditor/CA clearly specifying the net work of the firm. | <p>PQ-3</p> |
| <p>4. Duly signed Integrity Pact as per Annexure - 2</p> | <ul style="list-style-type: none"> • The applicant has to submit duly signed Integrity Pact as per Annexure-2 alongwith its proposal. | <p>PQ-5</p> |
| <p>5. The sole Applicant or the Lead Applicant in case of a Consortium, should possess the below Certifications which are valid at the time of bid submission:</p> <p>(i) CMMI level 5 and above ; and</p> <p>(ii) ISO 9001:2008 certification for system integration or ISO 20000:2011 for IT Service Management or ISO 27001:2005 for Information Security Management System</p> | <ul style="list-style-type: none"> • Copies of valid certificates in the name of the sole Applicant or the Lead Applicant in case of a Consortium. | <p>PQ-5</p> |
| <p>6. 100% Companies to technical specification and functionality.</p> | <p>Compliance sheet to technical specifications and functionalities.</p> | <p>PQ-6</p> |
| <p>7. The Applicant/ Lead member in case of Consortium shall have bank Solvency certificate of not less Rs. 40 Crores (certificate issued within last six months from the date of issue of this RFP document will be considered for this purpose).</p> | <p>Certificate from Bank</p> | <p>PQ-7</p> |
| <p>8. Registration under Tax Labour Laws Electrical Laws, etc.</p> | <p>The Applicant or the Lead Applicant should have a registered number of:</p> <p>(a) VAT/Sales Tax where his business is located;</p> <p>(b) Service Tax;</p> <p>(c) Income Tax PAN;</p> <p>The ESI & EPF registration as per Labour Laws;</p> | <p>Copies of relevant(s) Certificates of Registration. In case of (i) ESI Registration; or/and (ii) EPF registration, if such certificate is not available, then in such case an undertaking on a stamp paper of Rs.10 shall be provided stating that the same will be obtained within a period of two months from the date of</p> |

signing of the agreement; " if such ESI and EPF registration will be required as per the proposed work.

PQ-8

9. No Barring Certificate

Sole Applicant or in case of consortium all members of the consortium, which has been barred, by the Central Government/ any State Government/ NDMC, or any entity controlled by these, from participating in any project (BOT or otherwise), and the bar subsists as on the date of Application, would not be eligible to submit an Application, either individually or as member of a Consortium.

Undertaking by the authorized signatory as well as all member of consortium as per the form mentioned in Annexure- 11
PQ-9

Note: The system integrator shall comply with all applicable laws, including labour laws, at any point of time throughout the contract period.

5.2.5 Consortium as mentioned in clause 5.2.3 above shall be subject to the condition mentioned below in clauses 5.2.7 and 5.2.8.

5.2.6 The Applicant shall submit all the documents in the prescribed formats mentioned in the RFP document.

5.2.7 Consortium

The Applicant for participation in the Selection Process, maybe (a) a single entity or (b) a Consortium, coming together to execute the project. No Member at any given point of time, may assign or delegate its rights, duties or obligations under the Agreement except with prior written consent of the NDMC. The Lead member shall have atleast 51% of the equity in the consortium. and cannot assign or delegate its rights, duties or obligation under the Agreement throughout the concession period.

No Applicant applying individually, or as a member of a Consortium, as the case may be, can be member of another consortia bidding for the project.

In the event the Applicant is a Consortium, it shall, comply with the following additional requirements:

1. Number of members in a consortium shall not exceed 03 (three) including the Lead Member.
2. Members of the Consortium shall nominate one member as the Lead Member (the "Lead Member"); who shall have atleast 51% of the equity in the consortium throughout the concession period;
3. The Lead Member will remain responsible for successful delivery of the project at all times throughout the concession period;
4. The Lead Member shall be authorized and shall be fully responsible for the accuracy and veracity of the representations and information submitted by itself and all other Members of the consortium respectively from time to time in response to this RFP.

5. Members of the Consortium shall enter into a binding Joint Bidding Agreement, for the purposes of making the Application and submitting a Bid.
6. Subject to the provisions of sub-clause(5) above, the Joint Bidding Agreement should contain the information required for each member of the Consortium and shall, inter alia:
 - i. Undertake that each of the members of the Consortium shall have an independent, definite and separate scope of work which was allocated as per each member's field of expertise;
 - ii. Commit to the profit and loss sharing ratio of each member;
 - iii. Commit to the scope of work, rights, obligations and liabilities to be held by each member; specifically commit that the Lead Member shall be answerable on behalf of other members for the performance of obligations and duties under this Agreement,
 - iv. provide a brief description of the roles and responsibilities of individual members; and clearly define the proposed administrative arrangements (organization chart) for the management and execution.
 - v. Include a statement to the effect that all members of the Consortium shall be severally liable for all obligations in relation to the Assignment until the completion of the Assignment in accordance with the Agreement;
 - vi. Undertake that all Members shall comply with all lock-in requirements set forth in the RFP.
 - vii. Commit that each of the members, whose experience will be evaluated for the purposes of this RFP document, shall, for a period of 2 (two) years from the date of commercial operation of the Project, hold equity share capital as at the time of submission of bid and may only be replaced by such other party having same or better technical capabilities as well as eligibility conditions with prior approval of the NDMC;
 - viii. Undertake;
 - a. that notwithstanding anything contrary contained in this RFP or the Agreement, the Lead Member shall always be liable for obligations and duties of all the Consortium Members i.e. for both its own liability as well as the liability of other Members.
 - b. that the Lead Member shall be liable for the entire scope of work and risks involved and further shall be liable and responsible for ensuring the individual and collective commitment of each of the Members of the Consortium in discharging all of their respective general obligations under this RFP;
 - c. Each Member further undertakes to be individually liable for the performance of its part of the obligations with out in any way limiting the scope of collective liability envisaged in the RFP
 - d. that the Members of the Consortium shall alone be liable for all obligations of the identified sub-contractor and clearly indemnify NDMC against any losses or third party claims arising due to the sub-contractor/consortium's default.
 - e. that the Lead Member is liable to manage the complete assignment by taking responsibility and maintain transparency around monetary terms.
7. The technical and commercial capacity and Net Worth of the Members shall satisfy the conditions of eligibility as prescribed in this RFP;
8. The nomination of the Lead Members shall be supported by a Power of Attorney, as per the format in this RFP signed by the other members of the Consortium. The duties, responsibilities and powers

of such Lead Member shall be specifically included in the Consortium Agreement. It is expected that the Lead Member would be authorized to incur liabilities and to receive instructions and payments for and on behalf of the Consortium. The NDMC expects that Lead Member should have complete responsibility pertaining to execution of Assignment;

9. Any change to the composition of the consortium can be done only with the prior approval of the NDMC. The Lead Member will be responsible for the scope of work to be delivered by the exiting member, whether he does it himself or through a new member of the consortium. In case of a new member, the Lead Member will take the prior approval of the NDMC, before on boarding the member, who is expected to possess same or better technical qualifications as well as eligibility criteria that is of the existing member to be replaced by such new member. The Lead Member is also responsible for incorporating relevant changes in the Joint Bidding Agreement, as per Annexure-4.

5.2.9 An Applicant shall not have a conflict of interest (the "Conflict of Interest") as provided in Clause 8.14 that affects the Bidding Process. Any Applicant found to have a Conflict of Interest shall be disqualified. In the event of disqualification, the NDMC shall be entitled to forfeit and appropriate the Earnest Money Deposit or Performance Security, as the case may be, as mutually agreed genuine pre-estimated loss and damage likely to be suffered and incurred by the NDMC and not by way of penalty for, inter alia, the time, cost and effort of the NDMC, including consideration of such Applicant's proposal, without prejudice to any other right or remedy that may be available to the NDMC under the RFP Document and/ or the Concession Agreement or otherwise.

5.2.10 The Applicant shall promptly inform the NDMC of any change in the status of the Applicant with reference to any of the eligibility criterion specified in clause 5.2.3 to 5.2.5, and failure to do so shall render the Applicant liable for disqualification from the Bidding Process.

5.2.11 Only those Applicants who meet the eligibility criteria specified in Clauses 5.2.3 and 5.2.5 shall qualify for technical evaluation under Clause 5.3. Applications of firms/ consortia who do not meet these criteria shall be rejected.

5.3 Technical Evaluation (Envelope B)

5.3.1 Applicants, who will found eligible in terms of Clause 5.2 above, would be considered for technical evaluation.

Technical Evaluation Framework

The Applicant's technical solution proposed in the Technical Evaluation bid shall be evaluated as per the evaluation criteria in the following table.

Section	Evaluation Criteria	Points
A	Sole Applicant /Consortium Profile	20
B	Sole Applicant /Consortium Project Experience	38
C	OEM Qualification (for Quality of products offered)	17
D	Approach & Methodology & Project Presentation/Demonstration	15
E	Proposed Resources for the Project	10
Technical Score		100

5.3.2 Criteria for Technical Evaluation

No.	Technical Evaluation Criteria	Technical Evaluation parameter	Points	Name to be given to the
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A. Sole Applicant/Consortium profile

A1	Average Annual Turnover of last 3 audited financial years (2013- 14, 2014-15, 2015-16).	Average Annual Turnover (Indian Rupees)	Percentage	8
A2	(a) ICT infrastructure (b) Telecom infrastructure (c) IT system integration services	Net Worth (Indian Rupees)	Percentage	8
A3	People in organization (Full time Employees –FTE in ICT projects)	Number of FTE	Percentage	4

B. Project Experience of Sole Applicant/ any consortium member

B1	Executing Large Information And Communications Technology(ICT) Projects	<ul style="list-style-type: none">The Applicant should have experience in executing ICT projects.Each project work Rs. 50 Cr (Indian Rupees) is considered as one unit.Points are allocated based on number of units executed	6
		Number of units	Percentage
		= 4 or >4	100

= 3	90
=2	75
=1	60

- The Applicant should have 3 experience in executing projects for deployment of environmental sensors.
- Each project of 20 sensors or more will be considered as one unit.
- Points are allocated based on number of units executed

**B2 Environmental
Sensors**

Number of units	Percentage
= 4 or >4	100
= 3	90
=2	75
=1	60

- The Applicant should have experience in projects of integration with Smart Utility Solutions such as Water - SCADA, Power, ITMS, Smart SWM, Smart Sewerage/ Drainage 10
- Each project of Indian Rupees 2 Cr. Or more for integration with Smart Utility solutions will be considered as one unit.
- Points are allocated based on number of units executed

**B3 Integration with Smart
Utility Solutions such as
Water -SCADA, Power,
ITMS, Smart SWM, Smart
Sewerage/Drainage**

Number of units	Percentage
= 4 or >4	100
= 3	90
=2	75
=1	60

**B4 Digital Signboards or
Visual Messaging Display**

- The Applicant should have experience in executing Digital Signboards /Variable Messaging Displays projects 3
- Each project of 10 Digital Signboards/ Variable Messaging Displays is considered as one unit.
- Points are allocated based on number of units executed.

Number of units	Percentage
-----------------	------------

>= 4	100
= 3	90
=2	75
=1	60

**B5 Command and Control
Center installations**

- The Applicant should have experience in executing projects for operationalization of Command and Control/Communications Centre (covering surveillance/ traffic/ disaster management/ city operations functions). 10
- Each executed project will be considered as one unit.
- Points are allocated based on number of units executed

Number of units	Percentage
-----------------	------------

= 4 or >4	100
= 3	90
=2	75
=1	60

B6 ERP System

- The Applicant should have experience in executing projects for customization/ configuration and installation of ERP system for an urban local body (Municipal Corporation / municipal council / development authority).
- Each executed project worth Indian Rupees 50 Lakh will be considered as one unit.
- Points are allocated based on number of units executed

6

Number of units	Percentage
-----------------	------------

= 4 or >4	100
= 3	90
=2	75
=1	60

C. OEM Qualification (for Quality of products offered)

The products offered by the Applicant in its bid for this project will be evaluated on the basis of manufacturer of the products as per Gartner Magic Quadrant. OEM Qualification for the following categories of the products/ equipment will be evaluated as per Gartner Magic Quadrant:

12

C1 Evaluation of the products offered on the basis of Original Equipment Manufacturer (OEM)

Parameters	Marks
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Magic Quadrant for Data Center Networking (Datacenter Switches)	4
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Magic Quadrant for Enterprise Network Firewall or Intrusion Prevention Systems	4
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Magic Quadrant for Servers	4
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In terms of Gartner Magic Quadrant, marks would be awarded as per the following criteria:

- OEM prescribed as Leaders (4 Marks)
- OEM prescribed as Challengers (2 Marks)
- OEM prescribed as Visionaries (1 Marks)
- OEM prescribed as Niche Players (1 Marks)

OEM not listed in Gartner Magic
Quadrant (0 Marks)

Evaluation of the products
offered on the basis of
Original Equipment
Manufacturer (OEM)

The smart city central control 5
application offered by the Applicant
in its bid for this project will be
evaluated on the basis of
manufacturer of the products as per
Navigant Research Leader board.
OEM Qualification for the following
categories of the products/
equipment will be evaluated as per
Navigant Research Leader board:

C2

In terms of Navigant Research Leader
board, marks would be awarded as
per the following criteria:
OEM prescribed as Leaders (5 Marks)
OEM prescribed as Contenders (3
Marks)
OEM prescribed as Challengers (2
Marks)
OEM prescribed as Followers (1
Marks)
OEM not listed in Navigant Research
Leader board (0 Marks)

D. Approach & Methodology & Project Presentation/Demonstration

Methodology & Methodology & P

evaluated:

Parameters	of	Percentage
Assessment of Proposed methodology whether it is clear, responds to the Scope of Work mentioned in Vol-2 of this RFP and leads to achieving results as per the requirements of Project, deliver the expected output and Time lines, and the degree of detail of such output.		7.5
Completeness of project plan and ease of implementation (including training and change management plan)	10	
Clarity and details shown in BOM	10	
Strategy to maintain all the SLAs and handling change requests	20	
Detailed Business Plan highlighting Revenue Streams for relevant smart elements	40	
Presentation	10	

D1 Approach & Methodology

Following parameters will be evaluated during live demonstration :

7.5

D2	Project Demonstration	Parameters	Percentage
		Demonstration of CCC & ERP, live projects/projects executed and claimed in the project experience.	70
		Demonstration of CCC & ERP, projects under implementation.	30

E. Proposed Resources for the Project

Each of the following profiles suggested by the Applicant will be evaluated:

10

E1	People on project	Profile	Percentage
		Project Manager with experience of minimum 15 years.	20
		Solution Architect with experience of minimum 10 years.	20
		IoT Expert with experience of minimum 10 years.	30
		Command & Communications/ Control Center Expert with experience of minimum 15 years.	30

Note: (i) Work Orders and Client Certificates for successful completion of such work confirming period and area of activities for the purpose of clause 5.3.2 should be enclosed. Self-certification shall be submitted by the Applicant for works executed for internal purposes. NDMC can verify such submissions / work orders / client certificates submitted by the Applicant through any means, including site visits.

- (i) If the applicant is a 100% subsidiary of any legal entity, then the financial and technical capabilities of such parent legal entity may be considered for purpose of Technical and Financial eligibility of Clause 5.2.3 and 5.3.2, subject to the condition that the parent company will own the responsibility of its subsidiary company."

- (ii) System Integrator has to ensure that proposed OEM should not have been blacklisted by any sovereign government and barred from participating in government projects due to security reasons in the last five years.

5.3.3 The Technical Evaluation of Applicant's proposals (Envelope B) shall be based on:

- (i) Technical Proposal Evaluation;
- (ii) Technical Presentation; and
- (iii) Demonstration.

5.3.4 Technical Presentation

The Applicants, who will found eligible in terms of Clause 5 above, will be asked to give a presentation on its proposal on date, time and place as communicated to the Applicant by the NDMC in writing before the Bid Evaluation Committee.

5.3.5 Demonstration and Client Visit

5.3.5.1 The Demonstration will be evaluated as per the following procedure:

- (i) Each shortlisted Applicant shall demonstrate the solution offered.
- (ii) The Applicant is expected to demonstrate the complete proposal as per RFP document;
 - a. Integration of hardware and software and functioning of the same simultaneously;
 - b. Interface in between various components of the projects on a common communication platform;
 - c. All equipments / applications can communicate back and forth with the centralized Command and Control Centre, and comply to all the Scope, Requirements, Standards etc. mentioned in the RFP document.
- (iii) The demonstration should provide a representative solution to integrate various aspects of the project as per the scope of the project.

5.3.5.2 Demonstration shall be in English.

5.3.5.3 NDMC may visit various client sites national or global to validate the project citations and implementation experience quoted by the Applicant. The NDMC will bear the expenses on the NDMC officers/officials tour and the Applicant shall facilitate the same.

5.3.5.4 All the expenses incurred by the Applicant for the purposes mentioned in this clauses 5.3.4 and 5.3.5 will be borne by the Applicant.

5.3.6 Manpower deployment

NDMC would like to give emphasis on the suitable technical staff proposed for the concession period. Applicant may propose personnel for different skill-sets required for different responsibilities during Project Implementation (upto GO-LIVE) and Post-Implementation (after GO-LIVE) periods. Following documentation is expected in this section:

- (i) Overall Project Team (for both Project Implementation & Maintenance phases), consists of Top Management Team and Core Delivery Team (Implementation, O&M and On-Premise Teams) as per requirement.
- (ii) Escalation Chart for the entire Project Duration
- (iii) Summary Table giving Qualification, Experiences, Certifications, Relevance to the project, including detail CVs.
- (iv) Undertaking stating that deployed manpower will be exactly same as that proposed in the Bid for Technical Evaluation.

5.3.6.1 Key Personnel criteria

SI shall provide adequate number of personnel, each responsible for a specific role within the project. SI shall provide clear definition of the role and responsibility of each individual personnel.

SI shall have a defined hierarchy and reporting structure for various teams that shall be part of the project. SI has to provide the list of proposed Resources for the Project. Any changes in Resource deployment will have to be approved by the NDMC.

Following table indicates the minimum qualification required for Key Positions identified for this project. However, SI shall independently estimate the teams size required to meet the requirements of Service Levels as specified as part of this tender.

Except for Project Director, all other proposed positions shall be Onsite throughout the entire project implementation phase.

S.No.	Position	Minimum Qualification & Experience
1.	Project Director (As per requirement)	a) Education: MCA/M. Tech/MBA& B. Tech/B.E. from a recognized educational institution b) Education: MCA/M. Tech/MBA& B. Tech/B.E. from a recognized educational institution
2.	Project Manager (Full Time)	a) Education: MCA/M. Tech/MBA& B. Tech/B.E. from a recognized educational institution b) Experience: Minimum 15 years in IT sector. Should have more than 5 years of experience of handling such large projects as a project manager c) Should preferably have PMP or Prince2 certification
3.	Solution Architect (Full Time)	a) Education: MCA/M. Tech/B. Tech/B.E. from a recognized educational institution b) Experience: Minimum 10 years in IT sector. Should have experience of more than 3 years as a Solution Architecture in large projects of similar nature
4.	Command & Communications/Control Center Expert (Full Time)	a) B.Tech / M.Tech/Post Graduate from a recognized educational institution b) Experience: Minimum 15 years. Should have experience in designing & implementing Command Center for minimum 2 projects of similar nature.
5.	IOT Expert (As per requirement)	a) B.Tech / M.Tech/Post Graduate from a recognized educational institution b) Experience: Minimum 10 years. Should have experience in designing & implementing IOT for minimum 2 projects of similar nature.
6.	QA Manager (As per requirement)	a) B.Tech / M.Tech/MBA/MCA from a recognized educational institution b) Experience: Should have a minimum 5 years of experience

7. Master Trainer
(As per requirement)

- a) B.Tech / M.Tech/MBA/MCA from recognized educational institution
- b) Experience :Should have a minimum 4 years of experience in conducting trainings for similar applications & solutions

Manpower plan for Implementation Phase to be provided as per format provided in 7.5.3 (I). Apart from the above-mentioned resources, the Applicant shall also propose manpower to be deployed during the Operation & Maintenance phase of the Project as provided in the format 7.5.3 II

S.No.	Position	Minimum Qualification & Experience
1.	Project Director (Part time)	a) Education: MCA/M. Tech/MBA& B. Tech/B.E. from a recognized educational institution b) Education: MCA/M. Tech/MBA& B. Tech/B.E. from a recognized educational institution
2.	Project Manager (Full time)	a) Education: MCA/M. Tech/MBA& B. Tech/B.E. from a recognized educational institution b) Experience: Minimum 15 years in IT sector. Should have more than 5 years of experience of handling such large projects as a project manager c) Should preferably have PMP or Prince 2 certification
3.	Data Base Manager (Full time)	a) Education: MCA/M. Tech/B. Tech/B.E. from a recognized educational institution b) Experience: Minimum 5 years in IT sector. Should have experience of more than 3 years as a Data Base Manager in large projects of similar nature
4.	Command & Communications/Control Center Expert (Full time)	a) B.Tech / M.Tech/Post Graduate from a recognized educational institution b) Experience: Minimum 5 years. Should have experience in designing, implementing and maintenance of Command Center for minimum 2 projects of similar nature.
5.	IOT Expert (on requirement basis)	a) B.Tech / M.Tech/Post Graduate from a recognized educational institution b) Experience: Minimum 5 years. Should have experience in designing & implementing IOT for minimum 2 projects of similar nature.
6.	QA Manager (On requirement basis)	a) B.Tech / M.Tech/MBA/MCA from a recognized educational institution b) Experience: Should have a minimum 5 years of experience
7.	FMS Team (24X7)	
8.	Any other Resources Required	

Any additional or support manpower shall be estimated and should be accounted for in the Commercial proposal by the selected Applicant, so that, the project as per the scope defined and agreement are fulfilled and the project objectives are met.

5.3.7 Technical Solution Proposed for the Project (Approach, Methodology, Project Management, Execution Methodology, SLA Management)

Broad areas to be covered in the Technical Solution documentation are given below:

- (i) Bill of Material (i.e. un-priced Financial Bid format): This document should give indication of all the proposed cost components, without specifying the costs. Applicant should note that the bid shall get disqualified if Applicant gives price details in the technical document.
- (ii) Describe the proposed Technical Solution for each of the initiative, namely Command and Control Centre including Data Centre, integration with other applications and other scope defined in the RFP. Following should be captured in the same:
 - a. Detailed description of the design and technical solution and various applications and components including make of equipment or sizing of infrastructure (including diagrams and calculations wherever applicable);
 - b. Compliance to technical requirements specified in the scope of work;
 - c. Technical Design and clear articulation of benefits to NDMC of various components of the solution
 - d. Strength of the Applicant to provide services including examples or case studies of similar solutions deployed for other clients;
 - e. Any other parameter.
- (iii) Provide detailed Approach and Methodology for Implementation and Post-Implementation periods.
- (iv) Approach & Methodology for Management of SLA Requirements specified in the RFP document. Applicant is required to clearly articulate how each of the SLA requirements would be adhered in a table format.
- (v) Detailed Project Plan with timelines, resource allocation, milestones etc. in for supply, installation and commissioning of the physical and IT components for the Command and Control Centre including data centre and networking.
- (vi) Insights into Best and latest Industry practices and standards.

5.3.8 Compliance Table to the IT/ Non-IT Components

The RFP document has specified the minimum specifications for various components. Applicant has to give a comprehensive compliance sheet for the equipment/software proposed by them including make and model number.

5.3.9 Technical Scoring and Evaluation

5.3.9.1 For the purpose of arriving at Technical Score, the bid shall be evaluated against the Technical Parameters, with respective weightage, as given in RFP document.

5.3.9.2 The Total Technical Score will be calculated out of 100 Marks. The Applicant has to score the following minimum Qualifying Marks to qualify in the Technical Evaluation Criteria:

- 60% marks in individual Technical Evaluation Criteria; and
- 75% marks out of total 100 Marks of Technical Evaluation criteria.

5.3.9.3 The Applicants scoring marks less than the minimum qualifying marks as mentioned above shall be disqualified for Financial Bid Opening (Envelope C). The Applicants scoring marks equal to or more than the minimum qualifying marks as mentioned above shall be declared as Technically Qualified Applicants.

5.4 FINANCIAL BID

5.4.1 Submission of Financial Bids

- 5.4.1.1 The Applicant shall quote the unit rate and total amount of equipment to be supplied as per the bill of material table
- 5.4.1.2 The information regarding cost of equipments, cost of installations, manpower costs and O&M costs throughout the O&M period should be provided as per the format given in the RFP document (Annexure- : Table 1 to 4).
- 5.4.1.3 Any bid which does not conform to the formats prescribed above in clause 5.4.1.1 and 5.4.1.2 will be disqualified.

All bids which are technically qualified shall be invited for financial bid opening. The lowest price bid for the complete scope of work would be considered as preferential bid and would be invited for further discussion on Contract Agreement and price negotiation if required

6 Appointment of System Integrator

6.1 Selection of Applicant

- 6.1.1 After selection of Preferred Applicant in terms of Clause 5.6, a Letter of Acceptance (the "LOA") shall be issued, in duplicate, by the NDMC to the Preferred Applicant and the Preferred Applicant shall, within 7 (seven) days of the receipt of the LOA, sign and return the duplicate copy of the LOA in acknowledgement thereof. In the event the duplicate copy of the LOA duly signed by the Preferred Applicant is not received by the stipulated date, the NDMC may, unless it consents to extension of time for submission thereof, appropriate the Earnest Money Deposit of such Applicant as Damages on account of failure of the Preferred Applicant to acknowledge the LOA.
- 6.1.2 Issue of Letter of Acceptance (LOA) shall not be construed as any right given in favour of the Preferred Applicant, and NDMC reserves the right to annul the process of award, including signing of concession agreement, of this project without any liability or any obligation for such annulment, and without assigning any reasons there for.
- 6.1.3 Upon issue of LOA to the Preferred Applicant, NDMC will release the EMD of all Applicants, except the Preferred Applicant.
- 6.1.4 After acknowledgement of the LOA as aforesaid by the Preferred Applicant, it shall cause the Preferred Applicant to execute the Concession Agreement within the period prescribed in Clause 1.7. The Preferred Applicant shall not be entitled to seek any deviation, modification or amendment in the Concession Agreement.
- 6.3 Performance Bank Guarantee
- 6.3.1 The Preferred Applicant will be required to submit a Performance Bank Guarantee (PBG) equivalent to 10% of the total contract amount. To the NDMC within 15(fifteen) days from the date of receipt of Letter of Acceptance.
- 6.3.2 In case of a Consortium, the Lead Applicant of Consortium shall be liable to pay Performance Bank Guarantee. Performance Bank Guarantee shall be valid for 180 days beyond the term of the Concession Agreement. The Performance Guarantee shall contain a claim period of three months from the last date of validity.
- 6.3.3 In case, the Preferred Applicant fails to submit performance bank guarantee within the time stipulated, the NDMC at its discretion may cancel the Letter of

Acceptance issued to the Preferred Applicant without giving any notice and may invoke the EMD of such Preferred Applicant.

- 6.3.4 NDMC shall invoke the Performance Bank Guarantee in case the selected Concessionaire fails to discharge their contractual obligations during the Concession Agreement period or NDMC incurs any loss due to Concessionaire's negligence in carrying out the project implementation as per the agreed terms and conditions.

6.4 Release of Performance Bank Guarantee

The Performance Bank Guarantee will be released only after meeting all of the following conditions:

- After successful implementation of this project;
- Successful operation and maintenance of all the services under this agreement;
- Payment of all the penalties throughout implementation, operation and maintenance period;
- Payment of all concession fees as per agreement alongwith penalties, if any;
- At the end of the concession period, Performance Bank Guarantee of Concessionaire will be released after successful handing over all the assets and services, including all hardware, software, network and services in working conditions. If any deficiency noticed at the time of handing over the Concessionaire has to get rectified/replaced the same at his own cost within 15 days otherwise NDMC will get it rectified at the risk and cost of the Concessionaire.
- On production of clearance for all applicable dues, if any.

6.5 Signing of Contract Agreement

- 6.5.1 Subsequent to NDMC's issuing Letter of Acceptance to the Preferred Applicant, the Preferred Applicant shall execute the Contract Agreement with the NDMC within a period of 15 days from the date of issue of the Letter of Acceptance subject to the condition that the Performance Bank Guarantee has been deposited by the Preferred Applicant within the prescribed period.

- 6.5.2 Failure of the Preferred Applicant to furnish the Performance Bank Guarantee or execute the Agreement within the prescribed time shall cause the EMD of the Preferred Applicant to be liquidated. The Preferred Applicant will be liable to indemnify NDMC for any additional cost or expense, incurred on account of failure of the Preferred Applicant to execute the Agreement.

- 6.5.3 Notwithstanding anything to the contrary mentioned above, NDMC at its sole discretion shall have the right to extend the time lines for execution of Agreement on the request of the Preferred Applicant, provided the same is bona-fide.

6.6 TAX LIABILITY

- 6.6.1 The System Integrator shall be responsible for all the statutory taxes, statutory dues, local levies, Service tax, etc. to be paid to Government / Statutory bodies / Authorities etc. for the services rendered by it. There will be no tax liability upon the NDMC whatsoever on any account.

- 6.6.2 The System Integrator indemnifies NDMC from any claims that may arise from the statutory authorities in connection with this License.

- 6.6.2 The System Integrator should ensure enforcement of Applicable Laws including Labour Laws, Minimum Wages Laws etc. and at no point of time should the NDMC be drawn into litigation on these counts.

6.7 Failure to Agree with the Terms and Conditions of the RFP document

6.7.1 The performance of Applicant will be continuously reviewed by NDMC to maintain the terms & conditions as specified in this RFP document. Based on the review, if the System Integrator fails to satisfy / maintain their commitment with respect to SLAs, Performance, Timely Implementation of the Project etc. the Contract Agreement may be terminated by giving 30 days notice as cure period and if it is not cured within 30 days then NDMC will terminate the Contract Agreement by giving further notice of 30 days for termination of Contract Agreement. NDMC's decision in this regard will be final. In case of termination of this Concession Agreement, NDMC shall have the right to avail services of any other Applicant / agency to continue the project without any let or hindrance from Applicant and the Applicant has to provide all necessary assistance for smooth switch over. NDMC will not pay any charges to the Applicant. Failure of the Preferred Applicant / System Integrator to agree with the RFP document shall constitute sufficient grounds for the annulment of the award, in which event NDMC may take a decision to re-issue the RFP document. In such a case, NDMC shall invoke the PBG of the most responsive Applicant / Preferred Applicant.

6.7.2 In addition, NDMC reserves the right to appropriate the EMD / Performance Bank Guarantee given by the Applicant / System Integrator and black-list the Applicant / System Integrator.

6.8 Payment Terms

6.8.1 Payments for the Applicant will be done on the basis of the table given below. The various timelines and related milestones have been below and payment will be made as per the achievement of milestones of RFP

S.No.	Milestone	Payment
P1	On Completion of Civil, Electrical, Air-conditioning work of CCC and DC.	100% of the value of this component after deducting security deposit @ 10% of total value of this component.
P2	Upon delivery & inspection of IT hardware.	100% of the CAPEX Value of the items delivered subject to submission of BG of equivalent amount.
P3	Integration and commissioning of 1/3 rd services defined in section 15.	33% of the cost of software and its integration after deducting security deposit @ 10%. 1/3 rd of the BG kept against P2 will also be released.
P4	Integration and commissioning of 2/3 rd services defined in section 15.	33% of the cost of software and its integration after deducting security deposit @ 10%. 1/3 rd of the BG kept against P2 will also be released.
P5	Go-live of complete project for all components and services as per timelines	100% of the CAPEX Value after deducting security deposit @ 10% of total CAPEX value. Balance BG for amount released as per P2 will also be released. 10% security deposit can also be released against BG of equivalent amount.
P6	Quarterly payments after Go-live of complete project	100% of OPEX value divided equally across each quarter after deducting penalties, if any.

1. All payments will be made against invoices raised by the Applicant with required supporting documents
2. Payment to the selected Applicant would be on milestone basis for P1, P2, P3, P4 & P5 and on quarterly for P6 in a year based on the invoice submitted in accordance with the payment schedule mentioned above and the deductions based on the performance on the SLAs defined in this RFP. Additionally, all payments to be made by NDMC to the SI shall

be inclusive of all statutory levies, duties, taxes and other charges whenever levied / applicable (including Service Tax as applicable). Service Tax will be reimbursed after submission of proof of depositing the service tax.

3. Taxes and Statutory Payments

4. All payments agreed to be made by NDMC to the Applicant/SI in accordance with the Bid shall be inclusive of all statutory levies, duties, taxes and other charges whenever levied/applicable.
5. The Applicant shall bear all personal/income taxes levied or imposed on it and its personnel, etc. on account of payment received under this Contract. The Applicant/SI shall bear all income/corporate taxes, levied or imposed on the Applicant on account of payments received by it from purchaser for the work done under this Contract. The Applicant shall bear all other taxes such as sales tax, octroi, VAT, custom duty, service tax, etc. if there is change in tax rate or introduction of any new tax, same shall be passed to each party i.e. if tax rate reduces, Applicant will charge lower rate and if tax rate increases or new tax is introduced, Applicant will be compensated for additional percentage or new tax.

7. FRAUD AND CORRUPT PRACTICES

- 7.1 The Applicants and their respective officers, employees, agents and advisers shall observe the highest standard of ethics during the Bidding Process and subsequent to the issue of the Letter of Acceptance (LOA) and during the subsistence of the Contract Agreement. Notwithstanding anything to the contrary contained herein, or in the LOA or the Contract Agreement, the NDMC may reject a Bid, withdraw the LOA, or terminate the Contract Agreement, as the case may be, without being liable in any manner whatsoever to the Applicant or System Integrator, as the case may be, if it determines that the Applicant or System Integrator, as the case may be, has, directly or indirectly or through an agent, engaged in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice in the Bidding Process. In such an event, the NDMC shall be entitled to forfeit and appropriate the EMD or Performance Security, as the case may be, as Damages, without prejudice to any other right or remedy that may be available to the NDMC under the RFP document and/ or the Contract Agreement, or otherwise.
- 7.2 Without prejudice to the rights of the NDMC under Clause 6.1 hereinabove and the rights and remedies which the NDMC may have under the LOA or the Contract Agreement, or otherwise if an Applicant or System Integrator, as the case may be, is found by the NDMC to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice during the Bidding Process, or after the issue of the LOA or the execution of the Contract Agreement, such Applicant or System Integrator shall not be eligible to participate in any tender or RFP document issued by the NDMC during a period of 2 (two) years from the date such Applicant or System Integrator, as the case may be, is found by the NDMC to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practices, as the case may be.
- 7.3 For the purposes of this Clause 6, the following terms shall have the meaning hereinafter respectively assigned to them:
- (a) **"corrupt practice"** means (i) the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the actions of any person connected with the Bidding Process (for avoidance of doubt, offering of employment to or employing or engaging in any manner whatsoever, directly or indirectly, any official of the NDMC who is or has been associated in any manner, directly or indirectly, with the Bidding Process or the LOA or has dealt with matters concerning the Contract Agreement or arising therefrom, before or after the execution thereof, at any time prior to the expiry of one year from the date such official resigns or retires from or otherwise ceases to be in the service of the NDMC, shall be deemed to constitute influencing the actions of a person connected with the Bidding Process); or (ii) save and except as permitted under the Clause 4.1.22 of this RFP document, engaging in any manner whatsoever, whether during the Bidding Process or after the issue of the LOA or after the execution of the Contract Agreement, as the case may be, any person in respect of any matter relating to the Project or the LOA or the Contract Agreement, who at any time has been or is a legal, financial or technical adviser of the NDMC in relation to any matter concerning the Project;
 - (b) **"fraudulent practice"** means a misrepresentation or omission of facts or suppression of facts or disclosure of incomplete facts, in order to influence the Bidding Process;
 - (c) **"coercive practice"** means impairing or harming, or threatening to impair or harm, directly or indirectly, any person or property to influence any person's participation or action in the Bidding Process;
 - (d) **"undesirable practice"** means (i) establishing contact with any person connected with or employed or engaged by the NDMC with the objective of

- canvassing, lobbying or in any manner influencing or attempting to influence the Bidding Process; or (ii) having a Conflict of Interest; and
- (e) **"Restrictive practice"** means forming a cartel or arriving at any understanding or arrangement among Applicants with the objective of restricting or manipulating a full and fair competition in the Bidding Process.

8. MISCELLANEOUS

8.1 Jurisdiction of Court

The Bidding Process shall be governed by, and construed in accordance with, the laws of India. The courts at Delhi/New Delhi shall have the exclusive jurisdiction over all disputes arising under, pursuant to and/ or in connection with the Bidding Process.

8.2 The NDMC, in its sole discretion and without incurring any obligation or liability, reserves the right, at any time, to;

- (a) suspend and/ or cancel the Bidding Process and/ or amend and/ or supplement the Bidding Process or modify the dates or other terms and conditions relating thereto;
- (b) consult with any Applicant in order to receive clarification or further information;
- (c) retain any information and/ or evidence submitted to the NDMC by, on behalf of, and/ or in relation to any Applicant; and/ or
- (d) independently verify, disqualify, reject and/ or accept any and all submissions or other information and/ or evidence submitted by or on behalf of any Applicant.

8.3 It shall be deemed that by submitting the Bid, the Applicant agrees and releases the NDMC, its employees, agents and advisers, irrevocably, unconditionally, fully and finally from any and all liability for claims, losses, damages, costs, expenses or liabilities in any way related to or arising from the exercise of any rights and/ or performance of any obligations hereunder, pursuant hereto and/ or in connection with the Bidding Process and waives, to the fullest extent permitted by applicable laws, any and all rights and/ or claims it may have in this respect, whether actual or contingent, whether present or in future.

8.4 The Applicant shall take all necessary precautions to prevent any nuisance or inconvenience to the owners, tenants or occupiers of adjacent properties during execution of work.

8.5 In the event of any restrictions being imposed by the NDMC, security agencies, traffic agencies, or any other authority in the working area, System Integrator shall strictly follow such restrictions and nothing shall be excused from doing the stipulated work on this account. The loss of time on this account, if any, shall have to be made by deploying additional resources to complete the work in time. Other restrictions are given as under:-

- a) The movement of trucks and vehicles shall be regulated in accordance with rules and regulations as approved by competent authority;
- b) The System Integrator shall inform in advance, the truck registration numbers, ownerships of the trucks, names and address of the drivers;
- c) Labour huts/ stay of workmen will not be allowed at project area and in NDMC area;
- d) The System Integrator shall be responsible for behavior and conduct of his staff. The System Integrator shall engage no staff with doubtful integrity or having a bad record;
- e) The workers of the System Integrator should strictly observe code of conduct and manner befitting security. If any employee of the System Integrator fails to absolve proper conduct, the Concessionaire shall be liable to remove him from deployment, immediately in receipt of the instructions of the NDMC;
- f) The System Integrator shall be responsible for the conduct and behavior of its workers employed for the work;

- g) The NDMC shall have the right, to have any person removed who is considered unacceptable due to the reasons of security, efficiency, etc. Similarly, System Integrator reserves the right to change the staff as per its requirement;
- h) The NDMC shall not be responsible for any compensation, which may be required to be paid to the worker(s) of the System Integrator consequent upon any injury/ mishap.

8.6 The Applicant has to give the month-wise and quarterly scheduled completion plan alongwith the technical bid. However total implementation will have to be completed in 12(twelve) months. If the targets for each quarter is not completed then necessary penalties will be impose and also no further permission will be given to lay further fibre network or to execute any kind of work.

8.7 Commercial services will only be allowed after completion of target of each quarter for services to be delivered to NDMC.

8.9 Indemnity Clause

The System Integrator shall defend, indemnify, release and hold harmless the NDMC from and against any and all loss, damage, injury, liability, demands and claims for injury to or death of any person (including an employee of the System Integrator or NDMC) or for loss of or damage to property (including System Integrator or NDMC property), in each case whether directly or indirectly resulting from or arising out of System Integrator performance under this RFP document / contract agreement. This indemnity shall apply whether or not NDMC was or is claimed to be passively, concurrently, or actively negligent, and regardless of whether liability without fault is imposed or sought to be imposed on one or more of the NDMC. Such indemnity shall not apply to the extent that it is void or otherwise unenforceable under applicable law in effect on or validly retroactive to the date of this RFP document / contract agreement and, shall not apply where such loss, damage, injury, liability, death or claim is the result of the sole negligence or willful misconduct of the NDMC.

8.10 Applicable Law(s)

The System Integrator has to follow all the applicable statues, laws, bye-laws, rules, regulations, orders, ordinances, protocols, codes, guidelines, policies, notices, directions, judgments, decrees or other requirements or official directive of any government authority or court or other law, rule or regulation approval from the relevant governmental authority, government resolution, directive, or other government restriction or any similar form of decision of, or determination by, or any interpretation or adjudication having the force of law in India as amended form time to time while providing these services.

8.11 Integrity Pact

The Applicant shall submit a duly signed integrity pact as per Annexure-2 along with its proposal as per the RFP document.

8.12 Documents and Information

The documents including this RFP document and all attached documents, provided by the NDMC are and shall remain or become the property of the NDMC and are transmitted to the Applicants solely for the purpose of preparation and the submission of a Bid in accordance herewith. Applicants are to treat all information as strictly confidential and shall not use it for any purpose other than for preparation and submission of their Bid. The provisions of this Clause shall also apply mutatis mutandis to Bids and all other documents submitted by the Applicants, and the NDMC will not return to the Applicants any Bid, document or any information provided along therewith.

8.13 Language

The Bid and all communications in relation to or concerning the RFP Document and the Bid shall be in English language. If any supporting document is in any language other than English, translation of the same in English language duly attested by the Applicant, shall be provided. In case of discrepancy, English translation shall govern.

8.14 Conflict of Interest

An Applicant shall be deemed to have a Conflict of Interest affecting the Bidding Process, if:

- (i) the Applicant, its Member or Associate (or any constituent thereof) and any other Applicant, its Member or any Associate thereof (or any constituent thereof) have common controlling shareholders or other ownership interest; provided that this disqualification shall not apply in cases where the direct or indirect shareholding of an Applicant, its Member or an Associate thereof (or any shareholder thereof having a shareholding of more than 5% (five per cent) of the paid up and subscribed share capital of such Applicant, Member or Associate, as the case may be) in the other Applicant, its Member or Associate, is less than 5% (five per cent) of the subscribed and paid up equity share capital thereof; provided further that this disqualification shall not apply to any ownership by a bank, insurance company, pension fund or a public financial institution referred to in sub-section (72) of section 2 of the Companies Act, 2013. For the purposes of this Clause, indirect shareholding held through one or more intermediate persons shall be computed as follows: (aa) where any intermediary is controlled by a person through management control or otherwise, the entire shareholding held by such controlled intermediary in any other person (the "Subject Person") shall be taken into account for computing the shareholding of such controlling person in the Subject Person; and (bb) subject always to sub-clause (aa) above, where a person does not exercise control over an intermediary, which has shareholding in the Subject Person, the computation of indirect shareholding of such person in the Subject Person shall be undertaken on a proportionate basis; provided, however, that no such shareholding shall be reckoned under this sub-clause (bb) if the shareholding of such person in the intermediary is less than 26% of the subscribed and paid up equity shareholding of such intermediary; or
- (ii) a constituent of such Applicant is also a constituent of another Applicant; or
- (iii) such Applicant, its Member or any Associate thereof receives or has received any direct or indirect subsidy, grant, concessional loan or subordinated debt from any other Applicant, its Member or Associate, or has provided any such subsidy, grant, concessional loan or subordinated debt to any other Applicant, its Member or any Associate thereof; or
- (iv) such Applicant has the same legal representative for purposes of this Bid as any other Applicant; or
- (v) such Applicant, or any Associate thereof, has a relationship with another Applicant, or any Associate thereof, directly or through common third party/ parties, that puts either or both of them in a position to have access to each other's information about, or to influence the Bid of either or each other; or
- (vi) such Applicant or any Associate thereof has participated as a consultant to the NDMC in the preparation of any documents, design or technical specifications of the Project.

For purposes of this Clause, Associate means, in relation to the Applicant/ Consortium Member, a person who controls, is controlled by, or is under the common control with such Applicant/ Consortium Member (the "Associate"). As used in this definition, the expression "control" means, with respect to a person which is a company or corporation, the ownership, directly or indirectly, of more than 50% (fifty per cent) of the voting shares of such person, and with respect

to a person which is not a company or corporation, the power to direct the management and policies of such person by operation of law.

8.15 Non Transferability of RFP document

This RFP document is non-transferable.

8.16 Severability

If for any reason whatsoever any provision of this Agreement is or becomes invalid, illegal or unenforceable or is declared by any court of competent jurisdiction or any other instrumentality to be invalid, illegal or unenforceable, the validity, legality or enforceability of the remaining provisions shall not be affected in any manner, and the Parties shall negotiate in good faith with a view to agreeing upon one or more provisions which may be substituted for such invalid, unenforceable or illegal provisions, as nearly as is practicable. Provided failure to agree upon any such provisions shall not be subject to dispute resolution under this Agreement or otherwise.

8.18 Notices

Unless otherwise stated, notices to be given under this Agreement including but not limited to a notice of waiver of any term, breach of any term of this Agreement and termination of this Agreement, shall be in writing and shall be given by hand delivery, recognized international courier, mail, telex or facsimile transmission and delivered or transmitted to the Parties at their respective addresses set forth below:

If to NDMC:

_____ (designation of authorised officer)

Fax No. _____

If to the Concessionaire:

The _____ (Designation)

Fax No. _____

Or such address, telex number, or facsimile number as may be duly notified by the respective Parties from time to time, and shall be deemed to have been made or delivered:

(i) in the case of any communication made by letter, when delivered by hand, by recognised international courier or by mail (registered, return receipt requested) at that address, and

(ii) in the case of any communication made by telex or facsimile, when transmitted properly addressed to such telex number or facsimile number.

8.20 Waiver

(a) Waiver by either Party of any default by the other Party in the observance and performance of any provision of or obligations under this Agreement: shall not operate or be construed as a waiver of any other or subsequent default hereof or of other provisions or obligations under this Agreement;

i. shall not be effective unless it is in writing and executed by a duly authorised representative of such Party; and

ii. shall not affect the validity or enforceability of this Agreement in any manner.

(b) Neither the failure by either Party to insist on any occasion upon the performance of the terms, conditions and provisions of this Agreement or any

obligation hereunder nor time or other indulgence granted by a Party to the other Party shall be treated or deemed as waiver/breach of any terms, conditions or provisions of this Agreement.

9 Punitive Clause

NDMC will impose a fine on the SI for not meeting the **Implementation Service Level Agreements (SLAs)** and **Post-Implementation SLAs** as detailed below:

- 9.1 **Implementation SLAs:** These SLAs shall be used to evaluate the timelines for completion of deliverables that are listed in the deliverable. These SLAs will be applicable for commissioning of the project (upto GO-LIVE). For delay of every week in completion & submission of the deliverable mentioned in the proposal, the Concessionaire would be charged with penalty as follows:

Implementation phase related performance levels

Measurement	Definition	Target	Penalty
Manpower Deployment			
Team mobilization and commencement of work	SI is expected to mobilize project team for commencement of work. Commencement of work would mean reporting and availability of SI's resources (90% Key Personnel as per the RFP requirement) at the Authority's office for the project within defined period of 15 days and remaining 10% in next 15 days).	Within 15 days of issuance of Lol or contract agreement, whichever is earliest.	Delay beyond 7 calendar days = 0.2% of the contract value Delay beyond 8-15 calendar days = 0.5% of the contract value. Delay beyond 15 days may lead to Termination of the Contract at the discretion of the NDMC.

Delay in execution of work (Weeks)	Penalty value
Per week	0.5% per week of the CAPEX of the delayed service which is not made functional
Maximum	10% of the total CAPEX of the project

In case, the Concessionaire reaches maximum of penalty at any point of time, NDMC reserves the right to invoke the termination clause.

9.2 Post-Implementation SLAs

- 9.2.1 These SLAs shall be used to evaluate the performance of the services on monthly basis but penalties would be levied for cumulative performance for the quarter basis.
- 9.2.2 Penalty levied for non-performance as per SLA requirements shall be deducted from the payment due to the SI. If the penalties amount exceeds 25% of the OPEX cost in a year then NDMC will have the right to terminate the agreement.
- 9.2.3 The SLA parameters shall be measured for each of the sub systems' SLA parameter requirements and measurement methods, through appropriate SLA Measurement tools to be provided by the SI and audited by NDMC for accuracy and reliability. The SI would need to configure the SLA Measurement Tools such

that all the parameters as defined under SLA matrix given below. Post-implementation SLAs, should be measured and appropriate reports be generated for monitoring the compliance.

9.2.4 In the event of non-compliance to this condition, NDMC reserves the right to invoke the termination clause. All the activities and obligations pursuant to the termination, shall be as per Termination Clause as provided in this RFP document.

9.2.5 Service Level Agreement

The purpose of this Service Level Agreement (hereinafter referred to as SLA) is to clearly define the levels of service which shall be provided by the SI to NDMC for the duration of this Contract.

The benefits of the SLA are as follows:

- Increasing client/ client organization satisfaction with IT services
- Reducing the risk of not meeting business requirements for IT services
- Better communication and information flows between IT staff and customers
- Standards and guidance for IT staff
- Greater productivity and better use of skills and experience
- A quality approach to IT services

The NDMC shall regularly review the performance of the services being provided by the SI and the effectiveness of this SLA. It would also form a baseline for the NDMC to compute payment for the SI.

The State Designated Agency will also review the SLA periodically. Suggested time line is monthly for the first 2 quarters and later every 6 months.

9.2.5.1. Definitions

For purpose of this Service Level Agreement, the definitions and terms as specified in the contract along with the following terms shall have the meanings set forth below:

- "Availability" shall mean the time for which the services and facilities are available for conducting operations from the equipment hosted in the Data Center.
- "Downtime" is the time the services and facilities are not available to end users and excludes the scheduled outages planned in advance for the Data Center and the link failures that are not SI's responsibility. "Helpdesk Support" shall mean the 24x7x365 center which shall handle Call Logging, Fault reporting, Trouble Ticketing and related enquiries during this contract period.
- "Incident" refers to any event / abnormalities in the functioning of the Data Center Equipment / Services that may lead to disruption in normal operations of the Data Center services.
- "Service Window" shall mean the duration for which the facilities and services shall be available at the Data Center. Service window in this case shall be 24x7x365.
- "User" can be any employee within the CCC

9.2.5.2. Response and Resolution Time

Broad level Priority classification along with time frame for Response / Resolution time is showcased below:

- Response time: is defined as the time between receipt of the incidence (helpdesk call/ receipt of alarm generated by management system) and a support team member begins working on the incidence.
- Resolution time: is defined as the total time between receipt of the incidence (helpdesk call/receipt of alarm generated by management system) and the incidence been resolved.
- Service Window: is defined in terms of Prime Working Hours (PWH) and Extended Working Hours (EWH)

PWH (Prime Working Hours): 8:00 AM to 8:00 PM all days

EWH (Extended Working Hours): 8:00 PM to 8:00 AM all days

Table 3: Priority levels along with Response time and Resolution time

Severity	Response Time		Resolution Time	
	PWH	EWH	PWH	EWH
1	10 Minutes	20 Minutes	Within 60 Mins	Within 240 Mins
2	20 Minutes	60 Minutes	Within 240 Mins	Within 480 Mins
3	30 Minutes	120 Minutes	Within 480 Mins	Within 720 Mins

- SI has to provide required equipment within the stipulated resolution time
- MTTR (Maximum Time To Repair) for any of the equipment's is 3 days beyond which the SI has to provide the replacement for the same or higher configuration (compatible /interoperable) in addition to above SI has to ensure the replacement, if any, is updated in DC inventory.
- Downtime shall be considered as per service window defined above and net impact on operations with reference to the time of incident receipt (helpdesk call/ receipt of alarm generated by management system).
- If a severity one incident reoccurs within two hours of resolution, downtime will be calculated from time of first occurrence.
- In case the incident of severity level 2 or 3 repeats within 2 days then the same incident will be registered with one level severity up.
- 100% of the calls will be attended to within the stipulated response time - Measured on a monthly basis.
- 100% of the calls / incidences will be closed within the stipulated resolution time - Measured on a monthly basis
- The resolution times will be considered with respect to the service window.

The SI should maintain an inventory of critical items that will be required on an ongoing basis to ensure the uptime of the CCC.

- Resolutions norms will not include WAN link related issues or any product/ service not supplied by Applicant.
- Pre-approved downtime will not be considered for penalty. The pre-approved downtime will be a window for regular maintenance schedules, which will have to be discussed every time during the SLA meetings.

9.2.5.3. Setting Priority Levels

The Helpdesk will make every effort to resolve issues at the time of the service call / incidences. This will be the initial method for resolving issues before assigning a priority level. Helpdesk staff will log and assign priorities for all requests not resolved at the time of the call / incidences.

Incident priority is primarily formed out of its Impact and Urgency. The helpdesk will maintain a matrix as per the EMS deployed which will automatically calculate incident severity out of the simple value of Impact x Urgency

Severity = Impact X Urgency

- Impact of the incident is the measure of how business critical it is.
- Urgency is a necessary speed of resolving an incident.

9.2.5.4. Severity for critical components

The severity level of each component defines by its importance in the infrastructure and its impact in case of failure as detailed below.

- **Severity Level-1**

Denial of services/ Standard Compliance due to total breakdown/ failure of any one of the equipment/ component and software installed in CC & DC or the system becoming non-responsive. Apart from this hacking of website / data, Virus Attack (Malicious code) effecting Database system, System Software, data etc. leading to total system breakdown/ failure of any one of the equipment/component installed in CC & DC will also come under severity level 1.

- **Severity Level-2**

Denial of services/ Standard Compliance due partial breakdown/ failure of any one of the equipment/ component installed in CC & DC. However if the partial denial of services is impacting critical users of the State, the incident will come under Severity level 1. (The list of such critical users will be decided by the NDMC). Apart from this Spamming will also come under severity level 2.

- **Severity Level-3**

Partial or total failure/ breakdown of any equipment/ component installed in the datacenter without disrupting any services and failure/ delay in undertaking and completing activities listed below. This is an indicative list and not exhaustive.

- OS deployment
- Patch installation
- Acting on incidents which crosses threshold (TMP/ Storage space)
- H/W up-gradation
- Data archival, Data restoration
- Planned Maintenance activities
- User Management
- Backup policy
- Passive components
- Minor repair of physical infrastructure
- Timely payment of dues/fees, license, subscription, bandwidth charges, etc. all surcharge/penalties imposed to to non-payment to service providers shall be borne by SI
- Note: Rest of services/ activities/ equipment/ components not covered in severity level 1 or 2 shall be covered in Severity level 3.

9.2.5.5. Planned Downtime

Planned downtime means any time when the data center services are unavailable because of urgent maintenance activities* (with prior written permission from the State/SIA) and any other scheduled maintenance or upgrade activities that may or may not be periodic, and that may be notified to client/client organization at least 36 hrs in advance.

The scheduled down time available to the SI as per the SLA per week will be given only between 1 a.m. to 4 a.m. on Sundays during the 1st year and 2nd year onwards from 2 a.m. to 3 a.m. on Sundays without breaching the committed SLA uptime. Permission for any further requirement of down time will have to be informed to the client in writing/email atleast 7 days in advance. In case the SI informs the client about the downtime in less than 7 days, there will be a penalty of 0.5% of the QGR for each down time in addition to the SLA listed below.

9.2.5.6 SLA Downtime Guidelines

The calculation of downtime with reference to severity levels is as defined below

S. No.	Equipment Level Severity	Resolution Time Factored for SLA
1	Severity Level - 1	Every additional one minute of failure / downtime is equal to two minutes of unresolved call
2	Severity Level - 2 equipment / services	Beyond the allowed resolution time for Severity Level 2, i.e. 4 hours, the incident will escalate to Severity Level 1, and every additional one minute of failure will be equivalent to two minutes of unresolved call
3	Severity Level - 3 equipment / services	Beyond the allowed resolution time for Severity Level 3, i.e. 8 hours, the incident will escalate to Severity Level 2, and every additional one minute of failure will be equivalent to two minutes of unresolved call, upto 240 minutes

S. No.	Equipment Level Severity	Downtime hours factored for SLA
1	Severity Level - 1	Every thirty minutes of failure is equal to 0.25% degradation of SLA
2	Severity Level - 2 equipment / services	Every Four hours of failure is equal to 0.25% of degradation of SLA
3	Severity Level - 3 equipment / services	Every eight hours of failure is equal to 0.25% degradation of SLA

In case of redundant Power supplies, If any of the power supply fails and a redundant power supply is available and equipment are providing services, the down time at the severity level-3 will be calculated instead of Severity level-1 & 2.

- In case an equipment remains non-functional for more than allowed hours of the severity level, the severity level will go up for the device to the next higher level (i.e. If an equipment of severity level-3 is non functional for more than 8 hours the 9th hour onward the severity level for the equipment will be calculated based on the Severity level-2) and will keep on escalating to further level if it still remains non-functional.
- In case maximum response/ resolution time is violated after problem is reported to the SI, then severity level of the reported call would change to next higher severity level and call resolution time would be factored accordingly to the new severity level. (e.g. if problem reported under severity level 3 is not resolved within its defined maximum resolution time, severity level would change to 2 and every additional minute would be factored according to level 2. Further if the call is still not resolved within maximum response time of severity level 2, call would get escalated to severity level 1 and so on.)

9.2.5.7. Categories of SLA

This SLA document provides for minimum level of services required as per contractual obligations based on performance indicators and measurements thereof. The DCO shall ensure provisioning of all required services while

monitoring the performance of the same to effectively comply with the performance levels. The services provided by the DCO shall be reviewed by the tendering authority that shall:

- Regularly check performance of the DCO against this SLA.
- Discuss escalated problems, new issues and matters still outstanding for resolution.
- Review of statistics related to rectification of outstanding faults and agreed changes.
- Obtain and implement suggestions for changes to improve the service levels.

The SLA has been logically segregated in the following categories:

1. Implementation Phase related performance levels
2. IT Infrastructure related service levels

9.2.5.8. SLA Tracking

The following measurements and targets shall be used to track and report performance on a regular basis.

Based on SLA performance, QGR would be released on Quarterly basis against performance and subject to verification and clearance from the Third Party Agency (TPA) as and when appointed.

The targets shown in the following table are applicable for the duration of the contract.

9.2.5.8. SLA Tracking

The following measurements and targets shall be used to track and report performance on a regular basis.

Based on SLA performance, QGR would be released on Quarterly basis against performance and subject to verification and clearance from the Third Party Agency (TPA) as and when appointed.

The targets shown in the following table are applicable for the duration of the contract.

The maximum cap of total deduction is 20% of the QGR. Two consecutive quarterly deductions of more than 20% of the applicable fee on account of any reasons will be deemed to an event of default & termination.

Note: Reports with respect to SLA parameters needs to be provided by SI and the same needs to be validated and approved by State designated Project Manager/State Officials. The reports submitted by SI should be either BMS system generated or manual reports with proofs/justifications. It is responsibility of System Integrator to get the reports validated/approved before submitting the invoices/bills.

IT Infrastructure Service Level

S. No.	Measurement	Definition	Target	Penalty
1	CCC & Data Center Uptime	Uptime = (1 - (Equipment downtime) / (Total time - Maintenance time))	<97.75%	For every 0.25 % degradation in uptime, there will be penalty of 1% of O&M cost.

2	Hardware Availability	Active & Passive Components	<97.75%	1% of O&M for every hour of downtime, at a stretch or in parts adding upto 5 hours
3	Critical Application Availability	Top 7 applications – Scada Electricity, Property Tax, Estate Module, Smart Parking, CCTV, Billing of Electricity & Water, Smart Waste Management	<97.75%	1% of O&M for every hour of downtime, at a stretch or in parts adding upto 5 hours
4	Application Availability	Balance application availability	<97.75%	0.5% of O&M for every hour of downtime, at a stretch or in parts adding upto 5 hours

O&M = Quarterly Operation & Maintenance charges

9.3 Security Breach Penalties

It is expected that the Concessionaire should comply with all the Policy / Procedural / Regulatory Guidelines enforced by Government of India, Government of NCT of Delhi, and other statutory and related bodies, as amended from time to time. The Concessionaire should also safeguard the Application Security and Application Integrity. Penalty would be applicable for non-compliance of relevant security certifications. There would be Zero Tolerance policy against such breaches. The penalties across various breaches could be categorized as follows (this includes but not limited to the following):

- Information Security Breach: Any data leakage, information sharing, reports sharing without the consent of NDMC.
- Network & System Security Breach: Any instance of hacking, information / data compromise, unauthorized access to public Wi-Fi.
- Guidelines Breach: Non-compliance to guidelines shared by various government agencies such as complying with standards for website/mobile app development etc.
- Security of content to be displayed on VMS and Digital Interactive Panel. S.I is responsible for any breach of content to be displayed on VMS and Digital Interactive Panels.

For any of the breach for above-mentioned category, a penalty would be levied on the Concessionaire for every instance of occurrence if not responded as per the timelines mentioned in the table below:

Type	Measurement (Unit)	Response Time (in unit)	Penalty on response w.r.t. delay /Unit
Information Security Breach	Hours	1	Rs.1,00,000/-
Network & System Security Breach	Hours	1	Rs.2,00,000/-
Guidelines Breach	Days	7	Rs.1,00,000/-
Security of content to be displayed on VMS and Digital Interactive Panel.	Hours		Rs. 5,00,000/- on occurrence of any event and Rs, 10,00,000/- per hour. If any such incident occurs in future NDMC can terminate the agreement.

The response time refers to immediate remedial action taken and preventive measures updated by the Concessionaire on occurrence of the event. In case the breaches are not responded to in the time frame as specified, penalties would be

levied as per the table above and failing to address the breach in desired timeline, recurring penalties would be levied w.r.t. to delay in units as mentioned. For example, in case of an Information Security Breach, the Concessionaire has to respond within one (1) hour of the event occurrence. If the Concessionaire responds in 02 hours 15 minutes, a penalty on pro-rata basis equivalent to Rs.1,25,000/- would be imposed on the Concessionaire .

In case of more than three (3) instances of breach within a single calendar year, NDMC reserves the right to invoke the termination clause along with legal action would be initiated for serious offence as decided by NDMC.

Guidelines Breach includes non-compliance to certain guidelines as set by various agencies like Ministry of Communications and Information Technology, Department of Science and Technology, or other statutory Authorities etc. In such cases, resolution of the issue is mandatory. The Concessionaire would be required to respond with the action plan / change request, as applicable, in order to resolve the guidelines breach within the specified response time.

9.4 Manpower Availability

- 9.4.1 The Concessionaire needs to provide the on-site manpower as per the defined scope of work. The supplied manpower needs to report on day to day basis to NDMC.
- 9.4.2 The Concessionaire needs to submit duly authorized attendance report on monthly basis.
- 9.4.3 Penalty on non-deployment of required manpower as per Concessionaires Proposal: Rs.5000 per engineer per day and for other staff. Rs 2500 per staff member per day on non-reporting or non-deployment of minimum required manpower for first year. This penalty will increase by 10% on compounding basis for subsequent years.

9.5 Penalties shall not be levied on the Concessionaire in the following cases

- 9.5.1 In case of a force majeure event effecting the SLA which is beyond the control of the Concessionaire. Force Majeure events shall be considered in line with the Force Majeure clause mentioned in this RFP document.
- 9.5.2 Theft cases by default/ vandalism would not be considered as "beyond the control of Concessionaire". Hence, the Concessionaire should be taking adequate anti-theft measures, spares strategy, Insurance as required to maintain the desired required SLA.

10 FORCE MAJEURE

10.1 Definition of Force Majeure

The SI or the NDMC, as the case may be, shall be entitled to suspend or excuse performance of its respective obligations under this RFP document to the extent that such performance is impeded by an event of force majeure ('Force Majeure').

10.2 Force Majeure events

A Force Majeure event means any event or circumstance or a combination of events and circumstances referred to in this Clause, which may be classified as all or any of the following events:

- (i) Act of God, including earthquake, flood, inundation, landslide, exceptionally adverse weather conditions, storm, tempest, hurricane, cyclone, lightning, thunder, volcanic eruption, fire or other extreme atmospheric conditions;
- (ii) Radioactive contamination or ionizing radiation or biological contamination;
- (iii) A strike or strikes or other industrial action or blockade or embargo or any other form of civil disturbance (whether lawful or not), in each case affecting on a general basis the industry related to the affected Services and which is not attributable to any unreasonable action or inaction on the part of the SI or any of its Subcontractors or suppliers and the settlement of which is beyond the reasonable control of all such persons;

- (iv) general strikes, lockouts, boycotts, labor disruptions or any other industrial disturbances as the case may be not arising on account of the acts or omissions of the SI and which affect the timely implementation and continued operation of the Project;
- (v) An act of war (whether declared or undeclared), hostilities, invasion, armed conflict or act of foreign enemy, blockade, embargo, prolonged riot, insurrection, terrorist or military action, civil commotion or politically motivated sabotage, for a continuous period exceeding seven(7)days.

For the avoidance of doubt, it is clarified that any negligence in performance of Services which directly causes any breach of security like hacking aren't the forces of nature and hence wouldn't be qualified under the definition of "Force Majeure". In so far as applicable to the performance of Services, Service Provider will be solely responsible to complete the risk assessment and ensure implementation of adequate security hygiene, best practices, processes and technology to prevent any breach of security and any resulting liability there from(whenever applicable).

10.3 Notification procedure for Force Majeure

10.3.1 The affected Party shall notify the other Party of a Force Majeure event within seven(7) days of occurrence of such event. If the other Party disputes the claim for relief under Force Majeure it shall give the claiming Party written notice of such dispute within thirty(30) days of such notice. Such dispute shall be dealt within accordance with the dispute resolution mechanism in accordance with Clause.

10.3.2 Upon cessation of the situation which led the Party claiming Force Majeure, the claiming Party shall within seven(7) days here of notify the other Party in writing of the cessation and the Parties shall as soon as practicable thereafter continue performance of all obligations under this RFP document.

10.4 Allocation of costs arising out of Force Majeure

10.4.1 Upon the occurrence of any Force Majeure Event, the Parties shall bear their respective costs and no Party shall be required to pay to the other Party any costs thereof.

10.4.2 For the avoidance of doubt, Force Majeure Costs may include interest payments on debt, operation and maintenance expenses, any increase in the cost of the Services on account of inflation and all other costs directly attributable to the Force Majeure Event.

10.5 Save and except as expressly provided in this Clause, neither Party shall be liable in any manner what so ever to the other Party in respect of any loss, damage, costs, expense, claims, demands and proceedings relating to or arising out of occurrence or existence of any Force Majeure Event or exercise of any right pursuant hereof.

10.6 Consultation and duty to mitigate

Except as otherwise provided in this Clause, the affected Party shall, at its own cost, take all steps reasonably required to remedy and mitigate the effects of the Force Majeure event and restore its ability to perform its obligations under this RFP document as soon as reasonably practicable. The Parties shall consult with each other to determine the reasonable measures to be implemented to minimize the losses of each Party resulting from the Force Majeure event. The affected Party shall keep the other Parties informed of its efforts to remedy the effect of the Force Majeure event and shall make reasonable efforts to mitigate such event on a continuous basis and shall provide written notice of the resumption of performance hereunder.

11 EVENTS OF DEFAULT AND TERMINATION

11.1 Events of Default

Any of the following events shall constitute an event of default unless such event has occurred as a result of one or more reasons set out in clause 11.2;

- (i) The Concessionaire has failed to adhere to the project execution requirements and the Implementation Schedule and such failure, in the reasonable estimation of the Engineer-in-Charge, is likely to delay achievement of GO-LIVE beyond 30 weeks of the Scheduled GO-LIVE Date, which is one year from the date of signing of concession agreement;
- (ii) The Concessionaire has failed to achieve GO-LIVE within 30 weeks from the Scheduled GO-LIVE Date;
- (iii) The Concessionaire is in Material Breach of O&M Requirements;
- (iv) Any representation made or warranties given by the Concessionaire under this RFP document is found to be false or misleading;
- (v) The Concessionaire has created any Encumbrance on the Project Site in favour of any Person save as otherwise expressly permitted under this RFP document;
- (vi) The Concessionaire has failed to ensure minimum shareholding requirements specified in clause 5.2;
- (vii) A resolution has been passed by the shareholders of the Concessionaire for the voluntary winding up of the Concessionaire;
- (viii) Any petition for winding up of the Concessionaire has been admitted and liquidator or provisional liquidator has been appointed or the Concessionaire has been ordered to be wound up by Court of competent jurisdiction except for the purpose of amalgamation or reconstruction with the prior consent of NDMC, provided that, as part of such amalgamation or reconstruction, the property, assets and undertaking of the Concessionaire are transferred to the amalgamated or reconstructed entity and that the amalgamated or reconstructed entity has unconditionally assumed the obligations of the Concessionaire under this RFP document, and provided further that:
 - a) the amalgamated or reconstructed entity has the technical capability and operating experience necessary for the performance of its obligations under this RFP document;
 - b) the amalgamated or reconstructed entity has the financial standing to perform its obligations under this RFP document and has a credit worthiness at least as good as that of the Concessionaire as at Commencement Date; and
 - c) RFP document remains in full force and effect.
- (ix) The Concessionaire has abandoned the Project Facilities.
- (x) The Concessionaire has repudiated this RFP document or has otherwise expressed an intention not to be bound by this RFP document.
- (xi) The Concessionaire has suffered an attachment levied on any of the assets located or comprised in the Project Site/Project Facilities, causing a Material Adverse Affect on the Project and such attachment has continued for a period exceeding 90 days.
- (xii) The SI has otherwise been in Material Breach of any of its other obligations and terms and conditions under this RFP document.
- (xiii) The SI is not able to meet the SLAs minimum requirement of 95% uptime at all the times or otherwise.
- (xiv) The SI reporting bankruptcy to the NDMC, or any appropriate statutory forum.

11.2 No Breach of Obligations

The Concessionaire shall not be considered to be in breach of its obligations under this RFP document nor shall it incur or suffer any liability if and to the extent performance of any of its obligations under this RFP document is affected by or on account of any of the following:

- (i) Force Majeure Event as provided under clause 10;
- (ii) Compliance with written instructions of the NDMC or the directions of any Government Agency in writing, other than instructions issued as a consequence of a breach by the Concessionaire of any of its obligations hereunder or any applicable law;

11.3 Termination due to Events of Default

11.3.1 Without prejudice to any other right or remedy which the NDMC may have in respect thereof under this RFP document, upon the occurrence of a Event of Default, the NDMC shall be entitled to terminate this Agreement as hereinafter provided.

11.3.2 If NDMC decides to terminate this Agreement pursuant to preceding clause 11.3.1, it shall in the first instance issue Preliminary Notice to the Concessionaire. Within 30 days of receipt of the Preliminary Notice, the Concessionaire shall submit to NDMC in sufficient detail, the manner in which it proposes to cure the underlying Event of Default (the "**Concessionaire's Proposal to Rectify**"). In case of non-submission of the Concessionaire's Proposal to Rectify within the said period of 30 days, NDMC shall be entitled to terminate this Agreement by issuing Termination Notice, and to appropriate the Performance Security.

11.3.3 If the Concessionaire's Proposal to Rectify is submitted within the period stipulated therefor, the Concessionaire shall have further period of 30 days to remedy / cure the underlying Event of Default (Cure Period). If, however the Concessionaire fails to remedy/cure the underlying Event of Default within such further period allowed, NDMC shall be entitled to terminate this Agreement by issue of Termination Notice and to appropriate the Performance Security if subsisting.

11.4 Termination Notice

If NDMC, having become entitled to do so decides to terminate this Agreement pursuant to the preceding clause 11.3, it shall issue Termination Notice setting out:

- (i) in sufficient detail the underlying Event of Default;
- (ii) the Termination Date which shall be a date occurring not earlier than 30 days from the date of Termination Notice;
- (iii) the estimated Termination Payment including the details of computation thereof and;
- (iv) any other relevant information.

11.5 Obligation of Parties

Following issue of Termination Notice by NDMC in accordance with clause 11.4, the Parties (i.e. the Concessionaire and the NDMC) shall promptly take all such steps as may be necessary or required to ensure that:

- (i) until Termination the Parties shall, to the fullest extent possible, discharge their respective obligations so as to maintain the continuity of service to the users of the Project Facilities,
- (ii) the Termination Payment, if any, payable by the Concessionaire is paid to the NDMC before the Termination Date; and
- (iii) the Project Facilities are handed over to NDMC by the Concessionaire on the Termination Date, free from any Encumbrance, under this Agreement,

11.6 Withdrawal of Termination Notice

Notwithstanding anything inconsistent contained in this RFP document, if the Concessionaire cures the underlying Event of Default to the satisfaction of the NDMC at any time before the Termination occurs, the Termination Notice may be withdrawn by the NDMC.

Provided that the Concessionaire shall compensate the NDMC for any direct costs/ consequences occasioned by the Event of Default which caused the issue of Termination Notice.

11.7 Termination Payments

Upon Termination of this Agreement, the NDMC shall be entitled to receive Termination Payment as under:

(a) Prior to GO-LIVE

If the Agreement is terminated due to Event of Default, NDMC shall forfeit the Performance Bank Guarantee furnished by the Concessionaire, and all the assets and services created under this project will become the property of NDMC. The Concessionaire shall pay all fees/ dues, if any, to the NDMC before the date of termination.

(b) After GO-LIVE

If the Agreement is terminated due to Event of Default, NDMC shall forfeit the Performance Bank Guarantee furnished by the SI, and all the assets and services created under this project will become the property of NDMC. The SI shall pay all fees/ dues, if any, to the NDMC before the date of termination.

This will include Performance Bank Guarantee furnished by the SI,

The SI shall pay all fees/ dues, if any, to the NDMC before the date of termination.

The SI may terminate the agreement by giving a notice of 60 days to the NDMC. Such termination is subject to the fulfillment of the conditions, as prescribed under clause 11.7 and 11.8, by the concessionaire.

11.8 Rights of NDMC on Termination

Upon Termination of this Agreement for any reason whatsoever, NDMC shall have the power and authority to:

- (i) Enter upon the Project Site and take over the Project Facilities without any hindrance.
- (ii) prohibit the Concessionaire or any Person claiming through or under the Concessionaire from entering upon/dealing with the Project Site / Project Facilities;
- (iii) step in or nominate any person to step in without the necessity of any further action by the Concessionaire, to the interests of the Concessionaire under such of the Project Agreements, as NDMC may in its discretion deem appropriate with effect from such date as NDMC may specify;

Provided any sums claimed by counter party to any such Project Agreements as being due and owing for work or services performed or accruing on account of any act, omission or event prior to such date specified by NDMC for step in shall and shall always constitute debt between the Concessionaire and such counter party and NDMC shall in no way or manner be liable or responsible for such sums. The Concessionaire shall ensure that the Project Agreements contain provisions necessary to give effect to the provisions of this clause 11;

- (iv) Notwithstanding anything contained in this Agreement, NDMC shall not, as a consequence of Termination or otherwise, have any obligation whatsoever including but not limited to obligations as to compensation for loss of employment, continuance or regularization of employment, absorption or re-employment on any ground, in relation to any person in the employment of or engaged by the Concessionaire in connection with the Project, and the handback of the Project Site/facilities by the Concessionaire to NDMC shall be free from any such obligation.

- (v) Notwithstanding anything contained in this Agreement, the right of NDMC to vacant and peaceful possession of the Project Facilities, upon Termination is absolute. If the Concessionaire fails to deliver vacant and peaceful possession of the Project Facilities as contemplated in this provision, the Concessionaire shall be liable to pay to NDMC and NDMC shall be entitled to recover from the Concessionaire, an amount that represents a genuine estimate of the losses, damages and costs suffered by NDMC by way of liquidated damages. The parties agree that the said liquidated damages shall be calculated at the rate applicable for the year when the Concession is Terminated plus the costs incurred by NDMC for recovery of the Project Facilities. Such liquidated damages shall be recoverable from the Termination Date to the date when NDMC receives vacant and peaceful possession of the Project Facilities. Provided, the recovery of liquidated damages shall be without prejudice to the rights and remedies available to NDMC against the Concessionaire who shall be deemed to be a trespasser in illegal and unauthorized possession and occupation of the Project Site and Project Facilities, upon Termination.

11.9 Rights of Parties

Not with standing anything to the contrary contained in this Agreement, Termination pursuant to any of the provisions of this Agreement shall be without prejudice to accrued rights of either Party including its right to claim and recover money damages and other rights and remedies which it may have in law or Concession Agreement. The rights and obligations of either Party under this Agreement, including without limitation those relating to Termination Payment, shall survive the Termination but only to the extent such survival is necessary for giving effect to such rights and obligations.

11.10 Early Determination

Not with standing anything inconsistent contained anywhere in this agreement, in the event of early determination of this Agreement by NDMC without the consent of the Concessionaire or in the absence of any default by the Concessionaire, the procedure for Termination will be as prescribed under Clause 12 (Dispute Resolution).

12 DISPUTE RESOLUTION

- 12.1 Any disputes and or difference relating to this agreement or claims arising out of or relating to this agreement or breach, termination or the invalidity thereof or on any issue whether arising during the progress of the services or after the completion or abandonment thereof or any matter directly or indirectly connected with this agreement will be resolved through joint discussion of the authorized representatives of both the parties (NDMC and Concessionaire). If the dispute is not resolved by joint discussion, then the matter will be referred for adjudication to a sole Arbitrator appointed by the Chairman, NDMC on receipt of written notice / demand of appointment of Arbitrator from either party.
- 12.2 The award of the sole Arbitrator shall be final and binding on all the parties. The cost of Arbitration shall be borne by the respective parties equally. Arbitration proceedings will be held at premises of NDMC, New Delhi only.
- 12.3 Rules governing Arbitration Proceedings: The Arbitration Proceedings shall be governed by Indian Arbitration and Conciliation Act 1996, as amended from time to time including provisions in force at the time the references made. During the pendency of arbitration proceedings and currency of the Concession Agreement, the Concessionaire shall continue to perform and make due

payments to NDMC as per the Concession Agreement.

13 LIQUIDATED DAMAGES

Time is the essence of the Agreement and the delivery dates are binding on the Concessionaire. In the event of delay or any gross negligence, for causes attributable to the Concessionaire, in meeting the deliverables, the NDMC shall be entitled at its option to recover from the Concessionaire as agreed, liquidated damages, as per the rates mentioned in "Implementation & Post Implementation Performance Requirements" of Service Level Agreement as mentioned in this RFP document. The Liquidated Damages shall be capped at 10% of the total CAPEX before Go-Live and 30% of the OPEX per year after Go-Live, and in the event of Liquidated Damages exceeding this capping, the NDMC has a right to invoke "Termination Clause". The activities pursuant to the termination of the Concession Agreement shall be in-line with the conditions of the RFP document.

14 EXIT MANAGEMENT SCHEDULE

14.1 Purpose: This Clause sets out the provisions, which will apply on expiry or termination of the Concession Agreement.

14.2 Transfer of assets:

14.2.1 The Concessionaire shall within fifteen (15) days of the expiry of the Concession Agreement or termination of the Concession Agreement, whichever is earlier, hand over all the assets and services belonging to the NDMC, as per the Assets List made under the provisions of Clause 3.5.28, in proper working condition to the NDMC.

14.2.2 In case of any deficiency noticed at the time of such handing over, the Concessionaire has to get it rectified at his own cost within 45 days of such handing over otherwise NDMC will get it rectified at the risk and cost of the Concessionaire.

14.2.3 Performance Bank Guarantee of the Concessionaire will be released only after successful handing over of all the assets and services, including hardware, software, network and services in working conditions to NDMC, and after adjustments of any amount due and recoverable from the Concessionaire under this Agreement by NDMC, if any.

14.2.4 Upon service of a notice under this Clause the following provisions shall apply:

- (a) in the event, if the Assets or services to be transferred are mortgaged to any financial institutions by the Concessionaire, the Concessionaire shall ensure that all such liens and liabilities have been cleared beyond doubt, prior to such transfer. All documents regarding the discharge of such lien and liabilities shall be furnished to the NDMC.
- (b) All title to the Assets and Services to be transferred to the NDMC pursuant to this Clause shall be transferred to NDMC, within the time period as mentioned in clause 14.2.1.

14.2.5 The outgoing Concessionaire will pass on to NDMC, the subsisting rights in any licensed products on terms not less favorable to NDMC, than that enjoyed by the outgoing Concessionaire.

14.3 Cooperation and Provision of Information

During the Exit Management Period:

- (i) the Concessionaire will allow the NDMC access to information reasonably required to define the then current mode of operation associated with the provision of the services to enable the NDMC to assess the existing services being delivered;
- (ii) promptly on reasonable request by the NDMC, the Concessionaire shall provide access to and copies of all information held or controlled by

them which they have prepared or maintained in accordance with this agreement relating to any material aspect of the services (whether provided by the Concessionaire). The NDMC shall be entitled to copy of all such information. Such information shall include details pertaining to the services rendered and other performance data. The Concessionaire shall permit the NDMC or its nominated agencies to have reasonable access to its employees and facilities as reasonably required by the NDMC to understand the methods of delivery of the services employed by the Concessionaire and to assist appropriate knowledge transfer.

Annexure-1

Letter Comprising the Application for Bid Submission

Dated:

To,
Executive Engineer
NDMC
Palika Kendra,
New Delhi

Sub: **Application for "Request for Proposal for Selection of System Integrator for NDMC Smarty City Project "Design, Development, Implementation, Operation and Maintenance of Command and Control Centre & Data Center, Collaboration solution for meetings & virtual education and integration with various Smart City/NDMC Applications".**

Dear Sir,

With reference to your RFP document dated, I/we, having examined the RFP Document and understood its contents, hereby submit my proposal for the aforesaid project. The Application is unconditional and unqualified.

2. I/ We acknowledge that the NDMC will be relying on the information provided in the Application and the documents accompanying such Application for Technical and Financial qualification for the aforesaid project, and we certify that all information provided in the Application and in Annexure __ to __ is true and correct; nothing has been omitted which renders such information misleading; and all documents accompanying such Application are true copies of their respective originals.

3. This statement is made for the express purpose of selection of preferred applicant for the aforesaid Project.

4. I/ We shall make available to the NDMC any additional information it may find necessary or require to supplement or authenticate the Qualification statement.

5. I/ We acknowledge the right of the NDMC to reject our Application without assigning any reason or otherwise and hereby waive, to the fullest extent permitted by applicable law, our right to challenge the same on any account whatsoever.

6. I/ We certify that in the last three years, we/ any of the Consortium Members or our/their Associates have neither failed to perform on any contract, as evidenced by imposition of a penalty by an arbitral or judicial authority or a judicial pronouncement or arbitration award, nor been expelled from any project or contract by any public authority nor have had any contract terminated by any public authority for breach on our part.

7. I/ We declare that:

(a) I/ We have examined and have no reservations to the RFP document, including any Addendum issued by the Authority;

(b) I/ We do not have any conflict of interest in accordance with Clauses of the RFP document;

(c) I/We have not directly or indirectly or through an agent engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice, as defined in Clause 7.3 of the RFP document, in respect of any tender or request for proposal issued by or any agreement entered into with the NDMC or any other public sector enterprise or any government, Central or State; and

(d) I/ We hereby certify that we have taken steps to ensure that in conformity with the provisions of the RFP document, no person acting for us or on our behalf has engaged or will engage in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice.

8. I/ We understand that you may cancel the Bidding Process at any time and that you are neither bound to accept any Application that you may receive nor to invite the Applicants to Bid for the Project, without incurring any liability to the Applicants, in accordance with Clauses of the RFP document.

9. I/ We believe that we/ our Consortium/ proposed Consortium satisfy(s) the Net Worth criteria and meet(s) all the requirements as specified in the RFP document and are/ is qualified to submit a Bid.

10. I/ We declare that we/ any Member of the Consortium, or our/ its Associates are not a Member of a/ any other Consortium applying for this RFP process.

11. I/ We certify that in regard to matters other than security and integrity of the country, we/ any Member of the Consortium or any of our/ their Associates have not been convicted by a Court of Law or indicted or adverse orders passed by a regulatory authority which could cast a doubt on our ability to undertake the Project or which relates to a grave offence that outrages the moral sense of the community.

12. I/ We further certify that in regard to matters relating to security and integrity of the country, we/ any Member of the Consortium or any of our/ their Associates have not been charge-sheeted by any agency of the Government or convicted by a Court of Law.

13. I/ We further certify that no investigation by a regulatory authority is pending either against us/ any Member of the Consortium or against our/ their Associates or against our CEO or any of our directors/ managers/ employees.

14. I/ We further certify that we are qualified to submit a Bid in accordance with the guidelines for qualification of Applicants seeking to acquire stakes in Public Sector Enterprises through the process of disinvestment issued by the GOI vide Department of Disinvestment OM No. 6/4/2001-DD-II dated 13th July, 2001 which guidelines apply *mutatis mutandis* to the Bidding Process.

15. I/ We undertake that in case due to any change in facts or circumstances during the Bidding Process, we are attracted by the provisions of disqualification in terms of the provisions of this RFP document, we shall intimate the NDMC of the same immediately.

16. The Statement of Legal Capacity as per format provided at Annexure-10 of the RFP document, and duly signed, is enclosed. The power of attorney for signing of application and the power of attorney for Lead Member of consortium, as per format provided at Annexure-9 and Annexure-3 respectively of the RFP, are also enclosed.

17. I/ We understand that the selected Applicant shall either be an existing Company incorporated under the Indian Companies Act, 1956, or shall incorporate as such prior to execution of the Concession Agreement.

18. I/ We hereby irrevocably waive any right or remedy which we may have at any stage at law or howsoever otherwise arising to challenge or question any decision taken by the Authority in connection with the selection of Applicants, selection of the Applicant, or in connection with the selection/ Bidding Process itself, in respect of the above mentioned Project and the terms and implementation thereof.

19. I/ We agree and undertake to abide by all the terms and conditions of the RFP document.

20. I/ We certify that in terms of the RFP document, my/our Net worth is Rs, (Rupees in words) and the Aggregate Experience Score is (number in words).

21. We agree and undertake to be jointly and severally liable for all the obligations of the Concessionaire under the Concession Agreement till occurrence of Financial Close in accordance with the Concession Agreement.

In witness thereof, I/ we submit this application under and in accordance with the terms of the RFP document.

Yours faithfully,

Date:

(Signature, name and designation of the Authorised Signatory)

Place:

Name and seal of the Applicant/ Lead Member

Details of Applicant

1. (a) Name:
(b) Country of incorporation:
(c) Address of the corporate headquarters and its branch office(s), if any, in India:
(d) Date of incorporation and/ or commencement of business:
2. Brief description of the Company including details of its main lines of business and proposed role and responsibilities in this Project:
3. Details of individual(s) who will serve as the point of contact/ communication for the Authority:
 - (a) Name:
 - (b) Designation:
 - (c) Company:
 - (d) Address:
 - (e) Telephone Number:
 - (f) E-Mail Address:
 - (g) Fax Number:
4. Particulars of the Authorised Signatory of the Applicant:
 - (a) Name:
 - (b) Designation:
 - (c) Address:
 - (d) Phone Number:
 - (e) Fax Number:
5. In case of a Consortium:
 - (a) The information above (1-4) should be provided for all the Members of the Consortium.
 - (b) A copy of the Jt. Bidding Agreement, as envisaged in Clause __ should be attached to the Application.

(c) Information regarding the role of each Member should be provided as per table below:

Sl. No.	Name of Member	Role and responsibilities	Percentage of equity in Consortium

* The role of each Member, as may be determined by the Applicant, should be indicated

in accordance with instructions of RFP document.

(d) The following information shall also be provided for each Member of the Consortium:

Name of Applicant/ member of Consortium:

No. Criteria Yes No

No.	Criteria	Yes	No.
	Has the Applicant/ constituent of the Consortium been barred by the		

	[Central/ State] Government, or any entity controlled by it, from participating in any project (BOT or otherwise)?		
	If the answer to 1 is yes, does the bar subsist as on the date of Application?		
	Has the Applicant/ constituent of the Consortium paid liquidated damages of more than 5% (five per cent) of the contract value in a contract due to delay or has been penalised due to any other reason in relation to execution of a contract, in the last three years?		

6. A statement by the Applicant and each of the Members of its Consortium (where applicable) or any of their Associates disclosing material non-performance or contractual non-compliance in past projects, contractual disputes and litigation/ arbitration in the recent past is given below (Attach extra sheets, if necessary):

Technical Capacity of the Applicant@

Applicant type*	Member Code*	Project Code**	Category*	Experience of Projects as per Clause 5.3.2 S.N.2 (a) to (d)	Experience score*
(1)	(2)	(3)	(4)	(5)	(8)
Single Entity Applicant		A			
		B			
		C			
		D			

Consortium Member 1	1a			
	1b			
	1c			
	1d			
Consortium Member 2	2a			
	2b			
	2c			
	2d			
Consortium Member 3	3a			
	3b			
	3c			
	3d			
Consortium Member 4	4a			
	4b			
	4c			
	4d			
Aggregate Experience Score				

@ Provide details of only those projects that have been undertaken by the Applicant under its own name.

An Applicant consisting of a single entity should fill in details as per the row titled Single entity Applicant and ignore the rows titled Consortium Member. In case of a Consortium, the row titled Single entity Applicant may be ignored.

* Member Code shall indicate NA for Not Applicable in case of a single entity Applicant.

For other Members, the following abbreviations are suggested viz. LM means Lead Member, OM means Other Member.

Add more rows if necessary.

Financial Capacity of the Applicant
(Refer to Clauses 5.2.3 and 5.3.2 of the RFP)
(In Rs. crore)

Applicant Member (1)	Member Code (2)	Turnover					Net Worth*
		Year 15-16 (3)	Year 14-15 (4)	Year 13-14 (5)			Year 15-16 (8)
Single entity Applicant							
Consortium Member 1							
Consortium Member 2							
Consortium Member 3							

Name & address of Applicant's Bankers:

- An Applicant consisting of a single entity should fill in details as per the row titled Single entity Applicant and ignore the rows titled Consortium Members. In case of a Consortium, row titled Single entity Applicant may be ignored.
- For Member Code, see instructions at of this Annexure-3.
- The Applicant should provide details of its own Financial Capacity.

Instructions:

1. The Applicant/ its constituent Consortium Members shall attach copies of the balance sheets, financial statements and Annual Reports for 3 (three) years preceding the Application Due Date. The financial statements shall:
 - (a) reflect the financial situation of the Applicant or Consortium Members and its/their Associates where the Applicant is relying on its Associate's financials;
 - (b) be audited by a statutory auditor;
 - (c) be complete, including all notes to the financial statements; and
 - (d) correspond to accounting periods already completed and audited (no statements for partial periods shall be requested or accepted).
2. Net Cash Accruals shall mean Profit After Tax + Depreciation.
3. Net Worth shall mean (Subscribed and Paid-up Equity + Reserves) less (Revaluation reserves + miscellaneous expenditure not written off + reserves not available for distribution to equity shareholders).
5. In the case of a Consortium, a copy of the Jt. Bidding Agreement shall be submitted in accordance with Clause 5.2.3 of the RFP document.
6. The applicant shall also provide the name and address of the Bankers to the Applicant.
7. The Applicant shall provide an Auditor's Certificate specifying the net worth of the Applicant and also specifying the methodology adopted for calculating such net worth in accordance with the RFP document.

Details of Eligible Projects
(Refer to Clauses 5.3.2 of the RFP document)

Project Code:

Member Code:

Item (1)	Refer Instruction (2)	Particulars of the Project (3)
Title & nature of the project		
Category	5	
Year-wise (a) payments received/made for construction, (b) payments made for development of PPP projects and /or (c) revenues appropriated	6	
Location	7	
Project Cost	8	
Date of commencement of project/contract	9	
Equity shareholding(with period during which equity was held)	10	
Whether credit is being taken for the Eligible Experience of an Associate (Yes/No)	11	

Instructions:

1. Applicants are expected to provide information in respect of each Eligible Projects in this Annex. The projects cited must comply with the eligibility & technical criteria specified in Clause 5.2.3 and 5.3.2 of the RFP document, as the case may be. Information provided in this section is intended to serve as a back up for information provided in the Application. Applicants should also refer to the Instructions below.
2. For a single entity Applicant, the Project Codes would be a, b, c, d etc. In case the Applicant is a Consortium then for Member 1, the Project Codes would be 1a, 1b, 1c, 1d etc., for Member 2 the Project Codes shall be 2a, 2b, 2c, 2d etc., and so on.

3. A separate sheet should be filled for each Eligible Project.
4. Member Code shall indicate NA for Not Applicable in case of a single entity Applicant. For other Members, the following abbreviations are suggested viz. LM means Lead Member, and OM means Other Member.
5. Refer to Clause 5.3.2 of the RFP for category number.
6. The total payments received/ made and/or revenues appropriated for each Eligible Project are to be stated in Annex-II of this Appendix-I. The figures to be provided here should indicate the break-up for the past 5 (five) financial years. Year 1 refers to the financial year immediately preceding the Application Due Date; Year 2 refers to the year before Year 1, Year 3 refers to the year before Year 2, and so on (Refer Clause 2.2.12). For Categories 1 and 2, expenditure on development of the project and/or revenues appropriated, as the case may be, should be provided, but only in respect of projects having an estimated capital cost exceeding the amount specified in Clause 3.2.3 (c). In case of Categories 3 and 4, payments made/ received only in respect of construction should be provided, but only if the amount paid/received exceeds the minimum specified in Clause 3.2.4. Payment for construction works should only include capital expenditure, and should not include expenditure on repairs and maintenance.
7. In case of projects in Categories 1 and 2, particulars such as name, address and contact details of owner/ Authority/ Agency (i.e. concession grantor, counter party to PPA, etc.) may be provided. In case of projects in Categories 3 and 4, similar particulars of the client need to be provided.
8. Provide the estimated capital cost of Eligible Project. Refer to Clauses 3.2.3 and 3.2.4
9. For Categories 1 and 2, the date of commissioning of the project, upon completion, should be indicated. In case of Categories 3 and 4, date of completion of construction should be indicated. In the case of projects under construction, the likely date of completion or commissioning, as the case may be, shall be indicated.
10. For Categories 1 and 2, the equity shareholding of the Applicant, in the company owning the Eligible Project, held continuously during the period for which Eligible Experience is claimed, needs to be given (Refer Clause 3.2.3).
11. Experience for any activity relating to an Eligible Project shall not be claimed by two or more Members of the Consortium. In other words, no double counting by a consortium in respect of the same experience shall be permitted in any manner whatsoever.
12. Certificate from the Applicant's statutory auditor\$ or its respective clients must be furnished as per formats below for each Eligible Project. In jurisdictions that do not have statutory auditors, the auditors who audit the annual accounts of the Applicant/ Member/Associate may provide the requisite certification.
13. If the Applicant is claiming experience under Categories 1 & 2£, it should provide a certificate from its statutory auditor in the format below:

PRE-CONTRACT INTEGRITY PACT**General**

This pre-bid pre-contact Agreement (hereinafter called the Integrity Pact) is made on _____ day of the month of _____ 20....., between on one hand the New Delhi Municipal Council acting through Shri _____, The Executive Engineer (hereinafter called the "Principal/Owner", which expression shall mean and include, unless the context otherwise requires, his successors in office and assigns) of the First Part and M/s _____ represented by Shri _____ (hereinafter called the "Applicant(s)/Contractor(s)" which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part.

Whereas the Principal/Owner proposes to procure (Name of work the Store/Equipment/Item) through the Applicant(s)/Contractor(s) and the Applicant(s)/Contractor(s) is willing to offer / has offered the same.

Whereas the Applicant(s)/Contractor(s) is a private company/public company/ Government undertaking/ partnership/ registered export agency, constituted in accordance with the relevant law in the matter and the Principal/Owner is the municipal government of New Delhi established as per NDMC act 1994 performing its functions on behalf of the Council.

Now, therefore,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to:

Enabling the Principal/Owner to procure the desired said work/ Services/ Stores / Equipments at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption during bidding, execution & public procurement,

And

Enabling Applicant(s)/Contractor(s) to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the Principal/Owner will commit to prevent corruption, in any form, by its officials by following transparent procedures.

The parties here to hereby agree to enter into this Integrity Pact and agree as follows:

Commitments of the Principal/Owner

- 1.1 The Principal/Owner undertakes that no official of the Principal/Owner, connected directly or indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the Applicant(s)/Contractor(s), either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.
- 1.2 The Principal/Owner will, during the pre-contract stage, treat all Applicant(s)/Contractor(s) alike, and will provide to all Applicant(s)/Contractor(s) the same information and will not provide and such information to any particular Applicant(s)/Contractor(s) which could afford an advantage to that particular Applicant(s)/Contractor(s) in comparison to other Applicant(s)/Contractor(s).
- 1.3 All the officials of the Principal/Owner will report to the CVO, NDMC any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.

2. In case any such preceding misconduct on the part of such official(s) is reported by the Applicant(s)/Contractor(s) to the CVO, NDMC with full and verifiable facts and the same is prima facie found to be correct by the NDMC, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the NDMC and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the NDMC the proceedings under the contract would not be stalled.

Commitments of Applicant(s)/Contractor(s)

3. The Applicant(s)/Contractor(s) commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following:
 - 3.1 The Applicant(s)/Contractor(s) will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the Principal/Owner, connected directly or indirectly with the bidding process, or to any person, organization or third part related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.
 - 3.2 The Applicant(s)/Contractor(s) further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees brokerage or inducement to any official of the Principal/Owner or otherwise in executing the contract or forbearing to do or having done any act in relation to the obtaining or execution of the contract or any other contract with the New Delhi Municipal Council for showing or forbearing to show favour or disfavor to any person in relation to the contract or any other contract with the New Delhi Municipal Council.
 - 3.3 Applicant(s)/Contractor(s) shall disclose the name and address of agents/Brokers/ representatives/ Intermediaries and Indian Applicant(s)/Contractor(s) shall disclose their foreign Principals or associates at the time of bidding.
 - 3.4 Applicant(s)/Contractor(s) shall disclose the payments to be made by them to such agents/brokers/representatives/ intermediaries, in connection with this bid/contract at the time of bidding.
 - 3.5 Deleted.
 - 3.6 The Applicant(s)/Contractor(s), either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in Connection with the contract and the details of services agreed upon for such payments. A copy of contract so made with agents /brokers/intermediaries shall be submitted.
 - 3.7 The Applicant(s)/Contractor(s) will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract. Applicant shall remain responsible to maintain safety & confidentiality of his bid documents during bid process.
 - 3.8 The Applicant(s)/Contractor(s) will not accept any advantage in exchange for any corrupt practice, unfair means, and illegal activities.
 - 3.9 The Applicant(s)/Contractor(s) shall not use improperly, for purposed of competition or personal gain, or pass on to others, any information provided by the Principal/Owner as part business relationship regarding plans, technical proposals and business details, including information contained in any electronic data carrier. The Applicant(s)/Contractor(s) also undertakes to exercise due and adequate care lest any such information is divulged.
 - 3.10 The Applicant(s)/Contractor(s) commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts, either to principal/owner or to IEMs so appointed by NDMC.
 - 3.11 The Applicant(s)/Contractor(s) shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.

- 3.12 If the Applicant(s)/Contractor(s) or any employee of the Applicant(s)/Contractor(s) or any person acting on behalf of the Applicant(s)/Contractor(s), either directly or indirectly, is a relative of any of the officers of the Principal/Owner, or alternatively, if any relative of an officer of the Principal/Owner has financial interest/ stake in the Applicant(s)/Contractor(s) firm, the same shall be disclosed by the Applicant(s)/Contractor(s) at the time of filing of bid. The term 'relative' for this purpose would be as defined in Section 6 of the Companies Act 1956.
- 3.13 The Applicant(s)/Contractor(s) shall not lend to or borrow any money form or enter into any monetary dealings or transaction, directly or indirectly, with any employee of the Principal/Owner.
- 3.14 Deleted
- 3.15 NDMC has adopted integrity pact for all its contract for 50 lacs and above. It is mandatory for the Applicants/contractors to sign the I.P. The bid of Applicant/contractor to do not sign the I.P. shall not be considered details of IEMs (Independent External Monitor is as under:-
- 1.
 - 2.

In case of any grievances about the bid the same may be sent to IEM/Vigilance of NDMC with the name address of the sender.

4. Previous Transgression

- 4.1 The Applicant(s)/Contractor(s) declares that no previous transgression occurred in the last Five years immediately before signing of this Integrity Pact, with any other company in any country in respect of any corrupt practices envisaged here under or with any Public Sector Enterprise in India or New Delhi Municipal Council that could justify Applicant(s)/Contractor(s) exclusion from the bidding process.
- 4.2 The Applicant(s)/Contractor(s) agrees that if it makes incorrect statement on this subject, Applicant(s)/Contractor(s) can be disqualified from the bidding process or the contract, if already awarded, can be terminated for such reason.

5. Deleted.

6. Sanctions for Violations

- 6.1 Any breach of the aforesaid provisions by the Applicant(s)/Contractor(s) or any one employed by it or acting on its behalf (whether with or without the knowledge of the Applicant(s)/Contractor(s) shall entitle the Principal/Owner to take all or any one of the following actions, wherever required:-
- (i) To immediately call off the pre contract negotiations without assigning any reason or giving any compensation to the Applicant(s)/Contractor(s). However, the proceedings with the other Applicant(s)/Contractor(s) would continue.
 - (ii) The Earnest Money Deposit (in pre-contract stage) and/or Security Deposit/Performance Bond / Guarantee (after the contract is signed) shall stand forfeited and the Principal/Owner shall not be required to assign any reason therefore.
 - (iii) To immediately cancel the contract, if already signed, without giving any compensation to the Applicant(s)/Contractor(s).
 - (iv) To recover all sums already paid by the Principal/Owner, and in case of an Indian Applicant(s)/Contractor(s) with interest thereon at 2% higher than the prevailing Prime Lending Rate of State Bank of India, while in case of a Applicant(s)/Contractor(s) form a country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the Applicant(s)/Contractor(s) from the Principal/Owner in connection with any other contract for any other stores, such outstanding payment could also be utilized to recover the aforesaid sum and interest.
 - (v) To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the Applicant(s)/Contractor(s), in order to recover the payments, already made by the Principal/Owner, along with interest.
 - (vi) To cancel all or any other contracts with the Applicant(s)/Contractor(s). The Applicant(s)/Contractor(s) shall be liable to pay compensation for any loss or damage to the Principal/Owner resulting from such cancellation/ rescission and

- the Principal/Owner shall be entitled to deduct the amount so payable from the money(s) due to the Applicant(s)/Contractor(s).
- (vii) To debar the Applicant(s)/Contractor(s) from participation in future bidding processes of the New Delhi Municipal Council for a period ranging from six months to maximum five years. However if the Applicant takes corrective measures against transgressions, subject to satisfaction of Principal/Owner & IEMs, the period of debar can be reviewed.
 - (viii) To recover all sums paid in violation of this Pact by Applicant(s)/Contractor(s) to any middleman or agent or broker with a view to securing the contract.
 - (ix) In case where irrevocable Letter of Credit have been received in respect of any contract signed by the Principal/Owner with the Applicant(s)/Contractor(s), the same shall not be opened.
 - (x) Forfeiture of Performance Bond/Guarantee in case of a decision by the Principal/Owner to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.
- 6.2 The Principal/Owner will be entitled to take all or any of the actions mentioned at para 6.1 (i) to (x) of this Pact also on the Commission by the Applicant(s)/Contractor(s) or any one employed by it or acting on its behalf (whether with or without the knowledge of the Applicant(s)/Contractor(s), of an offence as defined in Chapter IX of the Indian Penal code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.
- 6.3 The decision of the Principal/Owner to the effect that a breach of the provisions of this Pact has been committed by the Applicant(s)/Contractor(s) shall be final and conclusive on the Applicant(s)/Contractor(s). However, the Applicant(s)/Contractor(s) can approach the Independent Monitor(s) appointed for the purposes of this Pact. IEMs shall examine the transgression and its severity and submit the report to Chairman, NDMC for further action after providing an opportunity and hearing to the affected parties.
- 7. Fall Clause : Deleted**
- 8. Independent External Monitors**
- 8.1 The Principal/Owner has appointed Independent External Monitors (hereinafter referred to as IEMs) for this Pact in consultation with the Central Vigilance Commission whose names and email IDs have been given in the NIT.
- 8.2 The task of the IEMs shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this pact.
- 8.3 The IEMs shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.
- 8.4 Both the parties accept that the IEMs have the right to access all the documents relating to the project/procurement, including minutes of meetings
- 8.5 As soon as the IEMs notices, or have reasons to believe a violation of this Pact, they shall so inform to Chairman, NDMC.
- 8.6 The Applicant(s)/ Contractor(s) accepts that the IEMs have the right to access without restriction to all Project documentation of the Principal/Owner including that provided by the Applicant(s)/Contractor(s). The Applicant(s)/Contractor(s) will also grant the IEMs, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to subcontractors. The IEMs shall be under contractual obligation to treat the information and documents of the Applicant(s)/ Contractor(s)/ Subcontractor(s) confidentiality.
- 8.7 The Principal/Owner will provide to the IEMs sufficient information about all meetings among the parties related to the Project provided such meeting could have an impact on the contractual relations between the parties. The parties will offer to the IEMs the option to participate in such meetings.
- 8.8 The IEMs will submit a written report to the Chairman, NDMC within 8 to 10 weeks from the date of reference or intimation to him by the Principal/Owner/Applicant(s)/Contractor(s) and, should the occasion arise, submit proposals for correcting problematic situation. However an opportunity of hearing shall be provided by the IEMs to the buyers /Applicants before submitting their written report.
- 9. Facilitation of Investigation**

In case of any allegation of violation of any provisions of this pact or payment of commission, the Principal/Owner or its agencies shall be entitled to examine all the documents including the Books of Accounts of the Applicant(s)/Contractor(s) and the Applicant(s)/Contractor(s) shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

10. **Law and Place of Jurisdiction**

This pact is subject to Indian Law. The place of performance and jurisdiction is the seat of the Principal/Owner.

11. **Other Legal Actions**

The action stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings and Jurisdiction in case of dispute between the parties if any shall be new Deficiency.

12. **Validity**

12.1 The validity of this Integrity Pact shall be from date of its signing and extend upto 12 months beyond the defects liability period of the contracts. In case Applicant(s)/Contractor(s) is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract by the successful Applicant.

12.2 Should one or several provision of this Pact turn out to be invalid, the remainder of this Pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intention.

13 The parties hereby sign this Integrity Pact at _____ on _____

Principal/Owner

Applicant(s)/Contractor(s) Name of the Officer,

Chief Executive Officer Designation

New Delhi Municipal Council

Witness

Witness

1. _____

1.

2. _____

2.

* Provisions of these clauses would need to be amended / deleted in line with the policy of

The Principal/Owner in regard to involvement of Indian agents of foreign suppliers.

Power of Attorney for Lead Member of Consortium

Whereas the NDMC has invited applications from interested parties for the "Request for Proposal for Selection of System Integrator for NDMC Smarty City Project "Design, Development, Implementation, Operation and Maintenance of Command and Control Centre & Data Center, Collaboration solution for meetings & virtual education and integration with various Smart City/NDMC Applications".

Whereas,,, and (collectively the "Consortium") being Members of the Consortium are interested in bidding for the Project in accordance with the terms and conditions of the Request for Proposal (RFP document) and other connected documents in respect of the Project, and

Whereas, it is necessary for the Members of the Consortium to designate one of them as the Lead Member with all necessary power and authority to do for and on behalf of the Consortium, all acts, deeds and things as may be necessary in connection with the Consortium's bid for the Project and its execution.

NOW, THEREFORE, KNOW ALL MEN BY THESE PRESENTS

We, having our registered office at,

M/s. having our registered office at,

M/s.having our registered office at, and

M/s. having our registered office at, (hereinafter collectively referred to as the "Principals") do hereby irrevocably designate, nominate, constitute, appoint and authorise M/s. having its registered office at, being one of the Members of the Consortium, as the Lead Member and true and lawful attorney

of the Consortium (hereinafter referred to as the "Attorney"). We hereby irrevocably authorise the Attorney (with power to sub-delegate) to conduct all business for and on behalf of the Consortium and any one of us during the bidding process and, in the event the Consortium is awarded the concession/contract, during the execution of the Project and in this regard, to do on our behalf and on behalf of the Consortium, all or any of such acts, deeds or things as are necessary or required or incidental to the pre-qualification of the Consortium and submission of its bid for the Project, including but not limited to signing and submission of all applications, bids and other documents and writings, participate in Applicants and other conferences, respond to queries, submit information/ documents, sign and execute contracts and undertakings consequent to acceptance of the bid of the Consortium and generally to represent the Consortium in all its dealings with the NDMC, and/ or any other Government Agency or any person, in all matters in connection with or relating to or arising out of the Consortium's bid for the Project and/ or upon award thereof till the Concession Agreement is entered into with the NDMC.

AND hereby agree to ratify and confirm and do hereby ratify and confirm all acts, deeds and things done or caused to be done by our said Attorney pursuant to and in exercise of the powers conferred by this Power of Attorney and that all acts, deeds and things done by our said Attorney in exercise of the powers hereby conferred shall and shall always be deemed to have been done by us/ Consortium.

IN WITNESS WHEREOF WE THE PRINCIPALS ABOVE NAMED HAVE EXECUTED THIS POWER OF ATTORNEY ON THIS DAY OF, 20.....

For
(Signature)

.....
(Name & Title)

For
(Signature)

.....
(Name & Title)

For
(Signature)

.....
(Name & Title)

Witnesses:

1.

2.

.....

(Executants)

(To be executed by all the Members of the Consortium)

Notes:

- *The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and when it is so required, the same should be under common seal affixed in accordance with the required procedure.*
- *Also, wherever required, the Applicant should submit for verification the extract of the charter documents and documents such as a board or shareholders' resolution/power of attorney in favour of the person executing this Power of Attorney for the delegation of power hereunder on behalf of the Applicant.*
- *For a Power of Attorney executed and issued overseas, the document will also have to be legalised by the Indian Embassy and notarised in the jurisdiction where the Power of Attorney is being issued. However, the Power of Attorney provided by Applicants from countries that have signed the Hague Legislation Convention, 1961 are not required to be legalised by the Indian Embassy if it carries a conforming Apostille certificate.*

Annexure-4

Joint Bidding Agreement
(To be executed on Stamp paper of appropriate value)

THIS JOINT BIDDING AGREEMENT is entered into on this the day of, 20.....

AMONGST

1. {..... Limited, a company incorporated under the Companies Act, 1956} and having its registered office at (hereinafter referred to as the "First Part" which expression shall, unless repugnant to the context include its successors and permitted assigns)

AND

2. {..... Limited, a company incorporated under the Companies Act, 1956} and having its registered office at (hereinafter referred to as the "Second Part" which expression shall, unless repugnant to the context include its successors and permitted assigns)

AND

3. {..... Limited, a company incorporated under the Companies Act, 1956 and having its registered office at (hereinafter referred to as the "Third Part" which expression shall, unless repugnant to the context include its successors and permitted assigns)}

AND

4. {..... Limited, a company incorporated under the Companies Act, 1956 and having its registered office at (hereinafter referred to as the "Fourth Part" which expression shall, unless repugnant to the context include its successors and permitted assigns)}\$

The above mentioned parties of the FIRST, SECOND, {THIRD and FOURTH} PART are collectively referred to as the "**Parties**" and each is individually referred to as a "**Party**"

The number of Parties will be shown here, as applicable, subject however to a maximum of 4 (four).

WHEREAS

- (A) New Delhi Municipal Council (NDMC), represented by its Chairman and having its principal offices at Palika Kendra, Sansad Marg, New Delhi (hereinafter referred to as the "**NDMC**" which expression shall, unless repugnant to the context or meaning thereof, include its administrators, successors and assigns) has invited applications (the "**Applications**") by its Request for Proposal No. dated (the "**RFP**") for **Selection of System Integrator for NDMC Smarty City Project "Design, Development, Implementation, Operation and Maintenance of Command and Control Centre & Data Center, Collaboration solution for meetings & virtual education and integration with various Smart City/NDMC Applications"**.
- (B) The Parties are interested in jointly bidding for the Project as members of a Consortium and in accordance with the terms and conditions of the RFP document and other bid documents in respect of the Project, and
- (C) It is a necessary condition under the RFP document that the members of the Consortium shall enter into a Joint Bidding Agreement and furnish a copy thereof with the Application.

NOW IT IS HEREBY AGREED as follows:

1. Definitions and Interpretations

In this Agreement, the capitalised terms shall, unless the context otherwise requires, have the meaning prescribed thereto under the RFP.

2. Consortium

- 2.1 The Parties do hereby irrevocably constitute a consortium (the "**Consortium**") for the purposes of jointly participating in the Bidding Process for the Project.
- 2.2 The Parties hereby undertake to participate in the Bidding Process only through this Consortium and not individually and/ or through any other consortium constituted for this Project, either directly or indirectly or through any of their Associates.

3. Covenants

The Parties hereby undertake that in the event the Consortium is declared the selected Applicant and awarded the Project, it shall for entering into a Concession Agreement with the NDMC and for performing all its obligations as the Concessionaire in terms of the Concession Agreement for the Project.

4. Role of the Parties

The Parties hereby undertake to perform the roles and responsibilities as described below:

- (a) Party of the First Part shall be the Lead member of the Consortium and shall have the power of attorney from all Parties for conducting all business for and on behalf of the Consortium from the Bidding Process, upto the end of concession period.
- (b) Party of the Second Part shall be the Member of the Consortium

- (c) Party of the Third Part shall be the Member of the Consortium; and
- (d) Party of the Fourth Part shall be the Member/ Other Member of the Consortium.

5. Joint and Several Liability

The Parties do hereby undertake to be jointly and severally responsible for all obligations and liabilities relating to the Project and in accordance with the terms of the RFP, RFP and the Concession Agreement, till such time as the Financial Closer for the Project is achieved under and in accordance with the Concession Agreement.

6. Shareholding in the consortium

- 6.1 The Parties agree that the proportion of shareholding among the Parties in the consortium shall be as follows:

First Party:

Second Party:

{Third Party:}

{Fourth Party:}

- 6.2 The Parties undertake that the Lead member shall have atleast 51% of the equity in the consortium. and cannot assign or delegate its rights, duties or obligation under the Agreement throughout the concession period.
- 6.3 The Parties undertake that each of the members, whose experience will be evaluated for the purposes of this RFP document, shall, for a period of 2 (two) years from the date of commercial operation of the Project, hold equity share capital as at the time of submission of bid and may only be replaced by such other party having same or better technical capabilities as well as eligibility conditions with prior approval of the NDMC.
- 6.4 The Parties undertake that the Lead Member will remain responsible for successful delivery of the project at all times throughout the concession period.
- 6.5 The Parties undertake that each of the members of the Consortium shall have an independent, definite and separate scope of work which was allocated as per each member's field of expertise
- 6.6 The Parties undertake the members of the consortium will commit to the profit and loss sharing ratio of each member
- 6.7 The Parties undertake the members of the consortium will commit to the scope of work, rights, obligations and liabilities to be held by each member; specifically commit that the Lead Member shall be answerable on behalf of other members for the performance of obligations and duties under this Agreement
- 6.8 The Parties undertake that the technical and commercial capacity and Net Worth of the Members shall satisfy the conditions of eligibility as prescribed in this RFP
- 6.9 The Parties undertake that any change to the composition of the consortium can be done only with the prior approval of the NDMC. The Lead Member will be responsible for the scope of work to be delivered by the exiting member, whether

he does it himself or through a new member of the consortium. In case of a new member, the Lead Member will take the prior approval of the NDMC, before on boarding the member, who is expected to possess same or better technical qualifications as well as eligibility criteria that is of the existing member to be replaced by such new member

- 6.10 The Parties undertake that they shall comply with all equity lock-in requirements set forth in the Concession Agreement.

7. Representation of the Parties

Each Party represents to the other Parties as of the date of this Agreement that:

- (a) Such Party is duly organised, validly existing and in good standing under the laws of its incorporation and has all requisite power and authority to enter into this Agreement;
- (b) The execution, delivery and performance by such Party of this Agreement has been authorised by all necessary and appropriate corporate or governmental action and a copy of the extract of the charter documents and board resolution/ power of attorney in favour of the person executing this Agreement for the delegation of power and authority to execute this Agreement on behalf of the Consortium Member is annexed to this Agreement, and will not, to the best of its knowledge:
 - (i) require any consent or approval not already obtained;
 - (ii) violate any Applicable Law presently in effect and having applicability to it;
 - (iii) violate the memorandum and articles of association, by-laws or other applicable organisational documents thereof;
 - (iv) violate any clearance, permit, concession, grant, license or other governmental authorisation, approval, judgement, order or decree or any mortgage agreement, indenture or any other instrument to which such Party is a party or by which such Party or any of its properties or assets are bound or that is otherwise applicable to such Party; or
 - (v) create or impose any liens, mortgages, pledges, claims, security interests, charges or Encumbrances or obligations to create a lien, charge, pledge, security interest, encumbrances or mortgage in or on the property of such Party, except for encumbrances that would not, individually or in the aggregate, have a material adverse effect on the financial condition or prospects or business of such Party so as to prevent such Party from fulfilling its obligations under this Agreement;
- (c) this Agreement is the legal and binding obligation of such Party, enforceable in accordance with its terms against it; and
- (d) there is no litigation pending or, to the best of such Party's knowledge, threatened to which it or any of its Affiliates is a party that presently affects or which would have a material adverse effect on the financial condition or prospects or business of such Party in the fulfillment of its obligations under this Agreement.

8. Termination

This Agreement shall be effective from the date hereof and shall continue in full force and effect until the Financial Close of the Project is achieved under and in accordance with the Concession Agreement, in case the Project is awarded to the Consortium. However, in case the Consortium is either not qualified for the Project or does not get selected for award of the Project, the Agreement will stand terminated in case the Applicant is not qualified or upon return of the EMD/Bid Security by the NDMC to the Applicant, as the case may be.

9. Miscellaneous

9.1 This Joint Bidding Agreement shall be governed by laws of {India}.

9.2 The Parties acknowledge and accept that this Agreement shall not be amended by the Parties without the prior written consent of the NDMC.

IN WITNESS WHEREOF THE PARTIES ABOVE NAMED HAVE EXECUTED AND DELIVERED THIS AGREEMENT AS OF THE DATE FIRST ABOVE WRITTEN.

SIGNED, SEALED AND DELIVERED
For and on behalf of
LEAD MEMBER by:

SIGNED, SEALED AND DELIVERED
For and on behalf of
SECOND PART by:

(Signature)

(Signature)

(Name)

(Name)

(Designation)

(Designation)

(Address)

(Address)

SIGNED, SEALED AND DELIVERED
For and on behalf of
THIRD PART by:

SIGNED, SEALED AND DELIVERED
For and on behalf of
FOURTH PART by:

(Signature)

(Signature)

(Name)

(Name)

(Designation)

(Designation)

(Address)

(Address)

In the presence of:

1.

2.

Notes:

1. *The mode of the execution of the Joint Bidding Agreement should be in accordance with the procedure, if any, laid down by the Applicable Law and the charter documents of the executant(s) and when it is so required, the same should be under common seal affixed in accordance with the required procedure.*

2. *Each Joint Bidding Agreement should attach a copy of the extract of the charter documents and documents such as resolution / power of attorney in favour of the*

person executing this Agreement for the delegation of power and authority to execute this Agreement on behalf of the Consortium Member.

3. *For a Joint Bidding Agreement executed and issued overseas, the document shall be legalised by the Indian Embassy and notarized in the jurisdiction where the Power of Attorney has been executed.*

Annexure- 5

**Format of Bank Guarantee
(To be executed on Requisite Non-Judicial Stamp Paper of Rs.100)**

WHEREAS, (Name of the Applicant) wishes to submit his Bid for the selection of Concessionaire for PPP Project for "Application for "Request for Proposal for Selection of System Integrator for NDMC Smarty City Project "Design, Development, Implementation, Operation and Maintenance of Command and Control Centre & Data Center, Collaboration solution for meetings & virtual education and integration with various Smart City/NDMC Applications".

KNOW ALL MEN by these presents that we (Name of bank) of (city and country) having our registered office at _____ (hereinafter called "the Bank") are irrevocably and unconditionally bound to the New Delhi Municipal Council or its successor, (hereinafter referred to as " NDMC" in the sum of Rs. _____ (in Words) _____ which payment can truly be made to NDMC. The Bank binds themselves, their successors and assigns by these presents.

Sealed with the Common Seal of the Bank this _____ day of, 2017

THE CONDITIONS of this obligation are:

- (a) If the applicant withdraws his Bid at any time during the stipulated period of Bid Validity specified in the RFP document and; or
- (b) If the Applicant, for the period of the Bid Validity as per RFP document in NDMC's opinion, commits a material breach of any of the terms and/or conditions contained in the RFP Documents and/or subsequent communication from NDMC in this regard; or
- (c) If the applicant, refuses to accept the correction of errors in the Bid; or
- (d) If the applicant, having been notified of the acceptance of its Bid by the NDMC fails or refuses to comply with the following requirements:
 - Pay either the performance security of the first instalment of the Concession fee as specified in Clause 5.4.1 of the RFP document to New Delhi Municipal Council (NDMC)
 - Sign the Concession agreement as provided in the RFP Document We agree and undertake, absolutely, irrevocably and unconditionally to pay to the NDMC, as the case may be, the above amount without protest, delay or demur upon receipt of NDMC's first written demand, without the NDMC having to substantiate its demand, provided that in its demand the NDMC will note that the amount claimed by it is due to it owing to the occurrence of one or more of the conditions set out above, specifying the occurred condition or conditions.

The Guarantee will remain in force up to and including the date of expiry of the period of Bid Validity as stated in the RFP Document or as extended by NDMC at any time as per RFP, notice of which extension to the Bank being hereby waived.

Provided however, that

In the event that this Applicant is selected for award of the project through the issue of the Letter of Intent, the EMD shall remain in force until the date of signing of agreement by such Applicant

OR

In the event this Applicant is not selected for award of the Project, the Earnest Money Deposit shall remain in force up to and including a period of 60 days after the expiration of the bid validity period or signing of the agreement, which is later.

Any demand in respect of this Guarantee should reach the Bank not later than the date of expiry (as defined above) of this Guarantee.

The jurisdiction in relation to this Guarantee shall be the courts of Delhi and the Indian law shall be applicable.

SIGNATURE OF AUTHORIZED
REPRESENTATIVE OF THE BANK _____

NAME AND DESIGNATION _____

SEAL OF THE BANK _____

NAME OF THE WITNESS _____

ADDRESS OF THE WITNESS _____

Annexure- 6

Format for Financial Bid covering Bid

(On the letterhead of the Applicant)

Date:

Executive Engineer

Room No 1503, 15th Floor,

NDMC, Palika Kendra

New Delhi-110001

Sub:- Application for "Request for Proposal for Selection of System Integrator for NDMC Smarty City Project "Design, Development, Implementation, Operation and Maintenance of Command and Control Centre & Data Center, Collaboration solution for meetings & virtual education and integration with various Smart City/NDMC Applications".

Sir,

We have reviewed all the terms and conditions of the RFP document and undertake to abide by all the terms and conditions contained therein. we are pleased to submit our quote in the form of the monthly concession fee to be payable by us to the NDMC as contained in the duly signed and sealed Annexure- 14 enclosed herewith.

We hereby declare that there are, and shall be, no deviations from the stated terms in the RFP Document.

02.03.2017

Yours faithfully,

For and on behalf of

.....

(Name of the Applicant)

(Signature of Authorised Signatory)

Encl: Duly signed and sealed Annexure-7 .

Format for Financial Bid

Bill of Material (Tentative items and their quantities have been given however System Integrator (SI) has to assess the quantities based on their design, NDMC requirements and site conditions. The number of items and quantities can also be more, some of these are the minimum required hardware and software items and quantities whereas some are illustrative, but in order to implement this scope of work, the items required may be more and the SI has to assess and provide those items to fully implement and made functional all the services as per scope defined in this RFP document).

Sr. No.	Minimum System Specifications	Unit	Min Quantity	Unit Rate	Total
1	Command Control Center (CCC) Solution with Integration /Data Normalization & City Operation software in HA	Lot	1		
2	Smart City Data Center				
2.1	Blade Chassis & Management	Nos.	3		
2.2	Blade Servers for applications (Min- Qty)	Nos.	12		
2.3	Operating Systems & DB License	Lot	As required		
2.4	Data Center Switch-Type I	Nos.	2		
2.5	Data Center Switch-Type II	Nos.	2		
2.6	Primary & Secondary Storage Solution (Non Video) Applications (Min 200TB)	Lot	1		
2.7	Tape Library	Lot	1		
2.8	Backup Storage	Lot	1		
2.9	Backup Software	Lot	1		
2.10	Internet Router	Nos.	2		
2.11	WAN Services Router	Nos.	2		
2.12	Firewall	Nos.	2		
2.13	Anti-APT for Command & Control Room	Lot	1		
2.14	Network Behaviors Analyses	Lot	1		
2.15	Web-security appliance	Lot	1		
2.16	IPS	Nos.	2		
2.17	Network Management System and WLAN Management System	Lot	As required		
2.18	EMS for DC,SLA management and helpdesk	Lot	As required		
2.19	Networking (Passive Components)	Lot	As required		
2.20	Air conditioning	Lot	As required		
2.21	UPS (1 hour backup) of required capacity as per equipments installed in data centre	Nos.	1		
2.22	Data Centre Site Preparation	Nos.	1		
2.23	Suitable rack solution for stacking Servers having complete electrical connections	Nos.	5		

3	City Operation Centre Physical infrastructure				
3.1	Video Wall (along with hardware & software) Solution - 6x2 Display	Nos.	1		
3.2	3 Screen –Operators Client Workstations for Command Control Centre and Communication System	Nos.	10		
3.3	1 Screen – Help Desk/Admin Operation	Nos.	2		
3.4	Networking Cost (Passive Components)	Nos.	1		
4	Collaboration and Virtual Education Solution				
4.1	VC End Point - Personal Videoconferencing end point for NDMC offices	Nos.	20		
4.2	VC End Point - Meeting Room Based Video conferencing Solution	Nos.	5		
4.3	VC End Point - Personal Videoconferencing end point for Principals of NDMC schools	Nos.	57		
4.4	Smart Class VC End Point - Video conference solution for classrooms	Nos.	57		
4.5	Smart Class Solution - Centralized Video Portal with centralized distribution engine as per technical specifications	Nos.	1		
4.6	Collaboration Solution - Multipoint Control Unit as per technical specifications	Nos.	1		
4.7	Collaboration Solution - all Control with scheduling and Firewall Traversal as per technical specifications	Nos.	1		
4.8	Collaboration Solution - Recording Solution as per technical specifications	Nos.	1		
4.9	Collaboration Solution - Centralized Video Portal with centralized distribution engine as per technical specifications	Nos.	1		
5	Multi-Function Laser Printer	Nos.	2		
6	Command & Control Room Site Preparation covering civil (flooring, false ceiling, wall paneling, creation of viewing gallery, space for video wall), electrical works, cabling (electrical & data cables), furniture and air-conditioning works - for 25 operators	Nos.	1		
7	Data Center Site Preparation covering civil (flooring, false ceiling, wall paneling), electrical works, cabling (electrical & data cables), networking racks, furniture and air-conditioning works etc.	Nos.	1		
8	Workstation Console & Peripherals- Cubicles with Table and Chair for operators (As required) - for 25 operators	Nos.	1		
9	UPS with 1 hr backup (CCC & DC)	Nos.	1		
10	Project Management & Project Installation cost	Lot	1		
11	Comprehensive O&M cost including Manpower for 5 Years for the date of GO-LIVE	Lot	1		
12	Training and Capacity Building	Lot	1		

Total Cost including 5 year Comprehensive AMC and Warranty				
---	--	--	--	--

Power of Attorney for signing of Application

Know all men by these presents, We..... (name of the firm and address of the registered office) do hereby irrevocably constitute, nominate, appoint and authorise Mr/ Ms (name),..... son/daughter/wife ofand presently residing at, who is presently employed with us/ the Lead Member of our Consortium and holding the position of, as our true and lawful attorney (hereinafter referred to as the "Attorney") to do in our name and on our behalf, all such acts, deeds and things as are necessary or required in connection with or incidental to submission of our application for pre-qualification and submission of our bid for the ***** Project proposed or being developed by the ***** (the "Authority") including but not limited to signing and submission of all applications, bids and other documents and writings, participate in Pre-Applications and other conferences and providing information/ responses to the Authority, representing us in all matters before the Authority, signing and execution of all contracts including the Concession Agreement and undertakings consequent to acceptance of our bid, and generally dealing with the Authority in all matters in connection with or relating to or arising out of our bid for the said Project and/ or upon award thereof to us and/or till the entering into of the Concession Agreement with the NDMC.

AND we hereby agree to ratify and confirm and do hereby ratify and confirm all acts, deeds and things done or caused to be done by our said Attorney pursuant to and in exercise of the powers conferred by this Power of Attorney and that all acts, deeds and things done by our said Attorney in exercise of the powers hereby conferred shall and shall always be deemed to have been done by us.

IN WITNESS WHEREOF WE,, THE ABOVE NAMED PRINCIPAL HAVE EXECUTED THIS POWER OF ATTORNEY ON THIS DAY OF, 20.....

For

.....
(Signature, name, designation and address)

Witnesses:

- 1.
- 2.

(Notarised)

Selection of Concessionaire for this PPP project

Accepted

.....

(Signature)

(Name, Title and Address of the Attorney)

Notes:

- *The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and when it is so required, the same should be under common seal affixed in accordance with the required procedure.*
- *Wherever required, the Applicant should submit for verification the extract of the charter documents and documents such as a board or shareholders' resolution/*

power of attorney in favour of the person executing this Power of Attorney for the delegation of power hereunder on behalf of the Applicant.

For a Power of Attorney executed and issued overseas, the document will also have to be legalised by the Indian Embassy and notarised in the jurisdiction where the Power of Attorney is being issued. However, the Power of Attorney provided by Applicants from countries that have signed the Hague Legislation Convention, 1961 are not required to be legalised by the Indian Embassy if it carries a conforming Apostille certificate.

Annexure-9

Statement of Legal Capacity

(To be forwarded on the letterhead of the Applicant/ Lead Member of Consortium)

Ref. Date:

To,

Dear Sir,

We hereby confirm that we/ our members in the Consortium (constitution of which has been described in the application) satisfy the terms and conditions laid out in the RFP document.

We have agreed that (insert member's name) will act as the Lead Member of our consortium.*

We have agreed that (insert individual's name) will act as our representative/will act as the representative of the consortium on its behalf* and has been duly authorized to submit the RFP. Further, the authorised signatory is vested with requisite powers to furnish such letter and authenticate the same.

Thanking you,

Yours faithfully,

(Signature, name and designation of the authorised signatory)
For and on behalf of.....

** Please strike out whichever is not applicable.*

Annexure-10

Declaration of Non-Blacklisting

(To be provided on the Company letter head)

Declaration for Lead Applicant:

Place _____
Date _____

To,
Office of the Executive Engineer
Room No.1503, 15th Floor,

02.03.2017

New Delhi Municipal Council
 Palika Kendra New Delhi – 110001
 Tel No:- 011-23348418
 Email: to be added

Subject: Self Declaration of not been blacklisted in response to the Request for Proposal for Selection of System Integrator for NDMC Smarty City Project "Design, Development, Implementation, Operation and Maintenance of Command and Control Centre & Data Center, Collaboration solution for meetings & virtual education and integration with various Smart City/NDMC Applications".

Ref: RFP No. _____ dated. _____

Dear Sir,

We confirm that our company or firm, _____, is currently not blacklisted in any manner whatsoever by any of the State or UT and or Central Government in India on any ground including but not limited to indulgence in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice.

(Signature of the Lead Applicant)

Printed Name

Designation

Seal

Date:

Place:

Business Address:

Annexure-11

No Deviation Certificate

This is to certify that our offer is exactly in line with your tender enquiry/RFP (including amendments) no. _____ dated. _____. This is to expressly certify that our offer contains no deviation either Technical (including but not limited to Scope of Work, Business Requirements Specification, Functional Requirements Specification, Hardware Specification and Technical Requirements Specification) or Commercial in either direct or indirect form.

(Authorised Signatory)

Signature:

Name:

Designation:

Address:

Seal:

Date:

Manufacturers'/Producers' Authorization Form

(This form has to be provided by the OEMs of the hardware and software solutions proposed. This letter of authority should be on the letterhead of the manufacturer and should be signed by a person competent and having the power of attorney to bind the manufacturer.)

Date: _____

To,
Office of the Executive Engineer
Room No.1503, 15th Floor,
New Delhi Municipal Council
Palika Kendra New Delhi - 110001
Tel No:- 011-23348418
Email: to be added

Subject: Manufacturer's Authorization Form
Ref: RFP No. _____ dated. _____

Dear Sir,

We _____ (Name of the OEM) who are established and reputable manufacturers of _____ (List of Goods) having factories or product development centers at the locations _____ or as per list attached, do hereby authorize. _____ (Name and address of the Applicant) to bid, negotiate and conclude the contract with you against RFP No. _____ Dated. _____ for the above goods manufactured or developed by us.

We hereby extend, our warranty for the hardware goods supplied by the Applicant and or maintenance or support services for software products against this invitation for bid by _____ (Name of the Applicant) as per requirements of this RFP.

Thinking you,
Yours faithfully,
(signature)

For and on behalf of: _____ (Name of the OEM)
Authorised Signatory
Name:
Designation:
Place:
Date:

Credential Summary

S.No.	Project Name	Client Name	Project Value (in INR)	Project Components	Documentary evidence provided (Yes/No)	Project Status (Completed or Ongoing or Withheld)
-------	--------------	-------------	------------------------	--------------------	--	---

1
2
3
4
5
6
7
8

- Client type- Indicate whether the client is Government or PSU or Private
- Project Components- Indicate the major project components like setting up of CCC.
- Documentary evidence provided- Indicate the documentary evidence provided with the detailed project credential like work order or purchase order or completion certificate or letter of appointment.
- Project Status- Completed (date of project completion) or Ongoing (Project start date)

Manpower Plan

I. Till Go-Live (Implementation)

Manpower Distribution

S N	Position	Month wise time to be spent by each personnel (in days)						Total
		Month 1	Month 2	Month 3	Month 12	
1	Project Director (Part time)							Onsite
								Offsite
2	Project Manager (Full time)							Onsite
3	Data Base Manager (Full time)							Onsite
4	Command & Communications/Con trol Center Expert (Full time)							Onsite
5	IOT Expert (on requirement basis)							Onsite
6	QA Manager (On requirement basis)							Onsite
7	FMS Team (24X7)							Onsite
8	Any other Resources Required							Onsite

II. After Go-Live (Operation & Maintenance)

Manpower Distribution

S. No.	Manpower	Years					Total
		Year 1	Year 2	Year 3	Year 4	Year 5	
1.							Onsite/Offsite
							Onsite/Offsite

2.	Onsite/Offsite
3.	Onsite/Offsite
4.	Onsite/Offsite
5.	Onsite/Offsite
6.	Onsite/Offsite
7.	Onsite/Offsite
8.	Onsite/Offsite

Total

Volume-2(Section 15) – Scope of Work and technical Requirement

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9. BILL OF MATERIAL 317

BLADE SERVER – 4 SOCKET (MIN- QTY)

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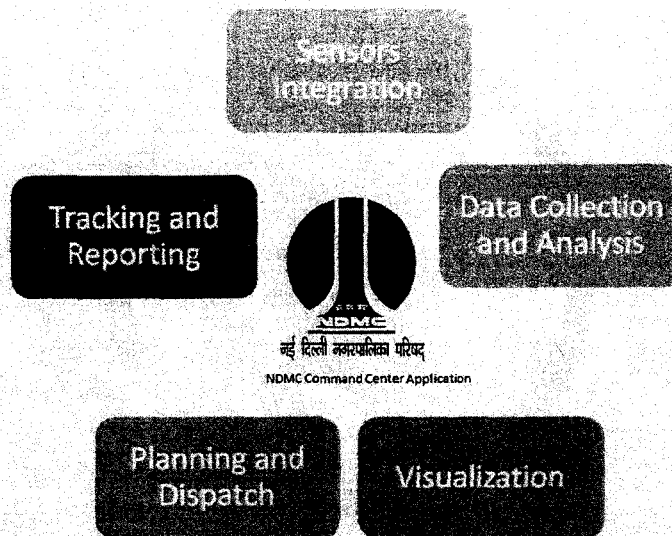
COLLABORATION SOLUTION - AUDIO VIDEO BRIDGING UNIT AT CENTRAL LOCATION

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Detailed Project Scope

The SI has to design, provide install and maintain the following services, equipment's and software items throughout the concession period.

The vision of the NDMC is to provide Integrated City Operations Platform (ICOP) with combination of Command and Control, Data Visualization and Sensor Integration technologies into a Common Operating Picture that improves whole communities' response to and management of planned and unplanned events, and builds the capability and resiliency of agencies charged with citizen safety, infrastructure protection, and relief activities.



The ICOP technology platform and capability enables diverse information sources to be shared and used for accurate and timely decision-making. In built GIS capability of the integrated command and control center will leveraged the NDMC with Incident Management, Correlation, Alarm Management, Dispatch Capability and tracking of Incident. It allows responding agencies to take advantage of detection and prediction technologies that can use all available and relevant data, and support decision-making in the wider context of the situation as it is now and as it might unfold.

The ICOP may be staffed continuously, or opened only when required by operational procedures. The latter situation means that the centre and the personnel that will be running it need to be ready at short notice. This in turn implies that the ICOP technology platform will be cost-effective to maintain and the need for complex staff training and retraining kept to a minimum.

The integrated operations centre allows responding agencies to:

- See and make sense of what's happening.
- Utilize a shared platform for collaborative decision-making.
- Cooperatively manage tools and resources, allocate tasks, and issue notifications.

The success of an integrated operations centre will be measured by the ability of decision-makers to have access to the information they need to allow them to make decisions in collaboration with other decision-makers and stakeholders. They will be presented with their own tailored views or slices of the common operating picture,

updated and refreshed together with the views of other operators throughout the solution. Access to sensitive information will be managed through robust identity management and formal trust relationships that are aligned with legislated powers.

Command Control Center (CCC) Solution requirement

Functional Requirement of Command and Control Centre

The SI has to provide, deploy and configured an integrated operations and dashboard application that integrated various Smart City use cases on this platform.

Proposed Solution architecture should have combination of data normalization and City operation center software with below capabilities, data normalization software should support on-prem and cloud technology, however bidder can choose one platform for this project;

S.NO.	Functionality Description		Compliance (Yes/No)
1.	Data Normalization capabilities	<p>It is envisaged that the city will implement multiple Smart City use cases over a period of time. The potential example Smart City use cases are-</p> <ul style="list-style-type: none"> • Smart Outdoor Lighting • Smart Parking • Smart Traffic Management • Smart Energy Metering • Smart Water Metering • Public Safety and Safe City Operations • Connected Public Transport (Metro/DTC) • Public Wi-Fi and Urban Service Delivery over Public Wi-Fi • Kiosks for Citizen Information • Citizen Interactive Kiosks for Urban Service Delivery • Environmental Monitoring • Smart Waste Management • And other integrations as per defined scope 	
2.		The platform should be able to integrate with any type of sensor platform being used for the urban services irrespective of the technology used. platform should be on open standards or compatible.	
3.		The platform should also allow the manufacturers of the sensors to develop integrations themselves using SDKs without affecting the northbound applications and existing integration	
4.		The platform should be able to normalize the data coming from different devices of same type (i.e. Different lighting sensor from different OEMs, different energy meters from different OEMs etc.) and provide secure access to that data using data API(s) to application developers.	

S.NO.	Functionality Description		Compliance (Yes/No)
5.		The platform should support distributed deployment of functions (workflows & policies) across city's network and compute infrastructure with centralized management and control.	
6.	GIS Map Support	System should support Esri, map box, Open street etc.	
7.	Location engine	a) Map services and geospatial coordinates: provides the geographical coordinates of specific facilities, roads, and city infrastructure assets, as well as unmapped facilities b) Geospatial calculation: calculates distance between two, or more, locations on the map c) Location-based tracking: locates and traces devices on the map	
8.	Device engine	a) Aggregation and abstraction of sensors: provides aggregation of sensors from diverse sensor cloud b) Normalization of sensor data: organizes sensor data and assigns attributes based on relations; raw data removed and passed to data engine	
9.	Data and Analytics engine	a) Data archive and logging: stores data feeds from the device engine and external data sources. b) Analytics: provides time-shifted or offline analytics on the archived data. c) Reporting: delivers reports based on events triggered by device engine data and external notifications.	
10.	Service management	a) Data brokerage, ID Management: Performs service management.	
11.	Developer Program tools	Sensor platform OEM should provide online Developer Program tools that help City to produce new applications, and/or use solution APIs to enhance or manage existing solution free of cost. OEM should have technology labs via an online public facing web interface. These labs should be available 24X7.	
12.	Authentication, Authorization	System should support standard Authentication, Authorization Performs.	
13.	Data plan Functionalities	Live data and visual feed from diverse sensors connected to the platform.	
14.	API Repository / API Guide	Normalized APIs should be available for the listed domains (Parking, Outdoor Lighting, Traffic, Environment, Urban mobility etc.) to monitor, control sensor and/or actuators functionality to enable app developers to develop apps on the platform. For example Lighting APIs: Vendor agnostic APIs to control Lighting functionality.	
15.		Platform OEM should have published the	

S.NO.	Functionality Description		Compliance (Yes/No)
		normalized APIs in their website for the listed domains ((Parking, Outdoor Lighting, Traffic, Environment, Urban mobility etc.) to allow sensor vendors and app developers to develop their connectors / adaptors to the platform.	
16.		Cross collaboration APIs: Enabling contextual information and correlation across domains and verticals (Multiple vendor and Multi-sensor in future).	
17.	Platform upgrade and maintenance	The OEM should be able to securely access the platform remotely for platform updates / upgrades and maintenance for the given duration.	
18.		Platform should be able to be deployed on a public cloud for disaster recovery.	
19.	Platform functionality	API management and gateway: Provides secure API lifecycle, monitoring mechanism for available APIs.	
20.		User and subscription management: Provides different tier of user categorization, authentication, authorization, and services based on the subscriptions	
21.		Application management: Provides role-based access view to applications	
22.		Enabling analytics: Time shifted and real-time data available for big data and analytics.	
23.		The platform should also be able to bring in other e-governance data (SCADA systems) as i-frames in the command and control centre dashboard	
24.		All of these data should be rendered / visualized on the command and control centre dashboard.	
25.	Integration capabilities	This platform is expected to integrate various urban services devices at the street layer so that urban services applications can be developed on top of this platform independent of the technology that is used in the devices.	
26.		Integrate devices using their APIs in to this platform. For example, if the City wants to deploy Smart Parking solution, this platform should have the ability and provision to write adaptors which interface with the parking sensors or management software of the parking sensors to collect parking events, data and alerts and notifications from the devices and their software managers.	
27.		The platform should be able to integrate any type of parking sensor irrespective of the technology used. For example, some parking sensors might use RF technology like LoRa or ZigBee to communicate the data and events, some might use GPRS or some might use Wi-Fi. Some parking sensors might use infra-red based detection, some might use magnetic field based detection or combination of the both where as some might use a video camera	

S.NO.	Functionality Description		Compliance (Yes/No)
		to detect parking occupancy. Irrespective of the technology, the platform should be able to integrate with these devices and their software managers and provide the data from such devices in a normalized and standard based data models.	
28.		The same logic and requirement applies to various other urban services devices like LED control nodes, water meters, energy meters, environmental sensors, waste bin sensors, device embedded in connected vehicles etc.	
29.		Enables the City and its partners to define a standard data model for each of the urban services domains (i.e. Parking, lighting, kiosks etc....)	
30.		Enables City and/or its partners to write software adaptors based on the API(s) provided by device vendors and have the ability to control, monitor and collect the data from these street devices	
31.		Provides urban services API(s) to develop operation applications for each of the Urban Services domains. For example, the lighting operator of the City should be able to develop a City Lighting management application based on the API(s) provided by the platform. This lighting application should also have the ability to access data from other domains like environment based on the access control configured in the system.	
32.	Trending Service	System should provide trends in graphical representation from data sources over a period of time. Trends should allow to monitor and analyze device performance over time.	
33.	Policies and Events	System should allow policy creation to set of rules that control the behavior of infrastructure items. Each policy should a set of conditions that activate the behavior it provides. System should allow Default, Time-based, Event-based and Manual override polices creation. For example, an operator might enforce a "no parking zone" policy manually to facilitate road repairs.	
34.		System should provision to defines a set of conditions that can be used to trigger an event-based policy	
35.	Notifications, Alerts and Alarms	System should generate Notification, Alert and Alarm messages that should be visible within the Dashboard and the Enforcement Officer Mobile App if required.	
36.		All system messages (notifications, alerts and alarms) should always visible from the Notifications view, which provides controls that	

S.NO.	Functionality Description		Compliance (Yes/No)
		operator can use to sort and filter the messages that it displays.	
37.		Systems should deliver message to a set of subscribers. The Notification service should support min two types of notification methods – Email notification and Short Messaging Service (SMS) notification.	
38.	Users and roles	Users access the perform various tasks, such as adding new locations, configuring new devices, managing adapters, and so on. However, not all users can perform all tasks. Each user should be associated with one or more roles and each role is assigned a certain set of permissions.	
39.		These roles and permissions define the tasks that a user can perform. Additionally, system should assign one or more locations to each role so that the user can perform tasks at the assigned locations only.	
40.		Roles and permissions define the tasks that a user can perform, such as adding users, viewing location details, exporting devices, generating reports, and so on. Each user should be associated with one or more roles and each role has an assigned set of permissions.	
41.		The platform should allow different roles to be created and assign those roles to different access control policies.	
42.		Since this platform is being used for managing Cities, the platform should also allow association of users and locations. For example, the platform should allow creation of locations in the system which correspond to various physical locations in the city and allow the admin to associate different users to different locations with the intent that each user can control only services for a location for which has been given access.	
43.		System should support LDAP to be used as an additional data store for user management and authentication.	
44.	Service Catalog Management	The Service catalog management module should allow to categorize the externalized and non-externalized services into logical groups by creating the service catalogs. In addition, system should allow manage the service catalogs by adding, modifying, or deleting the catalog details.	
45.	Reports	The platform should have capability to provide access to real time data and historical data from various connected devices for reporting and analytics.	

S.NO.	Functionality Description		Compliance (Yes/No)
46.		System should allow dashboard to generate reports and have provision to add reports in favorites list	
47.	Data Security	The access to data should be highly secure and efficient.	
48.		Access to the platform API(s) should be secured using API keys.	
49.		Software should support security standards: OAuth 2.0, HTTPS over SSL, and key management help protect the data across all domains.	
50.	Global Market Presence & Support System	Smart city suppliers should be adaptable to the emerging needs of cities. Suppliers should develop offerings that meet the growing interest in urban Internet of Things (IoT) applications, big data solutions, and the transformation in city approaches to energy policy, urban mobility, and city resilience.	
51.		The Smart City supplier should be industry leader and belong to leader quadrant of the "Navigant Research Leader board Report For Smart City Supplier".	
52.		The proposed OEM solution software platform should be deployed in at least 1 city in India and 5 cities globally. Bidder to furnish OEM self-certification with the name of the cities.	
53.		Software platform OEM should provide online Developer Program tools that help City to produce new applications, and/or use solution APIs to enhance or manage existing solution free of cost. OEM should have technology labs via an online public facing web interface. These labs should be available 24X7.	
54.		Command Centre OEM should have registered office in India at least from last 10 Years and should software development center in India. Should have Quality Management System ISO 9001 and Environmental Management System ISO 14001 Quality Certifications.	
55.	Standard Operating Procedure	Command & Control Center should provide for authoring and invoking un-limited number of configurable and customizable standard operating procedures through graphical, easy to use tooling interface.	
56.		Standard Operating Procedures should be established, approved sets of actions considered to be the best practices for responding to a situation or carrying out an operation.	
57.		The users should be able to edit the SOP, including adding, editing, or deleting the activities.	
58.		The users should be able to also add comments to or stop the SOP (prior to completion).	

S.NO.	Functionality Description		Compliance (Yes/No)
59.		There should be provision for automatically logging the actions, changes, and commentary for the SOP and its activities, so that an electronic record is available for after-action review.	
60.		The CCC platform should have the capability to bring in multiple stake holders automatically into a common collaboration platform like persistent chat rooms and virtual meeting rooms in response to a SOP defined to handle a particular event.	
61.		The CCC platform should provide an ability to bring multiple stake holders on to a common voice conference call as a standard operating procedure in response configured events	
62.		The stake holders can be on various types of devices like computer, smart phones, tablets or normal phones	
63.		The operator should also have ability create these collaboration spaces like virtual meeting rooms or chat groups manually.	
64.		The SOP Tool should have capability to define the following activity types:	
65.		Manual Activity - An activity that is done manually by the owner and provide details in the description field.	
66.		Automation Activity - An activity that initiates and tracks a particular work order and select a predefined work order from the list.	
67.		If-Then-Else Activity - A conditional activity that allows branching based on specific criteria. Either enter or select values for Then and Else.	
68.		Notification Activity - An activity that displays a notification window that contains an email template for the activity owner to complete, and then sends an email notification.	
69.		SOP Activity - An activity that launches another standard operating procedure.	
70.	Enterprise resource planning (ERP) integration	System should allow integration of business process in ERP workflows like property tax collection etc.	
71.		System should allow ERP data visualization at city dashboard	
72.		The platform should have the capability to retrieve data directly from ERP systems. The APIs should be RESTful and return the data in JSON format.	
73.		The platform should also have the capability to read data directly from a set of databases (HBase, MongoDB, Oracle, Cassandra, MySQL, Impala). To connect to any of the databases information on how to connect should be provided.	
74.		System should be able to read data from flat CSV files.	

S.NO.	Functionality Description		Compliance (Yes/No)
75.	Digital billboards integration	System should share city data to Digital billboards application in API format, Digital billboards management software will do business correlation and push content for outdoor display.	
76.	Analytics Engine	Analytics Engine should be an artificial intelligence-based smart city analytics platform module to maximize business value through advanced machine learning capabilities. The machine learning capabilities aid in automating policies that result in better asset and infrastructure management.	
77.		The solution should be flexible to integrate with other city and government software applications.	
78.		<p>Analytics Engine module should have below intelligence capabilities;</p> <ul style="list-style-type: none"> a) Advanced Predictive Analytics should be part of the solution. b) The solution should be flexible to integrate with other city and government software applications c) The solution should be able to predict insights consuming data from city infrastructure viz., Traffic, Parking, Lighting etc. d) The solution should have predictions with measurable accuracy of at least > 70% e) The solution should be able to predict and integrate with Smart City solutions helping in driving operational policies creation. f) The solution should be robust, secure and scalable. g) The solution should have a visualization platform to view historic analytics 	
79.		<p>The application should enable the customers to discover, compare, and correlate data across heterogeneous data sources to unravel the patterns that are previously hidden. At a broader level, when you work with the application, system do the following tasks:</p> <ul style="list-style-type: none"> a) Connect to a variety of data sources b) Analyze the result set c) Visualize the results d) Predict outcomes 	
80.		<p>Analytics Engine should support multiple Data Sources. Min below standard data sources should be supported from day 1 –</p> <p>CSV, TSV, MS Excel , NOSQL, RDBMS</p>	5
81.		<p>Analytics Engine should provide analysis of data from a selected data source(s).</p> <p>Analysis enables to define arithmetic and aggregation operations that result in the</p>	

S.NO.	Functionality Description		Compliance (Yes/No)
		desired output. Analytics engine should provide capability to check analysis with multiple predictive algorithms	
82.	Analytics Engine Visualizations	Analytics Engine should provide visualizations dashboard. In the visualization workspace it should allow to change visual attributes of a graph. User should not be allowed to alter the graph/visualization definition. In the visualizations workspace, user should be able to do the following operations: a) Change the graph/visualization type b) Print the graph c) Export the graph d) Narrow down on the value ranges e) Toggle the axis labels f) Integrate with other 3 rd party applications seamlessly	
83.	Export Formats	System should allow export the analysis into min following formats: a) XML/JSON b) Excel c) PDF d) CSV	
84.	Video Display and integration capabilities	Integrates with existing cameras and new cameras. Should support multiple video sources from multiple locations. Platform should have no limitation in displaying the number of CCTV video sources	
85.		Integrate and assess inputs from different sources such as CCTV, Video Analytics, and sensors further to assist with actionable intelligence.	
86.		Display module should have capability to control multi-screened display wall in sync with operator console	
87.		Visual integration of maps with video and data displays up to 25 channels simultaneously	
88.		Should support Fixed type and PTZ camera. Control PTZ function from the screen to control the camera	
89.		Supervisors remotely can access the system and monitor the alerts received, action taken status, response etc.	
90.		Should be able to access the CCTV sources both from CCTV Camera and from Video Management software.	

S.NO.	Functionality Description		Compliance (Yes/No)
91.		Should be able to display Alarms from different sources such as Video alarm from cameras, video alarms from VMS, if required	
92.		Should support integration of Video analytics from edge and server based video analytics	
93.		Provide configurable intelligent operator console based on the jurisdiction, critical area or sensors to monitor as per situation demands for focused surveillance.	
94.		Should be able to integrate with 3rd party applications alerts, like Video Loss Alarm, Loitering, Vehicle counting etc.	
95.		Alarm Management system should be in place to customize each type of alarm display	
96.		Generate Customized reports based on the area, sensor type or periodic or any other customer reports as per choice of the administrators	
97.		Should support multiple Local operation center along with Viewer stations that requires monitoring function	
98.	Social Media Intelligence	Provide analytics based on the social media feed collected from the open source intelligence and collate with the surveillance inputs to alert the responders for immediate action on the ground.	
99.		There should be a mechanism to retrieve and cache open social data from Facebook, Twitter, G+ and LinkedIn. The system should have the capability to use the cached social data for analysis	
100.			
101.	Field Responder Mobile Apps	Provide integrated Mobile Application for Android and Windows for capturing real-time information from the field response team using Mobile- Standard Operating Procedure.	

Command& Control software should be integrated with below services. SI for this project should provide APIs and integrate with the following services from Day 1. Following Services should be considered as part of this RFP:

- 57) Smart LED Street Lights (for 21000 LEDs)
- 58) Sensor Based & Camera Based Smart Parking for 15000 ECS whole of the NDMC area.
- 59) Water-SCADA & Smart Water Metering
- 60) Electricity-SCADA & Smart Electric Metering
- 61) Property Tax
- 62) Smart Classroom
- 63) Surveillance using CCTV (for approximately 2000 camera)

- 64) NDMC App 311
- 65) Centralized Control of Variable Messaging Sign (VMS) (existing – 3 Nos; new – 5 Nos; markets, digital interactive panels-75 Nos.)
- 66) Building Plan Approval
- 67) Accounts Module (e-fin module)
- 68) Legal Module
- 69) e-hospital
- 70) GPS (Garbage vehicle, C&D waste, municipal vehicles, mechanical sweepers, water tankers etc.)
- 71) e-office (including e-dak)
- 72) Public Wi-Fi
- 73) Estate License/ License fee module
- 74) Citizen Interactive Kiosks for Urban Service Delivery
- 75) Environmental Monitoring (sensor based)
- 76) Smart Waste Management (sensor and GPS based)
- 77) Billing of Electricity & Water (Commercial Department)
- 78) Event Management-(Venue Booking, Bharat Ghar Booking and other events)
- 79) Birth & Death Module
- 80) Health License
- 81) Asset Management
- 82) Material Management and Procurement Management
- 83) Central Workshop Management
- 84) HRMS including pay roll and pension, Biometric Attendance

APIs requirement for initiatives/services proposed in future by the NDMC, which are not mentioned above will be dealt as per Clause 3.5.6, if required by the NDMC.

Integration Scope with Centre Command Centre

S.No.	Solution	Minimum Integration Scope
	<ol style="list-style-type: none"> a) CCC Solution Exposes device control and data using a standardized API for third-party application developer ecosystem in a vendor-agnostic way. b) Consolidates all city infrastructure assets onto a single operations platform. c) Collects, stores, and provides access to data generated from “Connected” city infrastructure (through the digital platform) assets using common data models. d) The extensible platform allows Customer to start small scale and then add solutions as needed. e) Integration with CCC with unique property mapping (USUUP) f) Offers rapid, reliable flexible deployment g) Offers greater trust and security with security standards. h) Reporting (Data presentation)- Data can be reported for city modules, functionalities, and major performance indicators. i) Integration with biometric attendance. <p>Example reports include:</p> <ul style="list-style-type: none"> • Parking occupancy, violations, and revenue • Lighting-energy consumption and intensity • Urban mobility (sizes of crowds, dwell time, traffic density, and speed) j) Trends in the air quality index (AQI) and environmental pollutants such as carbon dioxide, carbon monoxide, and nitric oxide and nitrogen dioxide k) Monitoring of water quality, STP. 	

1)	Smart LED Street Lights	<ul style="list-style-type: none"> l) The CCC should aggregate various data feeds from light sensors and systems further process information out of these data feeds to provide interface /dashboards for generating alert and notifications in real time. m) Provide single dashboard of various brand of lighting solution. n) CCC should support lighting control like diming, switch on/off, group control etc. o) CCC should provide reports of various brand of lighting solution. p) Integration with GIS map
2)	Sensor Based & Camera Based Smart Parking	<ul style="list-style-type: none"> a) Consolidates all city parking information onto a single operations platform. b) Should provide parking availability, revenue collection information on dashboard, which receives from various sources. c) The platform should be able to integrate any type of parking sensor irrespective of the technology used. For example, some parking sensors might use RF technology like LoRa or ZigBee to communicate the data and events, some might use GPRS or some might use Wi-Fi. Some parking sensors might use infra-red based detection, some might use magnetic field based detection or combination of the both where as some might use a video camera to detect parking occupancy. Irrespective of the technology, the platform should be able to integrate with these devices and their software managers and provide the data from such devices in a normalized and standard based data models. Viewing of CCTV feed of parking lots. d) Integration with GIS map
3)	Water- SCADA & Water Meter	<ul style="list-style-type: none"> a) The Water SCADA should be integrated into CCC via web services (REST or SOAP) b) The data exchange format should be JSON/XML c) CCC uses an Adapter(WSO2) for consuming the web services from SCADA application d) CCC Integration Engine stores auth and other historic data for generating reports e) CCC initially makes call to get the authentication tokens for calling web services f) MIS Details of following are integrated viz., <ul style="list-style-type: none"> - Total Commercial Users - Total Domestic Users - Total Flat Rate Users - Total Water Users - Total Demand Raised for a month - Total Payments Collected Today - Total Payments Collected this month - Total Pending Payments - Season wise trends of water usage - Projected Demand - Area wise water demand/usage - Peak Water Usage Days in a week/month g) KPIs on Demand vs Supply, Expected Collection vs Actuals Collected h) Integration with GIS map

4)	Electricity – SCADA & Electricity Meter	<ul style="list-style-type: none"> - The Electricity SCADA should be integrated into CCC via web services (REST or SOAP) - The data exchange format should be JSON/XML - CCC uses an Adapter(WSO2) for consuming the web services from Electricity SCADA application - CCC Integration Engine stores auth and other historic data for generating reports - CCC initially makes call to get the authentication tokens for calling web services - MIS Details of revenue Collection, Power Management, Usage, Peak Usage, Demand vs Distribution location wise should be integrated into the dashboard - MIS details of following are integrated into Dashboard viz., <ul style="list-style-type: none"> - Total Commercial Users - Total Domestic Users - Total Flat Rate Users - Total Electricity Users - Total Demand Raised for a month - Total Payments Collected Today - Total Payments Collected this month - Total Pending Payments - Season wise trends of electricity usage - Projected Demand - Area wise electricity demand/usage - Peak Electricity Usage Days in a week/month i) KPIs on Demand vs Supply, Expected Collection vs Actuals Collected j) Integration with IPDS software. k) Integration with GIS map
5)	Property Tax (GIS)	<ul style="list-style-type: none"> a) The Property Tax module should be integrated into CCC via web services (REST or SOAP) b) The data exchange format should be JSON/XML c) CCC uses an Adapter(WSO2) for consuming the web services from Property Tax application d) CCC Integration Engine stores auth and other historic data for generating reports e) CCC initially makes call to get the authentication tokens for calling web services f) CCC makes calls to get the required data from Urban Local Bodies (ULB) viz., City Corporation, City Municipal Council, Town Municipal etc., g) CCC expects the following services viz., Property Details per Location, h) CCC displays the analytical information of property tax collections across the NDMC bodies in a GIS map <ul style="list-style-type: none"> I. All the below services can be integrated into CCC II. Create New Property III. Get Property details IV. Get Property Bill V. Make Payment VI. Get Receipt i) Following reports can be displayed on CCC, if required <ul style="list-style-type: none"> I. Demand / Collection Register II. Assessment Register III. Ward-wise / Zone-wise Recovery reports

		IV. Top Defaulters Report V. Occupancy wise / Flat wise report' VI. Tax-wise Recovery Details VII. Tax-wise Demand Details VIII. Advance Payment Reports IX. Objection / Hearing Details j) Integration with GIS map k) Online Mutation
6)	Smart Classroom	a) The Smart Classroom should be integrated into CCC via web services (REST or SOAP) b) The data exchange format should be JSON/XML c) CCC uses an Adapter(WSO2) for consuming the web services from Smart Classroom application d) CCC Integration Engine stores auth and other historic data for generating reports e) CCC initially makes call to get the authentication tokens for calling web services f) MIS Details of reports on Classroom viz., location, facilities, components and their status should be integrated into the dashboard, active/inactive, usages pattern g) Connect class with CCC for the purpose of data uploading/downloading. h) Overall implementation vs current status details of Smart Classrooms should be integrated into Dashboard i) CCTV analytics j) MIS reports of education k) Integration with GIS map
7)	CCTV	a) Integrates with existing cameras and new cameras. Should support multiple video sources from multiple locations. Platform should have no limitation in displaying the number of CCTV video sources b) Integrate and assess inputs from different sources such as CCTV, Video Analytics, and sensors further to assist with actionable intelligence. c) Should use dynamic channel coverage specifically for video stream function for efficient bandwidth usage for multiple Remote Control center d) Display module should have capability to control multi-screened display wall in sync with operator console e) Should support Fixed type and PTZ camera. Control PTZ function from the screen to control the camera But with changing tile configuration each camera should be viewed with much lower resolution. f) The system should dynamically reduce the bit rate and bandwidth for each stream based on the viewing resolution at the remote location. g) Integration with GIS map
8)	App NDMC311	a) Provides unified northbound API to abstract diverse sensors and its attributes by single northbound API to allow interfacing and integration with existing systems. b) The platform should be able to normalize the data coming from different devices of same type (i.e. Different lighting sensor from different OEMs, different energy meters from different OEMs etc.) and provide

		<p>secure access to that data using data API(s) to application developers.</p> <ul style="list-style-type: none"> c) Provides Query-based language to access sensor parameter from sensor cloud d) Provides mechanism to translate and map business logic to sensor functionality e) Integration with GIS map
9)	Variable Messaging Signs (VMS)	<ul style="list-style-type: none"> a) The VMS system should be integrated into CCC via web services (REST or SOAP) b) The data exchange format should be JSON/XML c) CCC uses an Adapter(WSO2) for consuming the web services from VMS application d) CCC Integration Engine stores auth and other historic data for generating reports e) CCC initially makes call to get the authentication tokens for calling web services f) From Dashboard a message can be sent via API POST call to VMS System g) Any data of VMS system can be got via the service h) Integration with Existing-3 Nos; new-5 Nos; markets, digital interactive panels-75 Nos.) i) Centralized management of VMS j) Content management of VMS k) Security of the content to be displayed on VMS l) Integration with GIS map
10)	Building Plans Approval	<ul style="list-style-type: none"> a) The building plans approval system should be integrated into CCC via web services (REST or SOAP) b) The data exchange format should be JSON/XML c) CCC uses an Adapter(WSO2) for consuming the web services from Building Plans approval application d) CCC Integration Engine stores auth and other historic data for generating reports e) CCC initially makes call to get the authentication tokens for calling web services f) MIS Details of buildings, registered and unregistered, demand should be integrated into the dashboard. g) Integration with GIS map
11)	Accounts Module (e-fin module)	<ul style="list-style-type: none"> a) The Accounts module should be integrated into CCC via web services (REST or SOAP) b) The data exchange format should be JSON/XML c) CCC uses an Adapter(WSO2) for consuming the web services from Accounting application d) CCC Integration Engine stores auth and other historic data for generating reports e) CCC initially makes call to get the authentication tokens for calling web services f) Details of Financial Transactions, KPIs should be integrated into the dashboard g) This module get MIS data from other systems viz Payroll, Property Tax, Estate, other sundry earnings for which receipt is generated. Trade License etc for integration onto dashboard h) Also integrates details on reconciliation, budgeting vs usage and other key MIS information
12)	Legal Module	<ul style="list-style-type: none"> a) The Legal module should be integrated into CCC via web services (REST or SOAP) b) The data exchange format should be JSON/XML c) CCC uses an Adapter(WSO2) for consuming the web services from legal module application

		<ul style="list-style-type: none"> d) CCC Integration Engine stores auth and other historic data for generating reports e) CCC initially makes call to get the authentication tokens for calling web services f) CCC should integrate with Legal Module to get MIS information details numbers on legal cases g) CCC dashboard should integrate MIS details of daily board register, cases whose PWR is due to be furnished h) MIS details of Cases whose judgment implementation is due i) MIS details of Cases whose CA's are due to be filed, Next Date Of Hearing (NDOH) j) Status of Lawyer's fees. k) Integration with GIS map
13)	e-Hospital	<ul style="list-style-type: none"> a) The e-Hospital system should be integrated into CCC via web services (REST or SOAP) b) The data exchange format should be JSON/XML c) CCC uses an Adapter(WSO2) for consuming the web services from e-Hospital application d) CCC Integration Engine stores auth and other historic data for generating reports e) CCC initially makes call to get the authentication tokens for calling web services f) Details of water KPIs should be integrated into the dashboard g) and get following MIS details from e-Hospital system viz., Facilities, Specialties, Expertise Wards in/out patient, Case Reports Numbers, Financials h) Following MIS reports should be integrated into Dashboard viz., i) Total New Patient Registration – Overall m) Total New Patient Registration – Hospital wise n) Total Revisited Patients Today – Overall o) Total Revisited Patients Today - Hospital wise p) Total Vaccination Registration Summary (by type)– Today q) Total Vaccination Registrations Till Date r) Total Vaccinations based Revenue Collected Today s) Total Vaccinations based Revenue Collected Till Date i) Any Alerts and Notifications in case of any epidemics should be shown in CCC j) CCC should also integrate Case Reports and Other information into City Dashboard k) Medicines distributed, inventory l) OPD of each hospitals, dispensaries m) Integration with GIS map
14)	GPS	<ul style="list-style-type: none"> a) CCC should integrate with Vehicle tracking b) CCC should Garbage vehicles, C&D Waste, Municipal sweepers, water tankers etc. c) Actionable alerts d) Summary of distance traveled by each vehicle. e) Violations f) Integration with GIS map
15)	e-office (including e-dak)	<ul style="list-style-type: none"> a) The e-office management should be integrated into CCC via web services (REST or SOAP) b) The data exchange format should be JSON/XML c) CCC uses an Adapter(WSO2) for consuming the web

		<p>services from Material management application</p> <p>d) CCC Integration Engine stores auth and other historic data for generating reports</p> <p>e) CCC initially makes call to get the authentication tokens for calling web services</p> <p>f) All MIS data from e-office modules should be integrated into CCC</p> <p>g) Following MIS reports integrated into dashboard viz.,</p> <ul style="list-style-type: none"> (Aadhar based bio-metric attendance integration) - Total Registered Employees - Total Active Employees - Total Employees Present today - Total Devices - Devices Status
16)	Public Wi-Fi	<p>a) CCC should integrate with Wi-Fi solution and project real time user information on city dashboard</p> <p>b) Integration with GIS map</p>
17)	Estate License/ License fee module	<p>a) The Estate License management should be integrated into CCC via web services (REST or SOAP)</p> <p>b) The data exchange format should be JSON/XML</p> <p>c) CCC uses an Adapter(WSO2) for consuming the web services from Estate License application</p> <p>d) CCC Integration Engine stores auth and other historic data for generating reports</p> <p>e) CCC initially makes call to get the authentication tokens for calling web services</p> <p>f) MIS data to be integrated into Dashboard viz.,</p> <ul style="list-style-type: none"> - Licenses issued today/week/quarter/year wise - New License registrations today - Pending Licenses for issuance - Area wise trend on new license, issuance, pending - Revenue Generated today - Projected Revenue this month - Allotment Transfers done today/month - Defaulters/Pending Arrears - Revenue split of stalls, shops office space, commercial premises-hotels, restaurants - Comparison of per unit lease rate of similar properties <p>g) Alerts on vacant premises/shops, outstanding dues</p> <p>h) Integration with GIS map</p>
18)	Citizen Interactive Kiosks for Urban Service Delivery	<p>a) Interface with Citizen Interactive Kiosks for multi-services Urban Service.</p> <p>b) Provide APIs for integration of citizen services</p> <p>c) Manage and Control Kiosk content with a Content Management System</p> <p>d) Integration with GIS map</p>
19)	Environmental Monitoring (sensor based)	<p>a) Monitor key inputs from city environmental sensors like Temperature, Humidity, CO, CO₂, NO₂, SO₂, PM₁₀, PM_{2.5},</p> <p>b) Create awareness within the city based on dynamic inputs received from sensors and display output to various interfaces including city application, multi-services</p> <p>c) Integration with GIS map</p>

20)	Smart Waste Management	<ul style="list-style-type: none"> a) Monitoring of the smart waste management system web application real-time level information for containers as well as the automatic warning system which notifies when containers require attention. b) GIS based Real-time monitoring of solid waste collection vehicles. c) Geo tagged bins whether cleaned or not through GPS on vehicles, in case sensors are on C&D Waste. d) Log calls/jobs on the helpdesk database utilizing helpdesk software (inquiries may be received by telephone, facsimile, email or in person). e) Track progress of waste management service requests against pre-determined KPIs. f) Maintain asset information held in the helpdesk database. g) Update site specific waste management files and other documentation for helpdesk compliance. h) Integration with control room complaints and GIS map
21)	Billing of Electricity & Water (Commercial Department)	<ul style="list-style-type: none"> a) Communicate locations of personnel, equipment, outage information from Electricity system. b) Integrate with MIS reporting system c) Utilize the IoT system to monitor system statistics. d) Perform IoT operations as required by line personnel. e) Reports & Analytics on Electricity & Water Bill Collection, Drill down reports on Area wise Collection, Targeted Collection vs Current Collection, Water/Electricity Supply vs Demand Analysis f) KPIs on water and electricity supplied vs demand and consumed and the bill collection
22)	Event Management- (Venue Booking, Bharat Ghar Booking and other events)	<ul style="list-style-type: none"> a) Maintain asset information in the database using GIS and ERP system. b) Provide interface to mobile app for venue booking c) Provide MIS reports & analytics on <ul style="list-style-type: none"> - Venue location demand - Assets at venue - Venue assets/facilities usage - Venue capacity - Venue occupancy - Bookings per day/month - Venue Peak booking days in a week/month, - Venue peak booking times - Bookings Revenue per day/month per venue - Booking Trends seasonal/festivals/monthly - Intelligent analytics based of previous year uses, important days
23)	Birth & Death Module	<ul style="list-style-type: none"> a) Integrate the portal for displaying birth and death data via APIs b) Integrate with master data and other modules for information validity c) MIS Reports on Birth/Death information per location/age/gender etc. viz., <ul style="list-style-type: none"> - Online Birth Certificates printed today - Online Death Certificates printed today - Total Birth Certificates printed - Total Death Certificates printed - Birth Registrations – Today - Birth Registrations – Total - Death Registrations – Today

		<ul style="list-style-type: none"> - Death Registrations – Total - Re-print requests per day/month - Verification requests per day/month - Pending Certificates issuance - Location/Hospital wise birth/death registrations - Age group wise death registrations - Gender wise birth/death registrations <p>d) Analytics on Population vs Birth/Death</p> <p>e) KPI's on birth and death certificate issuance by location per location</p> <p>f) Integration with GIS map</p>
24)	Health License	<p>a) The Health License management should be integrated into CCC via web services (REST or SOAP)</p> <p>b) The data exchange format should be JSON/XML</p> <p>c) CCC uses an Adapter(WSO2) for consuming the web services from Health License application</p> <p>d) CCC Integration Engine stores auth and other historic data for generating reports</p> <p>e) CCC initially makes call to get the authentication tokens for calling web services</p> <p>f) MIS data on Health licenses added day/week/quarter/year wise from various locations should be integrated to CCC</p> <p>g) Integration with GIS map</p>
25)	Asset Management	<p>a) The Asset management module should be integrated into CCC via web services (REST or SOAP)</p> <p>b) The data exchange format should be JSON/XML</p> <p>c) CCC uses an Adapter(WSO2) for consuming the web services from Asset Management application</p> <p>d) CCC Integration Engine stores auth and other historic data for generating reports</p> <p>e) CCC initially makes call to get the authentication tokens for calling web services</p> <p>f) MIS Details on procured assets, material details, and financial impacts on the assets, assets under maintenance, asset categorization, asset usage should be integrated into the dashboard</p> <p>g) Integration with GIS map</p>
26)	Material Management & Procurement Management	<p>a) The Material management should be integrated into CCC via web services (REST or SOAP)</p> <p>b) The data exchange format should be JSON/XML</p> <p>c) CCC uses an Adapter(WSO2) for consuming the web services from Material management application</p> <p>d) CCC Integration Engine stores auth and other historic data for generating reports</p> <p>e) CCC initially makes call to get the authentication tokens for calling web services</p> <p>f) CCC should integrate MIS details on Material supplied, material requirements, material usage by location/by asset and other details viz., Financials</p> <p>a) The Procurement management should be integrated into CCC via web services (REST or SOAP)</p> <p>b) The data exchange format should be JSON/XML</p> <p>c) CCC uses an Adapter(WSO2) for consuming the web services from Procurement management application</p> <p>d) CCC Integration Engine stores auth and other historic data for generating reports</p> <p>e) CCC initially makes call to get the authentication tokens for calling web services</p>

		g) CCC should integrate with MIS reports/data tenders published yearly/quarterly, Tender Type wise published, Category wise of tenders along with split up of Works, Services, Goods
27)	Central workshop Management	a) The Central Workshop management should be integrated into CCC via web services (REST or SOAP) b) The data exchange format should be JSON/XML c) CCC uses an Adapter(WSO2) for consuming the web services from Material management application d) CCC Integration Engine stores auth and other historic data for generating reports e) CCC initially makes call to get the authentication tokens for calling web services f) CCC Integrates key MIS reports on workshop by location, asset details by workshop g) Integration with GIS map
28)	HRMS including pay roll and pension, Biometric Attendance	a) The HRMS should be integrated into CCC via web services (REST or SOAP) b) The data exchange format should be JSON/XML c) CCC uses an Adapter(WSO2) for consuming the web services from HRML application d) CCC Integration Engine stores auth and other historic data for generating reports e) CCC initially makes call to get the authentication tokens for calling web services f) CCC should integrate the MIS details of Payroll, Employee Wise Pay Summary, Department/Section wise, PF/CPF

City Operation Center Physical infrastructure

Video-wall Solution

Video-wall Screen

S.NO.	Specification Item	Detailed Specification Description	Compliance (Yes/No)
1	Configuration	CUBES OF 70" DIAGONAL IN A 6 (C) X 2 (R) CONFIGURATION COMPLETE WITH COVERED BASE STAND	
2	Cube & Controller	Cube & controller should be from the same manufacturer	
3	Reputed Company	The OEM should be an established multinational in the field of video walls and should have installations around the world	
4	Chip Type	1-chip Digital micro mirror device	
5	Resolution	1920x 1080 native DMD chip resolution	
6	Light Source Type	Laser light source	
7	Brightness	Minimum 2200 lumens	
8	Brightness Uniformity	≥ 90 %	
9	Dynamic Contrast	1400000:1 or more	

10	Control	IP based control to be provided	
11	Remote	IR remote control should also be provided for quick access	
12	Screen to Screen Gap	≤ 1.0 mm	
13	Screen Support	Screen should have an anti reflective glass backing to prevent bulging	
14	Control BD Input terminals	Input: 1 x Digital DVI	
15		Input: 1 x HDMI	
16		Input: 1 x HD-BaseT	
17		Input: 1 x Display Port	
18		Output: 1 x Digital DVI	
19	Auto color adjust function	Should provide auto color adjustment function	
20		Should be sensor based	
21	Maintenance Access	Front	
22	Cube Size	Each cube should have a screen size of 1550 mm wide and 872 mm high (+2%). Depth of cube shall be 560 mm or less.	
23	Cube control & Monitoring	Videowall should be equipped with a cube control & monitoring system	
24		Provide videowall status including Source , light source ,temperature, fan and power information	
25		Should provide a virtual remote on the screen to control the videowall	
26		Input sources can be scheduled in " daily", "periodically" or "sequentially" mode per user convenience	
27		System should have a quick monitor area to access critical functions of the videowall	
28		User should be able to add or delete critical functions from quick monitor area	
29		Automatically launch alerts, warnings, error popup windows in case there is an error in the system	
30		User should be able to define the error messages as informational, serious or warning messages	
31		Automatically notify the error to the administrator or user through a pop up window and email	
32		Status log file should be downloadable in CSV format as per user convenience	

Video-wall Controller & Software

S. No	Parameter	Indicative Specifications	Compliance (Yes/No)
1	Controller	Controller to control Video wall in a matrix as per requirement along with software's	
2	Chassis	19" Rack mount	
3	Processor options	Single Quad Core Intel® Core™ i7 Quad Core 3.4 GHz processor) or better	
4	OS	Supports 64-bit Operating System Windows 7	
5	RAM Capacity	16 GB or more	
6	HDD	500 GB or more	
7	Networking	Dual-port Gigabit Ethernet	
8	RAID	RAID 1, 5, 10 supports	
9	Power Supply	(1+1) Redundant hot swappable	
10	Cooling	Any Advanced Proven cooling mechanism	
11	Input / Output support	DVI/HDMI/USB/ LAN/ VGA/SATA port	
12	Accessories	DVD +RW, Keyboard and mouse	
13	Voltage	100-240V @ 50Hz	
14	Redundancy support	Power Supply, HDD, LAN port & Controller	
15	Scalability	Display multiple source windows in any size, anywhere on the wall	
16	Control functions	Brightness / contrast / saturation/ Hue/ Filtering/ Crop / rotate	
17	Universal Inputs	Minimum 2	
18	Formats	DVI /RGB/Component	
19	Input Format	NTSC/ PAL/SECAM	
20	Operating Temperature	10°C to 35°C , 80 % humidity	
21	Cable & Connections	Vendor should provide all the necessary cables and connectors	

Sl. No	Parameter	Minimum Specifications	Compliance (Yes/No)
1	Display & Scaling	Display multiple sources anywhere on display up to any size	
2	Input Management	All input sources can be displayed on the video wall in freely resizable and movable windows	
3	Scenarios management	Save and Load desktop layouts from Local or remote machines	
4	Layout Management	Support all Layout from Video, RGB, DVI, Internet Explorer, Desktop and Remote Desktop Application	
5	Multi View Option	Multiple view of portions or regions of Desktop, Multiple Application Can view from single desktop	
6	Other features	SMTP support	
7		Remote Control over LAN	
8		Alarm management	
9		Remote management	
10		Multiple concurrent client	
11		KVM support	
12	Cube	Cube Health Monitoring	

	Management		
13		Pop-Up Alert Service	
14		Graphical User Interface	
15	Cube ,Controller & Wall Management Software	Cube , Controller and Wall management Software should be from the same manufacturer	

Operators Client Workstations

S. No	Parameter	Minimum Specifications	Compliance (Yes/No)
1	Operating System (OS)	Windows 7 Pro, Ultimate or Enterprise, 64-bit	
2	CPU	Intel Core i7, 3.07 Ghz or Higher	
3	Memory	32 GB DDR3	
4	Graphics Card	Nvidia GeForce GT430 PCIe Nvidia GeForce GTX460 PCIe or faster.	
5	Network connection	Gigabit Ethernet (GigE) network connection required	
6	Monitor	Min 19 Inch or Higher	

Smart City Data Center

Blade Chassis & Management

S.no.	Parameter	Description	Compliance (Yes/No)
1	Blade Chassis	Blade chassis shall be 19" Electronic Industries Alliance Standard Width rack mountable and provide appropriate rack mount kit.	
2	Power	The enclosure should be populated fully with power supplies of the highest capacity & energy efficiency of a minimum of 90%.	
3		The power subsystem should support N + N power redundancy (where N is at least equal to 2) for a fully populated chassis with all servers configured with the highest CPU configuration, maximum memory and IO configuration possible	
4	Cooling	Each blade enclosure should have a cooling subsystem consisting of redundant hot pluggable fans or blowers enabled with technologies for improved power consumption and acoustics	
5	Chassis connectivity	The chassis should support redundant modules for connectivity - Ethernet and Fiber Channel /Infiniband modules OR converged fabric modules in lieu thereof	
6	Ethernet Module	Chassis should have sufficient number of redundant 10gb based ethernet modules to provide a minimum of 20 Gbps per blade server and 10 Gbps sustained per blade server	

		(with 1 module failure)for a fully populated chassis for LAN Traffic.	
7	FC Module	Chassis should have sufficient number of redundant 8gb based FC modules to provide a minimum of 16 Gbps per blade server and 8 Gbps sustained per blade server (with 1 module failure)for a fully populated chassis for FC Traffic.	
8	Converged Module	In lieu of above mentioned Ethernet and FC module, Chassis can also be provision to have sufficient number of redundant 10gb based converged modules to provide a minimum of 40 Gbps per blade server and 20Gbps sustained per blade server (with 1 module failure)for a fully populated chassis for LAN & SAN Traffic. It should also provide minimum 40Gbps FCOE downlink bandwidth from each module /switch to each x86 server	
9	Management	Must be able to show the actual power usage and actual thermal measurement data of the servers across chassis	
10		Administrators should have the ability to set a cap on the maximum power that the chassis / physical server can draw in order to limit power consumption for non critical applications	
11		Redundancy should be built in the management subsystem so that if one management module fails other should be able to take over automatically. Management solution should be provided so that management upto 10 blade blade chassis can be done from single console.	
12		Role Based Access Control and remote management capabilities including remote KVM should be included	
13		Should support a environment where server identity including - server BIOS version, MAC ID, NIC firmware version, WWPN , FC-HBA firmware version , Management module firmware version, Server Boot Policies, KVM IP etc can be created	
14		Movement of server identity from one slot to another in the event of server failure within chassis as well as across chassis.	
15	Licensing	Should include all necessary licenses for management for a fully loaded chassis.	

Blade Servers for applications

Blade Server – 2 Socket

S.no.	Parameter	Description	Compliance (Yes/No)
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1	Processor	Each blade server should be configured with a minimum of two (2) 2.60 GHz E5-2690 v3/ v4 porcessors or higher available in latest series. Proposed processor should be available in the market for atleast last 6 months.	
2	Memory	Should have at least 24 DIMM slots and should be populated with minimum 128 GB of memory Day1.	
3	HDD	The server should support a minimum of 2 hot plug SAS, SATA and SSD hard disk drives and should be populated with minimum 2 x 600 GB SAS drives of memory Day1	
4	Interface ports	The Blade server should support Ethernet and fiber channel connectivity OR Converged Network Adapters in lieu of the same. The Converged Network Adapters should aggregate both the Ethernet and FC connectivity on a single fabric	
5		The server should be configured to provide for port and card level redundancy	
6	IO bandwidth	The server should provide a minimum of 36Gb aggregate bandwidth per server (2 x 10Gb for Ethernet and 2 x 8 Gb for FC OR 4X10Gb for Converged Network adapter). Server should support the scalability to 80gb of LAN & SAN traffic.	
7		The server bandwidth should be expandable to 80Gb per server	
8	Management	It should suport remote/virtual KVM capability from an external keyboard, video monitor and mouse to all blades installed in the chassis through the management controllers and should also support virtual media for dvd access.	

Blade Server – 4 Socket

S.no.	Specifications		Compliance (Yes/No)
1	Processor	Each blade shall support up to four (4) Intel Xeon E7 -4800/8800 V3/V4 series of CPUs. Should be populated with min two E7-4820 V3/ V4 CPUs. Proposed processor should be available in the market for atleast last 6 months.	
2	Storage	The Blade should have two front accessible hard disk drives or Solid State Drives (SSD)	
3		The Blade should have support for Boot from SAN	

4	Memory	The server should have at least 16 GB per core DDR 3/DDR 4 memory. After populating DIMMs, Each blade server should have 100% free memory DIMM slots remaining for future expansion. Server should be scalable to 96 DIMM slots per blade. Should have atleast 48 DIMMs slots with 2 CPUs populated.	
5	Network	The Blade server should support Converged Network Adapter , which aggregates both the Ethernet and FC connectivity on a single controller	
6		It should support scalability upto 160 Gb Ethernet connectivity per server. Should be provided with 80 Gbps across two or more cards.	
7	Management	It should support remote KVM capability from an external keyboard, video monitor and mouse to all blades installed in the chassis through the management controllers	
8		Remote KVM should support up to 4 active sessions	
9	Others	The Blade should be hot pluggable	

Data Center Switch-Type I

S. No.	Features	Specifications	Compliance (Yes/No)
1	Hardware & Performance Requirements	<p>Chassis based Multilayer Switch with sufficient modules/line cards to fit required transceivers/UTP ports. Chassis shall have minimum 8 payload slots. The switch must have front to back airflow.</p> <p>The total aggregate switching capacity shall be scalable to 3 Tbps or more, SI to choose the required bandwidth as per their solution.</p> <p>There should not be any single point of failure in the switch. All the main components like CPU module, switching fabric, support module, system clock, power supplies and fans etc should be in redundant configuration. Components, like modules/power supplies/fan tray should be Hot Swappable</p> <p>The switch should have redundant CPU's working in an active-active or active-standby mode. There should not be any traffic disruption during the CPU fail-over/change-over and the fail-over time should be less than 1 sec.</p> <p>Should Support Hitless software upgrades (ISSU) to reduce downtime during software upgrade. The switch must support Fault isolation per process and process patching to enhance the switch availability</p> <p>The Switch should support non-blocking Layer 2 switching and Layer 3 routing.</p> <p>The Backplane should be 100% Passive.</p> <p>Preferrably back plane free design to optimize the airflow and power consumption.</p>	

- The Switch should have a Truly Distributed Architecture. All Interface Modules should have all the resources for switching and Routing and should offer True Local Switching (Intra-Module and Inter-Module).
- The switch must support 1/10G SFP+, 1/10 G Base-T and 40G QSFP based port line cards. The switch must scalability to support minimum 200 nos of 40 G QSFP ports or more. Bidder to choose required ports as epr their solution.
- Support for Unidirectional Link Detection Protocol (UDLD) or equivalent, Layer 2 trace route or equivalent to ease troubleshooting
- Should support port, subnet based 802.1Q VLANs. The switch should support 4096 vlans. The switch must support Private VLAN or equivalent. The switch should support 50K no. of MAC addresses
- Switch must support spine - leaf topology based on VXLAN and create large layer 2 domains.
- Switch must support multi chassis ether channel feature and work with any downstream switch, server from various vendors.
- Should support routing protocol IP v4 - Static routing, OSPF v2, BGPv4, IS-IS and IP v6 - BGP, OSPF v3. The switch must support Bidirectional Forwarding detection. The total aggregate switching capacity shall be 3 Tbps or more
- Switch should support VRF - Lite and VRF Route leaking functionality..
- Should support minimum 32K Route entries for IPv4 and IPv6 routes.
- Switch should support 8K Multicast route
- Switch must support IP v4 – HSRP/ VRRP and IP v6 - HSRP v6/ VRRP v6. It must also support DHCP Relay V4 and V6.
- Switch must support IEEE 802.1BR (Bridge Port Extension) or equivalent technology, which in turn enable remote line card functionality to optimize cabling inside the data center.
- Switch must support virtualization features like VXLAN Gateway/Bridging and routing functionality. Capability of supporting NVGRE is preferred.
- Switch should have minimum of 72 x 40G Ports
- The switch should be minimum EAL2 / Applicable Protection Profile (NDPP) certified under the Common Criteria Evaluation Program. In case, the OEM has applied for the certificate, then either such OEM shall get the certificate for such switches before the date of Go-Live, or such switches has to be replaced from switches of an OEM having such certificate.

Data Center Switch-Type 2

S. No.	Features	Specifications	Compliance (Yes/No)
1	Hardware features	Proposed network device must be 19" rack mountable & Maximum 2 RU in size.	
		It is desirable that the network infrastructure is based on delivering front to back airflow.	
		Must have Redundancy Power Supply Units (PSUs), Hot-swappable, field-replaceable power supplies, 1:1 power redundancy and Must have N:1 fan module redundancy.	
		All components (including elements such as I/O cards, Expansion Module, power supplies and fans) must be hot swappable with zero disruption to traffic forwarding (Unicast or multicast).	
		Must have minimum 48 x 1/10 G SFP+ and 6 X 40 G QSFP port, SI to choose required transceivers as per their solution. Core/ Spine to TOR/ Leaf switch connectivity should be at multiple of 40G links.	
		Transceivers to be supplied as per minimum BOQ given in RFP.	
		Must be field upgradeable / license upgradeable to Layer 3 for investment protection.	
		Must have Line-rate traffic throughput on all ports at Layer 2.	
		Must have Line-rate traffic throughput on all ports at Layer 3	
		Must support Bridge Extension Protocol (IEEE 802.1BR) or equivalent - to scale Gigabit & 10 Gigabit Ethernet ports	
		Must allow building very large L2 domain using Multi-Path Ethernet technologies.	
		Must support port channeling across multi chassis.	
2	Switch Features	Physical standards for Network Device	
		Must support IEEE 802.1d, IEEE 802.1w, IEEE 802.1s, IEEE 802.1q, IEEE 802.1ab, IEEE 802.3ad, IEEE 802.1p	
		Routing protocol support when upgraded with Layer3 License	
		Must support Static IP routing, OSPF, BGPv4,	
		Must support Protocol Independent Multicast Version 2 (PIMv2) sparse mode, Source Specific Multicast (SSM), Multicast Source Discovery Protocol (MSDP), and Internet Group Management Protocol Versions 2, and 3 (IGMP v2, and v3)	
		Support for up to 8K multicast routes	
		Must support In-Service Software Upgrade (ISSU) for Layer 2	
		Must have Modular QoS classification compliance	

		It is preferred that switch must support VXLAN (Bridging and Routing) as well as NVGRE overlay encapsulation protocol in hardware to support multiple hypervisor deployment in the Data Center	
		Must support Remote Authentication Dial-In User Service (RADIUS) and/or Terminal Access Controller Access Control System Plus (TACACS+)	
3	Security features	Must support AAA using RADIUS (RFC 2138 & 2139) and/or TACACS+, enabling centralized control of the device and the ability to restrict unauthorized users from altering the configuration	
		Must have following Access Control features	
		Must support Ingress ACLs (Standard & Extended or equivalent) on Ethernet and virtual Ethernet ports	
		Must have Egress strict-priority queuing or equivalent	
4	Quality of Service	Must support Egress port-based scheduling: Weighted Round-Robin (WRR) or equivalent	
		Must have ACL-based QoS classification (Layers 2, 3, and 4)	
5	Compliance / Certification	The switch should be minimum EAL2 / Applicable Protection Profile (NDPP) certified under the Common Criteria Evaluation Program. In case, the OEM has applied for the certificate, then either such OEM shall get the certificate for such switches before the date of Go-Live, or such switches has to be replaced from switches of an OEM having such certificate.	

Primary & Secondary Storage Solution

Primary Storage for DC

S. No.	Parameter	Minimum Specification	Compliance (Y/N)
1	Converge/ Unified Storage	Unified Storage/Truly converge Solution with NSPoF (No single point of failure) Architecture. The Storage solution should support NAS & SAN as an integrated offering with high availability at each level. The architecture should allow upgrades of hardware and software for investment protection.	
2	Protocols	Solution should be configured with required protocols for the solution CIFS/SMB 3/ NFS 4/iSCSI/FCoE/FC. All required protocols required for the solution to be enabled.	
3	Controllers	System to have minimum Two controllers with NSPoF Architecture (NO single point of failure architecture). System Data mover/controller should support 2x Intel Xeon E5-2600 6- core CPU or higher. Storage should support non-disruptive online firmware upgrade for both Controllers and disk drives.	

4	Operating System	The storage array should support Operating System Platforms & Clustering including: Linux/Windows//Unix OS.	
5	Cache Memory	Cache Memory: Each controller should support 128 GB RAM with usable protected data Cache for Disk IO Operations. If NAS controllers with separate controllers additional RAM cache to be provided. The storage array must have complete cache protection mechanism either by de-staging data to disk/flash or protecting with NVRAM	
6	Host Connectivity	The storage system shall be capable of providing host connectivity as per solution offered (Unified/SAN/NAS/Scale out NAS). Minimum 4 ports per controller to be provided for host connectivity	
7	RAID Supports	RAID levels Supported: 0, 1, 5, 6, 10 (Dual parity or higher)	
8	Redundancy	Fans and power supplies: Dual redundant, hot-swappable	
9	Disk Drive Support	Storage subsystem shall support 6TB/8TB or higher NL-SAS/SATA/equivalent 7.2K drives in the same device array.	
10	Global Hot Spare	System should have the capability to designate global hot spares that can automatically be used to replace a failed drive anywhere in the system. Storage system should be configured with required Global Hot-spares for the different type and no. of disks configured, as per the system architecture best practices.	
11	Multipath	Multi-path & Load balancing, MPXIO, IPMP, LACP protocol should be supported.	
12	Capacity	The storage system should be configured with 280 TB usable capacity using 10TB 7.2K RPM NL-SAS disk with 4+2 disk raid (Dual parity and 6 disk per raid group) and 2 nos of global hot spare disks. For caching additional 4x400 GB 12 Gbps Enterprise SSD to be configured separately with Raid 10	
13	Thin Provisioning	Proposed array must be supplied with Thin provisioning for the configured capacity.	
14	De-duplication	Should provide de-duplication functionalities for the configured capacity.	
15	Tiering	Storage should support inbuilt automated tiering feature that migrates the most frequently accessed data to the SSD/RAM. Necessary licenses for configured capacity to be provided from day 1	

16	Snapshots	Should be able to take "snapshots" of the stored data. Offered Storage shall have support to make the snapshot in scheduled or auto snaps. Snapshot should support both block and file.	
17	Replication	The storage array must have the capability to do remote replication using IP technology.	
18	Software Licenses	All the necessary software and licenses to configure and manage the storage space, RAID configuration, logical drives allocation, snapshots, compression, de-dup, replication, auto-tiering for the configured capacity to be provided from day 1	
19	Monitoring	Should support the functionality of proactive monitoring of Disk drive and Storage system for all possible hard or soft failure.	

Secondary Storage- DR site

S. No.	Parameter	Minimum Specification	Compliance (Y/N)
1	Converge/Unified Storage	Unified Storage/Truly converge Solution. The Storage solution should support NAS & SAN as an integrated offering with high availability at each level. The architecture should allow upgrades of hardware and software for investment protection.	
2	Protocols	Solution should be configured with required protocols for the solution CIFS/SMB 3/ NFS 4/iSCSI/FCoE/FC. All required protocols required for the solution to be enabled.	
3	Controllers	System to have single controller or higher at DR site System Data mover/controller should support 2x Intel Xeon E5-2600 6- core CPU or higher. Storage should support non-disruptive online firmware upgrade for both Controllers and disk drives.	
4	Operating System	The storage array should support Operating System Platforms & Clustering including: Linux/Windows//Unix OS.	
5	Cache Memory	Cache Memory: Each controller should support 128 GB RAM with usable protected data Cache for Disk IO Operations. If NAS controllers with separate controllers additional RAM cache to be provided. The storage array must have complete cache protection mechanism either by de-staging data to disk/flash or protecting with NVRAM	
6	Host Connectivity	The storage system shall be capable of providing host connectivity as per solution offered (Unified/SAN/NAS/Scale out NAS). Minimum 2 ports per controller to be provided	

		for host connectivity	
7	RAID Supports	RAID levels Supported: 0, 1, 5, 6, 10 (Dual parity or higher)	
8	Redundancy	Fans and power supplies: Dual redundant, hot-swappable	
9	Disk Drive Support	Storage subsystem shall support 6TB/8TB or higher NL-SAS/SATA/equivalent 7.2K drives in the same device array.	
10	Global Hot Spare	System should have the capability to designate global hot spares that can be automatically be used to replace a failed drive anywhere in the system. Storage system should be configured with required Global Hot-spares for the different type and no. of disks configured, as per the system architecture best practices.	
11	Multipath	Multi-path & Load balancing, MPXIO, IPMP, LACP protocol should be supported.	
12	Capacity	The storage system should be configured with 280 TB usable capacity using 10TB 7.2K RPM NL-SAS disk with 4+2 disk raid (Dual parity and 6 disk per raid group) and 2 nos of global hot spare disks. For caching additional 4x400 GB 12 Gbps Enterprise SSD to be configured separately with Raid 10	
13	Thin Provisioning	Proposed array must be supplied with Thin provisioning for the configured capacity.	
14	De-duplication	Should provide de-duplication functionalities for the configured capacity.	
15	Tiering	Storage should support inbuilt automated tiering feature that migrates the most frequently accessed data to the SSD/RAM.	
16	Snapshots	Should be able to take "snapshots" of the stored data. Offered Storage shall have support to make the snapshot in scheduled or auto snaps. Snapshot should support both block and file.	
17	Replication	The storage array must have the capability to do remote replication using IP technology.	
18	Software Licenses	All the necessary software and licenses to configure and manage the storage space, RAID configuration, logical drives allocation, snapshots, compression, de-dup, replication for the configured capacity to be provided from day 1	
19	Monitoring	Should support the functionality of proactive monitoring of Disk drive and Storage system for all possible hard or soft failure.	

Tape Library

S.No.	Features	COMPLIANCE
1	ARCHITECTURE: a)The offered Automated tape library with Redundant Power Supply must be of latest technology and should be provided with minimum 4 nos. of LTO7 tape LTO7 SAS/FC tape drives with 50 slots or more ."	
2	SCALABILITY : The offered tape library must have modular scalability for slots scalable up to 500+ slots and 40 drives - As And When required . All the slots and Drives must be seamlessly accessible through the Same Single Robotics.	
3	DATA TRANSFER RATE : Offered LTO 7 drive should have native speed of at least 300 MB/sec and a compressed speed of at least 750 MB/sec for 2.5:1 compression.	
4	CONNECTIVITY :Should provide for 8 Gbps native FC connectivity to SAN switch & should be backward compatible to 4Gbps also.	
5	MANAGEMENT: The offered tape library must have web based remote management facility	
6	CONSUMABLES: LTO7 Data cartridges and cleaning cartridges with Barcode labels to be provided with proper bar code labels. As per solution for retention	
7	PARTITION :Should support for partitioning so that each drive can be configured in a separate partition thus providing the ability to utilize a single library in a variety of applications. All the necessary Licence or hardware for min 4 partitions must be provided along with the library . The Tape library should have provision upto 20 partitions in future.	
8	FLEXIBILITY :The Tape Library should provide feature and capabily for the Mixed media usage. The Tape Library should provide support different LTO generation tape drives within the same library- in case required by user . Older generation LTO5/LTO6 Media and Drives must be supported.	
9	The Tape Library should have a Bar-Code Scanner/reader to accurately locate the catridges and take the desired action for backup or Restore without any manual intervention.	
10	RELIABILITY: The offered tape library must have a high reliabilty ie MCBF (mean cycles between failures) more than 2,000,000 cycles.	
11	CERTIFICATIONS: The TL must be Certified by the BIS STANDARDS (Certificate to be attached)	

12	MONITORING: The overall solution with Tape Library and the backup s/w integration should have features like Intelligent monitoring management and diagnostics & The Tape library must have features to Set alerts for backup and archive events	
13	The overall solution with Tape Library should have a Built-in Management feature to monitor the Tape Library Modules (Tape Drives, Power Supply, etc.) through a centralized Console.	
14	The Tape Library should have GUI based Operator Console along with manageability through Web Based Browser.	
15	The overall solution offered Tape Library should provide either AME or LME encryption key management . The necessary tools/Licence required must be provided by the System integrator, to keep the Encrypted keys in a Redundant and safe location.	
16	Offered Tape Library should be integrated with the Servers and Storage (HP, NetApp, IBM, DELL , FUJITSU , EMC) to back up all the data from the SAN to The Tape library using the required backup S/w , this should be LAN free and the necessary NDMP licence must be factored by the Bidder.	
17	The Tape library should provided be provided as an Integrated Solution , thus the required Backup S/w, HBA/FC and SWITCH must provided by the Bidder.	
18	Tape library should provide Barcode reader and min 10 mail slots –, to deliver easy, secure access to individual tape cartridges without interrupting library operations.	
19	The Tape Library should have LCD front panel	

Backup Storage

S.NO.	Paramater	Minimum specification	Compliance
1	Solution/Type	Backup Storage (Archival/Backup) should leverage advanced space efficient and faster retrieval tehcnologies. It can be on any media such as Tapes, Disks, Disk systems, etc. or its combination. (so as to arrive at lower cost per TB)	
2		Should use de-duplication & compression technology	
3		Compatible with Primary Storage	
4	Backup Size	To store data as required, to meet the archival requirement of different logs, 90 days of storage for feeds on backup storage and post this store it on tapes for further retention.	

5	Hardware Platform	Rack mounted	
6	Software Platform	Must include backup/archive software compatible with the proposed solution	
7	Backup window	Retrieval data time should be 4/6 hours for critical data. For faster retrieval of critical data backup solution should leverage disk system technology	

Backup Software

Sl. No.	Technical Specification	Compliance
1	Backup software must support GUI with centralized management / Single interface for management of all backup activities.	
2	The offered software must support Advanced sharing of different media across the environment (disk, tape and optical)	
3	The offered software must support multiple level of backups including full, incremental, differential and synthetic full.	
4	The offered software must support D2D2T & D2T mechanism. It should provide deduplication and compression technologies for backup efficiency.	
5	The offered software must support following application and database backup without CLI and without the requirement of temporary disk space for PostgreSQL, 64-bit Active Directory, MS SQL, MS Exchange, Share-Point, Oracle, MySQL.	
6	Proposed capacity license must include unlimited database license including MS SQL, MySQL, PostgreSQL, Oracle, SharePoint, AD, DB2, Sybase etc. In case any database is not covered in capacity license, bidder must include 20 license for each type to avoid any challenge.	
7	The proposed software must have block level technology to store single copy collected from multiple electronic repository.	
8	The software must be able to Compress and Encrypt data at the Client-side and this feature should be available even during de-duplication.	
9	The offered software must have more than three Encryption algorithms (like 128 bit AES, 256 BIT AES etc) and it should not demand for additional license, any such license if needed should be quoted for the total backup capacity license.	
10	The offered software must provide Backup master server in HA/ DR capability. License must be included in proposed solution.	
11	The offered software must support backup of virtual environment including RHEV, Vmware, Hyper-v, OVM through integration with their hypervisor managers.	
12	Backup solution must support multi tenancy feature for creation of distinct data zones.	
13	The offered software must be able to auto discover guest VMs with database instances and dynamically protect them with application consistent recovery for MS SQL and Oracle.	
14	The software solution must provide full support for Global Filter lists.	

15	The offered software solution must support IPV4 and IPV6 addressing system.	
16	The offered software solution must have inbuilt capability to do trend analysis for capacity planning of backup environment.	
17	The offered software must support heterogeneous media server agent failover.	
18	The proposed solution must support data archival for inactive data based on age or quota with seamless access on multiplatform (Windows, Linux and Unix).	
19	The proposed solution must have inbuilt Ransomware detection capability for clients	
20	Proposed backup solution must have inbuilt capability to protect the backedup volume from Ransomware.	

WAN Services router and Internet Router

Item	Specifications for WAN services router or Internet Router	Compliance
		(Yes/No)
Form Factor / Dimension	General Specifications	
Architecture	The router shall facilitate all applications like voice, video and data to run over a converged IP infrastructure along with hardware assisted IPSEC & Network Address Translation (NAT), capability. The router should also support hitless interface protection, In-band and out-band management, Software rollback feature, Graceful Restart, non stop routing for OSPF, BGP, LDP, MP-BGP etc. The platform shall have modular software that will run service & features as processes having full isolation from each other	
	The router shall provide sub-second IGP convergence, NSF/SSO/NSR, TE FRR, VRRP and ISSU for high availability. The router shall support fast BGP route convergence for IP and MPLS VPN routes with no dependency of the BGP routing table size.	
	The router line card must support following interface: Fast Ethernet, Gigabit Ethernet, Channelized STM1, STM1, STM16, STM64, 10G Ethernet, POS, ATM, V.35 Serial Ports, E1, Chn E1, E3 Ports. Support for these port requirement can be considered optional for Internet routers	
Performance	Backplane Architecture: The back plane architecture of the router must be modular and redundant. The back plane bandwidth must be 20 Gbps from day one with minimum scalability upto 30 Gbps with minimum routing performance of 20 mpps form day one (1) scalble upto 30 mpps, with minimum three (3) open slots.	

	<p>The Router should have individual dedicated control plane processor and data plane processor module. Data plane Processor module should be independent of the control plane Processor. Control plane Processor should have support for internal memory to support multiple software images for backup purposes and future scalability. The router processor architecture must be multi-processor based and should support hardware accelerated, parallelized and programmable IP forwarding and switching.</p>	
	<p>The router should support the IPv4 and IPv6 DUAL-stack in hardware and software. The router should support minimum 450k IPv4, IPv6 routes from day one (1) & scalable to minimum 1MN IPv4, IPv6 unicast routes, should have 56K Multicast routes & 500 IGMP groups from day one.</p>	
Protocol Support	<p>The router shall have RIPv1, RIPv2, RIPv6, BGP, OSPFv2 & v3, Policy Based Routing for both IPv4 & IPv6, IP Multicast Routing Protocols to facilitate applications such as streaming, webcast, command & control including PIM SM, PIM SSM, GRE (Generic Routing Encapsulation) Tunneling with 1000 tunnels enabled from day one</p>	
	<p>Router should support following MPLS features – LDP, Layer 2 VPN such as EoMPLS with LDP signalling, Route Reflector (RR), Traffic Engineering with RSVP-TE, Fast Reroute Link Node & Path protection enabled from day one. Support for these features can be considered optional for Internet routers</p>	
QoS Features	<p>The router shall support QoS policy in the router shall support dual Strict Priority Queue or Low Latency Queue per policy so that voice and video traffic can be put in different queue. It also should have hierarchical QoS (Inbound and Outbound) to ensure bandwidth allocation for all type of traffic during congestion and non congestion scenario.</p>	
	<p>The router shall perform traffic Classification using various parameters like source physical interfaces, source/destination IP subnet, protocol types (IP/TCP/UDP), source/destination ports, IP Precedence, 802.1p, DSCP and by some well known application types through Application Recognition techniques.</p>	
Security Feature	<p>The router should have support for hardware enabled Network Address Translation (NAT) and Port Address Translation (PAT) . The router shall support NAT6to4 function. Mention the number of sessions that it can support. The router shall support vrf-aware NAT function.</p>	
	<p>The router shall meet the following requirements for security: Access Control List to filter traffic based on Source & Destination IP Subnet, Source & Destination Port, Protocol Type (IP, UDP, TCP, ICMP etc) and Port Range etc. Router should support deep and stateful packet inspection to recognize a wide variety of applications</p>	

	<p>The router shall support firewall service in hardware on all interfaces for enhanced security to protect the backbone from malicious activities. The firewall performance shall be at least 5 Gbps (internal/external). In case of external firewall, bidder should propose the firewall with necessary 10G interface and redundant power supply.</p> <p>Router should have at least 1 Gbps of IPSEC throughput from day one. In case of external VPN box, bidder should propose the hardware with necessary 10G interface and redundant power supply. The proposed router should have embedded support for 2000 IPsec tunnels from day one. The router should support vrf aware IPSEC. should have support for Suite-B crypto engine requirements for IKE and IPsec</p>	
Management	<p>The router must support management through SNMPv1/v2/v3, support RADIUS and TACACS. The router must role based access to the system for configuration and monitoring & deep and stateful packet inspection to recognize a wide variety of applications. The router shall be provided with IETF standards based feature so that granular traffic analysis can be performed for advanced auditing, usage analysis, capacity planning or generating security telemetry events, also the router shall have SLA monitoring tools to measure state of the network in real time. The SLA operations shall provide information on TCP/UDP delay, jitter, application response time, Packet Loss etc.</p>	
Interface Requirements:	Router should be provided with 6 x 1 GE port with required transceivers as per solution & one 10 gig interface	
Compliance/ Certifications	The Router should be minimum EAL2 / Applicable Protection Profile (NDPP) certified under the Common Criteria Evaluation Program	

Firewall

	Industry Certifications and Evaluations	Compliance (Yes/No)
1	The Firewall solution offered must be rated as 'leaders' or 'Challengers' in the latest Magic Quadrant for Enterprise Network Firewall published by Gartner.	
2	The Firewall offered must be given recommended status by NSS Lab Report.	
	Hardware Architecture	
2	The appliance based security platform should be capable of providing firewall, application visibility, and control, VPN functionality in a single appliance	
3	The appliance should support at least 8 * (1G / 10G) ports and 2 * 40 G ports from Day one and should be scalable to more 2 * 40G ports in future	

4	The appliance hardware should be a multicore CPU architecture with a hardened 64 bit operating system to support higher memory	
5	Proposed Firewall should not be proprietary ASIC based in nature & should be open architecture based on multi-core cpu's to protect & scale against dynamic latest security threats.	
	Performance & Scalability	
6	Should support at least 10 Gbps of production performance / multiprotocol throughput.	
7	Should support at least 8 Gbps of VPN throughput.	
8	Firewall should support at least 4,000,000 concurrent sessions	
9	Firewall should support at least 65,000 connections per second	
10	Firewall should support at least 1000 VLANs	
	Firewall Features	
11	Firewall should provide application detection for DNS, FTP, HTTP, SMTP,ESMTP, LDAP, MGCP, RTSP, SIP, SCCP, SQLNET, TFTP, H.323, SNMP	
12	Firewall should support creating access-rules with IPv4 & IPv6 objects simultaneously	
13	Firewall should support operating in routed & transparent mode	
14	Should support Static, RIP, OSPF, OSPFv3 and BGP	
15	Firewall should support manual NAT and Auto-NAT, static nat, dynamic nat, dynamic pat	
16	Firewall should support Nat66 (IPv6-to-IPv6), Nat 64 (IPv6-to-IPv4) & Nat46 (IPv4-to-IPv6) functionality	
17	Firewall should support Multicast protocols like IGMP, PIM, etc	
18	Should support security policies based on security group names in source or destination fields or both	
19	Should support capability to limit bandwidth on basis of apps / groups, Networks / Geo, Ports, etc	
	High-Availability Features	
21	Firewall should support Active/Standby failover	
22	Firewall should support ether channel or equivalent functionality for the failover control & data interfaces for provide additional level of redundancy	
23	Firewall should support redundant interfaces to provide interface level redundancy before device failover	
24	Firewall should support 802.3ad Ether channel or equivalent functionality to increase the bandwidth for a segment.	
25	Firewall should have integrated redundant power supply	
26	Firewall should have redundant hot-swappable FANs	
	Management	
27	The management platform must be accessible via a web-based interface and ideally with no need for additional client software	
28	The management platform must provide a highly customizable	

	dashboard.	
29	The management platform must be capable of integrating third party vulnerability information into threat policy adjustment routines and automated tuning workflows	
30	The management platform must be capable of role-based administration, enabling different sets of views and configuration capabilities for different administrators subsequent to their authentication.	
31	Should support REST API for monitoring and config programmability	
32	The management platform must provide multiple report output types or formats, such as PDF, HTML, and CSV.	
33	The management platform must support multiple mechanisms for issuing alerts (e.g., SNMP, e-mail, SYSLOG).	
34	The management platform must provide robust reporting capabilities, including a selection of pre-defined reports and the ability for complete customization and generation of new reports.	
35	The management platform must risk reports like advanced malware, attacks and network	
36	The management platform must include an integration mechanism, preferably in the form of open APIs and/or standard interfaces, to enable events and log data to be shared with external network and security management applications, such as Security Information and Event Managers (SIEMs), and log management tools.	

Anti-APT (Advance Persistent Threat)

S N o	Feature	Compliance (Yes/NO)
1	Anti-APT solution should be appliance based and should offer a minimum throughput of 2 Gbps	
2	Appliance should support at least 4 * 1Gbps ports and 2 * 10G ports and all ports should have fail-open from day one	
3	Appliance shall provide a separate management port	
7	Appliance should have dual hot-swappable power supplies	
5	Appliance should be capable of working in Inline Blocking mode without depending on other network components like a separate FW, IPS or Web Security Appliance	
8	Proposed solution should include an on-prem sandbox and no file shall be sent outside of our premises	
9	Solution should be capable of blocking callbacks to CnC Servers and threats based on both signatures and behaviour	
	Propose solution should include On-premise Malware Analysis Solution (sandboxing) appliance should support minimim of 30 virtual machines and should have 2 x 10G ports with intergrated redundant power supply	

	Proposed Malware Analysis Solution shall use a purpose-built hypervisor, contained in a hardened virtual environment that is designed for threat analysis with built-in countermeasures against malware.	
	Solution should not only be dependent upon sandboxing and should use techniques like behavioural indicators to analyze action of file and other malware artifacts in determining the threats	
11	Proposed solution should be capable of employing an extensive set of contextual information (e.g., pertaining to the composition, configuration, and behavior of the network and its hosts) to improve the efficiency and accuracy of both manual and automatic analysis of detected events.	
12	Proposed solution's detection rules should be based on an extensible, open language that enables users to create their own rules, as well as to customize any vendor-provided rules.	
13	Proposed solution should be capable of blocking threats on the following protocols: HTTP, HTTPS, SMTP, IMAP, POP3, FTP & NetBIOS-ssn	
14	The solution should be capable of executing MS Office Documents, Portable Documents, Archive Files, Multimedia Files and executable binaries in a virtual sandbox environment	
15	The solution should be capable of exempting specific hosts from specific compliance rules and suppressing corresponding compliance events and alerts.	
16	<p>The solution should be capable of gathering Active Directory user identity information, mapping IP addresses to username and passively gathering information about network devices including but not limited to:</p> <ul style="list-style-type: none"> • Operating system vendor • Operating system version • Network protocols used, e.g. IPv6, IPv4 • Network services provided, e.g. HTTPS, SSH • Open ports, e.g. TCP:80 • Client applications installed and type, e.g. Chrome - web browser • Web applications access, e.g. Facebook, Gmail • Risk and relevance ratings should be available for all applications • Potential vulnerabilities • Current User • Device type, e.g. Bridge, Mobile device • Files transferred by this device / user 	
17	The solution should be capable of gathering Active Directory user identity information, mapping IP addresses to username, and making this information available for event management purposes as well as access control policy decisions.	
18	The solution should detect and classify mobile devices as mobile devices. For example: iPad, iPhone and Blackberry devices. These devices should be discovered and related back to the user, applications, and possible services they offer	
19	The solution should be capable of whitelisting trusted applications from being inspected to avoid business applications from being affected & in turn productivity	

20	The solution should be capable of blocking traffic based on geo locations to reduce the attack landscape and to protect communication to unwanted destinations based on geography	
21	The solution shall be able to detect attacks on 64-bit operating systems	
22	All the devices shall be managed centrally and should be capable of <ul style="list-style-type: none"> • Centralized, life cycle management for all sensors • Aggregating all events and centralized, real-time monitoring and forensic analysis of detected events • Must provide a highly customizable dashboard 	
23	The sandbox should be appliance based with the ability to run multiple versions of Windows within the same environment	
24	The Sandbox should be a proprietary custom built malware analysis solution and not open source or generic sandbox	
25	The Sandbox should be a proprietary custom built malware analysis solution and not open source or generic sandbox and should provide:	
	- analysis reports	
	- threat score of the sample	
	- ability to queue samples,	
	- impact analysis	
	- Global Threat Intelligence	
26	Sandbox shall be able to detect memory residing malware	
27	The solution shall have the capability to let the user modify parameters within the VM to observe changes in malware behaviour	
28	The proposed solution shall have the capability to continuously track a file's disposition based on global intelligence and do a retrospective block and alert if the file has exhibited malicious traits globally even if the file hasn't started behaving maliciously locally	

Network Behavior Analysis

S. No.	Minimum Requirement Description	Compliance (Y/N)
1	Should have an automated discovery function to identify network devices and capture information such as IP address, OS, services provided, other connected hosts.	
2	Should capture signature / heuristics based alerts and block the same	
3	Should identify the source of an attack and should not block legitimate users	
4	Should identify worms through techniques such as identifying the use of normally inactive ports or identification of network scanning activities	
5	The solution should be capable of detecting denial-of-service (DoS) and distributed denial-of-service (DDoS) attacks including floods of all types (ICMP, UDP, TCP SYN, TCP NULL, IP NULL etc.), identify the presence of botnets in the network, identify DNS spoofing attack etc.	

6	Should be capable of conducting protocol analysis to detect tunneled protocols, backdoors, the use of forbidden application protocols etc.	
7	Should utilize Anomaly detection methods to identify attacks such as zero-day exploits, self-modifying malware, attacks in the ciphered traffic or resource misuse or misconfiguration.	
8	The solution should Integrate with Microsoft Active Directory, RADIUS, and DHCP to provide user Identity information in addition to IP address information throughout the system & allow groups based on Identity or Active Directory workgroup & Provides full historical mapping of User Name to IP address logins in a searchable format	
9	Should support the capability to instruct network security devices such as firewalls to block certain types of traffic or route it to quarantine VLANs	
10	Should support the capability to alert the admin and provide mitigation action like quarantine or block the endpoint or custom scripts like ACL push or block the further spread of the malware/worm while allowing legitimate traffic to continue	
11	The system should be able to monitor flow data between various VLANs	
12	Should support the capability to identify network traffic from high risk applications such as file sharing, peer-to-peer, etc.	
13	Should support the capability to link usernames to IP addresses for suspected security events.	
14	Should support the capability to extract user defined fields (including source and destination IPs, source and destination MAC address, TCP/UDP ports or ICMP types and codes, no. of packets and no. of bytes transmitted in a session, timestamps for start and end of session etc.) from captured packet data and then utilize fields in correlation rules.	
15	Should support the capability Application profiling in the system and should also support custom applications present or acquired by the bank/customer	
16	Solution should be compatible with a virtual environment.	
17	The solution should provide access to raw as well as processed logs	
18	Dashboard should have the facility to be configured according to user profile	
19	System should support event forwarding for SMTP, SYSLOG & SNMP for high risk issues	
20	The solution must allow analysis by grouping of network segments such as User VLAN, Management VLAN, Server Farms etc.	
21	Solution should be able to track user's activities locally and remote network sites and should be able to report usage behavior across the entire network.	
22	Solution should support ubiquitous access to view all reporting functions using an internet browser.	

23	The solution should support the identification of applications tunneling on other ports	
24	Solution should be able to collect security and network information of servers and clients without the usage of agents	
25	The solution should be able to conduct de-duplication of redundant flow identified in the network to improve performance	
26	The solution should have the ability to statefully reassemble uni-directional flows into bi-directional conversations; handling de-duplication of data and asymmetry	
27	The solution should support all forms of flows including but not limited to cisco netflow, juniper jflow, sflow, ipfix for udp etc.	
28	The solution should be able to combine/stitch the flow records coming from different network devices like routers/switches/firewall that are associated with a single conversation and present them as a single bi-directional flow record	
29	The solution should be able to stitch flows into conversations even when the traffic is NATted by the firewall; clearly showing the original and translated IP address	
30	The solution should be able to leverage external threat feeds for information about known CnC connections, botnets, Tor exit nodes, etc	
	Network performance	
1	Solution should provide application bandwidth utilization graph for various applications which should include bandwidth consumption for top hosts and trends on network bandwidth utilization.	
2	Solution should probe the network in a manner so that impact on network performance is minimal.	
3	Should support both in line and offline modes.	
4	The tool should have a system for interactive event identification and rule creation	
5	Devices / applications those do not support flows, the solution should be capable to generate its own flows for monitoring.	
6	Solution should have facility to assign risk and credibility rating to events.	
7	Solution should support traffic rate up to 1 Gbps	

Web Security Appliance

S. No.	Technical Specification	Minimum Requirements	Compliance (Y/N)
1	Appliance Requirement and Functionality	The solution should be a hardened Web Proxy, Caching, Web based Reputation filtering, URL filtering, Antivirus and Anti-malware appliance. All the functionalities	

		should be in a single appliance only.	
2	Hardware	Minimum of 1 * 6-core CPUs, 2.4 TB storage, RAID 10, 32 GB or more DRAM, hot-swappable hard drive	
3	Operating System	The appliance based Solution should be provided with hardened Operating System.	
4	Operating System Performance	The underlying operating system and hardware should be capable of supporting atleast 2000 users from day with licenses & scalable upto 5000 users.	
5	Operating System Security	The operating system should be secure from vulnerabilities and hardened for web proxy and caching functionality.	
6	Forward proxy mode	The solution should support explicit forward proxy mode deployment in which client applications like browsers are pointed towards the proxy for web traffic.	
7	Transparent mode	The solution should also support transparent mode deployment using WCCP v2 and L4 switches/PBR (Policy-based Routing)	
8	Pac File support	The appliance should support hosting proxy auto-config files that defines how web browsers can automatically choose the appropriate web proxy for fetching a URL.	
9	Support multiple deployment options	The solution should allow to deploy the appliance in explicit proxy as well as transparent mode together.	
10	Proxy Chaining	The solution should support proxy configuration in a Chain. The Lower end proxies at spoke locations should be able to forward the request to an Higher end proxies at Hub Location forming a Chain of Proxies	
11	DNS Splitting	The solution should support configuration to use Split DNS. It should be able to refer to different DNS for Different Domains e.g. (root dns for all external domains and internal DNS for organization domain	
12	IP Spoofing support in transparent mode deployments	The solution should have facility to do IP spoofing. When enabled, requests originating from a client should retain the client's source address and appear to originate from the client instead of the appliance. This is useful in scenarios where policies are based on original IP and logging/reporting is required to track activity of individual IP basis.	

13	High Availability	Provision of active/active High Availability is required	
14	Proxy support	The proposed solution should be a Fast Web Proxy and should support HTTP, FTP and HTTPS proxy.	
15	HTTPS Decryption	The solution should support HTTPS decryption	
16	HTTPS decrypted traffic scanning	The solution should support scanning of the https decrypted traffic by the on-board anti-malware and/or anti-virus engines.	
17	HTTPS decryption policy	HTTPS decryption should provide flexibility to have multiple decryption policies and should not be just a Global action	
18	File download and size restrictions	The solution should be capable of blocking specific files downloads and based on size and per user group basis. It should also provide option to block object using MIME File types.	
19	IP based Access Control	The solution should allow administrator to define access to internet based on IP addresses, range of IP addresses, subnet and CIDR basis. It should also support to be forced for Authentication from Specific IP addresses, Subnet or CIDR's	
20	User based Access Control	The solution should support integration with active directory and/or LDAP. This should allow administrator to define user or group based access policies to Internet	
21	Multiple Authentication Server Support	The solution should support Multiple Auth Servers / Auth Failover using Multi Scheme Auth (NTLM and LDAP). It should also support authentication exemption.	
22	Application and Protocol Control	The solution should support granular application control over web eg. Facebook controls like block file upload, block posting text, enforcing bandwidth limits on application types.	
23	Layer 4 Traffic Monitoring	Should detect Phone Home attempts occurring from the entire Network. It should support actions to allow traffic to & from known allowed & unlisted addresses & block traffic to & from known malware addresses & should support monitoring suspected malware addresses.	
24	Bandwidth restrictions	The solution should support providing bandwidth limit/cap for streaming media application traffic. This should be possible at the Global level as well as at a per policy level.	

25	Anti Malware	The appliance should support at least 2 industry known Anti Malware/Anti Virus engine that can scan HTTP, HTTPS and FTP traffic for web based threats, that can range from adware, browser hijackers, phishing and pharming attacks to more malicious threats such as rootkits, Trojans, worms, system monitors and Keyloggers and as defined by the organizations policy. Please mention the antimalware engine.	
26	Anti-Malware	With dual AV/Anti-Malware engine scanning when a URL causes different verdicts from the scanning engine the appliance should perform the most restrictive action.	
27	Web Reputation	The solution should provide Web Reputation Filters that examine every request made by the browser (from	
28		the initial HTML request to all subsequent data requests) – including live data, which may be fed from different domains to assign a web based score to determine the likelihood that it contains url-based malware.	
29	Customizable Web Reputation	The Appliance should have customizable setting in the Web Based Reputation Services, like Allow, Scan and Block based on the scoring settings by the Administrator.	
30	Incoming/Outgoing Traffic scanning	The solution should scan for Incoming and outgoing traffic.	
31	Outbound connection control on all ports and protocols	The solution shall provide option to scan all ports at wire speed, detecting and blocking spyware activity trying to connect to the outside Internet. By tracking all 65,535 network ports and all protocols, the solution shall effectively mitigate malware that attempts to bypass Port 80	
32	Custom URL filtering	The solution should support creation of custom URL categories for allowing/blocking specific destinations as required by the Organisation.	
33	Url Filtering Options	The web Proxy should support following actions like allow, monitor, block, time-based access. Should also support displaying a warning page but allows the user to continue clicking a hypertext link in the warning page.	
34	Dynamic Categorization	Provision should be available to enable Real Time Dynamic categorization that shall classify in real time in case the URL the user is visiting is not already under	

		the pre-defined or custom categories database.	
35	Reporting Mis-categorization	The solution should have facility for End User to report Mis-categorisation in URL Category.	
36	URL check & submission	Support portal should give facility to end user to check URL category and submit new URL for categorization	
37	Filtering Content	Solution should support filtering adult content from web searches & websites on search engines like google.	
38			
39	Signature based application control	The solution should support signature based application control.	
40			
41	End User Notification	Solution should support following end user notification functionalities.	
42		The proxy should support the functionality to display a custom message to the end user to specify the reason the web request is blocked.	
43		When the website is blocked due to suspected malware or URL-Filters it should allow the end user to report that the webpage has been wrongly misclassified.	
44		The solution should support the functionality of redirecting all notification pages to a custom URL to display a different block page for different reasons.	
45		Should support the functionality to force users to explicitly agree to the terms and conditions for browsing the World Wide Web from the organization's network to let the user know that the Organisation is monitoring their web activity.	
46	Remote support	The remote support from principal company should be available via India Toll Free and Email. The Support Portal access should be provided for Case management, knowledgebase, new version information, tools etc.	
47	Secure Remote Access	The Support Engineers should be able to login to appliance using secure tunneling methods such as SSH for troubleshooting purposes	
48	Diagnostic Tools	The appliance should have diagnostic network utilities like telnet, traceroute, nslookup and tcpdump/packet capture.	
49	Updates and Upgrades	The appliance should provide seamless version upgrades and updates.	

50	Secure Web Based management	The appliance should be manageable via HTTP or HTTPS	
51	CLI based management	The appliance should be manageable via command line using SSH	
52	Serial Console access	For emergency, the appliance should have serial console access	
53	Ethernet Management	Should have provision for separate Ethernet for managing the appliance	
54	Web Logs	The Proxy Log should be scalable. The log formats shall include Apache, Squid and W3C.	
55	Retention Period	The retention period should be customizable. Options should be provided to transfer the logs to an FTP server using FTP or SCP.	
56	User Reports	Informative and exhaustive set of reports on User Activity and URL filtering activities (GUI to report past activity, top usage users and top malware threat)	
57	Bandwidth Reports	Reports on Bandwidth Consumed / Bandwidth Saved	
58	Detailed logging	Product to maintain detailed proxy access logs that can be searched via filters, for easy location of any desired access of the user and to see how the product dealt with it	
59	Blocked by reputation & malware reports	It should support reporting web requests blocked due to web reputation & blocked by malware	
60	Report Formats	Solution should support generating a printer-friendly formatted pdf version of any of the report pages. Should also support exporting reports as CSV files.	
61	Scheduling of Reports	Solution should support to schedule reports to run on a daily, weekly, or monthly basis.	
62	System Reports	Should support system reports to show CPU usage, RAM usage, percentage of disk space used for reporting & logging.	
63	Updates and Upgrades	Support should cover all upgrades for the time period the licenses and support purchased from principal vendor	
64	IP V6 Support	Should have the ability to proxy, monitor, and manage IPv6 traffic.	

IPS

S.No	Specifications	Compliance (Yes/No)
1	Advanced Threat Protection	

1.1	The proposed solution must be based on standard computer technology (not ASICs) so that future enhancements and protocols do not require hardware refresh to support. The proposed solution platforms must be based on a hardened operating system.	
1.2	The detection engine must be capable of operating in both passive (i.e., monitoring) and inline (i.e., blocking) modes.	
1.4	Detection rules must be based on an extensible, open language that enables users to create their own rules, as well as to customize any vendor-provided rules.	
1.5	The detection engine must be capable of detecting and preventing a wide variety of threats (e.g., malware, network probes/reconnaissance, VoIP attacks, buffer overflows, P2P attacks, zero-day threats, etc.).	
1.6	The detection engine must incorporate multiple approaches for detecting threats, including at a minimum exploit-based signatures, vulnerability-based rules, protocol anomaly detection, and behavioral anomaly detection techniques. Identify and explain each type of detection mechanism supported.	
1.7	The detection engine must inspect not only Network Layer details and information resident in packet headers, but a broad range of protocols across all layers of the computing stack and packet payloads as well.	
1.8	Sensors must be capable of performing packet-level forensics and capturing raw packet data in response to individual events without significant performance degradation.	
1.9	The solution must be capable of detecting and blocking IPv6 attacks.	
2	Advanced Malware Protection	
2.1	The solution must be capable of providing network-based detection of malware by checking the disposition of known files in the cloud/on premises using the SHA-256 file-hash as they transit the network (SHA-256 and target IP address should be given to aid remediation efforts).	
2.2	The solution must provide full contextual awareness (user, application & content) with respect to malware detection, propagation and retrospective remediation	
2.3	The solution must be able to track APTs that involve multiple threat elements and associate malware child processes to their parents	
2.4	The solution must run in a stylized sandbox environment that can be used to identify the unknown malwares.	
3	Application visibility and URL Filtering	
3.1	Should support Application Visibility and Control (AVC) supports more than 10000 application-layer and risk-based controls that can invoke tailored intrusion prevention system (IPS) threat detection policies to optimize security effectiveness.	
3.2	Proposed appliance should also provide Reputation- and category-based URL filtering offers comprehensive alerting and control over suspect web traffic and enforces policies on hundreds of millions of URLs in more than 50 categories	
4	Real-Time Contextual Awareness	

4.1	The solution must be capable of passively gathering information about network hosts and their activities, such as operating system, services, open ports, client applications, and vulnerabilities, to assist with multiple activities, such as intrusion event data correlation, elimination of false positives, and policy compliance.	
5	Intelligent Security Automation	
5.1	The solution must be capable of employing an extensive set of contextual information (e.g., pertaining to the composition, configuration, and behavior of the network and its hosts) to improve the efficiency and accuracy of both manual and automatic analysis of detected events.	
5.2	The solution must be capable of dynamically tuning IDS/IPS sensors (e.g., selecting rules, configuring policies, updating policies, etc.) with minimal human intervention.	
5.3	The solution must be capable of automatically providing the appropriate inspections and protections for traffic sent over non-standard communications ports.	
6	Control Compliance	
6.1	The solution must support creation of user-defined application protocol detectors.	
6.2	The solution must have content awareness with comprehensive file detection policies and blocking of files by types, protocols and directions.	
6.3	- Protocols: HTTP, SMTP, IMAP, POP	
6.4	- Direction: Upload, Download, Both	
6.5	- File Types: Office Documents, Archive, Multimedia, Executable, PDF, Encoded, Graphics, and System Files.	
7	Reporting and Alerting	
7.1	The management platform must provide robust reporting capabilities, including a selection of pre-defined reports and the ability for complete customization and generation of new reports.	
	Availability	
9.1	Sensors must support built-in capability of failing open, such that communications traffic is still allowed to pass if the inline sensor goes down.	
8	Performance	
8.1	Should have minimum Inspected throughput of 10 gbps for all kinds of real word traffic, this is minimum performance required though the required throughput need to be sized by bidder as per their solution.	
8.2	Should support minimum 3,500,000 Concurrent Connections and atleast 180,000 new connections per second	
8.3	Should have minimum 8 monitoring interface of 4x 1 Gbps Copper + 4 x 10G SR	
8.4	Latency should be < 150 microseconds.	
8.6	Must have dedicated 10/100/1000 RJ45 Management Interface.	

Network Management System for LAN Switches

S.No.	Network Management System for LAN Switches	Compliance (Yes/ No)
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1	Management system should provide a single integrated solution for comprehensive lifecycle management of the wired and wireless LAN (of same OEM), and should support rich visibility into end-user connectivity and application performance assurance issues	
2	The NMS should support an open database schema, configuration, administration, monitoring and troubleshooting of Switches, guided workflows based on best practices with built-in configuration templates, the capability to view the network topology, Layer 2 Services and Fault Management	
3	The NMS should automatically discover IP devices, SNMP compliant network devices on the network	
4	The NMS should support Inventory management of Network devices, should support Monitoring and troubleshooting of Devices, should support configuration management and reporting.	
5	The NMS should support flexible reporting for inventory, user tracking, compliance, switch port usage and end-of-sale	
6	The NMS should provided on dedicated appliance/ installed as a virtual appliance/ Intel based servers/ AMD based server and should support installation on Windows/ Linux	
7	Support for Wireless Management Features (Same functionality can be provided via separate Wireless management system but same should be able to integrate with Wired Management system to implement unified policies)	
8	Must show location information of clients, infrastructure Access Points, Rogue Access Points, and RF tags in a map format.	
9	Must support following features	
10	· Wireless LAN Planning and Design, Network Monitoring and Troubleshooting, Indoor location monitoring capability, Wireless IPS management, Centralized Software updates, Network mapping with floor plans for easier automated site survey	
11	· Shall provide in-depth visibility of finding, classifying, correlating, and mitigating interference from Wi-Fi and non-Wi-Fi sources such as rogue access points, microwave ovens, Bluetooth devices, and cordless phones.	
12	· Should provide deep integration with the authentication; authorization, posture & Profiler to further extend the visibility across security and policy-related problems, presenting a complete view of client issues with a clear path to solving them.	
13	· Must support virtualization, whereby wireless resources (APs, controllers, geographical areas) can be divided into logical domains and administrator access limited to specific domains.	
14	NMS has to be from the same OEM as of Switches	

Collaboration and Virtual Education Solution - Technical Specifications

Functional requirement

1. NDMC desires set up Smart Schools with Interactive Digital Classrooms.
2. Objective is to set up a centralized studio (1 or 2) from where expert teachers can deliver two-way fully audio-video interactive lectures / sessions to remote schools.
3. Students at remote schools will be able to see presenting teacher and whatever the teacher write on the interactive smart board. Students at remote schools can ask questions any time during the session or at the end of session, since it is two way fully interactive session.
4. Lectures delivered will be recorded and stored in a repository. These lectures can later be delivered to schools as Video on Demand.
5. Live sessions also can be streamed, while it is being presented; to schools which may not have infrastructure for two-way interactive class.
6. Bridging, recording, streaming infrastructure will be at central location so that it can be easily managed.

Following is the high-level functional requirement and high-level suggested architecture at Studio-side, Teacher Side and Classroom Side requirement::

Set up at the Central Studio - Teacher Room

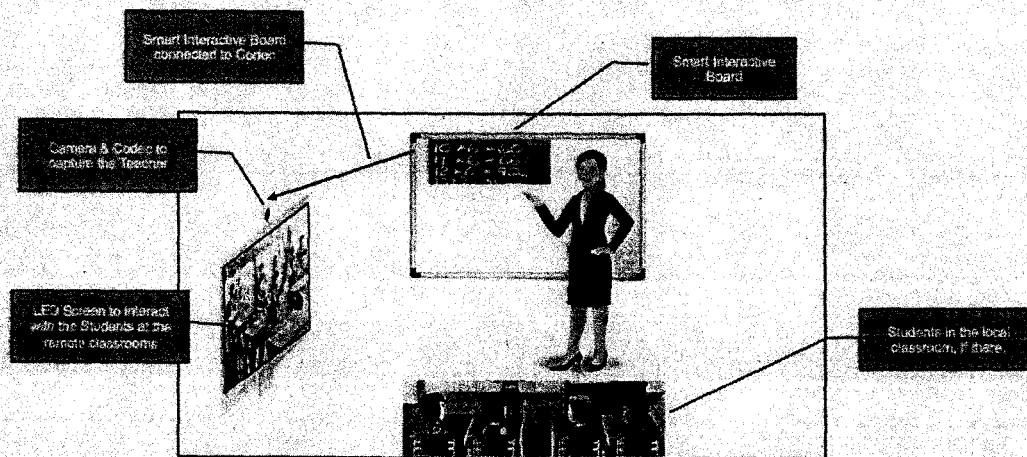


Figure: High Level Suggested topology for Central Studio/ Common Teacher Room

Solution Architecture

Teacher side set up

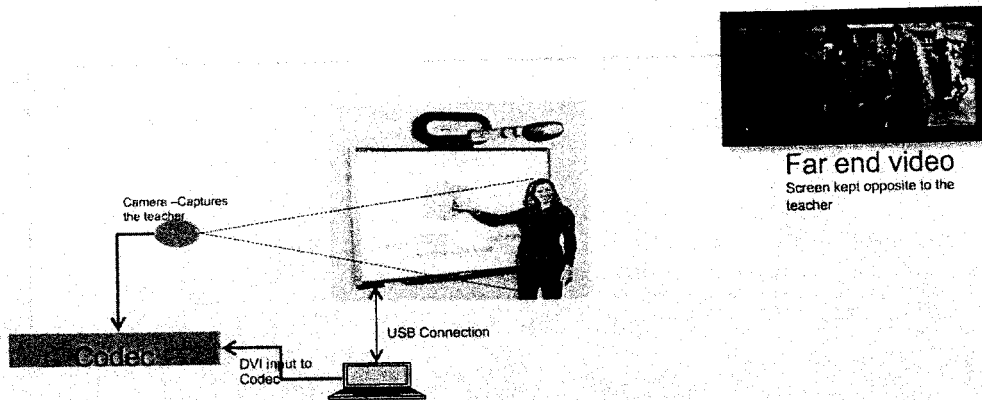
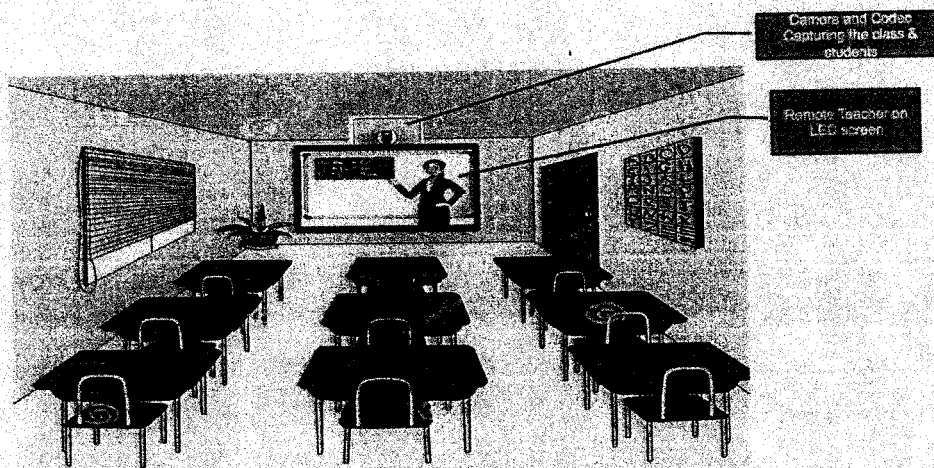


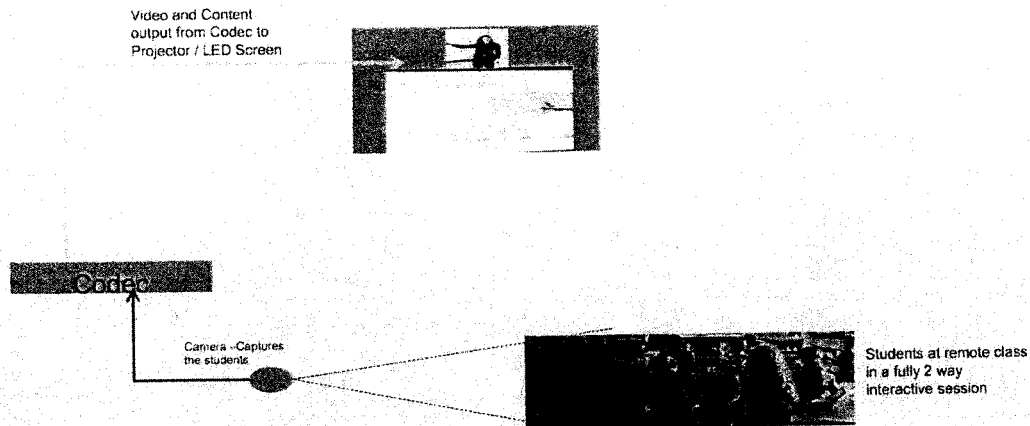
Figure: High Level Suggested topology for Live Remote Education set-up

Set up at the Remote Classroom



Solution Architecture

Remote Classroom side set up



Live / Recorded / Video On Demand Streaming at remote Classes

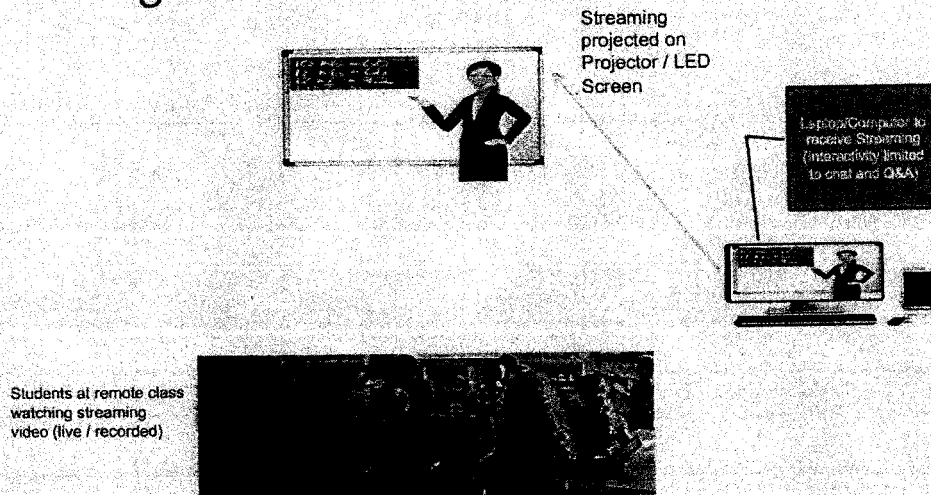


Figure: High Level Suggested topology for Remote Classroom

Personal Videoconferencing end point for NDMC:

MINIMUM TECHNICAL SPECIFICATIONS

Complied
Yes/ No

Size and Form Factor	<p>The solution should be an OEM integrated executive video system with a minimum 21" display or higher with inbuilt codec, inbuilt integrated camera , inbuilt Microphones and speakers. All the components 21" display , codec, camera, microphones should be from the same OEM. The codec should be tightly integrated with the 21" screen, so that less space is occupied on the Executive's table. The system should also function as a PC Monitor.</p> <p>The OEM website should have information of the quoted product along with the brochure.</p>
Protocols	Interoperability with SIP and H.323 systems.
Video Standards	H.264 or better
Video and content Frame Rate	1080p
Video Features	Ability to send and receive two live simultaneous video sources in a single call.
Data Sharing	The system should support resolutions up to 1080p in main video stream and High definition HD while sharing presentation.
Video input	Should have HD input to connect PC/ Laptop directly to the Video conferencing system
Video resolutions	720p (1280 x 720 pixels) 1080p (1920x1080 pixels)
Audio standards supported	G.722,G.711, MPEG 4 AACD or equivalent
Other Desirable features	Noise Reduction, Automatic Gain control
Network Interfaces	2 x LAN /Ethernet--10/100/1000Mbps
Bandwidth	Bandwidth upto 2 Mbps
Network Capabilities	Must support Standard based Packet loss recovery algorithm to handle packet loss.
IP Features	Quality of Service
	Dial In and Dial out Mode should be supported

Meeting Room Based Video conferencing Solution

Features	Specifications	Complied (Yes/No)
Form Factor	The solution should be an OEM integrated system with a single 55" LCD display, codec, camera, Microphones and touch panel. All the components 55" LCD display with floor mounting kit, codec, camera, microphones, and touch panel should be from the same OEM. The OEM website should have information of the quoted product along with the brochures H.263, H.264	
Video Standards	H.264 should be possible when sending or receiving two live video sources e.g. Presenter and Presentation.	
Video Frame Rate Video Features	Should support 60 fps with 1080p resolution from day one Ability to send and receive two live simultaneous video sources in a single call, so that the image from the main camera and PC can be seen simultaneously. Should support H.239 and BFCP protocols with High definition resolution for presentations	
Video Output	The system should be an OEM integrated solution with a single 55" LCD Monitor	
Video Input (2 HD Video Inputs)	Should have at least one HD video Input to connect HD camera with full functionalities as mentioned in the camera specifications below. Should have DVI (Digital Video Interface)/HDMI input to connect PC / Laptop directly to the Video conferencing system and display resolutions WXGA / HD720p along with PC Audio.	
Audio standards supported Other Desirable features Audio Interfaces	G.711, G.722, G.722.1, 64 kbps MPEG-4 AAC-LD or equivalent standard must be supported.. Noise Reduction, Automatic Gain control, Acoustic Echo Cancellor The system should have 2 table top microphones day one. The microphones must be standard based microphones. The pickup of the microphones should be at least 10 feet from the microphone.	

Network
Interfaces
Bandwidth
Network
Capabilities
H.323/ IP
Features

Echo Cancellation for every input must be available.

The system should have integrated speakers as part of the display
1 LAN / Ethernet - 10/100/1000 Mbps full duplex

IP bandwidth upto 4Mbps

Packet Loss Based Down-speeding

Differentiated Services(QOS):

Auto Gatekeeper discovery

Auto Network Address

Translation(NAT) support

Standards based- Packet Loss

Recovery feature on H.323 call

Should support URL Dialing

The endpoints must support SIP in addition to H323 protocol

SIP
Features
Security
Menu
Control
Encryption
of video
call

Password protected system menu

ITU-T standards based Encryption of the video call

Call should be encrypted end-to-end on IP

Should support Standards-based:

H.235 and AES Encryption via Automatic key generation and exchange.

Ability to manually turn encryption On or OFF should be there.

Automatic key generation and exchange

Camera

CMOS or equivalent

Minimum of 8x or more zoom

1920 x 1080 pixels progressive @ 60fps

Should have at least 65 degrees field of view (horizontal)

Directory
services

Should support Local and Global directories.

Should support LDAP and H.350 protocols for directory transfer.

Personal Videoconferencing end point for Principals of NDMC schools:

MINIMUM TECHNICAL SPECIFICATIONS

**Complied
Yes/ No**

Size and Form
Factor

The solution should be an OEM integrated executive video system with a minimum 13" display or higher with inbuilt codec, inbuilt integrated camera , inbuilt Microphones and speakers. All the components 13" display , codec, camera, microphones should be from the same OEM. The codec should be tightly integrated with the 13" screen, so that less space is occupied on the Executive's table. The system should also function as a

PC Monitor.

The OEM website should have information of the quoted product along with the brochure.

Protocols	Interoperability with SIP and H.323 systems.
Video Standards	H.264 or better
Video and content Frame Rate	1080p
Video Features	Ability to send and receive two live simultaneous video sources in a single call.
Data Sharing	The system should support resolutions up to 1080p in main video stream and High definition HD while sharing presentation.
Video input	Should have HD input to connect PC/ Laptop directly to the Video conferencing system
Video resolutions	720p (1280 x 720 pixels) 1080p (1920x1080 pixels)
Audio standards supported	G.722,G.711, MPEG 4 AACD or equivalent
Other Desirable features	Noise Reduction, Automatic Gain control
Network Interfaces	2 x LAN /Ethernet--10/100/1000Mbps
Bandwidth	Bandwidth upto 2 Mbps
Network Capabilities	Must support Standard based Packet loss recovery algorithm to handle packet loss.
IP Features	Quality of Service Dial In and Dial out Mode should be supported
Menu Control	Password protected system menu
Encryption	AES' / SRTP based encryption of calls.
Audio Privacy:	The system should have a provision for a headset and handset for private audio conversations.
Video Privacy:	The system should have a privacy shutter to turn off the Video as and when required
Camera	1080P integrated camera The camera should function as a document camera.
Integrated Audio System	Integrated stereo speakers and microphones into the system
Directory services	Should support Local and Global directories

Smart Class VC End Point - Video conference solution for classrooms

VC Endpoint in Remote Schools Locations

Conferencing device at School locations		
S.N.	Feature Description	(Yes / No)
1.	Video Standards	
	H.263, H.264	
	Should support 30 fps & 60fps (frames per second) with 1080p resolution from day one	
2.	Video Features	

	Ability to send and receive two live simultaneous video sources in a single call, so that the image from the main camera and PC or document camera can be seen simultaneously.	
	Should support H.239 and BFCP protocols with 1080p resolution	
3.	Video Input and Output	
	Should have at least 2 HDMI / DVI (High Definition Multimedia Interface) output to connect Full High Definition display devices such as LCD / LED and projectors for both Video and Content. (Dual Monitor Support)	
	It should be possible to display the main video on one HD screen and the presentation / dual video on the other HD screen.	
	Should have at least one HD video Input to connect HD camera with full functionalities as mentioned in the camera specifications.	
	Should have DVI (Digital Video Interface) input to connect PC / Laptop directly to the Video conferencing system and display resolutions WXGA / HD720p along with PC Audio.	
4.	Audio	
	G.711, G.722, G.722.1, 64 kbps MPEG-4 AAC-LD or equivalent standards must be supported.	
	Should support minimum 2 Microphone inputs. 2 need to be supplied from day one.	
	The microphones must be standard based microphones.	
5.	Network Interfaces	
	Should have USB port for future usage.	
	1 LAN / Ethernet - 10/100/1000 Mbps	
	Should have support for IPV4 and IPV6	
	IP - at least 6 Mbps	
	Packet Loss Based Downspeeding	
6.	Security	
	Password protected system menu	
	ITU-T standards based Encryption of the video call	
	Call should be encrypted end-to-end on IP	
7.	Camera	
	1/3" CMOS or better	
	Minimum of 4X Optical zoom	
	1920 x 1080 pixels progressive @ 30fps	
	The Camera and codec should be from the same manufacturer.	
	Should have at least 70 degrees field of view (horizontal)	

LED TV / Display		
S.N.	Feature Description	(Yes / No)
1.	65 inches LED TV with minimum 2 HDMI inputs	
2.	Make: Sony / Samsung / LG / Panasonic	
3.	The model quoted should be latest model with minimum 1080p full HD capability	

Laptop / Desktop at School		
S.N.	Feature Description	(Yes / No)
1.	NDMC will provide the same	

Centralized Video Portal with Centralized distribution engine

S.N.	Feature Description	(Yes / No)
1.	<p>System Architecture</p> <p>Should have active-active High Availability</p> <p>Solution should support load balancing between redundant servers and set failover paths</p> <p>Should support virtualization based servers and provide for dynamic resource allocation of hardware</p> <p>Should support auto retry by client in case of connection failure or interruption in the flow of video stream</p> <p>Should support multi-tenancy</p> <p>Integrated encoder support</p> <p>Should support user defined branding / skinning to provide customer environment look</p> <p>Should support 40 classrooms to start and capable of expanding to 500 classrooms in future by just adding required licenses</p> <p>Should provide native integration to Active Directory environment for security and user authentication</p> <p>Should support allocation / Access rights of media to selective AD Users & Groups. This ensures that only content pertinent to a specific AD user/Group is viewable</p> <p>Portal should allow authorized users to both upload and view content via an intuitive and device agnostic browser based flexible UI</p> <p>Should have the capability of configuring and managing the components like Remote Distribution servers for directing the users to local server for bandwidth optimization</p> <p>All video content shall be managed and delivered via the Video Portal application, including:</p> <p>Existing video media archives, with ability to upload and transcode in batches</p> <p>Live Webcasts and subsequent recordings</p> <p>New VOD video media uploaded from various sources, including encoders, mobile, tablet & desktop devices and 3rd party sources</p> <p>Professional cameras / IP Camera / Video Conferencing feeds if required</p> <p>Integration with the proposed recording servers, Video conferencing ends and MCU's</p> <p>Solution should support segregating User access depending on department or organization or role. Users will be members of a corresponding group and specifically have access only to a collection containing content for that group</p> <p>One user can be part of multiple groups and should be able to view and publish the videos to all its member groups</p> <p>User should be able to define the content as public or private. Public content shall be viewable to everyone, where as Private content should be viewable to only designated groups or users</p> <p>Should support all the major browsers like Internet Explorer, Firefox, Chrome and Safari</p> <p>Should have inbuilt transcoding functionality and system should do the transcoding as per the device profile (like Web, mobile)</p> <p>Should support embedding of the video content on a web page by taking the embed code and inserting content into another site or web page</p> <p>Integrated video and webcast recording</p> <p>PLAYBACK and STREAMING: Should have inbuilt media player and streaming server for VoD playback and live streaming</p> <p>Playback should happen on the portal page only. Application should not ask for opening any specific media / video player</p>	

Inbuilt player should support the following

Full Screen viewing

Slider functionality for forward, rewind of video

Sound level adjustment

Pause / Resume

Duration

Flexible architecture that allows dynamic addition of compute resources and customizable services running on the various different servers (Authentication, Transcoding, Web services, etc.)

2. **Content Management**

User should be able to publish content from Desktop/Laptop, Mobile Device or External hardware encoders. This should be for both VoD and Live Streaming

Allow users to upload a pre-recorded content and define access to specific groups or public channels

Should support ingest of live video from Video conferencing devices over H.264/SIP

Should support various formats of pre-recorded video content (Wmv, avi, mp4, mpg, mov, mpeg, FLV etc) to be uploaded to the portal. If system stores the content in one type of format only (say mp4), then format conversion should be done the system automatically, without any additional work to user

The solution should include recording server to enable the video systems reach the wider audience by streaming or recording content of a videoconference

Should support Create, update, delete a video by user

Allow user to edit the thumbnails of the video

Should have control functionality for downloading of content by the users

There should be option to enable approval of content prior to publication

Administrator should be able to override the workflow to publish or remove content on ad-hoc basis

3. **Integration**

Integration support via open APIs

Should integrate with LDAP/AD for user authentication, SSO and user group access

Should provide for APIs to integrate with 3rd party frontend to video solution for content uploading, managing/editing, deleting, viewing, searching etc

Should allow user to share the video by sending link to video by email/chat to others

Should support modern web technologies like web sockets/ CSS3/ HTML5 etc

Users should be able to rate the video content (on a scale of 1-5 or equivalent)

Allow users to comment on the video

4. **Administration & Monitoring**

Should provide for GUI based setup and management engine

Should provide for User Management (Add, Edit, Access rights etc..), Video Management (Add, Edit, Delete, Highlight, Expire etc..)

Should provide for system alerts (via monitoring module or SNMP traps to Central NMS)

Single pane of glass to administer Portal and content distribution (configure IP ranges and distribution rules from portal interface)

5. **User Access**

Each user should have their own home page if required. User shall be able to upload videos and share with others using options on home page
Home page shall have clearly defined preferences / settings tab to enable user to administer their preferences, edit content etc
Access to self portal should be via browser to enable cross device support (like responsive UI, video type support across Mac, Windows, Mobile devices)

Home page should display contents of all the groups/channels the user have access to, with clear separation of each channel content

User access should be based on LDAP/AD

User should be able to search content based on various parameters like:- Name, Upload Date range, Group, Topic etc

6. Storage, Archiving & Security

System should have robust backup functionality for content/videos, user profiles, stats, preferences and customizations

Provide ability to bring back the system in minimal time in case of any exigency

Should support SAN/NAS for content storage

Should support encryption (min AES-128 bit) with integrated key management

Should have automated process of data achieving as per the defined parameters

7. Reporting, Monitoring & Analytics

Should provide detailed reports based on users, groups/channels and site basis

There should be standard reporting templates available in the system, with the option to customize the reports as per the need

Should provide real-time system health analytics

Administrator should be able to define thresholds for various critical events, and system should alert once the thresholds are breached

High end Interactive Conferencing Device at Central Location

High end Interactive Conferencing Device with 2 Cameras - 1 No. at Central Location		
S.N.	Specifications	(Yes / No)
1.	Video Standards	
	H.263, H.264	
	H.264 in an Encrypted call should be possible	
	H.264 should be possible when sending or receiving two live video sources e.g. Presenter and Presentation.	
	Should support 30 fps & 60fps (frames per second) with 1080p resolution from day one	
2.	Video Features	
	Ability to send and receive two live simultaneous video sources in a single call, so that the image from the main camera and PC or document camera can be seen simultaneously.	
3.	Video Output	
	Should have at least 3 nos. of HD (High Definition) output to connect Full High Definition display devices such as plasma and projectors for both Video and content.	
	The unit must provide the flexibility to display video or content one any of the video output.	

4.	Video Input	
	Should have at least 3 HDMI inputs to connect multiple HD cameras.	
	Should have one HDMI / DVI (Digital Video Interface) input to connect PC / Laptop directly to the Video conferencing system and display resolutions from WXGA (1280 x 768) to 1080p (1920 x 1080)	
5.	Audio standards supported	
	G.711, G.722, G.722.1, 64 kbps MPEG-4 AAC-LD or equivalent standards must be supported.	
6.	Audio Inputs	
	Should support minimum 8 Microphone inputs.	
	The system must have the capability to mix the audio from all the microphones and the line input and send the same to the far end side.	
7.	Network Interfaces	
	1 LAN / Ethernet - 10/100/1000 Mbps full duplex	
	Should have support for IPV4 and IPV6	
8.	Bandwidth	
	IP - at least 6 Mbps	
9.	SIP Features	
	The endpoints must support SIP in addition to H323 protocol. Calls can be made on SIP or H323 without having to restart or reconfigure the endpoint.	
	The endpoint must register with any standard SIP server.	
10.	Security	
	Password protected system menu	
	ITU-T standards based Encryption of the video call	
	Call should be encrypted end-to-end on IP	
	Should support Standards-based: H.235 v3 and AES Encryption via Automatic key generation and exchange. The same should be available in a call with Video with presentation (dual video)	
11.	Cameras	
	1/3" CMOS or better, 2 cameras to be given from day one.	
	Minimum of 10X Optical zoom	
	1920 x 1080 pixels progressive @ 60fps	
	The Camera and codec should be from the same manufacturer.	
	Should have at least 70 degrees field of view (horizontal)	

LED TV / Display

S.N.	Feature Description	(Yes / No)
1.	65 inches LED TV with minimum 2 HDMI inputs	
2.	Make: Sony / Samsung / LG / Panasonic	
3.	The model quoted should be latest model with minimum 1080p full HD capability	

Audio Video Bridging Unit at Central Location

S.N.	Feature Description	(Yes / No)
1.	System Capacity	
	Conferencing System should have minimum 40 ports at 1080p 60fps on IP in continuous presence mode with 60fps and H.264 resolution and AES encryption.	
	It should as well provide network flexibility for a reliable distributed architecture and cost-effective scalability for future requirements.	
	Conferencing System should be deployed in High Availability and should be redundant (1:1)	
	It should have internal inbuilt hot swappable redundant power supply.	
	It should provide flexibility to the schools, where they can join the online fully two-way interactive live session using WebRTC compatible browser. This facility should be available from day one.	
	It should be possible for 20 schools to join with WebRTC compatible browser, where following features should be available.	
	1080p, 720p & SD should be supported over WebRTC	
	Users should be able to connect at 250kbps (lowest bandwidth) over video using WebRTC	
	Support content sharing, desktop sharing & application sharing, XMPP registration	
	Should support audio protocol OPUS and video protocol VP8 over WebRTC	
	Should be able to add participants to the call through the WebRTC	
	Video Call connected on browser, should be easily moved to the external VC endpoint	
2.	Video Standards and Resolutions	
	It should support H.263, H.264, WebRTC	
	It should support 1080p 60fps, 30 fps, 720p 30 and 60 fps.	
3.	Content Standards and Resolutions	
	Content sharing should be possible at 1080p 30fps	
	It should support H.239 and encryption in SIP & H.323 modes	
4.	Audio Standards and Features	
	It should support G.711, G.722, G.722.1	
	It shall support aspect ratio of 16:9 and 4:3.	
	It shall support a mix of resolutions in both Voice activated mode and Continuous Presence. Each endpoint shall receive at the maximum of its capacity without reducing the capacity of another.	
	Dynamic CP layout adjustment (it will choose the best video layout according to the number of participants in the conference).	
	It should support distributed architecture with intelligent and automatic call routing. It must support load balancing such that in case there are two instances, conference participants can get distributed across these two instances based on their locations and still join into the same conference.	
5.	Network and security features	
	It shall support AES encryption 128 bit or above for every participant without affecting any other feature, functionality or port count.	
6.	Interoperability	

	Bridging infrastructure should be standards based and should be compatible with other open standards H.264 AVC based solutions.	
	General: OEM of the bridging Unit, Conferencing device, management, scheduling must be in leaders' quadrant of latest Gartner Magic Quadrant report for Group video systems.	

Management & Scheduling at Central Studio Location

S.N.	Feature Description	(Yes / No)
1.	System The central management solution should be able to schedule meeting quickly and easily manage conference infrastructure device configuration and provision of endpoint.	
2.	System Capacity The Central management server must support 100 devices capacity from day one and must be scalable to support minimum 250 devices in future through software license.	
3.	Provisioning The administration should be able to configure individual end points or group of end points using user policy from single management console. It should be possible for the endpoint to automatically pull the device and site provisioning information from the system while start up.	
4.	Software Update It should be capable of automatic and scheduled mechanism to upgrade the software on one or more endpoints with a standard software package thereby eliminating the need to upgrade each endpoint individually.	
5.	Scheduling The system should support schedule video conference meetings.	
6.	Directory Services Should support integration with the corporate Active Directory for scheduling the video conference calls. The system should store video dialing information.	

Recording Platform

S.N.	Feature Description	(Yes / No)
1.	<p>The recording solution must be standards based. The solution server should be from the same OEM.</p> <p>Application Features</p> <p>Records single point and multipoint conferences with full H.239 and BFCP content capture</p> <p>High definition (HD) support with 720p or better H.264 video</p> <p>API support for third party integrations</p> <p>H.323 or equivalent standards-based for use with third party conferencing systems</p> <p>Integrates with MCU for simple recording of multipoint video conferencing</p>	
2.	<p>Audio / Video Support</p> <p>Live Video Resolutions: C(S)IF, 4CIF, SD, 720p HD or better</p> <p>Video Support: H.261/ H.263/H.263+/H.263++/ H.264</p> <p>Audio support: G.711 / G.722 /G.722.1 or better</p>	
3.	<p>Recording</p> <p>Should support minimum 5 concurrent multi party HD720p video conferencing recording sessions with full video, audio and content.</p> <p>Records video at varying bit rates -128 Kbps to 2 Mbps</p> <p>System should support Multiple methods for recording – directfrom a Room based endpoint, Desktop endpoints, MCU / bridge or from the admin user interface</p> <p>All of the Media Library should be exportable a CD/DVD</p>	
4.	<p>Security</p> <p>AES media encryption</p> <p>TLS/SSL and HTTPS Support</p> <p>Should be "19" Rack mountable and Dual redundant power supply</p>	
5.	<p>Management</p> <p>A separated Web Interface for the Administration is required.</p> <p>The Administrator must be able to upgrade each server / appliance component using the WebUI</p> <p>The appliance has to be centralized configured and managed by theManagement System</p>	

DR Business Continuity Plan

As specified in the RFP, NDMC shall provide the location to house the compute and storage infrastructure, at the Data Center facility being built at the Smart City Operation Center building.

DR solution for all application to be provision on Cloud Service Provider. SI shall also make provision for the required connectivity between DC and DR.

Hosting charges for the same shall be borne by SI. Backup schedule shall be proposed by bidder to maintain business continuity. which shall be finalized in consultation with client at time of implementation.

Smart City Supplier service provider should procure, install, and/or manage all resources (for example, hardware, software, personnel) required to provide, host, manage, and maintain the services in accordance with the terms of this

Monthly Availability Performance Target

IoT service provider should use commercially reasonable efforts to ensure that the cloud services are of high availability excluding Scheduled Maintenance (as defined below).

Service	Expected Availability	Availability Objective
Customer-facing APIs and Applications	24 hours per day, 7 days per week	Highly Available

Scheduled Maintenance

IoT service provider should endeavor to carry out maintenance work that may affect the availability of the IoT Services. Scheduled Maintenance will conform to the following limitations:

Description of Maintenance	Target Notification Period
Standard Scheduled Maintenance	3 days, or more
Emergency and Critical Maintenance	1 hour, or more

Standard Scheduled Maintenance

Includes major platform, services, software, operations and infrastructure updates and changes that are planned in advance. IoT service provider should take reasonable steps to minimize negative impact to availability and services; however, it cannot guarantee all scheduled maintenance will be impact free.

Emergency and Critical Maintenance

Protecting the safety, security and privacy of Customer data. The availability of IoT service Platform, Services, Software, and extended network including Nodes and Sensors is a OEM top priority. We recognize our Customers and the greater Sensor Ecosystem deeply depend on our services.

As with other Cloud operators and in line with running in the cloud, incremental, minor, and rolling updates will be performed without a scheduled maintenance window when outages, negative impact to services, or availability issues are anticipated by OEM.

Training and Capacity Building

Selected Bidder shall be responsible for finalizing a detailed Training Plan for the program in consultation with Departments covering the training strategy, environment, training need analysis and role based training curriculum. Bidder shall own the overall Training plan working closely with the Departments Training team.

Training Delivery Approach

Selected bidder shall deliver training at 3 levels:

1. Operational Training
2. Sr. Management Training
3. Administration Training

Training scope will include delivery of initial training as part of system implementation as well as on-going training as part of regular capacity building

Training Course	Number of Batches	No Batch	Indicative Duration (Days)
Initial training as part of implementation			
Operational Training and IT Basics	5	5(Min 10 People)	4
Operational Training and IT Basics	5	1(Min 10 People)	4
On-going training (only for new operators)			
Operational Training and IT Basics	20	4(Min 10 People)	4
Operational Training and IT Basics	20	4(Min 10 People)	4
Senior Management Training and IT Basics (For Advanced Users)	20	10 (Min 5 People)	1

1. The purpose of this section is to define the scope of work for training and capacity building to be implemented at various levels namely:
 - a. NDMC's employees
 - b. Stakeholder departments
2. The SI's scope of work also includes preparing the necessary documentation and aids required for successful delivery of such trainings.
3. The details provided in this section are indicative and due to the complex nature of the project the number of training sessions may increase. Over and above the team considered for performing the training as detailed in subsequent sections,
4. Further the SI has to provide cost for additional and optional training sessions in its commercial proposal in case more training's are required. SI has to conduct such additional training sessions on NDMC's request.

5. SI will develop a training and capacity building strategy that will also include a detailed plan of implementation. SI should have comprehensive hands on system training strategy and schedule for users doing Operations.
6. SI will get the Training and capacity building strategy including training material finalized with NDMC before starting the training programs.
7. SI will prepare all the requisite audio/visual training aids that are required for successful completion of the training for all stakeholders. These include the following for all the stakeholders:
 - a. Training manuals for employees / stakeholder departments
 - b. Computer based training modules
 - c. Video (recorded sessions) for operations, back end modules, business intelligence, dynamic reporting
 - d. Presentations
 - e. User manuals
 - f. Operational and maintenance manuals for the software modules
 - g. Regular updates to the training aids prepared under this project
8. SI will maintain a copy of all the training material on the knowledge Portal and access will be provided to relevant stakeholders depending on their need and role.

Control Room & DC Site Preparation& Others

Workstation Console in CCC

General Requirements And Specifications For Console System

The following specifications detail the minimum requirements of the Console System. Bidders must respond on the enclosed chart. This allows for a point-by-point technical response stating compliance, taking exception or providing requested information. Bids submitted without this chart will be considered non-responsive.

Vendor shall supply the following to obtain project level approval

- a) Copy of ISO 9001:2008 Certification & ISO 14001:2004
- b) Copy of Green guard certifications for full console.
- c) Copy of FSC certification (Forest Stewardship Council) for Wood Components. Certificate for compliance towards sustainable forest initiative ensuring wood used is from sustainable forest harvesting.

The console(s) design shall be proven in service.

- 1) The consoles shall be of modular design, facilitating future equipment retrofits and full reconfigurations without major modification to structure or exterior elements.
- 2) The consoles shall have rigid independent frames.
- 3) Mechanical fasteners shall connect adjacent modules to maintain perfect alignment.

- 4) Depending upon the evolution of needs and technology, the construction shall provide easy and fast removal and installation of all equipment items.
- 5) The console frame shall have the sit stand actuator mechanisms incorporated into the structural frame and these actuator mechanisms will not be free standing on the floor.
- 6) The console frame shall have provisions for leveler legs to be incorporated into the frame. In addition, the frame will be pre designed to install optional anti-vibration dampers (upon request) or anchoring brackets for applications where vibration is a factor or for applications located in seismic zones.
- 7) The console frame structure shall have fully integrated cable management. The base structure will have a minimum of 2 lateral raceways; the transition from the base to the work surface will have a minimum of 2 vertical raceways; and the work surface will have a lateral raceway location depending on the size of equipment being mounted in the console.
- 8) The cable raceways shall be continuous throughout the entire console layout thus allowing uninterrupted cable management.
- 9) The console design shall be acoustically acceptable and minimize noise reflection.
- 10) Consoles shall be properly finished to prevent glare and reflection.
- 11) No sharp edges shall be present that may lead to injury to the operators.
- 12) The color of the console shall be such that users can work for a long duration without eye strain or other stress.
- 13) The console finish shall be resistant to rubbing and liquids, impact-proof and easy to clean.
- 14) The surface of the work area shall be non-scratchable
- 15) The work surface should be smooth and level and take into consideration all accepted human factor criteria, including view, reach distances, keyboard height and knee well space. The work surface height shall be adjustable.
- 16) Full console sit to stand height adjustment shall be available via an electric actuator. The top section of the console raises both the upper viewable equipment and the work surface together.
- 17) Detailed CAD (PDF format) drawings of console and equipment layouts for coordination of site measurements, architectural, mechanical, and electrical project elements for each console type will be provided.
- 18) All Board Cladding (Laminates) must be 1MM & the Laminate supplier must be Green Guard Certified, Certificates of which must be provided on request
- 19) Renderings of consoles and room must be provided on request...
- 20) Pre-production review, to include a drawing submittal and component listing complete with samples of selected finish materials must be provided on request...
- 21) Samples of the following material components, which demonstrate workmanship, shall be provided upon request:
 - a. Work surface sample.
 - b. Sample panel construction and finish materials.

Modular Control Desk

Bidder should refer the control desk design for any clarification of items.

Structure

- a) Console System must be of modular design. The Console design shall address the functional, ergonomic and aesthetic requirements of the particular working environment while complying with accepted human factor design and ergonomic standards for viewing distance, angle, keyboard height, and knee space requirements.
- b) Standard top height of modular control desk shall be 750 mm in sitting position and have to go till 1100 mm for Standing Position. The Console Table Top / Working Surface should be made in 12mm mm Solid Acrylic Panel (ASS) Cladded on 25mm MDF Board. Drawing is enclosed.

- c) Size of modular control desk shall be as per drawing and it should have arrangement for placing of 2 workstations monitor for 2 Users on each control desk.
- d) The Basic Structure should consist of Extruded AL Profiles (6063T6 grade) binded by Top & Bottom (min 2mm) MS Frames formed in such a way as to provide maximum buckling and torsion resistance. The Front & Back Panels should be openable / removable (with Locks) made of laminated MDF Board in min thickness of 18mm. The front Shutter will be of Toughed Glass (min. 4mm Thick) cladded on 18 mm MDF and Back shutter in 18 mm MDF Boards with Fan for Heat decapitation.
- e) The Side Panels should be fixed type, made in 26mm MDF Board Cladded on 18mm MDF Board. All panels must be attached to the frame with concealed fasteners. Console access panels (Front & Rear Panels) must be removable without the use of tools. The Front panel should be positioned in such a way that there should be sufficient leg space (min of 400mm from the front edge of the Table Top).
- f) All sheet metal / aluminum parts must be finished with electrostatic powder coating with average of min 80 microns over all surfaces.
- g) The console frame shall have provisions for leveller legs to be incorporated into the frame.

Work Surface

- h) The Console Table Top should be made of 12mm Solid Acrylic Panel (ASS) over 25mm MDF Board, with no sharp Edges. The work surface platform shall have smooth edges and transitions, thus avoiding sharp corners or potential rib catchers for operator safety.

Modular Rear Wall (Slat Wall)

- i) Wall should be of min 86 mm (Height) and approx 200-300 mm high from the Monitor Base.
- j) Modular walls shall be made of 2mm thick Extruded Aluminum (6063T6 aluminum alloy).
- k) It should have high Load bearing capacity. Minimum weight carrying capacity has to be 20 KGs per Meter.

Monitor Arms

- l) It shall be capable for mounting all type of existing LCD monitor with dimensions between 17" to 27" using suitable adopter/additional base plate, if required any.
- m) Vendor shall provide the suitable adopter/additional base plate for mounting the existing LCD monitors.
- n) It shall allow the rotate/ tilt/ raise/the monitors as well as fix their adjustment.
- o) The monitor arm should be Articulating monitor arm

Miscellaneous

- p) There shall be a closed cabinet (02 no in one Modular Control Desk) below the modular control desk for placing of CPU. Cabinet should have proper cooling system. CPU needs to be accessible from front as well as rear side of control desk for easy working and maintenance.
- q) The cabinet shutters shall be of Butt Hinged type with 18mm thick MDF.
- r) Rear shutters of each console should have provision of Airflow opening for cooling and heat dissipation effect.
- s) Rear panel shall have ventilation fans mounted on it.
- t) It shall have proper arrangement for flow of cables i.e. LAN Cable, Power cable, VGA cable, Mouse cable, Keyboard etc.

- u) Design of control desk shall allow cables from the floor cable channel.
- v) Control desk shall be equipped with individual power distribution unit (PDU) (06 no for one Modular Control Desk) and capable of being switched on/off individually. Power supply socket should be dual type i.e. Universal type.
- w) All bolts must be of SS material to avoid rust due to environment.

Online UPS

S.No.	Parameter	Minimum Specifications	Compliance (Yes/No)
1.	Capacity	Adequate capacity to cover all above IT Components at respective location	
2.	Output WaveForm	Pure Sinewave	
3.	Input Power Factor at Full Load	>0.90	
4.	Input	Three Phase 3 Wire for over 5 KVA	
5.	Input Voltage Range	305-475VA Cat Full Load	
6.	Input Frequency	50Hz+/-3 Hz	
7.	Output Voltage	400 VAC, Three Phase for over 5KVA UPS	
8.	Output Frequency	50Hz+/-0.5%(Freerunning); +/- 3%(Eco Mode)	
9.	Inverter efficiency	>90%	
10.	Over All AC-AC Efficiency	>85%	
11.	UPS shutdown	UPS should shut down with an alarm and indication on following conditions 1) Output over voltage 2) Output under voltage 3) Battery low 4) Inverter over load 5) Over temperature 6) Output short	
12.	Battery Backup	60 minutes in full load	
13.	Battery	VRLA(Valve Regulated Lead Acid) SMF (Sealed Maintenance Free) Battery	
14.	Indicators & Metering	Indicators for AC Mains, Load on Battery, Fault, Load Level, Battery Low Warning, Inverter On, UPS on Bypass, Overload, etc. Metering for Input Voltage, Output Voltage and frequency, battery voltage, output current etc.	
15.	Audio Alarm	Battery low, Mains Failure, Over temperature, Inverter overload, Fault etc.	

16.	Cabinet	Rack/Tower type	
17.	OperatingTemp	0 to 40 degrees centigrade	

KVMModule

S.N.	Item	MinimumSpecifications
1.	KVM Requirement	Keyboard, Video Display Unit and Mouse Unit (KVM) for the IT Infrastructure Management at Data Center
2.	Form Factor	19" rack mountable
3.	Ports	Minimum 8 ports
4.	Server Connections	US B or KVM over IP.
5.	Auto-Scan	It should be capable to auto scan servers
6.	Rack Access	It should support local user port for rack access
7.	SNMP	The KVM switch should be SNMP enabled. It should be operable from remote locations
8.	OS Support	It should support multiple operating system
9.	PowerSupply	It should have dual power with fail over and built-in surge protection
10.	Multi-Usersupport	It should support multi-user access and collaboration

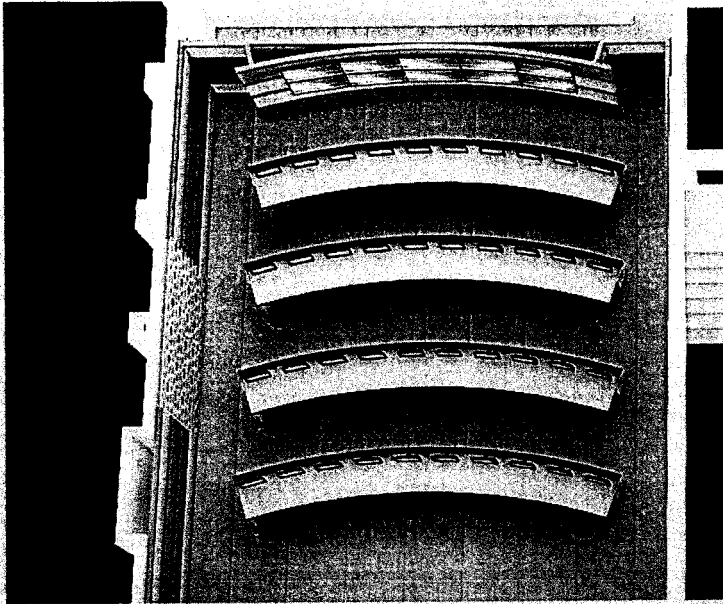
Works related to Civil, Electrical, Furniture & Airconditioning for Command & Control Centre.

The scope of the project includes designing, engineering, supply & installation of 24X7 mission critical Command & Control Center Interiors. As the Command and Control room is a significant place, it is imperative that it is designed properly in terms of Aesthetics, Ergonomics and Functionality. Various aspects should be considered while designing Command and Control room area to create ideal work place, considering physiological aspects such as line of sight and field of vision and cognitive factors such as concentration and perceptivity as per ISO 11064.

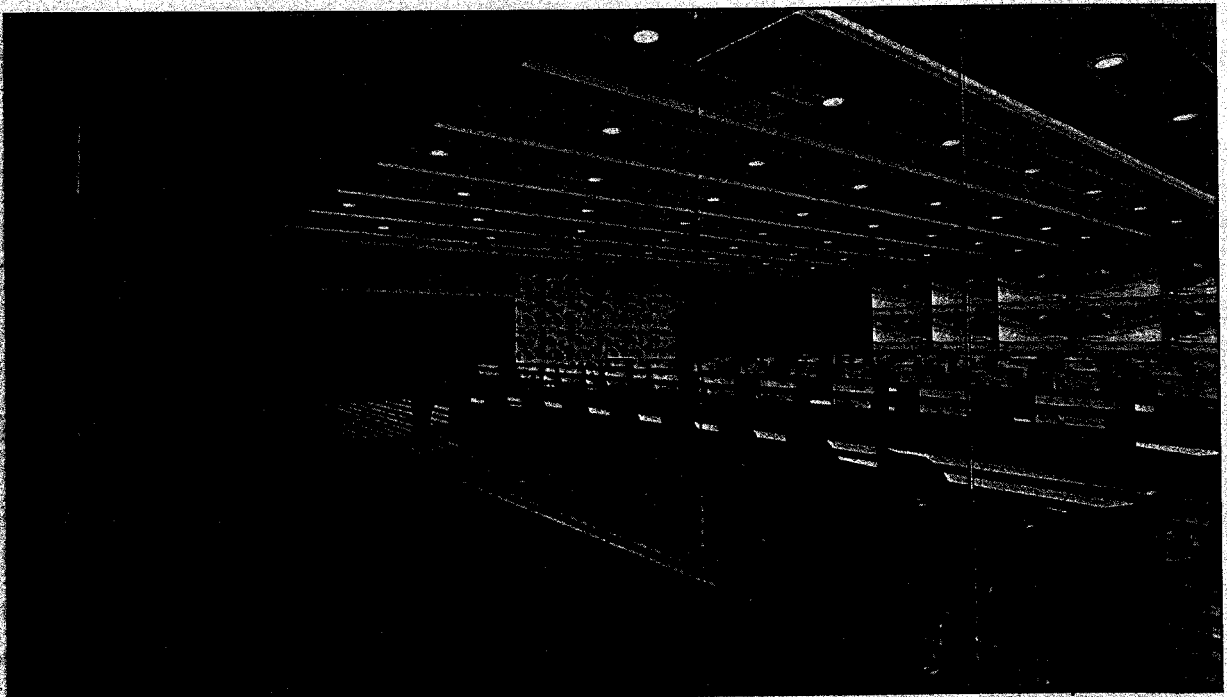
The design of systems, equipment and facilities shall reflect human factors requirements including the following:

- I. Satisfactory environmental conditions for operator personnel. Including noise, air flow, temperature and humidity, and precautionary measure under uncontrolled conditions (like fire) beyond acceptable limits.
- II. Adequate space for personnel and equipment for the movements and activities they are required to perform during operation and maintenance, under both normal and emergency conditions.
- III. Adequate visual / auditory status information and other communication links between personnel and equipment under normal and emergency conditions.
- IV. Adequate illumination for the performance of operation, control, maintenance and training.
- V. The control room shall be built as per the criteria of "Human Factor Engineering" to improve the efficiency utilization of the operators and provide them Fatigue free working environment.

- VI. Objective: -
- i. Ensure maximum standard of safety.
 - ii. Allow Flexibility
 - iii. Minimize maintenance
 - iv. Improve operator's efficiency & alertness.
- VII. Designing, manufacturing, testing, integration etc., all complete, preparation of the related drawings, documents, etc. of the Command and Control room shall be in the supplier's scope. The design shall confirm the requirements & specifications of this bid document.
- VIII. In broad, the scope of work and supply shall consist of the following parts: -
- i. Interior Design, engineering of Command and Control room.
 - ii. All related services for supply, installation, testing.
 - iii. Spares & Documentation
- IX. Detailed scope of work and supply shall include but not be limited to the following: -
- i. Data Collection: Gather all information related to design of the Command and control rooms.
 - ii. Design Proposal: - Submission of various options of Command and Control room layout for client's approval, strictly complying to ISO 11064.
- X. General: -
- i. The tentative room area shall be provided to the Command and Control room designer to develop the various options.
 - ii. Supply of the product catalogue, technical proposals including but not limited to drawings, documentation, 3D views, colour pallets, for the complete solution.
 - iii. Spares: -A list of manufacturer's recommended spares for operation and maintenance shall be provided.
 - iv. Provide commissioning & warranty spares (Contractor shall utilize these spares of all the equipment that may be required during commissioning & warranty period separately).
 - v. Manufacturer shall be responsible for safety and security of the installed items till commissioning and final acceptance by Owner (before start of warranty period).
 - vi. Quality assurance & commissioning of the complete system at site to the complete satisfaction of the Owner/Consultant.



General View of Command and Control Room from Entrance



2. Acoustic Requirements of Control room

- I. Command and Control room being dead zone in acoustical terms, threshold should be lower than the normal.
- II. Use of Acoustics and psychoacoustics measurements are must. Vendor to highlight the same in drawings.
- III. Materials which define acoustics; it's the detailing which ensures controlled reverberations & resonances and reflections.
- IV. Selection of fire retardant/rated material is must.

3. Mandatory Requirement:

The project demands for a contemporary, aesthetically appealing, ergonomically designed, safe and 24X7 working facility. Conventional wooden cladding, painting, gypsum, 2'X2' Metal, POP ceilings (for Command Control Room area) shall not be accepted.

This facility being the first of its kind, scale & prestige it is mandatory for the bidder to provide Designer Command and Control interiors without compromising on the safety and functionality of the facility. Also, this being a Green Building; materials having the adverse impact on the environment and nature shall not be accepted. To ensure the quality of the execution and integrity of the components it is mandatory for the main bidder that they get some qualified agency with experience of turnkey supply and design of Command and Control & Rooms or War rooms, including but not limited to Illumination, Floorings, Custom designer metal ceilings, wall claddings and doors. Conventional office designers shall not be accepted.

- I. Submittals (Bidder to produce these documents from control room interior Manufacturer or supplier along with the bid): -
 - i. Certificate for ISO 9001-2008 quality certification and proof of quality system implementation in Manufacturing processes for at least 5 years.
 - ii. Certificate for ISO 14001 for Environment Management System.
 - iii. Certificate for OHSAS 18001 for Occupational Health and Safety.
 - iv. Ergonomic compliance report for Command and control room layout as per ISO 11064 to be submitted along with the bid.
 - v. Manufacturing Unit/Capability: If asked, supplier to arrange factory and product inspection before placement of order, to ensure that the vendor is capable of in-house production of the ordered goods.
 - vi. To prove supplier's seriousness in the business; Printed Catalogues and Locations of Demo rooms to be furnished.
- II. Warranty:
 - i. Five year's warranty against any manufacturing defect on Command and Control Room design including but not limited to Illumination, Floorings, Custom designer metal ceilings, wall claddings and doors.
- III. Proven Track Record:
 - i. The bidder to produce following documents from the Command and control room interior Manufacturer or supplier along with the bid: -
 - ii. Minimum 10 installation of Command control rooms/ NOC areas with appreciation letters for the turnkey scope including but not limited to ceiling, flooring, illumination and wall cladding from reputed companies to be submitted along with the bid. These packages should have been executed on or before Bid release date.
- IV. Design Criteria: -
 - i. The ceiling, panelling and partition must be of modular design, facilitating future equipment retrofits and full reconfigurations without requiring any major modification to the structure.

V. Product Specific Mandatory Requirement

- i. Copy of Test certification for ASTM E84 (from UL) for the surface burning characteristics of wall panelling tiles and ceiling tiles to be submitted along with the bid. This is mandatory requirement from Fire safety point of view.
- ii. Raw-material supplier data alone is not acceptable.

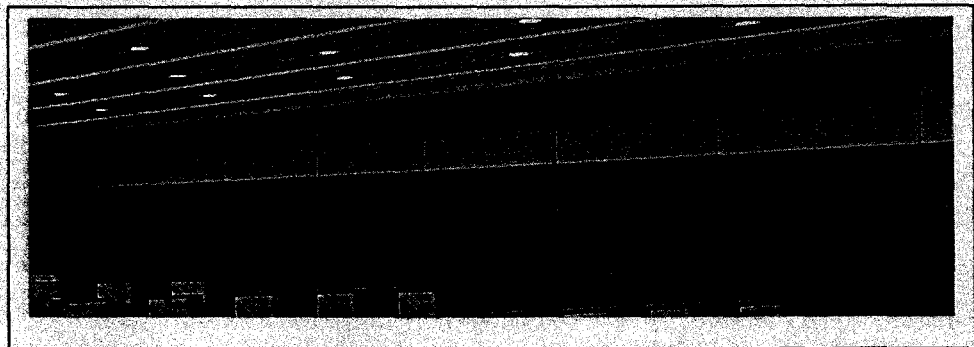
VI. Quality Criteria: -

- i. To ensure uniformity, consistency & quality in final product the Command and Control manufacturer should have In-house Powder Coating Plant, metal manufacturing and wood processing plant.

VII. Proven Track Record: -

- i. The Command room wall cladding and ceiling manufacturer must produce documents proving that they have executed minimum 10 orders including One export order for supply and installation of Command and Control Rooms interior designs with appreciation certificate.

4. PANELING



I. Straight Metal Panelling

- i. Panel should comprise of perforation for making the cladding and partitions acoustically sound. Min 20% panels shall be perforated or as specified by the consultant.
- ii. There should be possibility of wide variety of colors and images to be used on the wall elements to give the aesthetic and state of the art look to the control room.
- iii. Panel design to support proper LVS integration.
- iv. Gluing, screwing, ACP, Laminates are not allowed.
- v. Panel design should ensure that when the tiles need to be removed for service maintenance of Lighting & AC ducts & itself cleaning, the risk of tile damage is minimized.

- vi. Structure should allow uninterrupted flow of wires/cable/tubes of max. dia 25mm.

vii. **Design & Material Specification for Panelling**

- a. Factory made removable type self inter lockable metal panels of Preformed textured Hot dip galvanized strips and sheets of low carbon steel coated on one side with rigid polyvinylchloride (PVC) film and on the other side a coating based on cross linkable polyester resins (sheet thickness 0.6mm & PVC Coating 0.15mm). Make shall comprise of specially designed combination of perforated and non-perforated panels through CNC laser Cutting, bending & punching. Panel shall be of 0.75mm thick galvanized metal of approved color. Panels shall be designed to achieve shape and design as per the design consultant. Panels shall be fixed using hook fitting on structure. Overall system thickness for paneling shall be 70mm to 85mm and for partition shall be 85mm to 110mm.
- b. As per design panel shall comprise of hexagonal perforation for making paneling and partitions acoustically sound. Acoustic grade fire retardant fabric (min 1.5mm thick) will be fixed at some parts of the control room.
- c. Panel shall be design in such a manner that it takes care of undulation of civil walls and gives perfect flat surface finish and compile easy service & maintenance procedure.

viii. **Design:**

- a. The cladding panels shall be made up of combination of two sheets locked and riveted together and polystyrene shall be used as infill to achieve strength and acoustics. The front tile (PVC pre-coated metal sheet) shall be perforated/ non-perforated as per the design requirement and the back tile (Powder coated 0.6mm GI sheet) shall be designed in such a manner that it fits on the back portion of the front tile. Once the tiles are fitted together then these will be manually riveted. These tiles shall be bend through CNC, machine punched & laser Cut to achieve perfect accuracy.
- b. Structure Shall be made from heavy duty powder coated modular steel frame (minimum sheet thickness 1 to 1.6mm) and shall allow uninterrupted flow of wires/cable/tubes of max. dia. 25mm.
- c. Structure Shall be securely grouted from wall, roof and floor. It shall be made up of 1-1.6mm thick vertical Slotted rolled C sections (Upright) and horizontal rolled 'C' connectors. Grid of desired dimension shall be formed by Vertical and horizontal sections having 50mm pitch.

ix. **Surface Finish:**

a. **For Panels:**

- a) **Front Panel:** PVC pre-coated GI sheet (sheet thickness: 0.6mm and PVC coating: 0.15mm)
- b) **Back Cover:** Powder coated GI sheet. (sheet thickness: 0.6mm with powder coating:)

b. **For Structure:**

- a) **Powder coated sheet.** (sheet thickness: 1.0mm to 1.6mm with powder coating)

The metal sheet shall have possibility of being formed mechanically per the specific needs of the project.

Panel shall provide better thermal, electrical insulation as compared to normal GI panels. It shall be non-reflective/glare free and be eligible for food contact.

x. **Material Selection:**

- a. **Available Width-** 300mm to 1200mm (in multiples of 150mm).
- b. **Available Height-** 150mm to 750mm (in multiples of 150mm).
- c. **Thickness-** 10mm to 15mm for perforated tiles with acoustic fleece without back cover
- d. **25mm to 30mm for non-perforated tiles with back covers**

xi. **Component Specification:**

a. **Floor Mounting: -**

- a) 3mm thick C channels are welded together to form a 'I' section having minimum height of 150mm. This I section shall be welded on 3mm thick MS grouting plate.
- b) This assembly shall be grouted on the floor with the help of M10 Anchor Fasteners.
- c) These Floor Mountings shall be the base support to the vertical uprights spaced at a center to center distance of 1200mm maximum.
- d) Contractor must ensure proper marking and leveling before proceeding with any floor grouting.

b. **C Section (Upright) fixing: -**

- a) 56 mm wide Slotted rolled C section (UPRIGHT) (1 to 1.6 mm thick CRCA). Maximum single piece Length shall not exceed 2700mm.
- b) All sections will be dual slotted with 50 mm pitch.
- c) These Uprights shall be mounted over the floor mountings and shall be connected by C connectors made up of 1.0mm to 1.6mm thick cold rolled 'C' sections.
- d) The installation to be carried out with Uprights spaced at 1200 mm (centers to center) securely fixed to the floor slab by means floor mountings.
- e) The uprights shall be firmly held with L shaped wall mounts made up of 2 mm thick MS sheet duly powder coated. One portion of L mount shall be grouted with wall and other will be having a minimum slot length of 75mm.
- f) The L clamp and the upright will be bolted together with M6 bolts.

c. **End Cap**

- a) 0.6mm to 0.75mm thick C shaped tile; like the panel tile will be bolted on the extreme end Uprights to hide the grid structure.

d. **Panel:**

- a) The panels shall be hooked on the uprights.
- b) Panels shall have integrated hooks (which shall cut and bend on high precision laser machines).
- c) The panels shall have minimum gap of 5mm between two tiles (on vertical and horizontal edges) so that the tiles can be replaced and installed easily.

- d) The hooks of the Panels shall have a length of 20mm (for the upper hook) and 10 mm (for the bottom hook). So that these panels are firmly held on the uprights.
- e) The panel shall have HOOK in arrangement (With gravity lock).

e. **Corner Cap:**

- a) On extremes ends of control room the wall connector (L- profile) shall be fixed on the perimeter walls. This L-section shall be snap fitted and then bolted to the walls.

f. **Door Profile:**

- a) Door frame shall be fixed with these profiles only to have proper integration of doors with the overall system.

xii. **Feature:**

- a. Raw material for tile & powder coating should not affect environment, vendor to provide necessary test certificate.
- b. Color should not fade over 10 years.
- c. No sagging
- d. Easy and quick installation
- e. Low cleaning effort
- f. Vendor to demonstrate one portion at wall paneling& ceiling at their premises before dismantling & shipping to site. In short, a FAT (Factory acceptance test) to be carried out at vendors works for ceiling &paneling.
- g. 100 % modular design. At site, no cutting, chipping work is allowed.
- h. The tile shall be bend resistant

5. PARTITION

I. **Straight Metal Partition-**

All the properties and MOC shall be like straight Metal paneling but the partition shall have metal cladding on either side of the frame.

II. **Curvilinear Metal Partition:-**

All the properties and MOC shall be like Metal paneling/partition but the front tiles shall be having perfect curve to meet the aesthetical requirement of the Command and Control room and shall allow easy installation of the LVS/Screens on it.



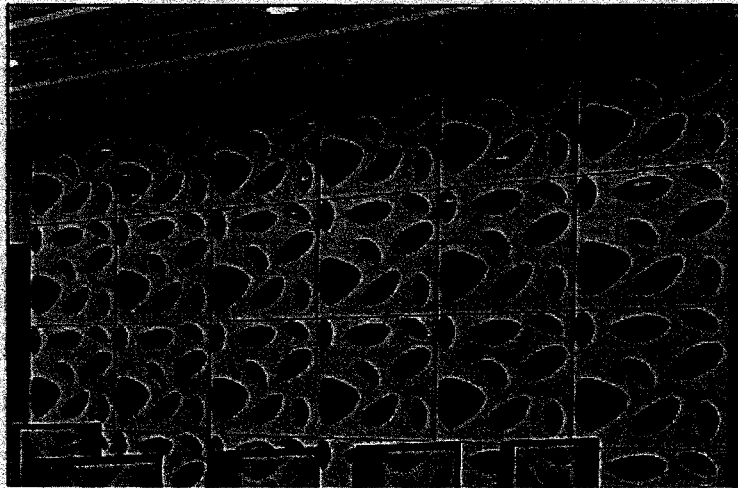
III. **GLASS PARTITION**

- i. Full glass wall partitions will be made of 12mm Toughened laminated glass with frame-less structure. The glass partition shall be supported by 600mm high Modular metal partition (having the same finish as that of wall cladding) from the floor. Proper structure shall be made to ensure the fixing of glass from RCC slab above false ceiling and flooring.
- ii. No straight and vertical structural members shall be visible. Safety film shall be applied on the glass to avoid shattering. Glass shall be fitted on anodized extrusion with tool less technology and having a provision for replacing glass with perforated sheet/acoustic tile by removing the glass.

NOTE: - The nature of installation should be replaceable, expandable and flexible to cater the future expansion/technical up-gradation.

6. Lattice Paneling

- I. All the properties shall remain like Metal paneling. The tile size shall be 2'X2' or 1M X 1M. The front tile shall have laser cut designs (as per approval) and another tile shall be fitted into it to have Highlighter view.
 - i. The tiles will be having cut-outs in such a way that when the tiles are rotated by 90 degrees the design pattern of the entire wall shall be changed. Using the same tiles and different orientations we will have multiple design possibilities.
 - ii. The aim is to provide a contemporary look to the CCR.
 - iii. It shall be a tool less & screw less fixing.



7. DOORS& WINDOWS

I. Metallic Door

- i. With door spring and locking arrangements and both way handle. Prepare with rigid thermo fused film metal panels. Specification: 0.6mm thick Metal panel sheets, cavity filled with glass wool insulation of density 24kg/cum in roll form of make inside adequate quantity. Material of the partition and that of metal door will remain the same.

II. Metal door with Toughened Glass Vision Panel: -

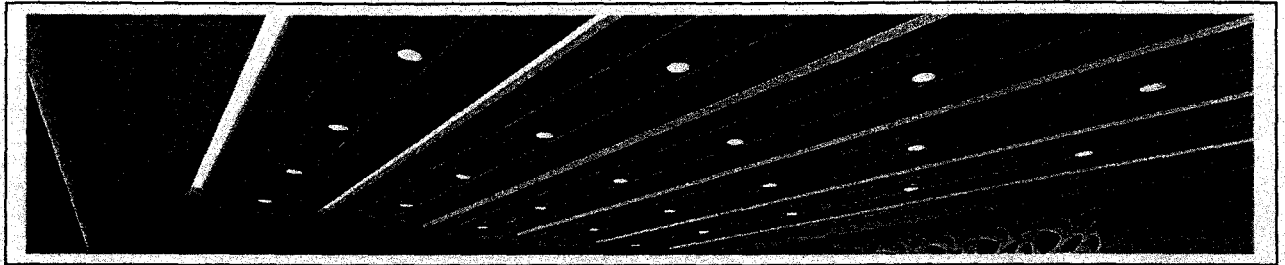
- i. The door shall have 100mm frame (made of same material as that of wall paneling/partition) and shall have 12mm thick glass pane in between.

a. 12mm thick tempered clear glass door with door spring and locking arrangements and both way handle and patch fittings.

b. Glass Properties:

Safety (tempered): when broken, must split into tiny harmless pieces.

8. False Ceiling:



I. Designer Acoustic Metal False ceiling with Straight/Curvilinear linear Plank Ceiling

- i. Factory made acoustic modular metal false ceiling of powder coated panels. Make shall comprising of perforated and non-perforated metal panels made through CNC laser Cutting, bending & punching. Panel shall be of 0.6mm galvanized metal of approved color. Panels shall be designed to achieve shape and design as per the design consultant with the combination of acrylic panels with lights, designed to enhance visual feel, with provision for easy installation and maintenance, integrated lighting and scope for integration of building services like HVAC and fire detection/ fighting system.
- ii. As per design panel shall comprise of micro perforation for making false ceiling acoustically sound with fire rated acoustic fleece.

II. Design:

- i. The ceiling panels shall be made up of combination of perforated and non-perforated panels to achieve strength and acoustics. These tiles shall be bend through CNC, machine punched & laser Cut to achieve perfect accuracy.
- ii. Structure Shall be made from heavy duty powder coated modular steel frame (minimum sheet thickness 1 to 1.6mm). It Shall be securely grouted from roof with help of anchor fastener and GI self-threaded rods. It shall be formed with the help of slotted rolled W sections (stiffener) and M section (Master) with help of M6 cage nut and bolts.

a. Surface Finish:

- a) For Panels: Powder coated GI sheet. (sheet thickness: 0.6mm with powder coating:)
- b) For Structure: Powder coated sheet. (sheet thickness: 1.0mm to 1.6mm with powder coating)
- iii. The metal sheet shall have possibility of being formed mechanically per the specific needs of the project. It shall be able to undergo stretching up to 100% and therefor follow (adhere to) bend with the steel in all its deformation.
- iv. Fire rated acoustical fleece to be pasted on the perforated metal ceiling planks to achieve better acoustic levels. Metal modular false ceiling is having Sound

absorption coefficient (NRC) value 0.30 per IS:8225-1987, ISO: 354-1985 and ASTM 423-90.

- v. The master section shall have laser cut profile to enable fixing of perforated, Non- Perforated & diffused continuous LED section with acrylic sheet.

a. Material Selction-

- a) **Non- Perforated Tile:** - Machine profiled GI sheet of 290mm (Wide)available in various length of 600mm to 1800mm in multiple of 300mm
- b) **Perforated Tile:** - Machine profiled GI sheet with fleece of 146mm (Wide) in various length of 600mm to 1800mm in multiple of 300mm

b. Material Testing/Certification:

- a) **Core material (compressed polystyrene):** Acoustic test: 9301/ ISO: 140/ASTM 413, ASTM C 578-08b type VI
- b) **Powder coating**
 - 1) **Adhesion test:** EN ISO 2409 (2 mm)
 - 2) **Impact resistance test:** ASTM D 2794 (5/9' ball)
 - 3) **flexibility test:** EN ISO 1519
 - 4) **Salt spry test:** 600 hrs.
 - 5) **resistance to humid atmosphere test:** DIN 50017.

c. Component Specification:

a) Master M Section:

- 1) 1.2 mm thick GI section length 1200mm. the installation to be carried out with runner's spaces at 1200/1500/2100 mm center to center securely fixed to the hanging "c" section by means at M6Nut and bolts.
- 2) The end section shall be covered by 0.8mm thick powder coated MS sheet.
- 3) The master section shall have laser cut profile to enable clip on tiles viz. perforated, Non- Perforated & diffused continuous LED section with acrylic sheet.

b) Hanging W Section:

- 1) Specially machine profiled W section 65x15x0.8mm.the section should be 2400 mm long & shall run across the length at the room.
- 2) Center to center distance between W section shall be 1000mm.
- 3) These sections are securely fixed to the slab by means of Metal fastener and 8mm GI rod fully threaded (with hex nut for precision level adjustment.)
- 4) The two-master section shall be attached to each other by means at fixing pate 45x34mm & M6 cage nut & bolts

c) U Section:

- 1) Machine profiled 'U' Section 150x77x0.6mm section to accurate continues running light.
- 2) It shall have provision for fixing acrylic sheet.
- 3) This whole assembly shall be hang from roof slab with help of anchor fastener and full threaded GI rod.

d) Ceiling Plank:

- 1) Plank shall be made from 0.6mm thick GI powder coated sheet of approved shade and sizes.
- 2) Light fitting can be defined as per the LUX requirement.
- 3) It shall have Laser cut circular hole for light fixing as per defined lux requirement and approved layout.
- 4) Non-perforated tile slots to be punched to accommodate AC grills.

9. Lighting and Illumination of Control Room.

i. LED dynamic lights

- i. **Brief:-**LED colour changing lights. The lights shall be available in flat panels and shall be dimmable. These shall be designed and developed with slim shape for stylish look. The product shall have better colour rendering index for interior illumination.
- ii. In LED color changing lights shall have three basic colours like cool white, warm white and neutral white. The user shall be able to tune to any colour temperature between 2700 to 6500 Kelvin. The master controller shall be able to control upto 32 luminaires. The system shall be expandable, flexible system and user friendly to change the color/dimming as per pre-decided schedule. The LED colour changing lights shall have uniform light distribution without any spots on surface of panel, to make it highly luminous.

10. WIRING FOR CEILING LIGHT

- i. Wiring for ceiling lights: For ceiling wiring inter looping will be done and switches will be provided.
- ii. The system of wiring shall consist of PVC insulated copper conductor stranded flexible FRLS wires of 1100 volts grade of insulation, in metallic conduits for all exposed wiring and PVC/ metallic conduits for all concealed wiring. Minimum size of copper conductor shall be 1.5 sq. mm for lighting and 2.5 sqmm for power. Color code shall be maintained for the entire wiring installation that is Red/Yellow/Blue (or as per Local Standards) for the all single phases, Black for neutral and Green for earthing.
- iii. Appropriate ferrule will be used in both the side (LDB Side & Switch's Side)
- iv. Note – Each Light Fixture will have 3 Wires: Phase, Neutral & Earth individually & If there is a need of another wire for Dimming/Dynamic Lighting Purpose then it will add on.

v. **SWITCHES & SOCKETS**

- a. Compliance to stringent quality norms, Dual shutter mechanism for easy & better fitment Wide & flat switch knob for easy operation. FR grade polycarbonate with high impact resistance, shock proof & UV rays stabilized.

vi. **MCBs**

- a. For the control and protection of low voltage installations against overload and short circuits.
- b. Ripping characteristic: C Curve – 5 to 10 x In

- c. Rated at 25°C to -50°C
- d. Isolation function
- e. Double entry points, separate bus bar entry, open mouthed terminal and lift clamps.

11. Acoustic Laminate Flooring in other areas: -

Acoustic flooring (shall reduce impact sound by 14dB (ISO 717-2)). It shall be twinlayer linoleum built up from 2 mm Marmoleum and a 2 mm Corkment backing. Flooring shall be decorative type of approved shade, pattern, texture and design and of approved manufacturer. Dimensions shall be as per the final approved design and site requirement. Flooring shall be laid over concrete floor with laying compound strictly as per manufacturer's specification.

For fixing details please refer the procedure mentioned below.

- a) Areas to receive material should be clean, fully enclosed and weather tight with the permanent HVAC in operation. A minimum temperature 68° F (20ature 68anent HVAC in operation. A minimum cleaning prior to beginning the installation, maintained during the installation, and for at least seven days following the installation.
- b) Installation should not begin until the work of all other trades has been completed, especially overhead trades.
- c) Areas to receive material shall be adequately lighted to allow for proper inspection of the substrate, installation, seaming and for final inspection.
- d) Concrete substrates shall be structurally sound, rigid, smooth, flat, clean, and permanently dry. The concrete surface must be free of all foreign materials including, but not limited to, dust, paint, grease, oils, and solvents, curing and hardening compounds, sealers, asphalt and old adhesive residue.
- e) Concrete substrates shall have a minimum compressive strength of 3,000 psi and a dry density of at least 150 pounds per cubic foot.
- f) Concrete substrates on or below grade are required to have an effective moisture vapor retarder installed directly below the slab. The vapor retarder shall be puncture and tear resistant with a minimum thickness of 0.010" and a presence of 0.1 y. (Refer to ASTM E 1745.).
- g) Imperfections such as chips, spills, cracks, and joints must be repaired using suitable patching and leveling materials. Always follow the manufacturer's recommendations for the use and application of these products. Refer to the Substrate Preparation section of this guide for additional information.
- h) Use material from the same batch/dye lot.
- i) Install rolls in sequence by roll number and cuts from each individual roll in consecutive order.
- j) Do Not Reverse sheets for seaming.
- k) Install one sheet at a time, making sure to place the material into wet adhesive.
- l) Remove fresh adhesive residue immediately with a clean white damp cloth. Dried adhesive can be removed with a clean white cloth and mineral spirits.

- m) Linoleum will expand slightly in the width and shrink slightly in the length when placed into the adhesive. Proper installation procedures will compensate for this characteristic.
- n) Measure the area to be installed and determine the direction in which the material will be installed and. seam placement. Seams must be a minimum of 6" away from underlayment and concrete joints, saw cuts, etc.
- o) Cut the required length for the first sheet off the roll, adding approximately 3" - 6" for extra trimming.
- p) The factory edge must be trimmed to produce a clean edge suitable for seaming.
- q) Position the straight edge approximately 1/2" - 3/4" from the factory edge and score the material using the utility knife along the straight edge. After scoring, complete the cut using a hooked blade knife following the score line. Hold the blade at a slight angle to the surface of the material so the seam edge will have a slight undercut.
- r) When ready to adhere the first sheet, lap the material back about halfway from one end.
- s) Begin spreading adhesive at the lap point and work back toward the wall. Spread the adhesive from the side wall up to the pencil line at the seam edge. For longer sheets that have not yet been trimmed to fit at the top, stop spreading the adhesive approximately 4' - 6' from the wall to allow for final fitting at the ends after the center portion has been adhered.

Note: Not spreading adhesive approximately 4' - 6' at the end of each sheet allows any shrinkage of the material to occur within the center of the sheet, ensuring a tight fit and seam at the end of the sheet.

- t) When installing acoustic laminate and linoleum with jute backing on porous substrates, no open time is necessary before placing the flooring material into the adhesive. For non-porous substrates, a short open time may be necessary in order to allow the adhesive to develop body before placing the flooring material into the adhesive, but DO NOT ALLOW THE ADHESIVE TO DRY. The flooring material MUST always be placed into wet adhesive and rolled immediately. Check for adhesive transfer frequently. There must be a wet transfer of adhesive to the material backing to achieve a secure bond.
- u) After adhering, immediately roll the flooring in both directions using a 100-pound roller. Roll first across the width and then along the length so that any trapped air pockets will be removed.
- v) The flooring material must also remain in contact with the adhesive while the adhesive is drying and curing.
- w) Adequate relaxing should enable the material to remain in contact with the adhesive, but if necessary, weight should be applied after rolling to ensure that the flooring material remains in full contact with the adhesive while the adhesive is drying.

Note: To ensure proper transfer of adhesive to the material backing at walls and fixtures, roll the edges of the material with a steel steam roller.

12. Raised Floor in Command and Control Room (for amphitheater arrangement of consoles)

- I. **Mandatory: Top Surface Shall be Green Guard (UL) certified to avoid VOC free / low emitting surface and finish shall be similar to the Acoustic Laminate flooring.**

- i. Height above the RCC floor – 300mm to 600mm (for details please refer the plan).
- ii. The flooring should be manufactured of fiber reinforced Calcium Sulphate panels having edges finished with PVC edge band and top surface should be finished with durable & environment friendly acoustic laminate pasted with special glue serving life of 5 years minimum. Tile Size should be 600mm X 600mm.
 - The Panel should:-
 - Have density of 1650KgM³.
 - DIN 4102 class A1 for Heat Resistance &
 - BS 476 for fire resistance.
 - Core material thickness should be 30mm.
- iii. The acoustic laminate should be made up of twin-layer linoleum built up from 2 mm Laminate and a 1/2 mm Cork backing.
- iv. The laminate should be made up of natural products and should not emit any volatile organic compounds, should be Sustainable & 100% biodegradable. Also it should be Impact, chemical & fire resistant with anti-bacterial & anti-static properties with Colors& patterns permeate through the surface to reduce noticeable wear.
- v. This false floor panel should rest on Edge support rigid grid system having Galvanized Iron base plate dimensions as 100mm X 100mm. The stringer should be fixed on pedestal having height adjustment of ± 25 mm.
- vi. The flooring in all the MCR area and inside rooms shall be antistatic as per spec. The test certificates to be provided before commencement of the job.

GENERAL NOTES: -

1. The Command and Control room paneling and partition to have minimum 15% thermo-fused printed tiles (with similar material of construction as that of paneling and partition tiles) to print local art of state and increase the association of the facility with the state. Design will be selected by the.

2. Warranty (for the entire CCR):

- a. Lifetime warrantee on structural stability.
- b. Five years' warrantee against any manufacturing defect on all modular/removable system.

5. PVC Conduit

- a. The conduits for all systems shall be high impact rigid PVC heavy-duty type and shall comply with I.E.E regulations for standardized conduit 1.6 mm thick as per IS 9537/1983.
- b. All sections of conduit and relevant boxes shall be properly cleaned and glued using appropriate epoxy resin glue and the proper connecting pieces, like conduit fittings such as Mild Steel and should be so installed that they can remain accessible for existing cable or the installing of the additional cables.
- c. No conduit less than 20mm external diameter shall be used. Conduit runs shall be so arranged that the cables connected to separate main circuits shall be enclosed in

separate conduits, and that all lead and return wire of each circuit shall be run to the same circuit.

- d. All conduits shall be smooth in bore, true in size and all ends where conduits are cut shall be carefully made true and all sharp edges trimmed. All joints between lengths of conduit or between conduit and fittings boxes shall be pushed firmly together and glued properly.
- e. Cables shall not be drawn into conduits until the conduit system is erected, firmly fixed and cleaned out. Not more than two right angle bends or the equivalent shall be permitted between draw or junction boxes. Bending radius shall comply with I.E.E regulations for PVC pipes.
- f. Conduit concealed in the ceiling slab shall run parallel to walls and beams and conduit concealed in the walls shall run vertical or horizontal.

The chase in the wall required in the recessed conduit system shall be neatly made and shall be of angle dimensions to permit the conduit to be fixed in the manner desired. Conduit in chase shall be hold by steel hooks of approved design of 60cm center the chases shall be filled up neatly after erection of conduit and brought to the original finish of the wall with cement concrete mixture 1:3:6 using 6mm thick stone aggregate and course sand

Item No 1 : Control Desk

The following specifications detail the minimum requirements of the Console System. Bidders must respond on the enclosed chart. This allows for a point-by-point technical response stating compliance, taking exception or providing requested information. Bids submitted without this chart will be considered non-responsive.



Vendor shall supply the following to obtain project level approval:

- Copy of ISO 9001:2008 Certification.
- Copy of Green guard certifications for full console. Certification for compliance with minimum indoor air quality standards.

- Copy of FSC certification (Forest Stewardship Council) for consoles. Certificate for compliance towards sustainable forest initiative ensuring wood used is from sustainable forest harvesting.
- Detailed CAD (PDF format) drawings of console and equipment layouts for coordination of site measurements, architectural, mechanical, and electrical project elements for each console type.
- Copy of test certification for the following ANSI/BIFMA test procedures performed by an independent testing laboratory or approved by a professional engineer:
 - a. Concentrated Functional Load Test
 - b. Distributed Functional Load Test
 - c. Concentrated Proof Load Test
 - d. Distributed Proof Load Test
 - e. Leg Strength Test
 - f. Stability under Vertical Load Test

The tests must be based on the ANSI/BIFMA X5.5-2008 Standard applied to the proposed product solution.

- Detailed CAD (PDF format) drawings of each console type with its specific equipment per application.
- Renderings of consoles and room upon request.
Pre-production review, to include a drawing submittal and component listing complete with samples of selected finish materials upon request.
Samples of the following material components, which demonstrate workmanship, shall be provided upon request:
 - a. Work surface sample with ergonomic nosing.
 - b. Sample panel construction and finish materials.
- The consoles shall be suitable for areas of Seismic zone, it should be Zone 4 or better.
- Control Desk shall be ROHS certified.
 - a. **Product Specific Mandatory Requirement (to be submitted along with the bid)**
 - i. Greenguard (UL) Certification: as per ANSI/BIFMA M7.1-2007.
 - ii. ANSI BIFMA X5.5: 2014 Certified console (from a reputed agency and that too on all parameters)
 - iii. The consoles shall be suitable for areas of Seismic zone 4 or better. Bidder to provide Seismic Test Report from CPRI or any other government approved agency.
 - iv. Test certification for ASTM E84 for the surface burning characteristics of products and materials. Test must reference the actual assembled components for wood-core panels including core, laminates, edging.
 - v. Raw-material supplier data alone is not acceptable.
 - b. **Proven Track Record: -**
 - i. The desk manufacturer or supplier should have supplied Minimum One desk with Greenguard (UL certified) & BIFMA X5.5 (all parameters) certifications to any one Government/PSU (either customer or end user) in past three years.
 - ii. The desk manufacturer must produce documents proving that they have supplied order(s) with 200 plus consoles/desks/operator station at single location with moulded Polyurethane edging

Work surfaces

- The work surface shall be designed to provide a smooth, level work area, while complying with accepted human factors criteria. All applicable ergonomic standards will be taken into consideration¹, including view and reach distances, keyboard height, and knee-well space.
- The following custom options shall be available:
 - a. Work surface return with support panel. (Fixed work surfaces only)
 - b. Work surface return with painted metal support legs. (Fixed work surfaces only)

Technology Accommodation

Below Work surface Level (CPU storage). The console shall accommodate computer equipment* with a variety of optional processor shelves. Fixed shall be available with the hinged panels.

The desk should be capable of accommodating all the hardware component as per the requirements.

CPU Shelf Options Internal Components and Attachment:

1. Components shall have the following properties:
 - a. Fixed processor shelf 16 Gauge Cold rolled steel, powder coated
 2. Processor Shelf
 - a. Fixed Shelf – 200 lbs. (90 Kg) load, 14 gauge CRS, Powder coated black
 3. Maximum Equipment (Reduced Depth)
 - a. Fixed Shelf – 21" (533 mm) x 8 ¾" (222 mm) x 19" (483 mm)
- Termination board Options
 - Desktop Level (Under-counter and Rack-mount technology)

Above Work surface Level

- The console shall have the ability to have flat screen monitors and various desk accessories mounted on the rear slatwall. Standard slatwall heights include 150-180mm , and can be combination slatwall and partition structure. The slatwall design can be configured to accommodate equipment mounting on both sides and in aback-to-back configuration both modules share one set of slatwall.
- The following options shall be available:
 - a. Articulating monitor arm, depending on console configuration.
- Cable Management
- Console System shall be designed to allow for unrestricted cable management and access.

Console Frame Structure

All sheet metal used for structural components shall be 14 Gauge cold rolled steel/ Extruded Aluminum Frame of min 13 gauge or better. These components ensure square, rigid connection of the front portal to the rear frame assembly, module-to-module connections at corner positions, and attachment of front, rear and end panels. Sheet metal parts to be produced on CNC machines to ensure precision.

The Console assembly should allow all applicable shapes (Convex, concave, straight) to complement the control room.

All sheet metal parts must be finished with a durable, black, electrostatic powder coating.

- Internal Components and Attachment

Components shall have the following properties:

- a. Worksurface support arm 12 Gauge Cold rolled steel, powder coated
- b. Worksurface support stiffener 14 Gauge Cold rolled steel, powder coated
- c. Fixed processor shelf 16 Gauge Cold rolled steel, powder coated

- Worksurfaces and Panels

Panels and worksurfaces shall have the following properties:

- a. Materials: 1" (25mm) particleboard/ 25mm thick Medium Density Fiber board (MDF), high-pressure laminate surface
- b. Finish Horizontal grade laminate.
- c. Static Load 50-lb./ linear ft.
- d. Surface to Floor Distance Fixed 29"-29.5" (737- 750mm mm) 27 ½"-28.15" (692-715mm) mm) clearance

- Panels shall have the following properties:

- a. The console must offer hinged clipped panels as an option for front and back. Hinged panels will hinge from the column. Standard is a low pressures laminate surface. Custom options include High-pressure laminate or Veneer.
- b. End Panels: 1 in Thermofused Melamine Laminate(LPL).
- c. Lower/Intermediate Panels ¾ in Thermofused Melamine Laminate (LPL).
- o The work surface shall be supplied with a nosing(waterfall edge). The nosing shall comply with the characteristics as follows: Should be manufactured from high impact polyurethane edging OR Moulded Polyurethane edging directly over the wooden top.
So that it can not be removed from table. Comfortable and ergonomically sound. oAllows for curved sections with a min. 356mm radius. oNo T-Mold or flat edge banding will be accepted at the front edge for nosing.
- o Slatwall Component oSlatwall shall be 6063-T6 Extruded Aluminum, fully anodized, black in color.

Space Planning and Configuration Design

- Each bidder must submit a floor plan to scale, showing each item being proposed. Elevation and section drawings will be required in the submittal with dimensions of height, width, and depth in order to determine compliance with the specifications.
Photo-realistic isometric color renderings of consoles and room upon request.
- All accessories being proposed need to be shown in drawings.
- Colors are to be selected from manufacturer's standards. A Color Guide shall be submitted with the proposal.

Schedule

Upon award of the contract supplier shall provide a schedule with exact dates for the following milestones:

1. Detailed requirements analysis.
2. Final design submittal.
3. Pre-production approval submittal.
4. Fabrication period.
5. Factory acceptance/packing & shipping.
6. Delivery date.
7. Installation.

Comfort Air Conditioning at Command Centers

Cooling Capacity as per the requirements at each of the control rooms
 Compressor- Hermetically Sealed Scroll Type
 Refrigerant- R22 Type
 Power Supply-Three Phase, 380-415V, 50 Hz
 Air Flow Rate-minimum 19cum/min
 Noise Level- < 50dB
 Operation-Remote Control

IBMS Solution for Control Room

Fire Alarm System

Fire can have disastrous consequences and affect operations of a Control Room. The early-detection of fire for effective functioning of the Control Room.

System Description

The Fire alarm system shall be a single loop address able fire detection and alarm system, and must be installed as per NFPA 72 guidelines.

Detection shall be by means of automatic heat and smoke detectors (multisensor) located throughout the Control Room (ceiling, false floor and other appropriate areas where fire can take place) with break glass units ones cape routes and exits.

Control and indicating component

The control panel shall be a microprocessor based single loop address able unit, designed and manufactured to the requirements of UL/EN54 Part 2 for the control and indicating component and UL/EN54 Part 4 for the internal power supply.

All controls of the system shall be via the control panel only.

The system status shall be made available via panel mounted LEDs and a back lit 81 in x 40- character alphanumeric liquid crystal display.

All system controls and programming will be accessed via an alphanumeric key pad. The control panel will incorporate form fill menu driven fields for data entry and retrieval.

The system will include a detection verification feature. The user shall have the option to action a time response to a fire condition. This time shall be programmable upto 10 minutes to allow for investigation of the fire condition before activating alarm out puts. The operation of a manual call point shall override any verify command.

Manual Controls

Start sounders
 Silence sounders
 Reset system
 Cancel fault buzzer
 Display test

Delay sounder operation
 Verify fire condition
 Disable loop

Smoke detectors—Smoke detectors shall be of the optical or ionization type. Devices shall be compatible with the CIE conforming to the requirements of UL/EN54 Part 7. The detectors shall have twin LEDs to indicate the device has operated and shall fit a common addressable base.

Heat detectors -

Heat detectors shall be of the fixed temperature (58°C) or rate of temperature rise type with a fixed temperature operating point.

Devices shall be compatible with the CIE conforming to the requirements of UL/EN54 Part 5 the detectors shall have a single LED to indicate the device has operated and shall fit a common addressable base.

All bases shall be compatible with the type of detector heads fitted and the control system component used. Each base shall comprise all necessary electronics including a short circuit isolator.

The device shall be automatically addressed by the CIE on power up of the loop without the need of the insertion of a pre-programmed EPROM or setting of DIL switches.

Detector bases shall fit on to an industry standard conduit box.

Addressable Manual Call points must also be provided

Control & Monitor module must be provided for integration with 3rd party systems.

Audible Alarms—

Electronic sounders shall be colored red with a djustable sound outputs and at least 3 sound signals. The sounders should be suitable for operation with a 24 VDC supply providing a sound output of atleast 100 dBA at 1meter and 75dBA min, for a bed head or sounder base type device. The sounder frequency shall be in the range of 500Hz to 1000Hz.

Commissioni
 ng

The fire detection and alarm system will be programmable and configurable via an alphanumeric keypad on the control panel.

Aspirating Smoke Detection System

This specifications covers the requirements of design, supply of materials, installation, testing and commissioning of Aspirating Smoke Detection System. The system shall include all equipment's, appliances and labour necessary to install the system, complete with high sensitive LASER – based Smoke Detectors with aspirators connected to network of sampling pipes.

Codes and standards

The entire installation shall be installed to comply one or more of the following codes and standards
 NFPA Standards, US

British Standards, BS5839 part:1

Approvals

All the equipment's shall be tested, approved by anyone or more:
 LPCB (Loss Prevention Certification Board), UK
 FM Approved for hazardous locations Class1, Div2
 UL (Underwriters Laboratories Inc.), U
 ULC (Underwriters Laboratories Canada), Canada
 Vds (Verband der Sachversicherer e.V), Germany

Design Requirements

The System shall consist of a high sensitive LASER-based smoke detector, aspirator, and filter.

It shall have a display featuring LEDs and Reset/Isolate button. The system shall be configured by a programmer that is either integral to the system, portable or PC based.

The system shall allow programming of:

- a) Multiple Smoke Threshold Alarm Levels.
- b) Time Delays.
- c) Faults including air flow, detector, power, filter block and network as well as an indication of the urgency of the fault.
- d) Configurable relay outputs for remote indication of alarm and fault Conditions.

It shall consist of an air sampling pipe network to transport air to the detection system, supported by calculations from a computer-based design modeling tool.

Optional equipment may include intelligent remote displays and/or a high level interface with the building fire alarm system, or a dedicated System Management graphics package.

Shall provide very early smoke detection and provide multiple output level corresponding to Alert, Action, and Fire 1 & 2. These levels shall be programmable and shall be able to set sensitivities ranging from 0.025-20% obscuration/meter.

Displays on the Detector Assembly

The detector will be provided with LED indicators.

Each Detector shall provide the following features: Alert, Alarm, Fire 1 and Fire 2 corresponding to the alarm thresholds of the detector/ Smoke Dial display represents the level of smoke present, Fault Indicator, Disabled indicator

Sampling Pipe

The pipe shall be identified as Aspirating Smoke Detector Pipe along its entire length at regular intervals not exceeding the manufacturer's recommendation or that of local codes and standards.

Installation

The Contractor shall install the system in accordance with the manufacturer's recommendation.

Where false ceilings are available, the sampling pipe shall be installed above the ceiling, and Capillary Sampling Points shall be installed on the ceiling and connected by means of a capillary tube.

Air Sampling Piping network shall be laid as per the approved pipe layout. Pipe work calculations shall be submitted with the proposed pipe layout design for approval.

The bidder shall submit computer generated software calculations for design of aspirating pipe network, on award of the contract.

Access Control System

The Access Control System shall be deployed with the objective of allowing entry and exit to and from the premises to authorized personnel only. The system deployed shall be based on Biometric Technology. An access control system consisting of a central PC, intelligent controllers, power supplies and all associated accessories is required to make a fully operational online access control system. Access control shall be provided for entry/exit doors. These doors shall be provided with electric locks, and shall operate on fail-safe principle. The lock shall remain unlocked in the event of a fire alarm or in the event of a power failure. The fire alarm supplier shall make potential free contacts available for releasing the locks in a fire condition specially for stair case and main doors. Entry to the restricted area shall be by showing proximity card near the reader and exit shall be using a push button installed in the secure area. The system shall monitor the status of the doors through magnetic reed contacts. The system should be designed and implemented to provide following functionality:

Controlled Entries to defined access points

Controlled exits from defined access points

Controlled entries and exits for visitors

Configurable system for user defined access policy for each access point

Record, report and archive each and every activity (permission granted and/or rejected) for each access point.

User defined reporting and log formats

Fail safe operation in case of no-power condition and abnormal condition such as fire, theft, intrusion, loss of access control, etc.

Day, Date, Time and duration based access rights should be user configurable for each access point and for each user.

One user can have different policy/access rights for different access points.

Rodent Repellent

The entry of Rodents and other unwanted pests shall be controlled using non-chemical, non-toxic devices. Ultrasonic pest repellents shall be provided in the false flooring and ceiling to repel the pests without killing them. However periodic pest control using Chemical spray can be done once in 3 months as a contingency measure to effectively fight the pest menace.

Configuration	Master console with necessary transducer
Operating Frequency	Above 20 KHz(Variable)
Sound Output	80dB to110dB (at 1 meter)
Power output	800m W per transducer
Power consumption	15W approximately
Power Supply	230V AC 50 Hz
Mounting	Wall/Table Mounting

ITEM NO. 16 (A – 61)

1. Name of the Project:

Request for Proposal for Selection of Concessionaire for Design, Development, Implementation, Operation and Maintenance of Digital Interactive Information Panels to connect digitally with the online services provided by various government bodies in lieu of advertisement rights in NDMC area on PPP model (Phase-II).

2. Name of the Department concerned:-

Civil Engineering Department (Zone-I)

3. Brief History of the Project:-

In this era of ultra-connectivity there is a growing demand for cities to become safer, more efficient and more innovative. There is a requirement to transform the urban landscape into hyper connected smartscapes that empower communications to fuel peoples neighbourhoods, communities and lives. To achieve this goal some of the developed countries like New York etc. have provided interactive information kiosk with various facilities:

- (a) Free WiFi to the public in a radius of 25m area.
- (b) Public Telephone facilities .
- (c) Interactive Touch Screen with Internet connectivity.
- (d) Mobile charging points
- (e) Large size digital display for displaying information for public and for advertisement.
- (f) Easy access of public to various govt. portals through interactive touch screen.
- (g) Tourist Information system through interactive touch screen.
- (h) Information regarding availability of trains, online status of railway reservation, information regarding various airlines, availability of tickets and reservation and cancellation etc.
- (i) Remote expert citizens services are delivered cost-effectively from these kiosks.
- (j) Emergency responders update citizens in real time about as evacuation through social media from any device.
- (k) Project the policies of modern governance, deliver more services for longer hours, closer to citizen locations.
- (l) Increase govt. citizen productivity.
- (m) Ensure greater transparency and consistency of services.
- (n) Easier and wider choice of access, less travel and waiting time.
- (o) Access to public services any time any where.

So, to meet the above objectives, RFP for phase-I consisting of 75 such units had been invited and the work is at stage of award. In this proposal NDMC is providing services to the public and also getting some revenue.

4. **Detailed proposal of the Project:-**

Now, to further extend the same it is, proposed to invite RFP for phase-II in two groups.

Group-A is for 75 Nos. such digital interactive information panels.

and

Group-B is for 96 units of 55" LED Screens in arch/corridor of CP for advertisement only.

RFP will be invited to engage a concessionaire who will design, provide, install and maintain these digital interactive information panels having following provision:-

- a. Free Wi-Fi to at least 25 users per location at a speed of 1 mbps.
- b. Kiosk should have dual screen (Kiosk should be accessible from both side)
- c. 1st display should be minimum 46" LCD/LED size for better display and support interactive communication, audio and video with touch screen facility.
- d. 2nd display of minimum size 75" LCD/LED or higher and it will play advertisement (Video) with non touch screen display.
- e. Both these panel should support full HD Resolution or better.
- f. Managed remotely by an advanced, web-based management portal.
- g. All-glass touch-screen with a transparent metallic conductive coating is preferred.
- h. LCD/LED Panels enclosure should be in a protective shell made of robust weatherproof material, it would be placed outdoor so it should survive adverse weather condition.
- i. The system will be equipped with sufficient tamper-proof mechanisms to ensure detection in case of physical tampering.
- j. Centrally managed and it should have enough provision for bandwidth to support all remote locations.
- k. To give NDMC a lump-sum monthly concession fee with minimum guaranteed revenue.

Specifications of the LED panels are placed as Annexure-1 (See pages 322 - 324).

5. **FINANCIAL IMPLICATIONS OF THE PROJECT:**

No financial implication. However, the concessionaire will share the revenue with NDMC

6. **IMPLEMENTATION SCHEDULE WITH TIMELINESS FOR EACH STAGE INCLUDING INTERNAL PROCESSING.**

To invite proposal and award the work : Three months
Implementation time : Six months

7. **FINAL COMMENTS OF THE FINANCE DEPARTMENT ON THE SUBJECT WITH DIARY NUMBER & DATE.**

Since it is only approval in principal no comments from finance required.

8. **LEGAL IMPLICATION OF HE SUBJECT/PROJECT:**

No legal implication

9. **DETAILS OF PREVIOUS COUNCIL RESOLUTIONS EXISTING LAW OF PARLIAMENT AND SSEMBLY ON THIS SUBJECT:**

10. **FINAL COMMENTS OF THE LAW DEPARTMENT ON THE SUBJECT/PROJECT:**

Not required.

11. **CERTIFICATION BY THE DEPARTMENT THAT ALL CENTRAL VIGILANCE COMMISSION (CVC) GUIDELINES HAVE BEEN FOLLOWED WHILE PROCESSING THE CASE.**

It is certified that all Central Vigilance Commission (CVC) guidelines will be followed while processing the case.

12. **RECOMMENDATIONS:**

The case is placed before the Council for accord of following;

- (a) Approval in principle to invite Proposal for Selection of Concessionaire for Design, Development, Implementation, Operation and Maintenance of

Digital Interactive Information Panels to connect digitally with the online services provided by various government bodies in lieu of advertisement rights in NDMC area on PPP model (Phase-II).

Group-A is for 75 Nos. such digital interactive information panel in NDMC area.

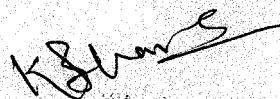
and
Group-B is for 96 units of 55" LED Screens in arch/corridor of CP for advertisement and information to public only.

- (b) Permission may be granted to take further action in anticipation of the confirmation of the minutes.

13. DRAFT RESOLUTION:

COUCIL'S DECISION

Deferred. The next Council meeting is scheduled at 09:30 a.m. on 06.03.2017.


For Secretary
New Delhi Municipal Council
Palika Mandra, New Delhi

Digital interactive information panels Body & Display Requirement

Model	Standard		Interactive /Touch Screen [46"]	Advt. Screen [75"]
Display Panel	Screen Size			
	Resolution		1920 x 1080	1920 x 1080
	Aspect Ratio		16 : 9	16 : 9
	Display Colors		16.7M	16.7M
	Brightness (cd/m ²)/(typ) minimum		2500	2,500
	Contrast Ratio		5000:1	5,000 : 1
	Response Time (ms, GTG)		6	6
	Viewing Angle (H°/V°)		178°/178°	178°/178°
	Life Time		50,000Hrs	50,000Hrs
	Operational Hours		24 X 7	24 X 7
	Temperature & Brightness Sensor		Yes	Yes
	Embedded player		Yes	Yes
	Built in speaker		10 +10 W	10 + 10 W
	Backlight type		LED/LCD	LED/LCD
	Response Time (ms)		8 ~ 10	N/A
	Touch Inputs		10 touches	N/A
	Touch Intensity		Permanent (protected by glass)	N/A
	Detection Method		PCT (Capacitive Touch)	N/A
	Palm Rejection		Yes	N/A
	Touch Resolution		4000X4000	N/A
	Touch Scan Rate		100 hz	N/A
	Glass Thickness		4 mm with Black border or higher	N/A
	Accuracy		>99%	N/A
	Chemical Resistance		yes	N/A
	Operating System support		Windows , Linux , Mac, Open Source	-
Connectivity&	Display Input	VGA (15pin D-Sub)	1	1

		HDMI	2	2
		DVI & DP	1	1
		USB & RJ45	1	1
		Wifi Embedded	Yes	Yes
		RS-232C	1	1
	Power Requirement	Operating Voltage	100 - 240VAC	100 - 240VAC
		Display Consumption (typ)	400	940
	Digital information panels Auto Cooling System		Yes	Yes
	PIR Sensor (Motion detection)		Optional	Optional
	Illuminance Sensor(Auto Brightness)		Yes	Yes
Environmental conditions	Temperature operational (°C)		0°C ~ 50°C	0°C ~ 50°C
	Humidity (non-condensing) (%)		20 - 80	20 - 80

Certification required:

- (i) The product should have ULL, CE certification
- (ii) BIS certification for the LCD/LED panels, if applicable

Advertisement and information panels for C.P

Model	Standard		
Display Panel	Screen Size		Advt. Screen [55"]
	Resolution		1920 x 1080
	Aspect Ratio		16 : 9
	Display Colors		16.7M
	Brightness (cd/m ²)/(typ) minimum		2,500
	Contrast Ratio		5,000 : 1
	Response Time (ms, GTG)		6
	Viewing Angle (H°/V°)		178°/178°
	Life Time		50,000Hrs
	Operational Hours		24 X 7
	Temperature & Brightness Sensor		Yes
	Embedded player		Yes
	Built in speaker		10 + 10 W
	Backlight type		LED/LCD
	Response Time (ms)		N/A
	Operating System support		-
	Connectivity& Control	Display Input	VGA (15pin D-Sub)
HDMI			2
DVI & DP			1
USB & RJ45			1
Wifi Embedded			Yes
RS-232C			1
Power		Operating Voltage	100 - 240VAC
		Requirement	Display Consumption (typ)
Digital information panels Auto Cooling System		Yes	
PIR Sensor (Motion detection)		Optional	
Illuminance Sensor(Auto Brightness)		Yes	
Environmental conditions	Temperature operational (°C)		0°C ~ 50°C
	Humidity (non-condensing) (%)		20 - 80

Certification required:

- (i) The product should have ULL, CE certification
- (ii) BIS certification for the LCD/LED panels, if applicable

Copy of Reso. No. 17 (A-62)
of
Council Ordinary Meeting
dated 02-08-2017

ITEM NO. 17 (A-62)

1. Name of the Subject/Project

Name of the Work: RFP for installation and operation of Public Bicycle Sharing system (PBS) in NDMC Area.

2. Name of the Department/Departments concerned

Civil Engineering Department

3. Brief History of the Subject:-

Request for Proposals (RFP) is to be prepared to install and operate the Public Bicycle Sharing System in NDMC. The RFP will be a detailed document with specifies terms and conditions on which the bidder is expected to work. These terms and conditions will be designed keeping in view the overall aim and objectives of the Public Bicycle Sharing System in NDMC.

The detailed information will be provided in the RFP is to assist the bidder(s) for preparing their proposals. However the information will not be intended to be exhaustive, and interested parties are expected to make their own inquiries to supplement information in this document. The bidder is advised to consider the RFP as per its understanding and capacity. The bidders will also be advised to do appropriate examination, enquiry and scrutiny of all aspects mentioned in the RFP before bidding. Bidders will encourage to take professional help of experts on financial, legal, technical, taxation, and any other matters / sectors appearing in the document or specified work. In phase I the important Metro Station, office complex, Markets and tourist places are to be linked through cycle track route and cycle will be taken from any station and will be deposited at any station. This will benefit for small distance commuter in large and benefit to environmental. The following cycle routes and stations are shortlisted for inviting the RFP in Phase I

Cycle Track Route and Cycle Stations

First Phase

S.No	Metro Station	Road Covered	Road Distance	Cycle Stations	
				No.	Location at Important / Heritage Buildings, Tourist Destination, Market / Residential Colony / Metro Stations
1.	Mandi House	Sikandara Road	400	2	• Metro Station both side
		Tilak Marg	1250	2	• Police Station • BQS
		C Hexagon	2000		Via NGM Art
		Shershah Suri Marg	600	3	• National Modern Art

					Museum • Children Park, Gate No. 2 • Children Park, Gate No. 1
		K G Marg	2000	4	• Bhartiya Vidya Bhawan • Max Muller Bhawan • British Council • Scindhia House
		Bhagwan Dass Road	1000	3	• BQS Aga Khan Hall both side • Lawyers chamber's parking Supreme Court
		Dr Z. Hussain Marg	1600	2	• BQS Golf Club both side
		Shahjahan Road	900		Via UPSC
2.	Barakhamba Road	Barakhamba Road	1250	2	• Barakhamba Metro Station both side
		Tansen Road	350	1	• Bengali Market
3.	Rajiv Chowk	Inner Circle	800	2	• A Block Parking • F Block Parking
		Outer Circle	1800		
4.	Shivaji Stadium	Baba Kharak Singh marg	2200	2	• Metro Station • Emporium Parking KVIC (opp. Rivoli)
		Jai Singh Road	1200	1	• YMCA Parking
		Bhai Veer Singh Marg	700	1	• Post Office, near furniture market
5	Jor Bagh	Aurbindo Marg	1800	2	• Jor Bagh Metro Station, both side
		Lodhi Road	1200	2	• Lodi Garden, Gate No.1 • BQS, Dayal Singh College, Maharishi Raman marg
6	Khan Market	Humayun Road	600	2	• Metro Station, • Khan Market Parking opp. Lok Nayak Bhawan
		Subramaniam Bharti marg	2000	2	• Lodi garden, Gate no. 4 • Kaka Nagar Xing
		Max Muller Marg	900	1	• BQS India International Center
7	INA	Aurbindo marg		1	• INA Metro Station (Dilli Haat)
8	AIIMS	Aurbindo Marg			
	Total		24550	35	

Cycle Stations At Near By Area in SDMC at Metro Stations and Tourist Destination

S.No	Location	No. of Stations
1	Pragati Maidan, Metro Station	1
2	JLN Stadium, Metro Station	1
3	NSCI Club	1
4	Purana quila	1
5	Humayun Tomb	1
	Total	5

Total Cycle Station proposed 50 Nos. and the road stretch / length is about 24.5 KM.

Total Metro Station present in NDMC area are : 15 Nos.

Considered in First Phase : 8 Nos.

Metro Station nearby area of NDMC are : 5 Nos. in SDMC and considered in first phase 2 Nos

Second Phase

Other Metro Station in NDMC Area to be taken in Second Phase

S.No	Location
1	R K Ashram Marg
2	Patel Chowk
3	Central Secretariat
4	Udyog Bhawan
5	Lok Kalyan Marg
6	Janpath
7	Sarojini Nagar

Cycle Stations Near By Area in SDMC to be taken up in IInd Phase

S.No	Location
1	Bhikaji Complex (Metro)
2	Moti bagh (Metro)
3	New Delhi Railway Station
4	Atma Ram College (Metro)
5	National Craft Museum
6	Zoo

After considering all the fifteen metro stations in NDMC area and the nearby important destinations / tourist place / metro stations / markets / residential area etc. the expected cycle stand shall be around 120 nos. and the road length / corridor for cycle track will be around 80 kms.

Cycle track route/ cycle station are proposed to be placed in operation initially under in Phase-I at busiest Metro stations and to link with important destination/office complexes as per the above.

After completion of Phase-I, all metro station/shopping/office complex, heritage building and important tourist destination will be covered across entire NDMC area.

Financial Sustainability for the project can be meet out either through revenue generation such as Advertisement/Penals/CSR funding/Sponsor Ship etc. or the viable gap funding to be carried by the Local Body, as being done by other some cities, since fair collection is not sufficient to meet out even O & M.

The Project Period shall be 10 Years.

Gap funding shall be calculated on receipt of RFP & thereafter evaluation of technical bids submitted by bidders. The portion of viable gap funding shall be predetermined in RFP and stringent SLA will be enforced with penalty clause.

In view of above, the case is being submitted for accord of Approval in Principle by the Council. for preparing and inviting the RFP for the project..

4. Detailed Proposal on the Subject/Project

Cycle track route/ cycle station are proposed to be placed in operation initially under in Phase-I at bossiest Metro stations and to link with important destination/office complexes as per detailed above.

Financial Sustainability for the project can be meet out either through revenue generation such as Advertisement/Penals/CSR funding/Sponsor Ship etc. or the viable gap funding to be carried by the Local Body, as being done by other some cities, since fair collection is not sufficient to meet out even O & M.

The Project Period shall be 10 Years.

Gap funding shall be calculated on receipt of RFP & thereafter evaluation of technical bids submitted by bidders. The portion of viable gap funding shall be predetermined in RFP and stringent SLA will be enforced with penalty clause.

In view of above, the case is being submitted for accord of Approval in Principle by the Council. for preparing and inviting the RFP for the project

5. Finance Implications of the Proposed Proposal.

There shall be gap funding arrangement based on the evaluation of technical bid submitted by the bidders.

6. Implementation schedule with timeliness of each stage including internal processing.

RPF invitation	:	31 st March 2017
Evaluation and finalization	:	30 th June 2017
Start of COD	:	1 st August 2017
Concession period	:	10 Years7.

7. Comments of the Finance Department on the Subject.

8. Comments of the Department on comments of Finance Department.

9. Final views of Finance Department.

10. Legal Implication of the subject/Project.

11. Details of Previous Council Resolutions existing law of parliament and Assembly on the subject.

12. Comments of the Law Deptt.

13. Comments of the Department on the comments of Law Department.

14. Final view of Law Department.15. Certify that all Central Vigilance Commissions guidelines have been followed while processing the case.

Certified that all CVC guidelines have been followed.

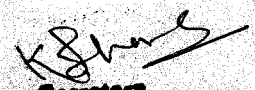
16. Recommendations

It is recommended to accord of Approval In Principle by Council to invite RFP for 1st Phase of PBS system in NDMC area for 10 years period alongwith operation and maintenance by the successful bidder.

The gap funding shall be calculated on receipt of RFP & thereafter evaluation of technical bids submitted by bidders. The portion of viable gap funding shall be predetermined in RFP and stringent SLA will be enforced with penalty clause.

COUNCIL DECISION

Deferred. The next Council meeting is scheduled at 09:30 a.m. on 06.03.2017.


 Secy Secretary
 New Delhi Municipal Council
 Patna Kendra, New Delhi

ITEM NO. 18 (A-63)

1. **Name of the Subject/Project:**
Subject: S/R of roads in NDMC area
SH:- Resurfacing of Outer Circle, Inner Circle & Radials of Connaught Place Area
2. **Name of the Department:**
Civil Engineering Department, RIP- Division.
3. **Brief History of the Project:**
 - (a) The outer Circus, Inner Circus and Radial roads were earlier resurfaced in year 2010 at the time of Common Wealth games. Due to the deteriorated condition of the existing surface of these roads CRRI was appointed for evaluation to improve the riding quality of these roads.
 - (b) After inspection and detailed examination, CRRI recommended to provide one layer of 50mm and 40mm bituminous concrete on outer circus and inner circus after milling of existing surface, 50mm to 40mm respectively along with laying of 40mm bituminous concrete on Radial Roads in Connaught Place.
 - (c) Approval has been given by Chairman, NDMC for processing the estimate based on CRRI recommendation.
 - (d) Council members has visited the sites and approved to improve the riding quality of the roads.
 - (e) Preliminary Estimate amounting to ₹2,81,06,600/- has been checked by Planning based on DSR 2016 + 3% contingency + EPF & ESI.
4. **Detailed proposal on the subject/project**
 - (i) 50/40mm Cold milling of Bituminous Surface.
 - (ii) Tack coat with bitumen emulsion RS type @ 0.25Kg per sqm.
 - (iii) P/L 40/50mm bituminous Concrete with PMB-40.
 - (iv) Providing and applying 2.5mm thick road marking (Retro Reflective) thermoplastic paint.
5. **Financial Implication of the proposal subject/Project.**
The Financial implication of the scheme works out to ₹2,81,06,600/-.
6. **Implementation schedule with time limits for such stage including internal processing.**
The schedule period of completion is Six Months after award of work.
7. **Final Comments of the Finance Department on the subject with dairy No. and date**
Finance Deptt. vide diary No343/Finance/R-Civil dated 21.02.2017 has concurred as follows:-
 - (i) The proposal of the department is for resurfacing of roads of outer circle, inner circle & radials of Connaught Place area.

- (ii) With the approval of Chairman on 31.12.2015, CRRl was appointed consultant for evaluation of roads of Connaught Place area.
- (iii) Council members has visited the sites and approved to improve the riding quality of the roads. Approval of the Council members has been placed in the file.
- (iv) Approval has been given by Chairman, NDMC for processing the estimate based on CRRl recommendation.
- (v) Preliminary Estimate has been prepared for ₹ 2,81,06,600/- stated that estimate has been prepared as per recommendation of the CRRl. The estimate has been checked by Planning Division.
- (vi) In view of recommendation of the CE(C-I), Department may process its PE amounting to ₹ 2,81,06,600/- (Rupees Two Crore Eighty one Lakh and Six Thousand six hundred only) duly checked by Planning Division for consideration and approval of the Council. However, Department may (i) ensure availability of funds under the proposed COA 21-412-40-0 before incurring any liability (ii) Sub A/R for working out rates of cost of milling in item No.1 be also placed on record (iii) as there is also a proposal for pedestrianization of Connaught Place is under consideration. The Department may also see whether the proposed work is required in the entire area taken in the estimate or any other kind of work is to be done on the area falling under worked out accordingly and placed for A/A & E/S.

In this regard, it is assured that :-

- (i) Work will be executed after availability of funds under the proposed CoA 21-412-40-0.
- (ii) A/R for working out rates of cost of milling in item No.1 has been prepared on prevailing market rates.
- (iii) The proposal of pedestrianization of Connaught Place will not affect the requirement of above subject work because resurfacing work is required on outer, inner circle and radial being existing surface has outlived its life.

8. **Legal implication of the subject / project.**
N.A.

9. **Details of previous Council Resolutions, existing Law of Parliament and Assembly on the subject.**
N.A.

10. **Final comments of law Department on the subject / project.**
N.A.

11. **Certification by the Department that all Central Vigilance Commission (CVC) guidelines have been followed while processing the case.**
Certified that all CVC guidelines have been followed.

12. **Recommendations**

The case is placed before the Council for:-

- (i) Consideration and accord of Administrative Approval and Expenditure Sanction of ₹2,81,06,600/- for the work of "Resurfacing of Outer Circle, Inner Circle & Radials of Connaught Place Area."

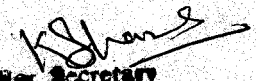
13. Draft Resolution

It has been resolved by the Council that

- (i) Consideration and accord of Administrative Approval and Expenditure Sanction of ₹2,81,06,600/- for the work of "Resurfacing of Outer Circle, Inner Circle & Radials of Connaught Place Area" has been accorded.

COUNCIL'S DECISION

Deferred. The next Council meeting is scheduled at 09:30 a.m. on 06.03.2017.


For Secretary
New Delhi Municipal Council
Palika Kendra New Delhi

ITEM NO. 19 (A-64)**1. NAME OF THE SUBJECT/PROJECT:**

Construction of Underground Multilevel Car Parking at Khan Market, New Delhi.

2. NAME OF THE DEPARTMENT/DEPARTMENTS CONCERNED:

CIVIL ENGINEERING DEPARTMENT -II, NDMC

3. BRIEF HISTORY OF THE SUBJECT/PROJECT:

The land for multilevel car parking was allotted to NDMC on the basis of proposed redevelopment plan prepared by NDMC. As per the redevelopment plan submitted by NDMC, the road width of the roads was shown on 20M of ER-1, 23 M of PR-4 & 23 M of PR-2. After joint survey carried out by L&DO and NDMC, it was revealed that the proposed road shown as ER-1= 20M is not feasible at the moment as on one side the land from the market area will have to be resumed and on other side the land from the campus of Govt. Qtrs of Ravinder Nagar will have to be taken which is also not feasible. Therefore, it was decided that the total land measuring 5408 sq. mtr. available at the side may be handed over to NDMC on "as is where is basis". It was also decided to exclude the land measuring 385 sq yards occupied by the Empire Coal Co. Thus, the net area to be handed over to NDMC was worked out as 5086.11 sqm (5408 sq. mtr. - 321.89 sq. mtr) on "as is where is basis".

After approval of competent authority, the possession of land measuring 5408sqm - 321.89sqm = 5086.11sqm (excluding the area 385sq.yds or 321.89 sqm occupied by Empire Coal Co.) was taken over from L&DO for the Construction of multi level car parking in Khan Market, New Delhi "on the basis of as is where is basis" on dated 24.08.16. It was also decided that initially to start using as surface car parking till the construction of underground multilevel car parking. There was an old and deteriorated structure existed in the plot allotted to NDMC and it was decided that the said old and deteriorated structure be demolished for using the plot as surface car parking so that obstructions to use whole plot as surface parking is being eased out. Now the surface car parking has been started after demolishing of the old existing structure.

4. DETAILED PROPOSAL ON THE SUBJECT/PROJECT:

The proposal of construction of underground multilevel car parking is being taken up in-house to ease out all the parking problems being faced in the area. For construction of underground multilevel car parking necessary architectural drawings have been prepared by the Chief Architect Department.

Accordingly, a preliminary estimate amounting to Rs.36,97,98,300/- has been worked out on the basis of PAR as on 01.10.2012 + 3% contingency circulated vide

CPWD No.62/SE(TAS)/Plinth Area Rates/ 399 dated 24.12.2012 and Cost Index as 107 over PAR as on 01.10.2012 base 100 circulated by CPWD vide No.DG/Cost Index/02 dated 15.12.2014 duly checked by the Planning Division.

5. FINANCIAL IMPLICATIONS OF THE PROPOSED PROJECT/SUBJECT:

The preliminary estimate amounting to Rs.36,97,98,300/- has been worked out on the basis of PAR as on 01.10.2012 + 3% contingency circulated vide CPWD No.62/SE(TAS)/Plinth Area Rates/ 399 dated 24.12.2012 and Cost Index as 107 over PAR as on 01.10.2012 base 100 circulated by CPWD vide No.DG/Cost Index/02 dated 15.12.2014 duly checked by the Planning Division.

6. IMPLEMENTATION SCHEDULE WITH TIMELINESS FOR EACH STAGE INCLUDING INTERNAL PROCESSING

Time for completion of the Project is 3 Years after award of the work.

7. FINAL COMMENTS OF THE FINANCE DEPARTMENT ON THE SUBJECT WITH DIARY NO. & DATE.

Finance Department concurred the proposal vide their Diary No.402/Finance/R-Civil dated 27.02.2017 that

1. "P.E. amounting to Rs.36,97,98,300/- based on PAR 2012 plus 4% cost index and 3% contingency in r/o construction of underground multilevel car parking at Khan Market has been prepared for accord of A/A -E/S of Competent Authority, i.e., Council.
2. Hon'ble High Court in LPA 565/2011 directed L&DO to process allotment of land for MLP at Khan Market and accordingly allotment of land was offered to NDMC (NP-6).
3. A plot of land measuring 5086.11 sq. mtr was taken over by NDMC from L&DO on 'as is where is' basis. This was exclusive of land measuring 385 sq. yards (or 321.89 sq mtr) occupied by Ms. Empire Coil Company (NP-31).
4. Council vide Resolution No. 17(W-01) dated 10.01.2014 accorded approval to payment of Rs.14,77,05,656/- (NP-8) to L&DO as cost of the land.
5. Architect Department has brought out the land use as 'Commercial' under table 5.4 (iv) Community Centre in MPD 2021. Further, the plot is allotted for multilevel car parking, no FAR would be available to NDMC and the upper part of the plot would be used for land scaping and maintained as green as per clause (xiii) of allotment letter dated 04.03.2013 issued by L&DO (NP-32 & 44). Regarding directions of Chairperson at page 32/N to "approach L&DO to allow NDMC to use FAR for commercial purpose to make it financially viable", Department has stated that in view of letter of L&DO dated 04.03.2013 NDMC has not approached L&DO till now.
6. Council accorded conceptual approval to construction of underground multilevel car parking at Khan Market and demolition of old existing structure in the plot allotted to NDMC and using the same for surface car parking till the construction of underground multilevel car parking is matured vide item No. 04(A-44) dated 30.11.2016 (NP-37/38 and copy placed opp. File).
7. Architectural drawing have been prepared and based on the same, P.E. has been prepared (NP-39 and page 14-22/C).
8. The Department has ensured that (i) individual components do not include any overheads including contingency and (ii) percentage of various components has been considered appropriately as per Manual provisions.

9. It has been certified that (i) the estimate and provisions there under are not inflated and (ii) estimate is based on actual requirement.
10. Detailed Project Report has been prepared and placed opposite file. It is brought out that the proposal is in r/o 4 level basement car parking with 74 ECS on each level, i.e., total 296 ECS in covered area of 2889.47 sq. mtr on each level by taking provision for toilets, passenger lifts, stairs, car ramps, electric room, guard house and gazebo hut, green area, landscaping at ground floor etc.
11. The expenditure is proposed to be charged to 21-412-40 with the Head 62/1 wherein token budget of Rs.5 lakh has been provided for FY 2017-18.
12. Planning has examined the proposal at NP-41.
13. The Department may submit P.E. amounting to Rs.36,97,98,300/- as recommended by Chief Engineer for consideration of Competent Authority, i.e., Council".

8. LEGAL IMPLICATION OF THE SUBJECT/PROJECT:

-NIL-

9. DETAILS OF PREVIOUS COUNCIL RESOLUTION, EXISTING LAW OF PARLIAMENT AND ASSEMBLY ON THE SUBJECT:

Conceptual approval for Construction of underground multilevel car parking at Khan Market, New Delhi vides Reso. No. 04 (A-44) dated 30.11.2016.

10. FINAL COMMENTS OF THE LAW DEPARTMENT ON THE SUBJECT/PROJECT.

No legal issue involved. The Dept. may ensure the correctness of facts and figures.

11. CERTIFICATION BY THE DEPARTMENT THAT ALL CENTRAL VIGILANCE COMMISSION (CVC) GUIDELINES HAVE BEEN FOLLOWED WHILE PROJECTING THE CASE

Certified that necessary guidelines of CVC have been followed while processing the case.

12. RECOMMENDATION

(i) Resolved by the Council that A/A & E/S of the preliminary estimate amounting to Rs.36,97,98,300/- for "Construction of underground multilevel car parking at Khan Market".

(ii) Further resolved by the Council that subsequent action be taken in anticipation of confirmation of the minutes of the Council.

13. Draft Resolution

(i) Resolved by the Council that A/A & E/S of the preliminary estimate amounting to Rs.36,97,98,300/- for "Construction of underground multilevel car parking at Khan Market".

(ii) Further resolved by the Council that subsequent action be taken in anticipation of confirmation of the minutes of the Council.

COUNCIL'S DECISION

Deferred. The next Council meeting is scheduled at 09:30 a.m. on 06.03.2017.


Secretary
 New Delhi Municipal Council
 Palika Kendra New Delhi

ITEM NO.20 (A-65)

Copy of Res. No. 20 (A-65)
 of
 Council Ordinary Meeting
 Dated 02-03-2017

1. **NAME OF THE SUBJECT/PROJECT:**
Purchase/work of Stainless Steel Items for Smart City Project from Steel Authority of India (SAIL).
2. **NAME OF THE DEPARTMENT/DEPARTMENTS CONCERNED:**
CIVIL ENGINEERING DEPARTMENT -II, NDMC

3. **BRIEF HISTORY OF THE SUBJECT/PROJECT:**

Govt. of India selected the NDMC for development of New Delhi Municipal Council area as Smart City. Accordingly, it has been decided by the competent authority that to give the NDMC area an aesthetic look products of stainless steels such as Steel Furniture, Security/ Information Kiosk, Smart multipurpose benches, solar tree, bollards, Kiosk for Delhi Police with interactive panels, litterbins in NDMC buildings etc. be provided/ installed at the various places under NDMC area.

4. **DETAILED PROPOSAL ON THE SUBJECT/PROJECT:**

The proposal is for providing/ installation of different stainless steel items at the NDMC area depending upon the availability of space/ surrounding atmosphere for which different grade of stainless steel required to be placed. The Steel Authority of India (SAIL) is a Govt. Enterprises and is one of the best government enterprises in steel sector including specialization in Stainless Steel products having their own plants at Salem, Tamilnadu. An e-mail along with attachment of their products/ work was received from Sh. M. Ramada, DGM (Mktg) SRM (SS) & Retail, SAIL CMO SRM Office sharing few recent additions they have created in terms of aesthetic usages in stainless steel for bringing in refreshing changes in the city landscape and further stated that they looked forward to working close in transforming NDMC concepts and ideas into reality. In view of their vast experience in the steel field, it has been decided the following products be procured and installed from the SAIL:-

1. Steel Furniture,
2. Security/ Information Kiosk,
3. Smart multipurpose benches,
4. Solar tree,
5. Bollards,
6. Kiosk for Delhi Police with interactive panels,
7. Litterbins in NDMC buildings etc.

Further, SAIL will provide above stainless steel items depending upon the grade of steel along with fabrication, design etc. A MOU will be made between NDMC and SAIL which will be duly vetted by Finance as well as Law Department of NDMC. The products/ work will be executed under the relevant rules of 126 & 154 of GFR.

5. FINANCIAL IMPLICATIONS OF THE PROPOSED PROJECT/SUBJECT:

Initially cost is Rs.3.00 crore under the head of account of NDMC's Smart City Project.

6. IMPLEMENTATION SCHEDULE WITH TIMELINESS FOR EACH STAGE INCLUDING INTERNAL PROCESSING

Time for completion of the Project is 1 Year after award of the work.

7. FINAL COMMENTS OF THE FINANCE DEPARTMENT ON THE SUBJECT WITH DIARY NO. & DATE.

8. LEGAL IMPLICATION OF THE SUBJECT/PROJECT:

9. DETAILS OF PREVIOUS COUNCIL RESOLUTION, EXISTING LAW OF PARLIAMENT AND ASSEMBLY ON THE SUBJECT:

NIL

10. FINAL COMMENTS OF THE LAW DEPARTMENT ON THE SUBJECT/PROJECT.

11. CERTIFICATION BY THE DEPARTMENT THAT ALL CENTRAL VIGILANCE COMMISSION (CVC) GUIDELINES HAVE BEEN FOLLOWED WHILE PROJECTING THE CASE

Certified that necessary guidelines of CVC have been followed while processing the case.

12. RECOMMENDATION

(i) Resolved by the Council that products such as Steel Furniture, Security/ Information Kiosk, Smart multipurpose benches, solar tree, bollards, Kiosk for Delhi Police with interactive panels, litterbins in NDMC buildings etc. initially amounting to Rs.3.00 Crore be procured and installed as per design approved by NDMC at the various places under NDMC area from the Govt. Undertaking i.e. M/s. Steel Authority of India (SAIL) by creating a MOU. The products/ work will be executed under the relevant rules of 126 & 154 of GFR.

(ii) Further resolved by the Council that subsequent action be taken in anticipation of confirmation of the minutes of the Council.

13. Draft Resolution

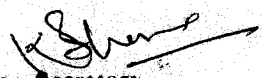
(i) Resolved by the Council that products such as Steel Furniture, Security/ Information Kiosk, Smart multipurpose benches, solar tree, bollards, Kiosk for Delhi Police with interactive panels, litterbins in NDMC buildings etc. initially amounting to Rs.3.00 Crore be procured and installed as per design approved by NDMC at the various places under NDMC area from the Govt. Undertaking i.e. M/s. Steel Authority of India (SAIL) by

creating a MOU. The products/ work will be executed under the relevant rules of 126 & 154 of GFR.

(ii) Further resolved by the Council that subsequent action be taken in anticipation of confirmation of the minutes of the Council.

COUNCIL'S DECISION

Deferred. The next Council meeting is scheduled at 09:30 a.m. on 06.03.2017.


Secy Secretary
New Delhi Municipal Council
Pancha Kendra, New Delhi

ITEM NO.21 (C-31)

1. Name of the subject/Project
Annual Administrative Report for the year 2015-16
2. Name of the department/departments concerned
Co-ordination Department
3. Brief history of the subject/project:

As per Section 410 of NDMC Act, 1994 a detailed report of the Municipal Govt. of New Delhi is required to be sent to the Central Government :

"Annual Administration Report"

- (1) As soon as may be after the first day of April in every year and not later than such date as may be fixed by the Central Government in this behalf, the Council shall submit to that Government a detailed report of the Municipal Government of New Delhi during the preceding year in such form as that Government may direct.
- (2) The Chairperson shall prepare such report and the Council shall consider it and forward the same to the Central Government with its resolution thereon, if any.

As the Central Govt. has not prescribed any format for the AAR, or the content, the Annual Administrative Report used to be sent in the form of a letter alongwith inputs provided by the different departments without any formatting. Since 2007-08, the report is compiled in the format approved by the Chairman, NDMC.

4. Detailed proposal on the subject/project

The Annual Administrative Report for 2015-16 has been prepared keeping in view the specific requirements of Section 410 of the NDMC Act. The proposed report contains the achievements of 2015-16 and projections for 2015-16 alongwith photographs of important projects/events. The report contains XXX chapters and is of 148 pages.

The Annual Administrative Report for the year 2015-16 was placed before the Council on 16.1.2017. The Agenda Note is at Annex-1 (See pages 341 - 342) . As per the minutes, the decision taken by the Council on this agenda item is "The Council resolved to discuss the Annual Administrative Report for the year 2015-16 in its next meeting".

5. Recommendation:

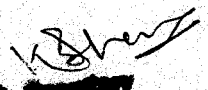
As per the requirement of Section 410(2) of the Act, the said report is placed for consideration of the Council and approval for forwarding the same to the Central Govt.

6. Draft Resolution

Resolved by the Council that the Annual Administrative Report for the year 2015-16 is approved and the same may be forwarded to the Central Govt.

COUNCIL'S DECISION

Deferred. The next Council meeting is scheduled at 09:30 a.m. on 06.03.2017.


Secretary
New Delhi Municipal Council
Palika Kendra, New Delhi

ITEM NO. 21 (C-27) DATED 16.01.2017

1. Name of the subject/Project
Annual Administrative Report for the year 2015-16

2. Name of the department/departments concerned
Co-ordination Department

3. Brief history of the subject/project:

As per Section 410 of NDMC Act, 1994 a detailed report of the Municipal Govt. of New Delhi is required to be sent to the Central Government :

"Annual Administration Report"

- (3) As soon as may be after the first day of April in every year and not later than such date as may be fixed by the Central Government in this behalf, the Council shall submit to that Government a detailed report of the Municipal Government of New Delhi during the preceding year in such form as that Government may direct.

- (4) The Chairperson shall prepare such report and the Council shall consider it and forward the same to the Central Government with its resolution thereon, if any.

As the Central Govt. has not prescribed any format for the AAR, or the content, the Annual Administrative Report used to be sent in the form of a letter alongwith inputs provided by the different departments without any formatting. Since 2007-08, the report is compiled in the format approved by the Chairman, NDMC.

4. Detailed proposal on the subject/project

The Annual Administrative Report for 2015-16 has been prepared keeping in view the specific requirements of Section 410 of the NDMC Act. The proposed report contains the achievements of 2015-16 and projections for 2015-16 alongwith photographs of important projects/events. The report contains XXX chapters and is of 148 pages. (Report placed before the Council in its meeting dated 16.01.2017.)

5. Financial implications of the proposed project/subject:

Nil

6. Implementation schedule with timeliness for each stage including internal processing:

Not Applicable.

7. Comments of the Finance Department on the subject with diary no. & date:

Finance Department is of the view that the Draft Agendum, as prepared by the Department appears to be in order. (Dairy No.2301/Finance/R-Secy. dated 29.12.2016.

8. Comments of the department on comments of Finance Department

Not Applicable.

9. Final views of the Finance Department (if any).

Not Applicable.

10. Legal implications of the subject/project

Not Applicable.

11. Detail of previous Council Resolutions, existing law of Parliament and Assembly on the subject:

Annual Administrative Report of NDMC for the preceding year i.e. 2014-15 was approved by the Council vide Reso. No.02 (C-18) dated 28.10.2015.

12. Comments of the Law department on the subject/project

This is a statutory requirement.

13. Comments of the Department on the comments of Law Department

Not Applicable.

14. Final views of the Law Department (if any).

Not Applicable.

15. Certification by the Department that all Central Vigilance Commission (CVC) guidelines have been followed while processing the case

Not Applicable.

16. Recommendation:

As per the requirement of Section 410(2) of the Act, the said report is placed for consideration of the Council and approval for forwarding the same to the Central Govt.

17. Draft Resolution

Resolved by the Council that the Annual Administrative Report for the year 2015-16 is approved and the same may be forwarded to the Central Govt.

Copy of Res. No. 22(C-32)
of
Council Ordinary Meeting
Dated 02-03-2017

ITEM NO. 22(C-32)

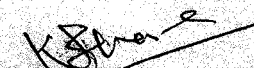
CONTRACTS/SCHEMES INVOLVING AN EXPENDITURE OF RS. 1 LAC BUT NOT EXCEEDING RS. 200 LACS.

Section 143 (d) of NDMC Act, 1994 provides that every contract involving an expenditure of Rs.1 lac but not exceeding Rs.200 lacs under clause 143 (c) shall be reported to the Council. In pursuance of these provisions, a list of contracts entered/executed upto January, 2017, have been prepared.

A list of the contracts, entered into for the various schemes, is accordingly laid before the Council for information. (See pages 344 - 352).

COUNCIL'S DECISION

Deferred. The next Council meeting is scheduled at 09:30 a.m. on 06.03.2017.


Secretary
New Delhi Municipal Council
Rajiv Gandhi Park, New Delhi

**LIST OF CONTRACTS / SCHEMES INVOLVING AN EXPENDITURE OF RS. 1.00 LAC
BUT NOT EXCEEDING RS. 200.00 LAC DURING JANUARY 2017**

SL. NO.	DIVISIONAL ZONE	NAME OF WORK	DATE OF AWARD	CONTRACTING AGENCY	STIPULATED DATE OF START	AWARDED COST	TARGET DATE OF COMPLETION	%AGE OF PHYSICAL PROGRESS	REMARKS
1	CE(C-II)/BM-I	A/R & M/O Building in BM-I Division during 2016-17 SH: Running operation/ maintenance of pump at Palika Dham Housing Complex	10.01.17	M/s R.K. Jain & Sons HSPL	07.01.17	4.39	06.11.17	10%	
2	CE(C-II)/BM-I	Improvement to staff quarters at Compost Plant, Okhla	10.01.17	Sh. Vijay Tyagi	12.01.17	9.96	11.04.17	10%	
3	CE(C-II)/BM-I	Imp. to N.P. Bengali Girls Sr. Sec. School, Gole Market SH: Providing and fixing fencing around the playground of N.P. Bengali Girls Sr. Sec. School, Gole Market	11.01.17	Sh. Bipin Kumar	13.01.17	11.47	12.04.17	50%	
4	CE(C-II)/BM-I	Imp. to Type-I Staff Housing Complex SH: Providing and fixing of enclosure/ safety cage for lift panels electric panels, kerb stone and other civil improvement works at Babu Dham Residential Complex, Chanakya Puri	11.01.17	Sh. Bishwajeet Kundan	14.01.17	5.44	13.03.17	-	Yet to be started
5	CE(C-II)/BM-I	A/R & M/O Buildings in BM-I Division during 2016-17 SH: Distemper and painting of Palika Vas Housing Complex at R.K. Ashram Marg, New Delhi	11.01.17	M/s Pushkar Const.	13.01.17	2.60	12.05.17	10%	
6	CE(C-II)/BM-I	Imp. to Housing Complex, Harijan Basti, Mandir Marg SH: Construction of toilet block in Babu Avas Valmiki Mandir at Valmiki Basti, Mandir Marg	30.01.17	M/s A.K. Promoters	24.01.17	6.65	23.03.17	-	Yet to be started.
7	CE(C-II)/BM-II	Improvement to Charak Palika Hospital Moti Bagh SH: Construction of C.T.M.R.I. at CPH Moti Bagh	12.01.17	M/s A.R. Const.	18.01.17	4.03	17.02.17	-	Work not started.
8	CE(C-II)/BM-II	Improvement to Palika Health Complex SH: Supplying Compactor, Cabinets Aluminium ladders, furniture etc. at Palika Health Complex, Dharam Marg	17.01.17	M/s DUACO Equipments Pvt. Ltd.	19.12.16	1.23	18.01.17	-	Work yet to be started.
9	CE(C-II)/BM-II	Providing playing equipment in school building and parts under the jurisdiction of BM-II division against MLA LAD fund	24.01.17	M/s Pushkar Const.	18.01.17	16.15	17.03.17	-	Work not started
10	CE(C-II)/BM-II	A/R & M/O Building in BM-II Division during 2016-17 SH: Face lifting of Charak Palika Hospital, Moti Bagh	25.01.17	M/s Shaima Const. Co.	18.01.17	10.32	17.04.17	-	Work not started
11	CE(C-II)/BM-III	Improvement work at Satya Sadan Housing Complex SH: Renovation of Kitchen Bathroom Tiles work and Construction of additional room at V-11, Satya Sadan Housing Complex	03.01.17	M/s Shivaji Construction Co.	03.01.17	12.36	02.03.17	-	Contractor arranging the material.
12	CE(C-II)/BM-III	A/R & M/O Building in BM-III Division during 2016-2017 SH: Repair of various Houses/ Structures at Lodhi Garden	06.01.17	M/s Singla Enterprises	06.01.17	3.91	05.02.17	25%	
13	CE(C-II)/BM-III	A/R & M/O Building in BM-III Division during 2016-2017 SH: Repair of Horticulture workshop and Garden Hut etc. at Lodhi Garden	12.01.17	M/s K.K. Construction	12.01.17	4.28	11.02.17	5%	
14	CE(C-II)/BM-III	A/R & M/O Building in BM-III Division during 2016-2017 SH: A/R & M/O Building of Palika Nikunj Housing Complex, HCM Lane	18.01.17	M/s Shaima Construction Co.	18.01.17	2.53	17.04.17	-	Contractor arranging the material.

**ELECTRICITY DEPARTMENT-I
PALIKA KENDRA, NEW DELHI**

Sub: Monthly Progress report of the work costing to ₹ 2 Crores & Above Ending January- 2017.

S. no.	Department	Name of work	Date of award	Name of the contractor	Award cost	Target date of completion	Remarks
1.	C-III	Replacement of Existing Lifts at Chanderlok Building, Palika Bhawan, Yashwant Place and Chanakya Bhawan.	05.08.14	M/s OTIS Elevator Company (India) Ltd	Rs.31037000/-	31.12.16	Lifts components for eleven lifts have been delivered for Chanakya Bhawan (2 No.) & Chanderlok Building (4 nos) Palika Bhawan (4 Nos.) Yashwant Place (1 No.). • The work of modernization of 4 lifts at Chanderlok has been completed. • The work of modernization of 2 lifts at Chanakya Bhawan has been completed. • The work of modernization of lift at Yashwant Place is completed. • The work of modernization of 2 lifts at Palika Bhawan is completed. • The work of modernization of remaining 2 lifts at Palika Bhawan has commissioned and handed over by M/S Otis Elevators Pvt. Ltd. As lifts licence is to be issued by electrical inspector which is under processed.
2.	S-I	Supply of HT, 11KV, 350MVA, SBB, VCB Switchgear panels (indoor Type)	29.11.2016	M/s Megawin Switchgear Pvt. Ltd.	2,34,22,698.00(E.D. @12.5%) extra or as applicable + D.VAT @12.5% extra or as applicable + Freight & Insurance @ 7500.00each (for item No. 1) and @ 12000.00 each (for item No. 2) extra.	Supplied within three months from the date of approval of drawings. The drawing shall be submitted within 15 days from the date of issue of supply order.	Drawing submitted by firm approved. The delivery of material expected by end January 2017.
3.	BM-I	Supply, installation, testing & commissioning of Grid connected Solar Roof Top Power Plant of cumulative 575 KWp at various building of NDMC.	19.04.2016	M/s Tata Power Solar System Ltd.	Rs. 3,61,18,625/-	18.07.2016	95% work has been completed

4.	BM-I	Supply, installation, testing & commissioning of Grid connected Solar Roof Top Power Plant of cumulative 920 KWp at various building of NDMC	23.11.2016	M/s Uneecops Technologies Ltd.	₹ 33277500.00	31.12.2016	Work completed
5.	BM-I	Supply, installation, testing & commissioning of Grid connected Solar Roof Top Power Plant of cumulative 53 KWp (Part-B) & 290 KWp (Part-A) at various building of NDMC.	23.11.2016	M/s Tata Power Solar System Ltd.	₹ 22135700.00	31.12.2016	Drawing approved. Erection work started.
6	C-IV	Providing Facade Lighting on Palika Kendra Building, Sansad Marg, New Delhi.	3-11-16	M/s Uniled Technologies (I) Pvt. Ltd.	₹ 57000000/- (49000000.00 main work & 8000000.00 CAMC)	4 months from the date of approval of drawing	Panel erection, cabling and wiring work are in progress.
7	S-II	P/o. 33KV HT (XLPE) Cable of size 400 sq.mm/3 core duly ISI marked T.No. 02/15-16	16.08.2016	M/s Amazon Infratrade (P) Ltd.	Rs. 3,00,57,600/- (+ D.VAT@5% extra + Freight & Insurance @ Rs.21.00 P.meter extra + Local Cartage & handling @ Rs.1.70 P.meter extra)	15/10/2016	Ist lot of material inspected. Inspection report is under approval. 2nd & 3rd lot of material has been approved.

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ELECTRICITY DEPARTMENT-II
PALIKA KENDRA, NEW DELHI

SUB: PROGRESS REPORT OF WORK COSTING TO RS.1 LAC TO 200 LACS FOR THE MONTH OF JANUARY-2017

S. No.	Div. Zone	Name of Work	Date of Awards	Contracting Agency	Awarded Cost	Target date of completion	% of Physical progress	Remarks
1.	C-I	Replacement of oil filled transformer with dry type transformers in North of Rajpath & (Phase-IV)	22.07.10	M/s. Control Wel Switchgears	1,32,86,000/-	Extended upto 31.07.2015	98%	Shut down not provided by consumer at ESS 31, Prithvi Raj Road.
2.	C-I	Replacement of oil type transformer with dry type transformer in North of Rajpath and South of Rajpath (Phase-IV)	20.04.12	M/s New Delhi Traders	13,24,800/-	31.07.2016	98%	1. 24Nos. transformers replacement by firm 2. Shut down at ESS 31 Prithviraj Road were not allowed by consumer 3. Dry type transformers carted at the following ESS for replacement . (i) 31, Prithviraj Road-2Nos.
3.	C-I	Enhancement of load in M.P Flats/ Bunglows in North Avenue Area. SH: Cartage, Installation, Repairing, testing & Commissioning of HT/LT Panel . Transformer 1000KVA & earthing.	18.11.16	M/s. Control Wel Switchgears	16,79,800/-	17.01.2017	-	Work in Progress
4.	C-I	C/o Type-I, Staff Housing Complex at Babu Dham, San Martin Marg, Chanakyapuri, New Delhi. SH: Cartage, installation, testing and commissioning of 1500 KVA Oil Type Distribution transformer, HT/LT Panels providing earthing & P/F of bus ducting etc. at proposed ESS Type-I Staff Housing Complex at Babu Dham, Chanakyapuri, New Delhi.	13.12.16	M/s. Pan Electricals Pvt. Ltd.	25,49,580	18.01.17	10%	Work in progress
5.	C-II	Cartage, Installation, Testing and commissioning of 11KV HT panels and aled work at ESS New C-Block, Delhi High Court, New Delhi	06.10.16	M/s.Neha Electrical Co.	4,10,205	19.10.16	90%	Work completed except commissioning

6.	C-II	CITC of 5 Nos. SBB, VCB Type HT Panels including associated work in NDMC metering room at ASI 24 Tilak Marg, New Delhi	18.11.15	M/s India Care	3,73,440/-	26.01.16	90%	Work completed except commissioning of USS.
7.	C-II	CITC of USS 11KV/433,990 KVA providing earthing with copper plate and Cartage, installation of big size GS Pillar earthing at Hanger No.-IV (allotted to Indian Air Force) at Safdarjung Airport, New Delhi.	15.01.16	M/s A.B. Enterprise	4,26,540/-	09.03.16	90%	Detailed NIT for LT cable laying work is in progress
8.	C-VI	Supply installation, Testing and commissioning of capacitor banks at various NDMC Sub-station.	14.12.10	M/s Energy capacitors (P) Ltd.	69,89,745/-	30.06.15	87%	13 Nos. Capacitor bank out of 15 nos. have been commissioned at Raisina Road, Raja Bazar, Keventor Dairy, Sanjay Gandhi camp, Trauma Centre, Netaji Nagar
9.	Prot.	Annual maintenance contract for 2 nos. SEBA-KMT German make (Model Centrix system) HT CFL locating equipment mounted on vehicle No. DL-IL-K-9260 and 9261 for three years	13.01.15	M/s. PCI Ltd.	12,85,200/-	12.01.18 (Three Year)	69%	Annual Maintenance contract of cable fault locating van
10.	Prot.	AMC for 2 Nos. "Hagnuk" German make HTCFL equipment mounted on DL-IL-E-1245 and 4734	18.05.15	M/s. PCI Ltd.	13,19,700/-	17.05.15 (Three year)	57%	Annual Maintenance contract of cable fault locating van
11.	Prot.	CAMC of Motorola make wireless sets with allied accessories.	09.12.16	M/s. Sri Rama Telecomm. & Pvt. Ltd.	1,30,682/-	08.12.17 (One year)	8%	-
12.	M/S	Contraction of ESS Building at Circular Road. SH:- Shifting of ESS AT Circular Road including dismantling, cartage, installation, testing and commissioning of HT/LT panels, transformers etc. for providing temporarily ESS at Circular Road.	13.01.17	M/s. New Hi.tech	34,03,270/-	04.04.17	50%	Work in Progress

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Sr.Asstt. (T-II)

Chetana
16/02/17

16/2/17

**ELECTRICITY DEPARTMENT-I
PALIKA KENDRA, NEW DELHI**

Sub: Progress report of the work costing to ₹ 1 Lac to 2 crores for the month of January-2017.

S. no.	Department	Name of work	Date of award	Name of the contractor	Award cost	Target date of completion	% of physical progress	Remarks
1.	S-I	Supply of LT Distribution Medium & Big Size feeder Pillar suitable for 415V, 50 Hz, AC, 3 Phase 4 wire system with IP-43 protection & as per relevant IS and as per drawing & specifications.	29.02.2016	M/s Control Wel Switchgears	Rs.28,84,200/- + DVAT @ 12.5% extra.	Stipulated date of completion: 28.04.2016		Material received at Vidhut Bhawan Stores.
2.	S-I	Supply of Plasticized PVC, non-thermo setting, pressure sensitive adhesive tape	06.10.2016	M/s Fair Deal Electric Co.	Rs. 1,07,100/- +DVAT @ 5% extra.	Stipulated date of completion: 05.11.2016		material received and issued work.
3.	S-I	Supply of HRC Fuse Base 2500 Amps, 400 Amps & 630 Amps, 500V AC rating.	06.10.2016	M/s Mohan Plastic Industries	Rs. 29,40,986/- +DVAT @12.5% extra.	Stipulated date of completion: 05.11.2016		Material has been received in Store-I.
4.	S-I	Supply of Energy Efficient LED post top fittings having rating 30W +/-5% & LED flood light fittings having rating 70W +/-5%.	10.10.2016	M/s Lord Krishna Electronic Industries	Rs. 3,88,750/-	Stipulated date of completion: 09.11.2016		Material has been received in Store-I after completion of inspection.
5.	S-I	Supply of Spare Parts for LT Panels of various make	09.12.2016	M/s Noor Electrical Corporation	Rs. 7,96,730/- +D.VAT @12.5% extra or as applicable.	Stipulated date of completion: 08.02.2017		Supply Order issued vide No. 17/DP/EE(S-I)/2016-17 dated: 09.12.2016 to M/s Noor Electrical Corporation. Call of inspection of material awaited.
6.	S-I	Supply of LT-CT Operated Three Phase four wire Electronic Energy Meter.	16.01.2017	M/s Capital Electech Pvt. Ltd.	Rs. 49,73,542.35 + D-VAT @5%, extra or as applicable, F & I @ Rs. 110/- each and Local Cartage & Handling @Rs. 56.67 each extra.	Stipulated date of completion: 15.02.2017		Supply Order issued vide No. 18/DP/EE(S-I)/2016-17 dated: 16.01.2017 to M/s Capital Electech Pvt. Ltd.
7.	S-I	Supply of 11 KV HT XLPE Insulated, Aluminium Conductor, Armoured Cable of various sizes duly ISI marked conforming to IS:7098 (Part-II)/1985 with upto date amendments	17.01.2017	M/s Prime Cable Industries	Rs. 9,21,575.00 + E.D. @12.5% extra or as applicable + D.VAT@5% extra or as applicable	Stipulated date of completion: 16.02.2017		Supply Order issued vide No. 19/DP/EE(S-I)/2016-17 dated: 17.01.2017 to M/s Prime Cable Industries. Call of inspection of material awaited.
8.	S-I	Supply of 11 KV HT XLPE Insulated, Aluminium Conductor, Armoured Cable of size- 16sq.mm/4C duly ISI marked conforming to IS:7098 (Part-II)/1985 with upto date amendments	17.01.2017	M/s Suraj Cable	Rs. 10,23,984.00 + E.D. @12.5% extra or as applicable + D.VAT@5% extra or as applicable	Stipulated date of completion: 16.02.2017		Supply Order issued vide No. 20/DP/EE(S-I)/2016-17 dated: 17.01.2017 to M/s Suraj Cable. Call of inspection I awaited.
9.	S-I	Supply of B.C.Wire of size- 6 SWG, 8 SWG & 10 SWG in coil of 10 Kg approx.	25.01.2017	M/s Faire Deal Electric Co.	Rs. 6,29,200/- + D.VAT @5% extra or as applicable.	Stipulated date of completion: 23.02.2017		Supply Order issued vide No. 21/DP/EE(S-I)/2016-17 dated: 25.01.2017 to M/s Faire Deal Electric Co
10.	S-II	P/o. Energy efficiency LED post top lantern fittings (Shark Type) having rating of 40W + - 5% for roop of Palika Parking	17.01.2017	M/s. Twinkle Luminaries Pvt. Ltd.	1,62,750/- DVAT inclusive	22.01.2017		Material received
11.	S-II	P/o Purchase of MCBs	20.01.2017	M/s. Gupta Electricals and Electronics.	9,72,143/- DVAT Inclusive	18.02.2017		Waiting for inspection call from agency
12.	BM-I	Comprehensive AMC of 07 Nos. lifts installed a Palika Kendra Bldg.	05.12.2014	M/s Thyssen Krupp Elevator Co. (I) Pvt. Ltd.	25,63,992/-	04.12.2017	76%	Work in progress
13.	BM-I	Comprehensive AMC of escalators installed at various subway connaught Place.	20.12.2012	M/s Johnson lift Pvt. Ltd.	1,68,30,000/-	19.12.2017	90%	Work in progress
14.	BM-I	AMC of 02 No.s ECE make lifts installed at MSP & 01 No. at Charak Palika Hospital Moti Bagh.	13.05.2015	M/s Thyssen Krupp Elevator Co. (I) Pvt. Ltd.	9,39,681/-	31.05.2018	60%	Work in progress
15.	BM-I	Comprehensive AMC of EPABX system installed at various NDMC offices under BM-I(E) division.	31.7.2015	M/s MAS Teltech Solutions (P) Ltd.	3,32,700/-	30.7.2018	50%	Work in progress
16.	BM-I	Replacement /modernization of lifts installed at Mayur Bhawan	27.11.2015	M/s OTIS Elevators Co. (I) Ltd.	83,25,000/-	7.10.2016	80%	Work in progress

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17.	BM-I	CAMC of OTIS make lifts in various mpl. bldgs North of Rajpath under BM-I(E) division.	01.09.2015	M/s OTIS Elevators Co. (I) Ltd.	18,11,500/-	31.8.2018	54%	Work in progress
18.	BM-I	AMC of Audio Video System at Palika Kendra Bldg.	23.12.2015	M/s B.G. System	2,22,638/-	31.12.2016	100%	work completed
19.	BM-I	AMC of DG Set Kirlosker make at SBS Place, Gole Market.	07.1.2016	M/s Vidhyut Engineers	1,71,128/-	6.1.2019	90%	Work in progress
20.	BM-I	Comprehensive AMC for carrier make water cooled centrifugal chilling unit installed at Palika Bazar.	29.2.2016	M/s Carrier Air conditioning Refrigeration Ltd.	17,22,360/-	24.8.2017	78%	Work in progress
21.	BM-I	Annual service contract of 06 Nos. DG set Powered by Cummins & Kirlosker installed at various mpl. buildings.	01.4.2016	M/s OVN Trading Engineers	3,57,960/-	31.3.2018	42%	Work in progress
22.	BM-I	Annual maintenance contract of mechanical ventilation system at Palika Parking.	12.4.2016	M/s Virender Singh & Co.	2,10,907/-	11.4.2017	90%	Work to be started
23.	BM-I	Annual Rate contract for maintenance of Acs, water coolers & Fridge installed in NDMC area, New Delhi.	04.4.2016	M/s Sujit Electricals & Airconditioning works	11,51,588/-	13.4.2017	82%	Work in progress
24.	BM-I	ARC for previous IEI work in mpl. bldg. in NDMC area.	31.5.2013	M/s R.K. Jain Sons Hospitality Services (P) Ltd.	1690335/-	30.5.2017	95%	Work in progress
25.	BM-I	Supply of 15 Watt LED fitting suitable for corridor lighting at Palika Bazar.	7.6.2016	M/s Pyrotech Electronics Pvt. Ltd.	4,36,000/-	6.7.2016	-	Material has been supplied & inspection still awaited
26.	BM-I	Comprehensive AMC of AC Plant & other connected HVAC System at Palika Kendra.	12.7.2016	M/s S.K. Engineers	6,81,700/-	11.7.2017	48%	Work to be started
27.	BM-I	Purchase of CDMT lamps 150 watt	12.04.2016	M/s Saral Enterprises	8,77,500/-	23.10.2016	-	Work to be started
28.	BM-I	Providing electrical fittings & fixtures for Charkha Sculpture project on the terrace of Palika Parking, Connaught Place, New Delhi.	28.09.2016	M/s Chauhan & Associates	12,87,130	09.10.2016	100%	Work completed
29.	BM-I	Supply, installation, testing & commissioning of Grid connected Solar Roof Top Power Plant of cumulative 575 KWp at various building of NDMC	19.04.2016	M/s Tata Power Solar System Ltd.	3,61,18,625/-	18.07.2016	95%	Work in progress
30.	BM-I	AMC & Audio & Video system at Palika Kendra	03.01.2017	M/s B.G. System	2,21,525/-	31.12.2017	-	Work started
31.	BM-I	Comprehensive AMC of 07 Nos. lifts installed a Palika Kendra Bldg.	05.12.2014	M/s Thyssen Krupp Elevator Co. (I) Pvt. Ltd.	25,63,992/-	04.12.2017	76%	Work in progress
32.	C-IV	Installation of Sound Reinforcement System at Shivaji Stadium, New Delhi (SH: Appointment of Consultant for Installation of Sound Reinforcement System at Shivaji Stadium, New Delhi).	6-6-14	M/s Sound of Music (I) Pvt Ltd.	393332/-	31-03-2017		Consultancy work is in progress.
33.	C-IV	Modernization / Up-gradation of Street Lighting in NDMC area (Sub-head: Replacement of RCC Poles with 8mtr long Octagonal Galvanized Steel Poles in the back lane / service lane UPSC Bhawan, New Delhi).	14-06-14	M/s Spark Utility Services Pvt. Ltd.	722430/-	03.06.2017		Half of the portion has been completed and rest of the work is in progress after obtaining further road cut permission.
34.	C-IV	Up-gradation of street light system in NDMC area (Sub- Head: - Dismantling & Cartage of existing R/L ST/C/RCC/PCC, Poles, Fittings and Cartage & installation of Octagonal R/L Poles 8mtr. height, R/L fittings i/c casting of RCC Foundation, Earthing, Laying of L.T. Cable etc in Hanuman Lane behind Police Station and Bangla Sahib Lane)	27-7-16	M/s Vishal Enterprises	624190/-	(The target date will be accepted from the date of clearance of site/ road cut permission)		Work is to be started after obtaining road cut permission
35.	C-IV	Up-gradation of Street Lighting System in NDMC area during the year 2013-14 (Sub-head: Design, Supply, Installation, Testing and Commissioning of 30mtr. High mast for Sport Flood Lighting, SITC of XLPE unarmoured copper cable and aluminium armoured cable, Design, Supply, Installation, Testing and Commissioning of L.T. Panels and Control Gear with earthing and termination of cables at NDMC Cricket Ground, Talkatora Garden, New Delhi).	12-05-16	M/s Bajaj Electricals Ltd.	6634807/-	31-03-2017		Installation work have been completed with all respect. Testing & commissioning work is in progress.
36.	C-IV	Augmentation of Electric Sub-station at Air Force Station, Race Course from 2x1000KVA to 3x1500KVA (SH: Cartage, Loading, Unloading, Installation, Testing & Commissioning of 1600KVA dry type Transformer, SITC of Aluminium Bus Ducting	05-06-16	M/s Control Well Switchgear	1531700/-	The firm has asked to complete the work at the earliest. The target date has been already		H.T. / L.T. Cable laying work completed. Installation of L.T. G.S. Feeder pillars i/c termination of cable have also been completed. One no. additional transformer installed i/c

		2500Amp. Supply and Fixing of Adaptor Box & Cartage, Erection and Commissioning of H.T. Panels, L.T. Panels, Battery Tripping Unit, G.S. Pillar (Big size) including Earthing etc at Air Force Station, Race Course, New Delhi.				expired. The case is to be processed for EOT.		ducting, cabling, one no. L.T. board also installed. All the earthing for H.T. / L.T. Panels and Transformers have been completed.
37.	C-IV	Up-gradation of Street Light System in NDMC area (Sub-head: Providing 8mtr. long Octagonal R/L Poles in B.K. Dutt Colony and Replacement of RCC/PCC Poles with 8mtr. long Octagonal Poles in P & T Colony at Sarojini Nagar, New Delhi)	27-7-16	M/s S.G. Enterprises	4520683/-	19.07.2017 after obtaining road cut permission		Road cut permission has been received on 20.01.2017 and the foundation work is in progress.
38.	C-IV	Augmentation of R/L System in NDMC area (Sub-Head: Providing Additional Street Light Poles at Pillanji Village, Sarojini Nagar, New Delhi)	31-08-2016	M/s Om Sai Enterprise	501000/-	31.12.2016		Work completed & the same is to be handed over to R/L division.
39.	C-IV	Providing Facade Lighting on Palika Kendra Building, Sansad Marg, New Delhi.	3-11-16	M/s Uniled Technologies (I) Pvt. Ltd.	57000000/- (49000000) main work & 8000000 CAMC)	20.04.2017		Installation of LED panels, cabling work and wiring work is in progress.
40.	C-IV	Installation of Sound Reinforcement System at Shivaji Stadium, New Delhi (SH: Providing and Fixing of Sound Reinforcement System at Shivaji Stadium, New Delhi)	10.01.2017	M/s Electrorama	9783300/- (8733300/- main work & 750000) CAMC	09.05.2017		Material delivered by the firm at site and work is in progress.
41.	C-IV	Request for Proposal for Execution of Pilot Project of disgn. supply, installation a New Delhi commissioning of sSmart Street light Poles having Smart LED Street Light with LED of 2400K-2700K CCT (near HPSV Lamp) including control & monitoring of individual streetlight at Chandragupt Marg, Chanakya Puri, New Delhi	--	--	--	--		Technical bid opened and mock up to be given by the five firms. Mock up to be given upto 10.02.2017
42.	C-IV	Request for proposal for Execution of Pilot Project of disgn. supply, installation, and commissioning of Smart Street light poles having smart LED street light with LED of 2400K-2700K CCT (warm light) including control & monitoring of individual streetlight at Kaka Nagar, residential Colony, New Delhi	--					RFP invited through e-tendering system with extended due date of opening on 13.02.2017.
43.	BM-II	Annual Maintenance for EPBAX system at Vidut Bhawan for the year 2016-17	01.04.2016	M/S TCIL	4,94,312/-	13.04.2016 to 12.04.2017		AMC Works for day to day complaint
44.	BM-II	Annual Maintenance contract for EPABX system installed at Palika health complex, Dharam Marg, Chanakya Puri, New Delhi.	14.07.2015	M/s Vodacom Technologies Pvt. Ltd	59,742/-	22.6.2016		As above
45.	BM-II	Comprehensive Maintenance of 01 No. TKE make Elevator installed at Gymnasium & Social Welfare Centre, Kaka Nagar, New Delhi.	21.10.2016	M/s MS Thyssen Krupp Elevator India Pvt. Ltd	4,12,226/-	20.10.2021		AMC awarded for a period of 5 years
46.	BM-II	AMC for EISA make lifts installed at Palika Health Complex, Dhama Mar, New Delhi.	25.05.2015	M/S EISA Lifts Pvt. Ltd	7,72,748/-	31.05.2018		AMC awarded for a period of 3 years
47.	BM-II	Comprehensive Annual Maintenance Contract of 01 No. lift OTIS make installed at PMH, Lodhi Road, New Delhi	24.04.2015	M/s OTIS Elevator Co. (I) Ltd	2,33,741/-	30.09.2017		Work in progress
48.	BM-II	Comprehensive Annual Maintenance contract for one number, G+I Floor, 8 passengers Lift installed at Community Centre Golf Links, New Delhi.	28.07.2016	M/S EISA Lifts Pvt. Ltd	74,500/-	27.07.2017		Work in progress
49.	BM-II	Comprehensive maintenance contract of 2 Nos. Schindler make elevators installed at Laxmi Bai Nagar, Barat Ghar.	31.01.2013	M/s Schindler India Pvt Ltd.	6,80,534/-	30.01.2018		Work in progress
50.	BM-II	Comprehensive Annual Maintenance Contract of 05 No. lift OTIS make installed at Palika Bhawan 02 Nos. , CPH 01 Nos. Yashwant Place 01 Nos., PMH 01 Nos.	13.11.2015	M/s OTIS Elevator Co. (I) Ltd	1 st year 9,87,204/- 2 nd year 10,66,188/- 3 rd year 11,51,316/-	01.09.2015 to 31.08.2018		Work in progress
51.	BM-II	CAMC of solar water heating system installed in various ND Buildings & residential Complex in BM-II(E) division (CPH Moti Bag	26.02.2016	M/s Sunson Energy Devices P Ltd	4,66,550/-	25.02.2019		Work in progress
52.	BM-II	Comprehensive Annual Maintenance Contract of Sauna & Steam Bath System installed at Multipurpose Gymnasium, Laxmi Bai Nagar.	11.06.2014	M/s Steam & Sauna Paradise Ltd	5,50,000/-	23.11.2013 to 22.11.2017		Work in progress

53.	BM-II	Annual Maintenance Contract of 12 Nos. (S+7) and (S+8) Passenger lifts Kone make installed at Babu Dham Residential Complex, Chanakya Puri, New Delhi.	25.05.2015	M/s Kone Elevator India Pvt Ltd	12,36,672.00 13,10,872.00 13,89,525.00 14,72,896.00 15,61,267.00	20.11.2014 to 21.09.2020		Work in progress
54.	BM-II	Annual rate contract for maintenance of Ductable AC units & AC plants installed at various municipal buildings & Barat Ghar South of Rajpath.	21.06.2016	M/s Sujit Electricals and air-conditioning works	23,59,200/-	20.06.2017		Work in progress
55.	BM-II	Annual Rate Contract for maintenance of ACs, Water Coolers and Fridges installed in NDMC area, New Delhi	18.05.2016	M/s Sadhanu Enterprises	1085000.00	17.05.2017		Work in progress
56.	BM-II	Annual Rate contract for providing IEL in various Municipal Building in NDMC area under BM-II division.	03.08.2016	M/s Kamal Electricals	₹ 1777444.00	02.08.2017		Work in progress
57.	BM-II	Annual Rate Contract for repairing and rewinding of single/Three phase motors in BM-II division.	16.01.2017	M/s. S.K. Engineers	₹ 1091600.00	15.01.2018		Work in progress
58.	BM-II	Replacement of old wiring at Nursing Hostel staff Qtrs. 16 Nos. (Type-II) & H-Block qtrs. 8 Nos.(Type-I) CPH, Moti Bagh	10.01.2017	M/s Kamal Electricals	₹ 910016.00	09.05.2017		Work in progress
59.	BM-II	Annual Maintenance Contract for DG Sets installed in various Municipal Buildings in NDMC area	04.01.2017	M/s Vijay Power	₹ 189000.00	03.01.2018		Work in progress
60.	C-III	Installation of Unitized Sub-station at Palika Maternity Hospital at Lodhi Colony	30.06.2016	M/s. Spark Utility Services Pvt. Ltd.	Rs.5,50,900/-	45 Days		<ul style="list-style-type: none"> The work for installation of USS has been completed except commissioning of work.
61.	C-III	Installation of Unitized Sub-station at old age home, Kali bari marg.	30.06.2016	M/s. Spark Utility Services Pvt. Ltd.	Rs.5,50,900/-	45 Days		<ul style="list-style-type: none"> Under instructions of CE(E-I), USS given to C-II(E) Division on loan basis for back lane of Ashoka Road power strengthening. Work will be executed as and when Store -I Division provide against the requirement of C-II division.
62.	C-III	Construction of Addl. Block in Palika Maternity Hospital and addition/ alterations of the existing building at Lodhi Colony including electrical work. (composite work)	Reconsidered vide ref. No. D/EE(C-III)/113-19 dated 24.02.2015 after debarred	M/s Vir Bhan Mittal	-	3 months		<ul style="list-style-type: none"> One DG set has been installed, commissioned and handed over. Another DG Set of 250 KVA capacity with AMF Panel of Jackson Make has also been commissioned and handed over to BM-II.
63.	C-III	Laying of HT/LT cable for 1x990 KVA USS at PMH Lodhi Colony.	--	--	-	--		<ul style="list-style-type: none"> The pricebid has been opened and work order is to be awarded to L-1 firm namely M/s Mahindra electrical.
64.	C-III	Cable laying work for Installation of 990 KVA Unitized Sub Station at Old Age Home Kali Bari Marg, New Delhi.	Draft NIT is under process.	--	-	-		<ul style="list-style-type: none"> DE approved & draft NIT is in under process.
65.	C-III	Providing of light & sound system for cultural activities in NDMC area.	-	-	-	-		<ul style="list-style-type: none"> i) M/s Cinesonic Audio Visual Pvt. Ltd. has offered the material to carry out the inspection of the material at their work place for supply of sound(P.A System) against the tendered amount of Rs. 708308. ii) 3rd call of tender of stage/PA lighting has opened on 17.11.16. out of two bidders only one bidder is eligible. The techno commercial statement of single eligible bidder is under scrutiny.
56.	R/L	Installation of steel tubular poles, pillar i/c laying of 1.1KV grade LT cable at Railway station Road and Railway Enclave Chanakya Puri.	15.07.2016	M/s Om Sai Enterprise	248717.00	13.08.2016	0%	Could not start due to required of road cut permission.
57.	R/L	Installation of pillars and laying of 1.1 KV grad LT cable for strengthening of road light network at basrukar Market in Moti Bagh.	15.07.2016	M/s Om Sai Enterprise	313137.00	13.08.2016	0%	Could not start due to required of road cut permission.

CE(E-I)

EE(E)T-I

ITEM NO. 23 (C-33)ACTION TAKEN REPORT ON THE STATUS OF ONGOING SCHEMES/WORKS APPROVED BY THE COUNCIL.


In the Council Meeting held on 28.8.1998, it was decided that the status of execution of all ongoing schemes/works approved by the Council indicating the value of work, date of award/start of work, stipulated date of completion & the present position thereof be placed before the Council for information.

The said report on the status of the ongoing schemes/works upto November, 2016, had already been included in the Agenda for the Council Meeting held on 16.01.2017.

A report on the status of execution of the ongoing schemes/works awarded upto January, 2017, is placed before the Council for information. (See pages 354 - 372).

COUNCIL'S DECISION

Deferred. The next Council meeting is scheduled at 09:30 a.m. on 06.03.2017.


Secretary
New Delhi Municipal Council
Patika Kendra, New Delhi

ACTION TAKEN REPORT ON THE STATUS OF PROJECT / ON GOING SCHEMES / WORKS TILL JANUARY - 2017

Sl. No.	DEPTT. / DIV.	NAME OF WORK	DATE OF A/A & E/S	VALUE OF AWARD (IN LACS)	NAME OF THE CONTRACTOR	AUTHORITY APPROVING THE CONTRACT OR	REF. OF BUDGET	STIPULATED DATE OF COMPLETION	MAJOR ACTIVITIES	DATE OF COMPLETION OF ACTIVITIES AS PER BAR CHART	STAGE OF COMPLETION / %AGE OF WORK DONE	REMARKS
1	CE(R)/ R-II	S/R of Roads in NDMC Area SH: Resurfacing of Roads of Pandara Road, Rabinder Nagar Colony, New Delhi.	30.01.15	226.41	M/s Mahavir Prasad Gupta and Sons	Council	Rs. 50 Lacs in RE 15-16 at page 429 in vol-II. Rs. 230 Lacs in BE 16-17 at page -429 in vol-II.	30.08.16	Resurfacing of roads	-	98%	
2	CE(R)/ R-III	Improvement of existing service road and drainage system, sewer system & water supply system in pillanji village sarojini nagar.	09.05.16	310.35	Sh. Bipin Kumar	Council	51-412-40-00 scheme-20143	08.10.16	Sewrage, water supply, drainage and road	07.10.17	15%	
3	CE(R)/ R-IV	Strengthening and re-surfacing of roads in NDMC area. SH Strengthening and re-surfacing round about, T-Junction, crossing, lane and Race Course road in R-IV division	27.10.16	239.46	M/s K.R. Anand	Council		22.03.17				Survey work in progress, work could not be started due to low temperature
4	CE(R)/ RIP	S/R of Roads in NDMC Area SH: Resurfacing of C-Hexagon (Except Ashok Road to Ashok Road).	26.02.14	239.00	M/s Mahavir Prasad Gupta & Sons	Council	21-412-40-030-8	28.08.15			90%	
5	CE(R)/ RIP	Sub: S/R of roads in NDMC area. SH: Resurfacing of Roads through Hot and Cold Mix Technology in the year 2014-15.	30.01.15	423.00	M/s Inckah Infrastructure Technology Pvt. Ltd	Council	21-412-40-030-4	19.11.16			-	work will be started in first week of March-2017
6	CE(R)/ RIP	S/R of Roads in NDMC Area. SH: Micro surfacing of roads through cold mix technology in the year 2015-16.	15.12.15	449.00	Harpal Singh	Council			nil	nil		Acceptance letter issued on 24.01.17 for submission of performance guarantee.
7	CE(R)/ (SM)	Hiring of two number of the pressure Jetting Cum Sewer Suction Machine mounted on truck chassis for three years.	12.06.15	216.13	M/s Ram charan Bansal	Council 04(A-01) 12.06.15	52-2304002	13.08.18		13.08.18	50%	
8	CE(R)/ (SM)	Hiring operation and maintenance of 2 Nos. jetting cum suction cleaning machines with water recycling technology (for 7 years)	02.03.16	2424.94	M/s Metro Waste Handling Pvt. Ltd.	27(A-42) 03.11.16	52-230-4002					As per RFP condition vehicles submitted by the firm within six months after issue of letter vide no.- EE(SM)/2094/D dt. 29.11.16

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BAR CHART

Name of work :- S/R roads in NDMC area.

SH:- Resurfacing of roads Pandara Road, Rabinder Nagar Colony, New Delhi

Agency:- M/s Mahavir Parsad Gupta & Sons. Aggrement No. /EE(R-II)/2015-16. S.D.O.S.:-31.03.2016 S.D.O.C.:- 30.08.2016

Tendered Cost:- Rs.2,26,40,713/-

Stage		2015-16																		
			30.01.15	13.02.15	12.08.15	30.09.15	28.03.16	31.05.16	30.06.16	08.07.16	31.07.16	08.08.16	09.08.16	30.08.16	15.09.16	30.10.16	15.11.16	24.12.16	31.01.17	28.02.17
1	Preliminary Estimate	T																		
		A																		
2	Detail Estimate	T																		
		A																		
3	NIT	T																		
		A																		
4	Call of Tender	T																		
		A																		
5	Award of work	T																		
		A																		
6	Physical Progress	T																		
		A																		98%
7	Financial Progress	T																		
		A																		87%

Target Physical Progress

Achievemnet physical progress

Target Financial progress

Achievement Financial Progress

EE(R-II)

AE-V(R-II)

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BAR CHART

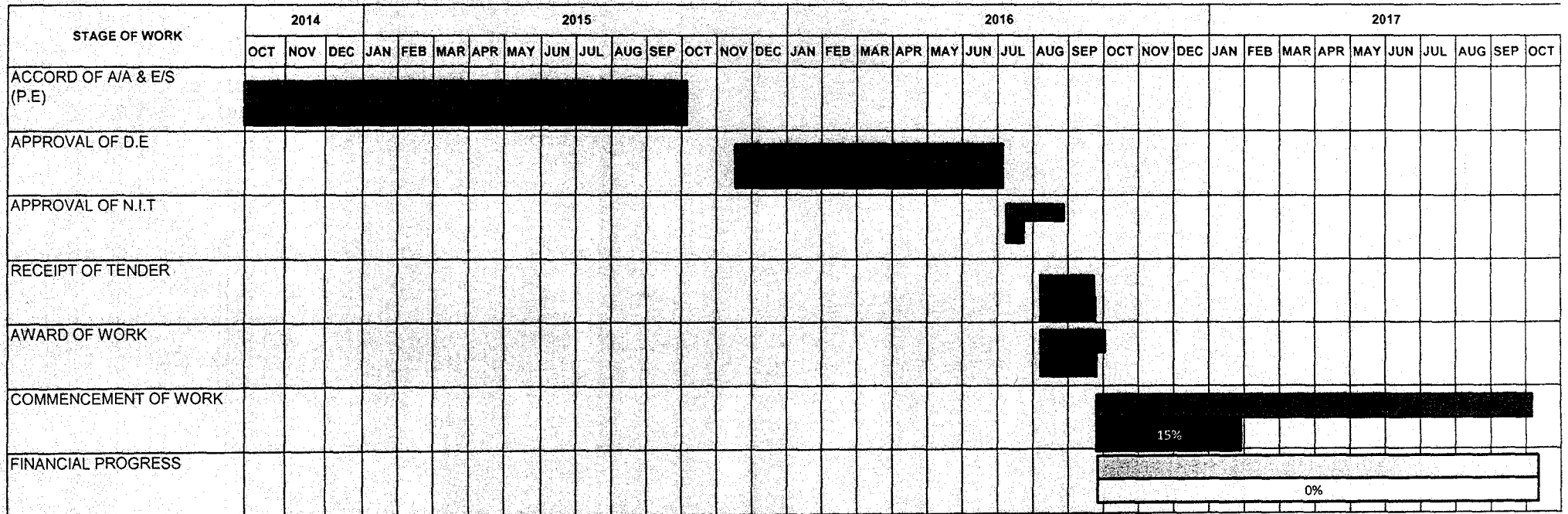
As on : 31/01/2017

NAME OF WORK: Improvement of existing Service road drainage system sewer system & water supply system in the Pillanji Village, Sarojini Nagar.

Agency: Sh. Bipin Kumar
Tender cost Rs. 3.10 Crores

St. date of start: 08-10-2016
St. date of completion 07-10-2017


Div: EE (R-III)
Sub Div- (IV)



Legend

	PHYSICAL PROGRESS (SCHEDULED)
	PHYSICAL PROGRESS (ACTUAL)
	FINANCIAL PROGRESS (SCHEDULED)
	FINANCIAL PROGRESS (ACTUAL)


 EE(R-III)


 AE-IV(R-III)

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BAR CHART

As on 05-02-2017

Name of work:- Strengthening and re-surfacing of roads in NDMC area.

Sub Head:- Strengthening and re-surfacing of roundabout, T-Junction, crossing, lane and race course road in R-IV Division.

Agency:- M/s K.R. Anand

Division - R-IV

Estimated Cost:- Rs. 2,92,58,738/-

Tendered amount:- Rs. 2,39,45,950/-

S.D.O.S:- 23-11-2016

S.D.O.C:- 22-03-2017

S.No.	Activities	Quantity		Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	17-Apr	Remarks
1	Providing and laying stone matrix Asphalt (SMA)..... (a) 40mm compacted thickness with bitumen grade PMB-40	4523.00 MT	Targeted Actual							Work could not be started due to low weather temprature.
2	Providing and laying micro surfacing course..... confirming to type-III grading	21778.00 m2	Targeted Actual							- 857
3	P/L 2.5mm thick road marking strips (retro-reflective)	3558.00 m2	Targeted Actual							-
4	P/L RMC M-25 all work upto plinth level.	84.00 m3	Targeted Actual							
5	Financial progress	240 Lacs	Targeted Actual							

Legent

Targeted sechedule of work

Actual progress

Financial progress - Targeted

Actual

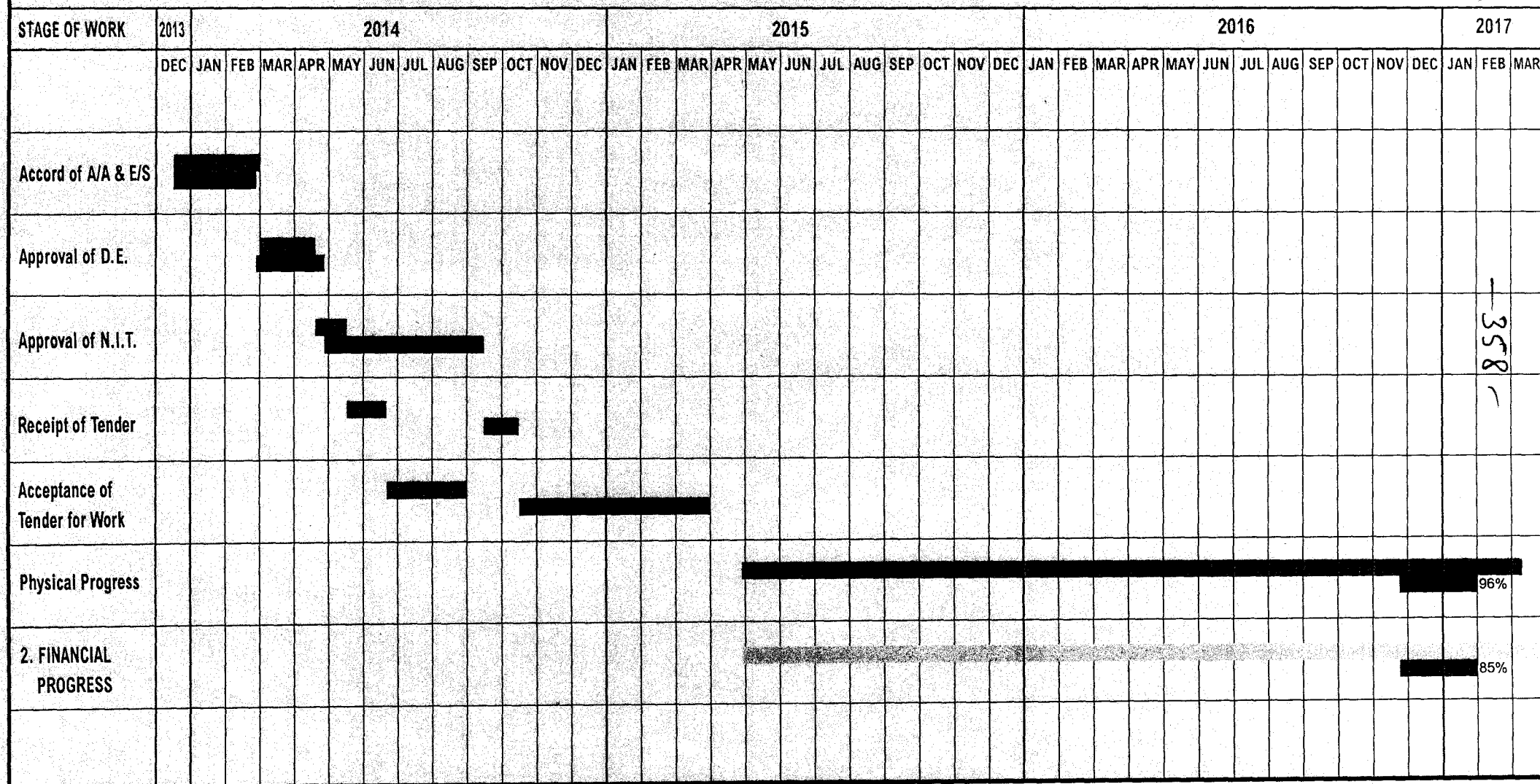
EE(R-IV)

AE-II(R-IV)





JE(R-IV)

BAR CHART

NAME OF WORK : S/R of Roads in NDMC Area.
SH: Resurfacing of C-Hexagon (Except Akbar Road to Ashoka Road)



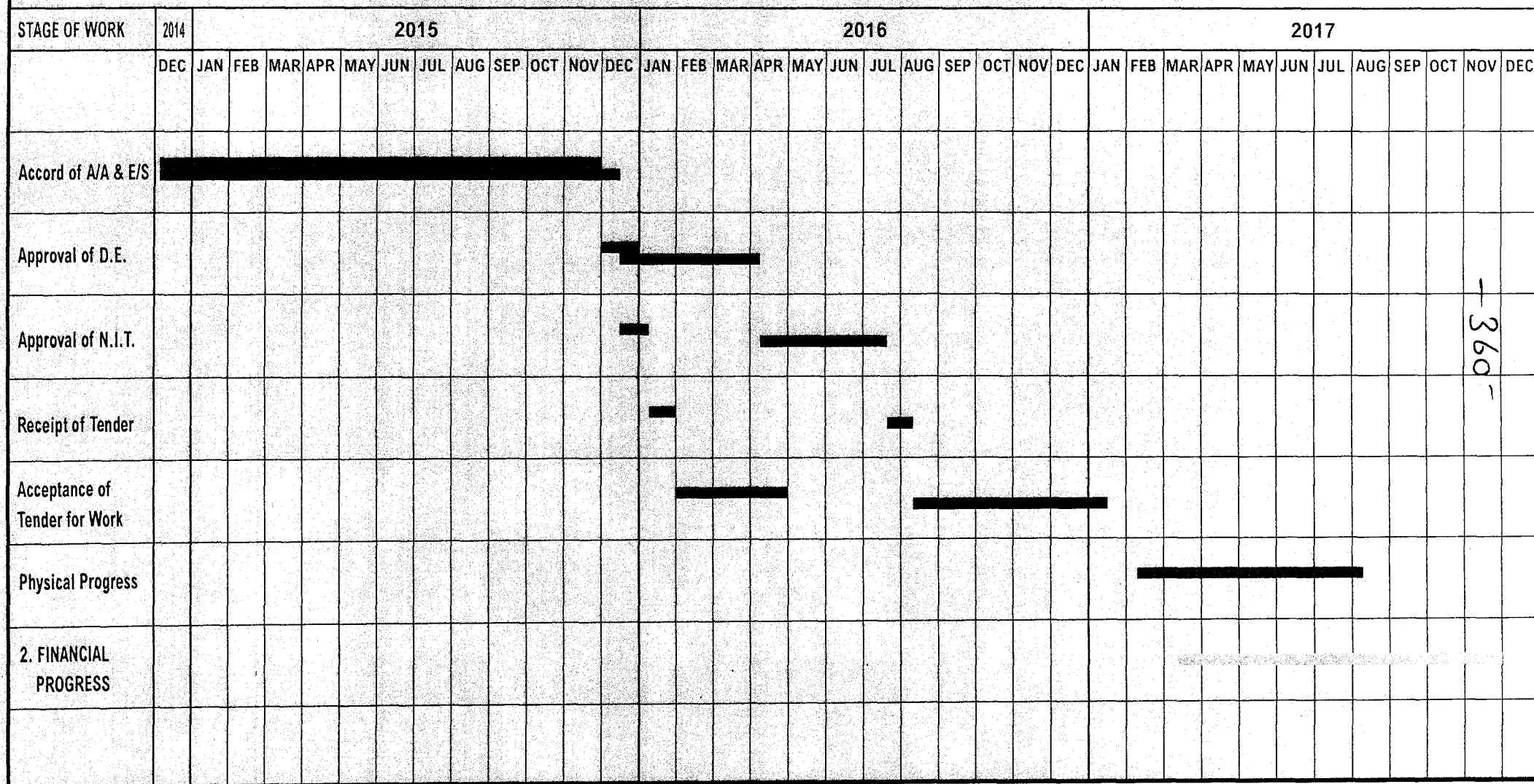
Legend

-  Target Physical Progress
-  Physical Progress (Actual)
-  Target Financial Progress
-  Financial Progress (Actual)

Chy
04/04/17
Executive Engineer (RIP)

BAR CHART

NAME OF WORK : S/R of Roads in NDMC Area.
SH: Resurfacing of Roads through Cold Mix Technology in year 2015-2016



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Legend

- [Solid Bar] Target Physical Progress
- [Solid Bar] Physical Progress (Actual)
- [Dashed Bar] Target Financial Progress
- [Solid Bar] Financial Progress (Actual)

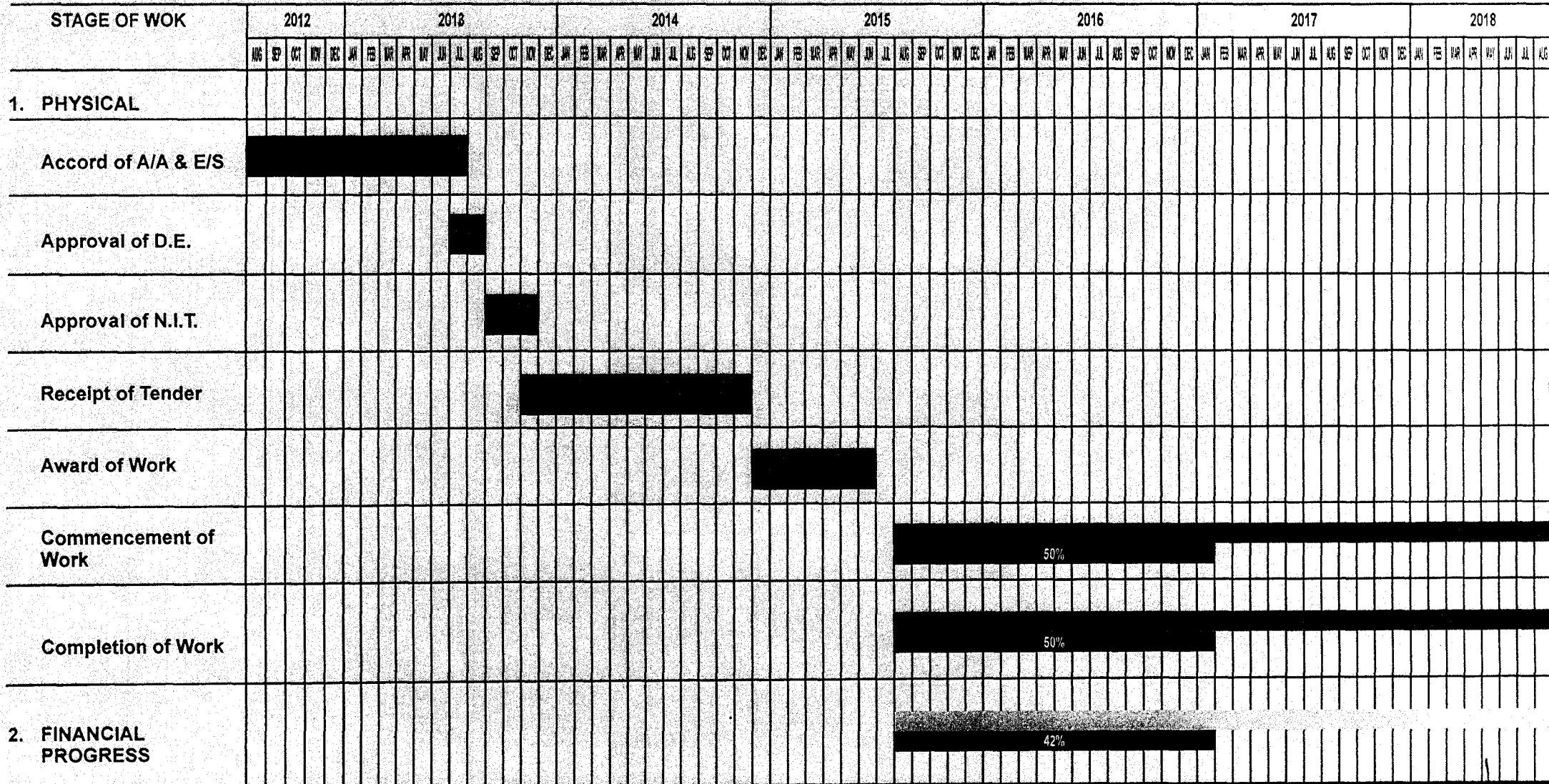
Caa
Executive Engineer (RIP)

BAR CHART





NAME OF WORK: Hiring of two nos. of the Pressure Jetting cum Sewer Suction Machine mounted on Truck Chassis for 3 Yrs.

Tendered Amount Rs. 2,16,12,56,000
Vide Item No. 04(A-01) Dt. 12.06.2015

AGENCY: M/S RAM CHARAN BANSAL



Stipulated Date of Start & Completion :- 15.08.2015 to 14.08.2018

Legend
 Scheduled Progress
 Actual Progress (Physical)
 Financial Progress (Scheduled)
 Financial Progress (Actual)

Executive Engineer (SM)

AE-V (SM)

1961

ACTION TAKEN REPORT ON THE STATUS OF PROJECT / ON GOING SCHEMES / WORKS

**APPROVED BY THE COUNCIL
FOR THE MONTH OF JANUARY 2017**

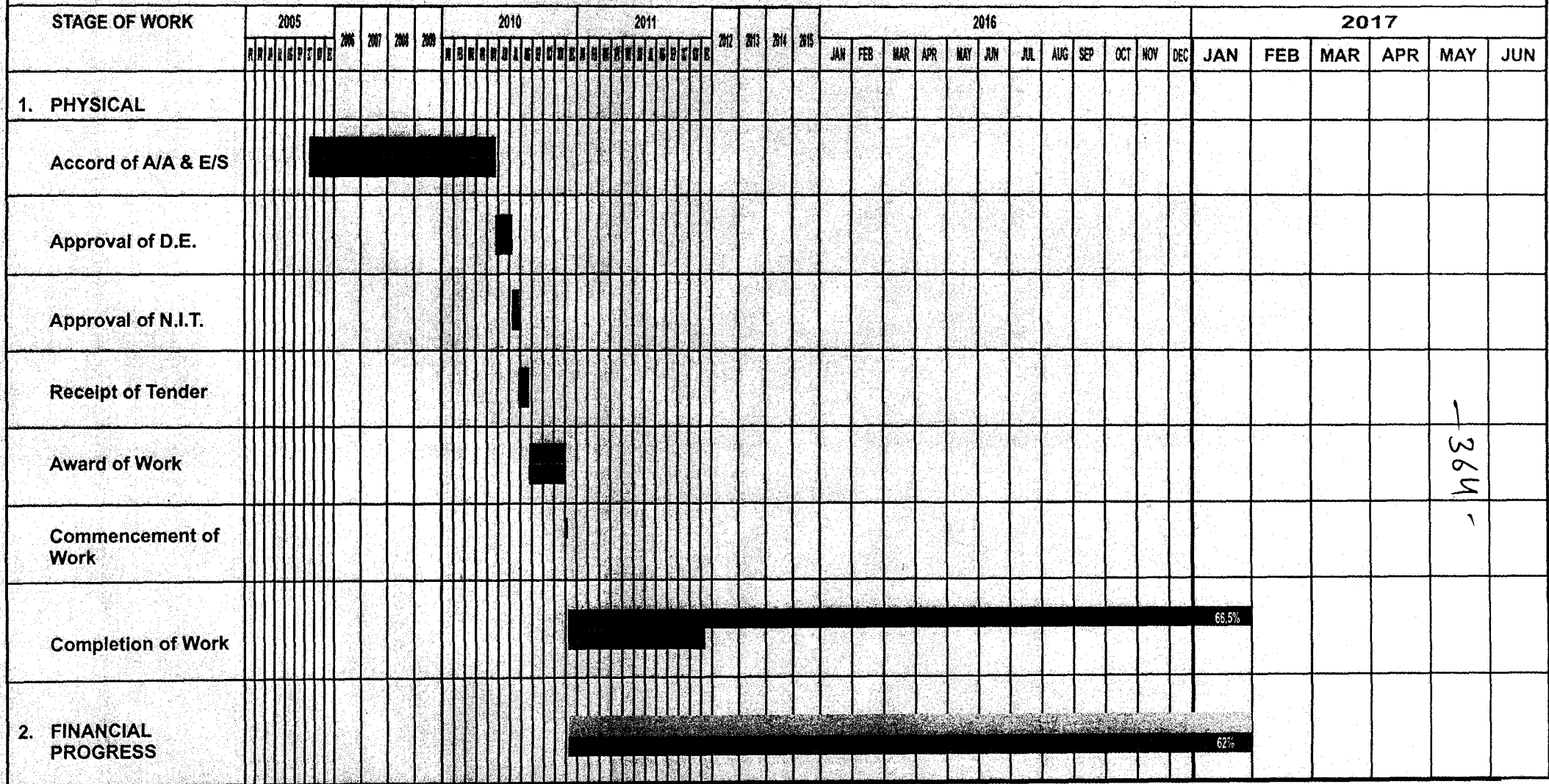
Sl. NO	DEPTT. / DIV.	NAME OF WORK	DATE OF A/A & E/S	VALUE OF AWARD (IN LACS)	REF. OF BUDGET	STIPULATED DATE OF COMPLETION	AGENCY	MAJOR ACTIVITIES	DATE OF COMPLETION OF ACTIVITIES AS PER BAR CHART	STAGE OF COMPLETION / %AGE OF WORK DONE	REMARKS
1	CE(C-II)/ BM-II	Improvement to Housing Complex, Palika Niketan at Sector - 10, R.K. Puram SH: Renewing damaged plaster with external face of blocks of Palika Niketan	19.05.10	228.55	412-40-0 Scheme No. 82 (D.4.12.1)	09.12.11	M/s Bhasin Const. Co.		09.12.11	66%	Notice have been issued to contractor under Clause 3. Further action to rescind the contract is being initiated by EE(BM-II). Stands still work is not in progress.
2	CE(C-II)/ BM-II	Improvement to various Housing Complexes under BM-II Division SH: Façade improvement to Palika Gram Housing Complex, Sarojini Nagar with marble chips grit wash plaster and improvement to stair case with Kota Stone flooring	02.03.16	223.74	4124005 Scheme No. 67 Function Code 6	25.10.17	Sh. Bipin Kumar		25.10.17	40%	
3	CE(C-II)/ BM-II	Improvement to Charak Palika Hospital, Moti Bagh, New Delhi SH: Construction of additional block at Charak Palika Hospital Moti Bagh, New Delhi (Composite Work)	12.03.16	723.67	4124001 Function Code 35	12.10.17	M/s N.S. Associates Pvt. Ltd.		12.10.17	4.5%	
4	CE(C-II) / Special Project	BSUP Project for construction of 240 EWS dwelling units for slum at Bakarwala, Delhi under JNNURM Scheme SH: (a) Civil Works 'Construction of 240 EWS dwelling units, facility centre and infrastructure work including external development work. (b) Electrical works 'Providing I.E.I., SCC, Meter Boards, Compound lighting, Fans & Fixtures etc. (c) Providing/ Fixing/ Testing/ Commissioning of Fire Fighting Works (d) Development of Horticulture works	09.02.12	1742.00	76/412-40-00 Scheme No. 26	14.09.14	M/s Aadhar Stumbh Township Pvt. Ltd.	Super structure and brick work, external plaster & painting completed. Plastering internal walls, flooring work etc. including development works are in progress.	30.11.15	99%	Work is in progress

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BAR CHART

NAME OF WORK: IMPROVEMENT TO HOUSING COMPLEX PALIKA NIKETAN AT SECTOR-10, R.K. PURAM
SUB-HEAD: RENEWING DAMAGED PLASTER WITH EXTERNAL FACE OF BLOCKS OF PALIKA NIKETAN
AGENCY: M/S BHASIN CONST. CO.

A/A & E/S Rs. 2,11,87,900/-
Vide Item No. 12(A-12)) Dt. 19.05.10
Tendered Amount : 2,28,55,488/-
Head of A/c : D.4.12.1



Stipulated Date of Start & Completion :- 10.12.2010 & 09.12.2011

Legend
 Scheduled Progress
 Actual Progress (Physical)
 Financial Progress (Scheduled)
 Financial Progress (Actual)

AE (BM-II)

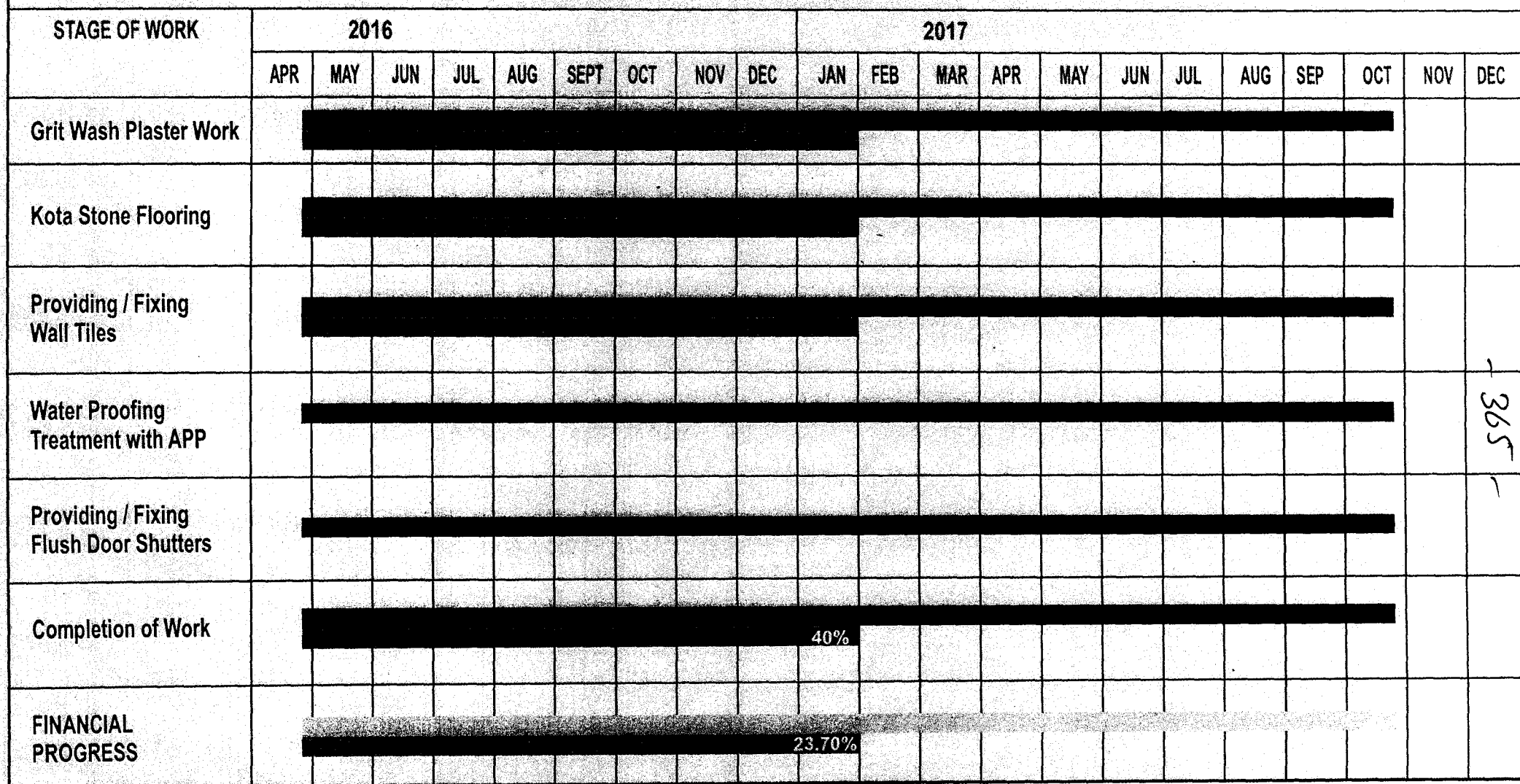
EE (BM-II)

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BAR CHART

NAME OF WORK: Improvement to various housing complexes under BM-II division
 SUB-HEAD: Facade improvement to Palika Gram Housing Complex, Sarojini Nagar with marble chips grit
 wash plaster and improvement to stair case with Kota stone flooring
 AGENCY: SH. BIPIN KUMAR

A/A & E/S Rs. 2,84,55,600/-
 Vide Item No. 08(A-03) dt. 12.06.2015
 Tendered Amount : 2,23,73,789/-
 Head of A/c : 6-412-40-0-67-102



Stipulated Date of Start & Completion :- 26.04.2016 & 25.10.2017

Legend

- Scheduled Progress
- Actual Progress
- Financial Progress (Scheduled)
- Financial Progress (Actual)

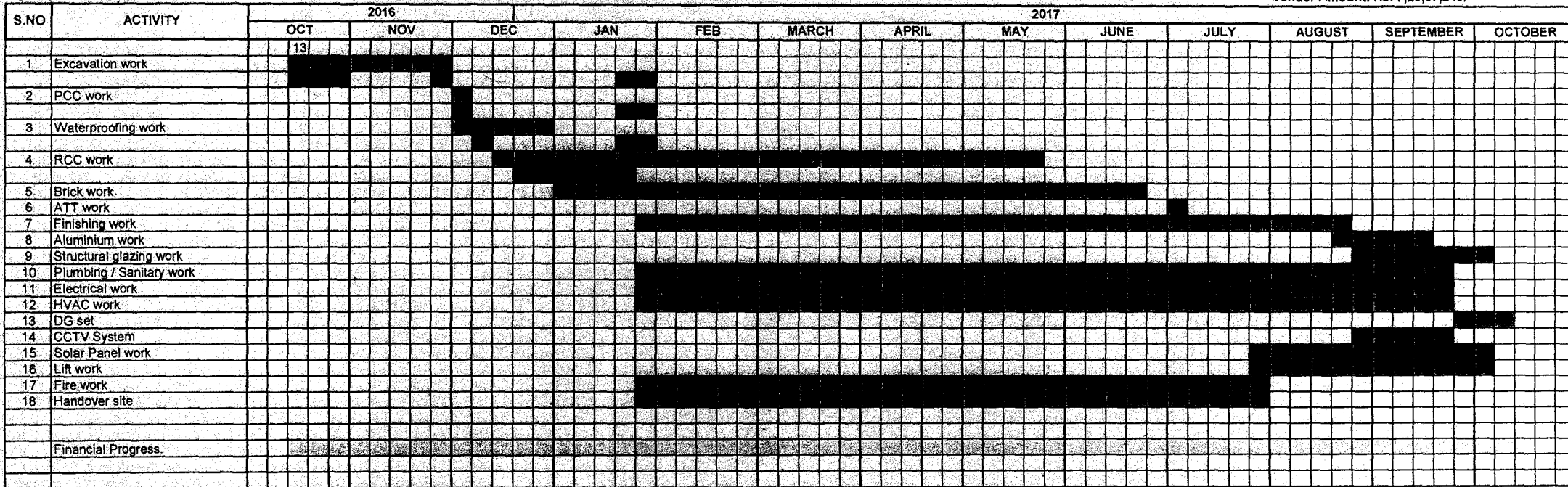
AE (BM-II)

EE (BM-II)

BAR CHART AS ON 31.01.2017

Name of Work: Improvement to Charak Palika Hospital, New Delhi
 Sub Head: Construction of additional block at Charak Palika Hospital, Moti Bagh, N
 Agency Name: M/s N.S. Associates Pvt. Ltd.

Estimated Cost: Rs. 7,57,14,295/-
 WO No. : 2964-75/EE(BM-II)/2016-17
 Tender Amount: Rs. 7,23,67,240/-



Stipulated date of start & Completion:- 13.10.2016 & 12.10.2017

Schedule
 Actual



Schedule
 Actual



EE (BM-II)

Amor
 ABCC

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BAR CHART

Name Of Work : BSUP Project for Construction of 240 E.W.S. Dwelling units for slum at Bakkarwala, Delhi under JNNURM Scheme.

- a) Civil Works ' Construction of 240 E.W.S. du's, facility centre and infrastructure work including external development work.
b) Electrical works ' Providing I.E.L., SCC, Meter Boards, Compound Lighting, Fans& Fixtures etc.
c) Providing /Fixing /Testing /Commissioning of Fire Fighting Works.
d) Development of Horticulture works.

Project Cost : Rs. 17,41,32,108/-
Resolution No. : 10 (A-05)
Date : 23.05.2013

STAGES	2013							2014												2015												2016												2017			
	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN			
PHYSICAL																																															
Accord of A/A & E/S																																															
Approval of D.E.																																															
Approval of NIT																																															
Receipt Of Tender																																															
Award Of Work																																															
Commencement of Work																																															
Completion of Work																																															
Financial Progress																																															

-  Scheduled Progress (Physical)
-  Actual Progress (Physical)
-  Financial Progress (Scheduled)
-  Financial Progress (Actual)

Note:- The work has been awarded to M/s Aadhar Stumbh Township Pvt. Ltd. vide letter No. EE(Spl. Proj.)/AB/D/913-28 dt. 14.06.2013.

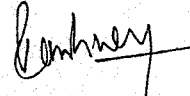
Signature
6/2/17
EE (Special Project)

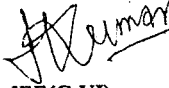
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PROGRESS REPORT OF WORKS ONGOING SCHEMES MORE THAN 300 LACS FOR THE MONTH OF JANUARY 2017 IN (EC-VI) Division

NAME OF WORK	Date of A/A/E/S	Date of Publishing Tender	Date of Award	Date of start of work	Value of award (In Rs)	Name of Contractor	Authority approving the Contract	Final date of completion of project	Major Activities	Date of completion	Stage of completion	% of completion	Remarks
EE(E) C-VI Deposit Work Establishing two 33KV ESS at Kidwai Nagar Sub-Station work	Technical register at page no. 05, Sr. No. 23 on dt. 19.08.15 for Rs 15,09,85,298/-	16.02.2016	10.06.2016	31.07.2016	29,59,49,800/-	M/s JSP Projects Pvt. Ltd.	Council Item No. 25(B-02) dt. 26.04.16	-	33KV GIS boards, 11KV boards, 33KV Power Transformers, 11KV Station Transformers & LT boards.	30.5.2017	-	60%	Supply of major equipment received at site. Electrical equipment installation work is in progress
Deposit Work Establishing two 33KV ESS at Kidwai Nagar(East) SH: Supplying, Laying, Testing & Commissioning of 33KV, 400Sq.mm/3c, XLPE cable for 33KV ESS at Kidwai Nagar (East) Feeders work	Technical register at page no. 05, Sr. No. 24 on dt. 19.08.15 for Rs 6,56,86,300/-	16.02.2016	14.06.2016	31.07.2016	10,64,15,850/-	M/s Universal Cables Ltd.	Council Item No. 24(B-01) dt. 26.04.16	-	33KV HT Cable & its laying, testing & commissioning.	30.05.2017	-	40%	15Km cable delivered by the firm. Cable laying work is in progress.


EE(E) C-VI


AEE(C-VI)


JEE(C-VI)

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CUSTOMER : NDMC		CONTRACTOR: UNIVERSAL CABLES					TOTAL TIME OF COMPLETION: 10 MONTHS					
ORDER REF: D-295/EE(E) C-VI. Dt 14.06.2016												
JOB DESCRIPTION	01.08.2016	31.08.2016	30.09.2016	31.10.2016	30.11.2016	31.12.2016	31.01.2017	28.02.2017	31.03.2017	30.04.2017	31.05.2017	REMARKS
Route Survey and submission of route drawings and its approval												DRGS SUBMITTED ON 13.09.2016.APROVAL AWAITED
GPR survey												GPR REPORT SUBMITTED ON 18.10.2016
Permissions from various authorities for road cutting												PERMISSION RECEIVED FOR APPROX 2500MTS PERMISSION REQUIRED FOR APPRX 7500MTS
Supply of 33kv cables												15KMS DELIVERED. BALANCE QTY NOT TAKEN INTO PRODUCTION DUE TO NON-RECEIPT OF FINAL QUANTITY CONFIRMATION FROM NDMC DUE TO ROUTE NOT CLEARED BY NBCC INSIDE THEIR PREMISE (Refer our letter dt 30.09.2016, 06.12.2016 AND 26.12.2016)
Supply of Joints and terminations												90nos JOINTS AND 2 nos TERMINATIONS DELIVERED. INSPECTION CALL FOR 6 NOS GIS TERMINATIONS GIVEN ON 19.12.2016.
Supply of RCC cable covers												SLABS DELIVERY IS IN PROGRESS AS PER SITE REQUIREMENT
Supply and Laying of HDPE pipes												1500MTRS PIPE DELIVERED OUT OF 2200MTRS. WORK IN PROGRESS IN THE PERMISSION AREA.
Excavation of cable trench												EXCAVATION WORK IN PROGRESS IN THE PERMISSION AREA 1500MTRS OF EXCAVATION COMPLETED APPROX.
Laying of 33kv cable												LAYING IN PROGRESS IN THE PERMISSION AREA
Jointing and termination												JOINTING WORK IN PROGRESS ALONG WITH CABLE LAYING WORK.
Testing and Commissioning												TESTING SHALL BE CARRIED OUT AFTER CABLES ARE TERMINATED AT THE SUBSATIONS.

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CUSTOMER : NDMC				CONTRACTOR: UNIVERSAL CABLES				TOTAL TIME OF COMPLETION: 10 MONTHS							
ORDER REF: D-295/EE(E) C-VI. Dt 14.06.2016															
JOB DESCRIPTION				01.08.2016	31.08.2016	30.09.2016	31.10.2016	30.11.2016	31.12.2016	31.01.2017	28.02.2017	31.03.2017	30.04.2017	31.05.2017	REMARKS
DATE: FEBRUARY 07 2017															
FOR UNIVERSAL CABLES															

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BAR CHART

Project:- ESTABLISHING TWO 33 KV ESS AT KIDWAI NAGAR (EAST)
 Customer:- New Delhi Municipal Council (NDMC)
 L.O. NO. D/2017/EE(C-VDE) DATE 10.06.2016
 B/ CHART: JGRESS REPORT MONTH OF JANUARY-2017

	Planned Schedule
	Activity Completed
	Activity Under Progress

Sl. No.	ACTIVITY	RESPONSIBLE AGENCY	IN MONTH																																																	
			IN WEEK	Jul-16				Aug-16				Sep-16				Oct-16				Nov-16				Dec-16				Jan-17				Feb-17				Mar-17				Apr-17				May-17								
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40									
1	RECEIPT OF LOI/PO	NDMC	P																																																	
			A																																																	
2	RECEIPT OF CONTRACT DOCUMENTS FROM NDMC	NDMC	P																																																	
			A																																																	
3	RECEIPT OF INPUTS/CLARIFICATION FROM NDMC	NDMC	P																																																	
	(i.e. Cable Data Sheet, Control and Relay Panel installation arrangement details required)		A																																																	
4	DESIGN & ENGG. WORK	JSP	P																																																	
			A																																																	
5	ORDERING OF EQUIPMENTS	JSP	P																																																	
			A																																																	
6	DRAWINGS SUBMISSION	JSP	P																																																	
A	GIS HV DRAWING WITH GENERAL ARRANGEMENT	JSP	P																																																	
			A																																																	
B	GIS DRAWING APPROVAL	NDMC	P																																																	
			A																																																	
C	GIS DRAWING SUBMISSION	JSP	P																																																	
			A																																																	
D	GIS-LV DRAWINGS APPROVAL FROM NDMC	NDMC	P																																																	
			A																																																	
E	GENERAL ARRANGMENT DRAWING SUBMISSION	JSP	P																																																	
			A																																																	
F	DRAWINGS APPROVAL	NDMC	P																																																	

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