

Last Date of Bid Submission has been extended from 31.05.2016 to 14.06.2016

Name of work: Selection of Concessionaire for Design, Development, Implementation, Operation and Maintenance of Wi-Fi, Smart LED Street Light, City Surveillance, Command and Control Center in NDMC area in lieu of use of Street Light Poles for hosting Telecom Services and use of Right of Way (RoW) for Laying Optical Fiber for Telecom Services.

Replies to the queries raised in the pre-bid meeting held on 10.05.2016 are as under.

Sl. No.	RFP Section	RFP Clause No.	Clause description	Queries Clarification required /	Remarks for consideration	Replies to the queries
RELIANCE						
1	Invitation for proposal	1.1.2	NDMC hereby invites bids for Selection of a Concessionaire for the following works in lieu of rights over existing electrical poles (approximately 18500) as provided in clause 3.4.3, except high mast poles, for installation of telecom equipments to enable multiple telecom services based on Wi-Fi/2G/3G/4G/NextGen and the use of right of way for laying the optical fibre for Telecom services for the concession period of fifteen (15) years [one year implementation period + fourteen year post-implementation period] :	RJIL request for clarification as there is contradiction between few of the concession period clauses	Clarification needed on Concession Period: In the clause no: 3.2 page no: 18 under project scope, it is mentioned that Period of fifteen (15) years from the date of signing of concession agreement, excluding the Implementation stage period of maximum 12 months (implies 1+15 years)	Clarification w.r.t. clause No. 3.2: Operations and maintenance period is 14 years after implementation of the project (implementation period 12 months). In any case, the total concession period, including the implementation period and operations and maintenance period, shall not exceed 15 years from the date of signing of the agreement.
2	Important information related to bid	1.8	Last Date for furnishing of PBG to NDMC		The Last Date for providing PBG to NDMC from the date of issuance of LOA to be increased from fifteen (15) days to thirty (30) days	No change in RFP

3	Integration of Smart Services & solutions	3.1.5	<p>Seamless integration of Smart Services and Solution</p> <p>Seamless integration of following smart services and solution is desired:</p> <ol style="list-style-type: none"> 1. City Wi-Fi 2. Smart LED Street Light 3. City Surveillance 4. Central Command and Control Centre <p>Future Smart City Services like:</p> <ol style="list-style-type: none"> 1. Electric Vehicle charging. 2. Pollution Monitors. 3. Smart Street furniture Fixtures. 4. Citizen Apps & kiosks. 5. Intelligent parking management. 	<p>what are the integration requirements for future smart city applications. The platform will have the Open API for integration. But any sensor/devices field installation, cables termination, mounting requirements and integration with Lighting and CCTV cameras requirements of sensors and fixtures is not included in this bid. Please clarify</p>	<p>Current solution design will be limited to the current scope of work. Any future Network bandwidth, DC/CC infrastructure, related application software and Hardware and field infrastructure is not considered. The modalities of any future service offering are not clear from the RFP. The future work related to smart cities should be given to the current bidder with mutually agreed techno-commercial terms.</p>	<p>Refer Clause No. 3.5.6 read with clause 15.2. APIs to be provided by the concessionaire free of cost.</p>
4	Integration of Smart Services & solutions	3.1.5	<p>Making Provision for Future Smart Services like Electric Vehicle Charging, Pollution Monitors etc</p>		<p>As the details for making provisions for future smart services are not presently available, hence taking up the cost of these services into the project cost is not feasible. The future work related to smart services should be given to the current bidder with mutually agreed techno-commercial terms.</p>	<p>Clause 3.5.6 read with clause 15.2 will apply. APIs to be provided by the concessionaire free of cost.</p>

5	Integration of Smart Services & solutions	3.1.6	The Concessionaire shall have the right to use existing street lighting poles in NDMC area (approx 18500), except high mast poles		High masts should not be excluded from the definition as these are located at very critical junctions and are required to be connected with various services like Lighting, CCTV and Wifi services.	Concessionaire is allowed to use existing (as per list attached) High mast poles subject to prior approval of NDMC, statutory approvals and security clearance. The concessionaire shall replace such High Mast pole with a pole of similar height to keep the aesthetic look (such as equipments fully concealed within the pole structure, etc.) and requisite strength, intact. The concessionaire shall get the design of such high mast pole approved by NDMC. The concessionaire shall replace the lightings of such High mast poles with basic LED lights (of same or higher lux level), in addition to the quantity specified in the RFP document. Installation and O&M of CCTV on such high mast poles shall be the responsibility of the concessionaire, if required by the NDMC. Installation and O&M of Wi-Fi on such high mast poles shall be the responsibility of the concessionaire.
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6	Revenue source for concessionaire	3.1.7	Digital Marketing Rights	Concessionaire should design & control digital spaces across platforms like Wi-Fi landing page, Login flow page etc.	It is mentioned that applicant can generate revenue through online services without hindering the free WiFi service for more than 5% time in total. It may be noted that RFP reads that 50MB of data should be provided to each user per day, this data may be consumed in few minutes (if the users downloads some media content) or it may last for an hour or more (if one is just browsing a social media site or exchanging messages over chat applications). Thus, the 5% time would be variable for various users. Therefore, RJIL should be allowed to control & generate revenue by placing online advertisements on the WiFi landing pages/ Login flow page etc. without any cap.	The following is added after Clause 3.1.7(b):- In addition to this the concessionaire is allowed to place online advertisement on the free Wi-Fi login page only.
7	Integration of Smart Services & solutions	3.1.7(a)	Sharing the telecom equipments at electric poles among the telecom services providers to provide Wi Fi/2G/3G/4G/Next Gen/any equivalent connectivity services		It is understood that the concessionaire can allow installation of telecom equipments for exclusive use of other telecom/cable operators on the existing street light poles or if required, with replacement of such poles with approved designed poles of same height or more height at the same place by getting into a mutually agreed commercial agreement with them; for providing the Wi Fi/2G/3G/4G/Next Gen services	No change in RFP document in light of clause 3.5.11. The clause 3.5.11 shall be read as follows: For installation of telecom equipments for delivering telecom service by the Concessionaire if there is any requirement of replacement of electric pole throughout the concession period, the Concessionaire will replace it by a pole of approximately same height at his own cost. If the Concessionaire wants to replace the existing pole with a pole of

						<p>other height, he shall take prior permission in writing from the NDMC before doing so. The replaced pole shall be aesthetically good (such as equipments fully concealed within the pole structure, etc.) and structurally stable and as per NDMC specifications. The Concessionaire will give its structural stability certificate.</p>
8	Integration of Smart Services & solutions	3.1.7	After implementation of the project or 12 months from the date of signing of concession agreement , which is earlier and till expiry of the Project, the concessionaire shall pay an amount quoted by it as monthly concession fee		The delay caused due to extraneous reasons beyond the control of the concessionaire should be considered for completion of project and start of concession fee.	<p>NDMC may extend the implementation period up to eighteen months from the date of signing of the agreement, after considering the delay caused, which the concessionaire establishes through records that it is beyond its control.</p> <p>In any case, the total concession period will not be extended beyond a period of fifteen years from the date of signing of the agreement.</p>
9	City WiFi services	3.2.1.2	Hotspots should cover entire area of places given in RFP document. Applicants will be responsible for design and engineering of all the network components to meet coverage and capacity requirements of hotspots based on following parameters ...	Installation of additional poles may be required based on survey report to cover the scope given in the RFP	Necessary provisions should be made in the RFP to cover requirement of additional poles for providing the Wi Fi/2G/3G/4G/Next Gen services	No change in RFP. No additional pole will be allowed.

10	City WiFi services	3.2.1	Proposed city WiFi solution should be an integrated solution for city wide connectivity that establishes a platform on which IoT based applications and multiple NDMC services can be developed for both citizens & NDMC operations.		We understood that there is no scope of development of applications and its integration on part of concessionaire. Standard APIs can be later developed at additional cost to NDMC	Reference Clause No. 3.5.6. APIs to be provided by the concessionaire free of cost. Future smart city services will use the Wi-Fi services to transfer the data upto the command and control centre without any cost.
11	City WiFi services	3.2.1	Free Wi-Fi for will be given to Public at minimum one (1) Mbps speed with a minimum throughput of 100kbps with minimum limit to download 50MB data per day subject to a limit of 1 GB per month throughout the concession period.		Many factors like physical obstructions, line of sight between equipment impact WiFi speeds, hence, it is not possible to commit minimum speed on Wi-Fi Technology. We, thus, request to remove the requirement of minimum 1 Mbps speed per user	No change in RFP.
12	City WiFi services	3.2.1 (B)	Concessionaire shall get the sample of LED lights approved from NDMC	What will be the time period for all such approvals?	The impact of delays in such approvals and incorporating the changes suggested should be considered while finalizing the implementation period.	NDMC will approve the sample of LED luminaries supplied and installed by the concessionaire within 15 working days if sample found acceptable as per the specified standards. Any shortcomings in the sample will be communicated by the NDMC to the concessionaire within such period, the concessionaire shall rectify the same and submit a revised sample to the NDMC. The same will be approved by the NDMC within 15 working days if sample found acceptable as per the specified standards. In case, if no approval / deficiency raised by the NDMC

						within prescribed time-limit, the concessionaire shall bring-it into the notice of the Chairperson, NDMC, who in-turn direct the concerned department to dispose of the matter within 15 working days.
13	Smart lighting solution	3.2.2 (C)	The total comprehensive warranty for replacement of these LED luminaries is for throughout the concession period of fifteen (15) years. During this period, the Concessionaire has to provide the replacement of all defective LED luminaries and other equipments related to LED fittings of all types installed.		The expected life of an LED is about 7 years. Hence, comprehensive warranty of 15 years is not feasible. It should be 7 years	No change in RFP.
14	Smart lighting solution	3.2.2 (F)	F. For maintenance of the Semi-Advance LED nodes and Advance LED nodes, the Concessionaire will depute his technical staff /engineers along with NDMC staff so that their will not be any dispute or mishandling of any item by NDMC staff. The complete responsibility of making it operational will be of the Concessionaire.		We suggest that since the NDMC already has an established network of divisional and zonal offices and technical personnel in place for services like Lighting , CCTV maintenance control & Command centre, hence O&M should be excluded from the concessionaire scope except for providing 1.5% spares for such items. NDMC should manage and operate the Command & Control centre. It is suggested that concessionaire should have only subject matter experts for services provided to assist the NDMC O&M team	No change in RFP.

15	Smart lighting solution	3.2.2.(G)	The communication connectivity of all LED lights for managing & monitoring shall be borne & maintained by the concessionaire throughout the concession period		The damages caused to the Electronic cards and Items due to erroneous Power supply should not be to the cost of concessionaire and any related penalties thereof	No change in RFP.
16	Project Scope & Punitive clauses	3.2 and 9.1.1	<p>3.2. Project Scope The Engagement Model is bifurcated into following two stages- (i) Implementation Stage; and (ii) Operation and Maintenance Stage: Up to 12 months from the date of signing of concession agreement</p> <p>9.1.1 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).</p>		<p>NDMC shall provide all the field details including Lat/Long of the locations, power readiness from NDMC, and shall approve make and model of Product within 7 days to the signing of the contract.</p> <p>NDMC shall define the TAT for document/product/services approvals or review. Any changes in the requirements from RFP will affect the project execution schedule and hence suitably considered.</p>	No change in RFP.
17	Centralized Command & Control Centre	3.2.4.1 v.	Centralized Command and Control Center for centralized monitoring and decision making as per the scope defined below : Managed hosted Data Center (DC) at NDMC premises	Please provide the measurements of the DC and details about the existing facilities available in it and what shall be the scope of NDMC in terms of CIVIL and MEP works.		New Data Centre to be created by the concessionaire. The concessionaire will give the space requirement along with the architectural design showing Civil, Electrical & Air-conditioning work for data centre & CCC. Accordingly, NDMC will provide the space in Palika Kendra or any other location. Clause 3.2.4.4 will be read as "Necessary Civil, Electrical work including furniture, but excluding Air-conditioning shall be the

						responsibility of NDMC for Data Centre, and Command & Control Centre".
18	Centralized Command & Control Centre	3.2.4.2	Central Command Centre will be the nodal point of all online data & information related to LED Lighting, CCTV Cameras, Wi-Fi, Sensors and connected to NDMC network of services	The details of Sensors and NDMC network of services is not defined in RFP	It is understood that the network for Wi-fi, Street smart lights and CCTV being created under this project needs to be monitored. Please clarify.	The Concessionaire has not to install the sensors for other smart city services but Central Command and Control will be the central nodal point for integrating & display of all online data and information for other smart city initiatives.
19	Centralized Command & Control Centre	3.2.4.3	Command Control Centre will be established with all hardware, software and network infrastructure including switches and routers and will be maintained by the Concessionaire throughout the concession period.	What is the built-up (Sft) area of the CCC and which floor level is this? Is it collocated with DC?	Site visit to CCC and DC is required	The concessionaire 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.
20	Centralized Command & Control Centre	3.2.4.4	Necessary civil work including furniture shall be the responsibility of NDMC	Design and time period of this work is not clear	The delay in finalizing the design , approval and creating the said infrastructure for CCC may lead to delay in starting the work of integration and trials. This delay should be considered while defining the SLA for Project Period completion.	The concessionaire 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 execute the Civil, Electrical works, excluding the Air-Conditioning works and provide furniture within a reasonable time.

21	Centralized Command & Control Centre	3.2.4.5 / 3.5.1	Providing 4 pairs of Optical fibres up to last mile connectivity free of cost.	Clause no 3.5.1 mentioned up to pre-aggregation location and 3.2.4.5 mentioned "4 Pairs from Command and Control Centre to last mile connectivity including all networking equipments required for the purpose."	As the fiber may not be extended to each pole (last mile at poles may be with CAT5/6 cables to connected Wifi APs and CCTV cameras), it is assumed that the fiber will be extended upto the aggregation switch in the access network.	The optical fiber may not be extended to each pole (last mile connectivity to each pole) and the connectivity will be provided through POE/ CAT5/CAT6 cables depending on the equipments to be connected (such as Wi-Fi APs, LEDs Controller, CCTV cameras etc.). Distance of aggregation switch cannot be more than 50 mtrs. from the equipments i.e. gateways for luminaries controller, CCTV, Wi-Fi access point. Further, their should not be any loss of data and optimal bandwidth is ensured for each equipment.
22	NDMC responsibilities/ROW	3.4.1	Free Right of way to lay U/G optical fibre cable for providing telecom services for 3 years & for fiber maintenance activities throughout the concession period of 1+14 years		It is suggested that since there will be continuous expansion of the telecom services, laying of optical fibre network will be a continuous process. Hence free RoW should be extended for the entire concession period of 15 years. Also, it shall eliminate the chances of any ambiguity for differentiating free services for maintenance purposes.	Refer Clause No. 3.4.1 & 3.4.2. After the expiry of three years, NDMC will allow permission for Right of Way for maximum fifty (50) KMs, free of cost, subject to other conditions mentioned in the RFP, including restoration by the concessionaire, during the rest of the concession period.

23	NDMC responsibilities/ROW	3.4.1	<p>NDMC will provide permission in writing for Right of Way, including permission to use NDMC's existing tunnel in Connaught Place area for such purpose, free of cost in NDMC area to lay underground optical fibres/cables for providing licensed telecom services for three years (i.e. implementation period of one year and subsequent two years).</p>	<p>We understand that any other operators if requires any pair of optical fibre cable/dark fibres/bandwidth/ducts for its own consumption/usage shall be required to take from the existing concessionaire instead of laying its own network of optical fibre cable network by taking separate RoW from NDMC. This clarity is required as multiple digging by various agencies shall create chaos, damages to existing networks and also make judicious use of existing available infrastructure in NDMC</p>	<p>No exclusive right for RoW. Other Service providers will be allowed to lay optical cables by NDMC as per NDMC's prevailing policy from time-to-time in this regard.</p>
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24	Right of usage of street lighting poles	3.4.3	The concessionaire on its own will arrange power for telecom/Wifi/BTS equipments		<p>The WiFi service & equipments are being installed to provided free of cost service to the citizens. The cost of establishing consumption & its recovery, for the WiFi equipment, would propably, be more than the consumption charge itself. Thus, it is requested that NDMC should bear the electricity charges towards the WiFi equipment</p> <p>For other equipments , instead of arranging power by the concessionaire which involves laying of separate power cable and energy meters; NDMC may charge the concessionaire on fixed consumption basis based on Rated power consumptions of telecom equipments. It is also understood that space can be provided under such poles for UPS/Battery banks for uninterrupted power supply to such equipment.</p>	NDMC will provide the metered electricity to the concessionaire for telecom/ Wi-Fi/ BTS equipments on payment basis. As per NDMC's prevailing policy, necessary one-time charges for metered connection and recurring charges to be paid by the Concessionaire.
25	Right of usage of street lighting poles	3.4.3	NDMC reserves the right to use existing street lighting poles for any purpose. NDMC reserves the right to collect rental/user charges from those who have installed any equipments for any purpose on these street lights poles.		It is understood that status quo shall be maintained for any such usage and no poles will be further allocated to any other telecom or cable operators for putting up their gears. For any new requirement for any such services which is defined in RFP shall be shared through the concessionaire only during the	No change in RFP.

					concession period.	
26	Right of usage of street lighting poles	3.4.3 sub point (i) and (iii)	<p>Right of usage of street lighting poles in NDMC area:</p> <p>(i) ...This does not include right to use such street light poles by the Concessionaire for any other purpose except as mentioned herein above.</p> <p>(iii) The Concessionaire shall have no right for any purpose on any street light poles, which would come in future i.e. other than street light poles covered above in clause 3.4.3(i).</p>		RJIL requests NDMC to provide the space on poles for branding & marketing purpose to create awareness, free of cost	No change in RFP.
27	Right of usage of street lighting poles	3.4.4	<p>All the electricity consumed for providing service to NDMC, like city surveillance, LED street light and any other equipment used for this project except Wi-Fi services, will be free of cost. The Concessionaire will take separate electric meter for running his own services.</p>	<p>Will NDMC bring the metered power to the pole where Camera is installed? If the ODC equipment installed on the pole/ground, will NDMC bring the metered power to the junction box/ODC? Whose scope is the application for electricity meter? And power cabling up to ODC?</p>		<p>It will be the responsibility of Concessionaire to apply for the electricity meters to the NDMC as per its requirement. NDMC will provide electric meters on feeder pillars. The concessionaire has to lay its own cable to extend power supply from the meter to the equipments. Necessary permissions for laying will be given by the NDMC. Any RoW permission for such purpose will be given by the NDMC, free of cost during the implementation period only, and subject to other conditions as mentioned in the RFP w.r.t. RoW for laying optical fibre including restoration by the Concessionaire.</p>

						For Cameras and LEDs, electricity supply is already available on each pole, and no metering is required.
28	Right of usage of street lighting poles	3.4.7	During the concession period, if there is any requirement for replacement of (i) electric pole installed by NDMC on which no telecom equipment is installed by the Concessionaire for its usage; or (ii) power cable for providing electricity to LED/CCTV, the same shall be done by NDMC without any cost to Concessionaire		This should include poles where wifi equipment is installed	No change in RFP.
29	Right of usage of street lighting poles	3.4.8	After Concession period the optical fibre laid by the Concessionaire can be used by the Concessionaire as per NDMC policy in force at that time and as applicable to other service providers.		It is understood that the concessionaire will own all the fiber laid under this project after the concession period. Any service can be provided to NDMC on mutual agreed commercial terms after the concession period.	No change in RFP.
30	Right of usage of street lighting poles	3.4.9	At the end of concession period, all rights given to the concessionaire, including right to use the electric poles shall be terminated automatically		Since the investment made in creating this captive network of 3 tier architecture is huge, hence there should be reasonable clause put in place for continuity of the services by the concessionaire.	No change in RFP.

31	NDMC responsibilities/CCTV	3.4.10	For installation of CCTV(s),.....Hosting of telecom equipments will not be allowed on such additional poles by the Concessionaire.	a) whether Telecom equipments for CCTV Connectivity will be allowed to install b) What about the civil work for installation and electrical inputs for CCTV for such poles c) Whether it will be allowed to install the Poles for WiFi coverage	The installation of WiFi and L2 switch (Access/Aggregation) cabinets / Junction Boxes shall be allowed to install on pole. Additional pole if required for providing the WiFi coverage shall be provided by NDMC duly installed.	No change in RFP.
32	NDMC responsibilities/CCTV	3.4.10	For installation of CCTV(s), if there is any requirement of additional poles, the same will be provided by NDMC at its own cost. Hosting of telecom equipments will not be allowed on such additional poles by the Concessionaire.		Concessionaire should also be allowed to install additional poles for its 2G/3G/4G/Wi Fi/Next Gen coverage requirement other than 18500 Poles as the installations only on existing poles cannot give ubiquitous coverage for Wifi services	No change in RFP.
33	NDMC responsibilities	3.4.12	NDMC shall provide single window clearance to the concessionaire for the purpose of RFP document		We assume and understand that in Single window permission, the file shall not move to various other departments like Electrical, Civil, Horticulture, IT etc as these could lead to further delay in approvals and lose the advantages of Single Window Permission. Single window clearance should also have a time bound approval mechanism not exceeding 7 days	NDMC will give permission within 15 working days of submission of proposal subject to the completeness of the proposal. The concessionaire has to submit the proposal as per NDMC requirements and laid down procedures. In case, if no approval is given by the NDMC within prescribed time-limit, the concessionaire shall bring-it into the notice of the Chairperson, NDMC, who in-turn direct the concerned department

						to dispose of the matter within 15 working days.
34	Concessionaire responsibilities	3.5.3	Set -up Captive Network (IP MPLS based 3 Tier Architecture) for NDMC to rollout various services.		It is understood that the existing network can be synergized so that all the technological benefits available today are fully harnessed/realized. Setting up a dedicated 3 Tier network exclusively for NDMC is neither desirable nor intended. Continuity of NDMC services after the concessionary period can be ensured as per mutually agreed terms at that point in time	No change in RFP.
35	Concessionaire responsibilities	3.5.5	3.5.5 In case, any pair of fibre allotted to NDMC get damaged or not functional due to any reason, the Concessionaire will provide alternate fibre pair in not more than two hours so that NDMC service will not get effected.		Any fiber pair getting damaged/faulty is repaired in 4 hours on average basis. Any reason beyond the control of concessionaire (3rd party permissions or natural calamities) has to be considered in this.	In clause 3.5.5. "two hours" will be read as "3.5 hours".

36	Concessionaire responsibilities	3.5.7	<p>It is the responsibility of the Concessionaire for the watch and ward of the assets / services created in this project except luminaries. The Concessionaire has to replace the material(s) / equipment(s) in case of any theft or loss due to any other reasons, which affects the services / assets provided for the NDMC under this project.</p>	<p>The responsibility of Watch & Ward should rest with NDMC for all assets/services including Luminaries, CCTV and all related accessories, Network Gateways/Switches/Power backup installed for the exclusive use of NDMC and Citizens including Free Wi-fi services.</p> <p>The concessionaire cannot be held responsible for any theft/loss/damages to the equipment and accessories which is beyond the control of the concessionaire</p>	No change in RFP.
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37	Concessionaire responsibilities	3.5.10	<p>The Concessionaire has to use the existing poles to provide the LED / Smart / Semi-Smart LED street lights, Wi-Fi, CCTV. Replacement of brackets on poles, wherever required, will be done by the Concessionaire . If Concessionaire feels that any of the existing electric pole needs replacement to enable fixture of these equipments, the same will be done by the Concessionaire at its own cost subject to approval of the design, aesthetics and safety of the pole by the NDMC. If at any stage NDMC wants to upgrade / replace these poles as per its own assessment, then NDMC will bear the cost of replacement of electric poles.</p>	<p>It is assumed that all the existing street light poles will be capable and sufficient to host the desired LED lightings and CCTV including its accessories. If this requires to be strengthened or replaced, NDMC should bear the cost</p>	No change in RFP.
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38	Concessionaire responsibilities	3.5.11	if the concessionaire wants to replace the existing pole with a pole of other height, he shall take prior permission in writing from the NDMC before doing so. The replaced pole shall be aesthetically good and structurally stable as per NDMC specifications		It is understood that the approval for such design which can host the telecom equipments for multiple operators shall be given in advance for the Masts being put with expected heights of 25-30 Mtrs.The LED Lights and CCTV if required shall be installed at desired heights. The Masts can be camouflaged as per design and the design for such Masts can be submitted along with bid document. Additionally there should be no requirement of taking separate NOC from NDMC for putting up such masts for telecom services.	No change in RFP, considering modified clause 3.5.11.
39	Concessionaire responsibilities	3.5.15	The Concessionaire is required to provide adequate battery bank to ensure uninterrupted power supply to services provided to the NDMC under this project except for LED lights at street poles.		NDMC should provide power supply with back up. Management of batteries in open environment is a challenge and beyond the control of Concessionaire.	No change in RFP.

40	Concessionaire responsibilities	3.5.18	Any damage to other services arising due to execution or repair or maintenance work by the Concessionaire shall have to be made good by the Concessionaire within 48 hours of such damage, failing which NDMC has right to get it done at the risk and cost of the Concessionaire and in such case, NDMC will charge double of the cost incurred on making it good from the Concessionaire.		While all efforts shall be made to rectify such damages within defined period but for some reasons if not done , the repair cost for same should be taken on actual cost only.	No change in RFP.
41	Concessionaire responsibilities	3.5.21	Failure to pay the Concession Fee in time will attract an interest of 18% per annum on the entire amount of unpaid concession fee due.		Prevailing bank rate should be applicable	No change in RFP.
42	Concessionaire responsibilities	3.5.22	The final route will be decided/approved by NDMC keeping in view the requirements of the concessionaire and site conditions		The decision to change the route can have lot of implications on network planning, hence any change should be based on mutually agreed terms	No change in RFP.
43	Concessionaire responsibilities	3.5.26	NDMC will appoint an independent third party to check the quality of restoration work done. The cost of hiring / engaging third party will be borne by the Concessionaire and NDMC equally.		Sharing of cost for hiring of third party inspection for road restoration should be excluded or else the penalty clause of 1.5X cost should be excluded.	No change in RFP.

44	Bid documents	4.10.2 / 5.4.1.2	<p>4.10.2 Financial Bid to cover all annexure</p> <p>5.4.1.2 The information regarding cost of equipments, cost of installations, manpower costs and O&M costs throughout the concession period should be provided as per the format given in the RFP document (Annexure- 15 : Table 1 to 4).</p>	<p>Annexure 15 should be removed as the objective of this RFP is more oriented towards creating a smart city and citizen centric services. Hence detailed breakup of cost for CAPEX, OPEX, and manpower costs and expected Revenue sources is not important and desirable. ROI of the concessionaire is not the primary objective of the RFP</p>	<p>The bill of quantity shall be provided for LED lighting, CCTV, Wi-Fi and Command & Control Centre.</p>	<p>Information asked from the concessionaire is for the services to be provided by the concessionaire to the NDMC as per this RFP document, such as LED lightings, CCTVs, Wi-Fi, Data Centre, Command & Control Centre, etc.</p>
45	Administrative guidelines	4.26	<p>The concessionaire will also be responsible for coordination with Private and Public agencies for approvals and clearances for power and Utility Infrastructure</p>		<p>A necessary note/instruction is advisable to all Utility owners to provide permissions on priority including traffic permissions required for Machines and teams working on ground for all works mentioned under RFP. Any unwarranted delay in any permission and beyond the control of the concessionaire should be considered and acknowledged by NDMC while finalizing the 1 year implementation period or levying of any penalty</p>	<p>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 Concessionaire. However, this will not create any right in favour of the concessionaire for getting such permission through NDMC.</p>

46	O&M guidelines	4.27	Shall provide comprehensive on site warranty & maintenance for all the hardware items, Peripherals, CCTV's and LED Luminaries	Providing technical People for onsite maintenance and managing the team for such small replacements and maintenance activities of items like CCTV, LED Lights requires coordination & approvals from NDMC offices to achieve in defined SLA's.	We suggest that since the NDMC already has an established network of divisional and zonal offices and technical personnels in place for services like Lighting , CCTV maintenance control & Command centre, hence O&M should be excluded from the concessionaire scope except for providing 1.5% spares for such items. NDMC should manage and operate the Command & Control centre also. It is suggested that concessionaire should have only subject matter experts for services provided to assist the NDMC O&M team	No Change in RFP, considering clause 3.4.11 of the RFP document.
47	O&M guidelines	4.27	The concessionaire shall depute adequate manpower as full time dedicated onsite FMS team for day to day activities including taking back up of data etc		It is suggested that concessionaire should have only subject matter experts for Maintenance of Equipments installed and day to day activities and minor repairs and trouble shooting should be excluded from the scope	No Change in RFP.

48	Eligibility criteria	5.2.3 no. 6	<p>SI 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>(d) The ESI & EPF registration as per Labour Laws;</p> <p>(e) Registration of Labour License</p>	<p>As RJIL “Applicant” works on its various projects through “principal employer”, therefore clause 5.2.3 Sr. No. 6 (d) & (e) may please be removed as the same is not required for the purpose of qualification of applicant OR else the clause should read as applicant/Associate/principal employer.</p>	<p>In specific requirements mentioned in Sl. No. 6 of the table provided under Clause 5.2.3, after sub-clause (e), the following proviso is added:</p> <p>“Provided that in case of (d) and (e) above, if (i) ESI Registration; or (ii) EPF registration; or (iii) registration of Labour License, is/are 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 signing of the agreement;”</p> <p>Documents Required mentioned in Sl. No. 6 of the table provided under Clause 5.2.3 will be read as follows:</p> <p>“Copies of relevant(s) Certificates of Registration. Undertaking on stamp paper, if applicable.”</p>
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49	Technical evaluation	5.3	<p>Approach, Methodology, Project Management, Execution Methodology, SLA management</p> <p>(i) The Technology Architecture blue print with various components asked,</p> <p>(ii) Correlation and analytics of data, integration Architecture,</p> <p>(iii) Technical and functional specifications compliance,</p> <p>(iv) Make and model,</p> <p>(v) Response to SLAs and plans to manage uptime.</p> <p>**Applicant has to offer best quality of products. Lower the quality, Lesser the marks.</p>	Please provide the benchmark/standard to assess the quality parameters if any other than the compliance to the product specs provided in RFP for evaluation process		No change in RFP.
50	Technical evaluation	5.3.2	Criteria for Technical Evaluation	What will be evaluation period for technical bid proposal		No such evaluation period is prescribed.

51	Interest cost	8.19	Any sum which becomes payable under any of the provisions of this Agreement by the Concessionaire to the NDMC shall, if the same be not paid within the time allowed for payment thereof, shall be deemed to be a debt owed by the Concessionaire to the NDMC. Such sum shall until payment thereof carry interest at 18% per annum from the due date for payment thereof until the same is paid to or otherwise realised by the NDMC.		Prevailing bank rates should be applicable	No Change in RFP.
52	Miscellaneous/LED	8.8	The concessionaire has to replace 40% of all manageable and partially manageable LED light within first 4 months and balance 60% in next 3 months		There are multiple activities involved for installation of LED lighting including finalization of supplier, approval of LED lights from NDMC, forward logistics in replacement activity, removal of old lights and reverse logistics. Considering the lead time involved for multiple activities of such proportion, we recommend that the time period should be 12 months instead of 7 months presently	Clause 8.8 will be read as follows: "The Concessionaire has to replace 25% of all basic LED lights within first four months, thereafter 50% of all basic LED lights within next four months, and remaining 25% basic LEDs within next four months, from the date of signing of the agreement. The Semi-Advanced LEDs and Advanced LEDs and other equipments will be installed as per schedule prepared by the Concessionaire."

53	Punitive clauses/SLA (Implementation period)	9.1.1	Implementation SLAs: Penalty of Rs. 50 lakh per week going up to Rs. 15 crores for maximum 30 weeks	<p>We understand that the working in NDMC area will have lot of distractions and stoppage of work which could lead to delay beyond the 12 months period such as but not limited to</p> <ol style="list-style-type: none"> 1) Any delay in approvals from NDMC like LED lights sample approval, readiness of Command and Control centre. 2) Delay in approvals from various other civic agencies like GAIL/IGL/DJB/DMR C/DTL/Police Etc 3) Stoppage of work for VIP movements 4) Stoppage of fibre laying work during monsoon period 	<p>We suggest a proper mechanism for acknowledgement of such delays caused which is beyond the control of the concessionaire and acknowledgement of same in writing and consideration of same while computing the implementation period for the project and subsequent imposition of penalty clause.</p> <p>In the implementation phase, the penalty for project delays as well as reward for earlier completion should be similar.</p> <p>Incidents which can be beyond the control/influence of the concessionaire should be explicitly defined and factored in while defining the scope and quantum of penalty</p>	<p>NDMC may extend the implementation period up to eighteen months from the date of signing of the agreement, after considering the delay caused, which the concessionaire establishes through records that it is beyond its control.</p> <p>In any case, the total concession period will not be extended beyond a period of fifteen years from the date of signing of the agreement.</p> <p>SLAs have been revised, and revised SLAs are attached as Annexure to this document.</p>
54	Punitive clauses/SLA (post implementation)	9.1.2	Post-Implementation SLAs: Different penalty clauses for non performance /SLA violation (Penalty varies from Rs. 10 lacs to Rs. 50 lacs for SLA below 99.5% up to 95%)		<p>For O&M, we suggest to keep only spares as per the defined quantity. Stringent SLAs and Penalties should be removed.</p> <p>There may be Incidents beyond the control/influence of the concessionaire/NDMC.</p>	<p>SLAs have been revised, and revised SLAs are attached as Annexure to this document.</p>

55	Punitive clauses/SLA (post implementation)	9.2	SLA defined for Wi-Fi System availability (Penalty varies from Rs. 10 lacs to Rs. 50 lacs for SLA below 99.5% up to 95%)		For O&M, we suggest to keep only spares as per the defined quantity. Stringent SLAs and Penalties should be removed. There may be Incidents beyond the control/influence of the concessionaire/NDMC.	SLAs have been revised, and revised SLAs are attached as Annexure to this document.
56	Punitive clauses/SLA (post implementation)	9.2	SLA for availability of Wi-Fi System on Internet through Access Points (AP) (Per AP hour)	Kindly revise the SLA to 99% w.r.t Overall Quarterly Network Availability since the SLA of 99.5% is too high for a Wi-Fi Environment.	As WiFi equipments (Access Points, switches etc.) would be exposed to the extreme climate, which may lead to break down of equipment. It is thus requested that the SLA for uptime of WiFi services should not be more than 99%	SLAs have been revised, and revised SLAs are attached as Annexure to this document.
57	Punitive clauses/SLA (post implementation)	9.2	SLA for availability of Wi-Fi System on Internet through Access Points (AP) (Per AP hour)	Also Wi-Fi being a service normally availed during prime hours, the SLA should be w.r.t prime hours for e.g. 8am to 8pm, wherein downtime due to electric supply failure, theft etc. should be considered as Force Majeure Cases	As WiFi equipments (Access Points, switches etc.) would be exposed to the extreme climate, which may lead to break down of equipment. It is thus requested that the SLA for uptime of WiFi services should not be more than 99%	SLAs have been revised, and revised SLAs are attached as Annexure to this document.
58	Punitive clauses/SLA (post implementation)	9.3	SLA defined for Internet throughput greater than 1 MB. (Penalty varies from Rs. 10 lacs to Rs. 50 lacs for SLA below 99.5% up to 95%)		For O&M, we suggest to keep only spares as per the defined quantity. Stringent SLAs and Penalties should be removed. There may be Incidents beyond the control/influence of the concessionaire/NDMC.	SLAs have been revised, and revised SLAs are attached as Annexure to this document.

59	Punitive clauses/SLA (post implementation)	9.4	SLAs for CCTV Surveillance System and ANPR cameras (per camera	<p>What are the SLAs for ANPR performance for different vehicle categories (cards, bikes, heavy vehicles etc.)?</p> <p>Number recognition accuracy for standard and non standard number plates? What speeds the ANPR is required? Any Indian letters/language to be supported (Hindi/ etc.)?</p>		<p>At any speed, the concessionaire should ensure $\geq 95\%$ vehicles detection accuracy.</p> <p>For vehicle number plates, the accuracy should be $\geq 75\%$ during daytime and $\geq 70\%$ during nighttime.</p> <p>ANPR may not be required to identify the vehicles number plates in Hindi / other regional language.</p> <p>Application software should have provision to store stolen / black listed vehicle numbers manually/automatically. System should support Centralized ANPR system through SDK and should take updates of Stolen Vehicles / Black listed vehicles data from centralized ANPR system.</p>
60	Punitive clauses/SLA (post implementation)	9.4	SLAs defined for CCTV Surveillance System and ANPR cameras (Penalty varies from Rs. 10 lacs to Rs. 50 lacs for SLA below 99.5% up to 95%)		<p>For O&M, we suggest to keep only spares as per the defined quantity. Stringent SLAs and Penalties should be removed.</p> <p>There may be Incidents beyond the control/influence of the concessionaire/NDMC.</p>	<p>SLAs have been revised, and revised SLAs are attached as Annexure to this document.</p>

61	Punitive clauses/SLA (post implementation)	9.5	SLA defined for Central Command & Control room services uptime (Penalty varies from Rs. 10 lacs to Rs. 50 lacs for SLA below 99.5% up to 95%)		For O&M, we suggest to keep only spares as per the defined quantity. Stringent SLAs and Penalties should be removed. There may be Incidents beyond the control/influence of the concessionaire/NDMC.	SLAs have been revised, and revised SLAs are attached as Annexure to this document.
62	Punitive clauses/SLA (post implementation)	9.6	SLA defined for basic and semi-smart LED luminaries and their controller(s) (Penalty varies from Rs. 10 lacs to Rs. 50 lacs for SLA below 99.5% up to 95%)		For O&M, we suggest to keep only spares as per the defined quantity. Stringent SLAs and Penalties should be removed. There may be Incidents beyond the control/influence of the concessionaire/NDMC.	SLAs have been revised, and revised SLAs are attached as Annexure to this document.
63	Punitive clauses/SLA (post implementation)	9.7	SLA defined for other systems not explicitly covered (Penalty from Rs. 1-2 lacs defined for information security breach, network and system security breach on hourly basis and guideline breach on daily basis)		For O&M, we suggest to keep only spares as per the defined quantity. Stringent SLAs and Penalties should be removed. There may be Incidents beyond the control/influence of the concessionaire/NDMC.	SLAs have been revised, and revised SLAs are attached as Annexure to this document.
64	Punitive clauses/SLA (post implementation)	9.4/9.6/9.7	Post Implementation SLA's	SLA of 99.5% for LED lights and CCTV is very stringent as there could be failures because of various reasons beyond the control of concessionaire including erroneous power supply, vandalism, theft,	For O&M, we suggest to keep only spares as per the defined quantity. Stringent SLAs and Penalties to be removed. There may be Incidents beyond the control/influence of the concessionaire/NDMC.	SLAs have been revised, and revised SLAs are attached as Annexure to this document.

				mishandling etc ; hence it is suggested by us to relook into this penalty clause and reasonable exclusions should be provided on case to case basis.		
65	Force Majeure	10.2	force majeure events		The Concessionaire 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 that is outside the control of Concessionaire ('Force Majeure').	No change in RFP.
66	Events of Default	11.1 (v)	The Concessionaire has failed to ensure minimum shareholding requirements specified in clause 5.2		Restricts concessionaire from changing its shareholding structure. Shareholding of concessionaire needs to be negotiated.	No change in RFP.
67	Events of Default	11.1 (xii)	The Concessionaire is not able to meet the SLAs minimum requirement of 95% uptime at all the times or otherwise.		Clause to be deleted	SLAs have been revised, and revised SLAs are attached as Annexure to this document.
68	Withdrawal of termination notice	11.6	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.		Clause to be deleted	No change in RFP.

69	Termination payments (Implementation period)	11.7 (a)	Performance Bank Guarantee furnished by the Concessionaire, and all the assets and services created under this project will become the property of NDMC.	" all the assets and services created under this project will become the property of NDMC." Exclusion of Telecom services related infrastructure is missing	RFP needs to provide both parties with a right to terminate.	<p>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.</p> <p>This will include Performance Bank Guarantee furnished by the Concessionaire, all the assets & services created under this project for NDMC usage and for providing free Wi-Fi.</p> <p>This will exclude Telecom Services related infrastructure created by the Concessionaire for its sole usage.</p>
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70	Termination payments (post implementation)	11.7 (b)	However, the Concessionaire will be allowed to use the fibre network laid by it as per NDMC policy in force at that time and as applicable to other service providers only after successful delivery of the services /deliverable under this RFP document to the NDMC, including LED Street Lights, CCTVs, four pair in the optical fibre laid by the Concessionaire, Command and Control Centre inclusive of Networking and Data Centre.	NDMC has not given concessionaire any termination rights. Concessionaire needs to reserve its right for termination	RFP needs to provide both parties with a right to terminate.	The concessionaire 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.
71	Dispute resolution	12	dispute resolution		1.In case of dispute both parties shall have a right to invoke arbitration as per Arbitration and Conciliation Act, 1996. Three Judges Arbitration panel. Each Arbitrator to be appointed by the parties and two appointed arbitrators shall appoint the third Arbitrator. 2. In case Arbitrator to be appointed by NDMC Chairman, then Chairman may suggest names from the panel of Retd Judges. Parties may consent for one name	No change in RFP.

72	Cooperation and provision of information	14.3	(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;		It shall be at the discretion of the concessionaire to allow NDMC to access information	No change in RFP.
73	MPLS aggregation POP	15.1.5	(i) Network connectivity required up to Police Stations in NDMC area for viewing CCTV footage. Police station Sites to be confirmed (ii) Network connectivity up to all eleven Billing centers of NDMC area.	Please clarify	Site details of viewing center, police stations and billing centers are required.	Location of Police stations are: (i) Sansad Marg, (ii) Connaught Place, (iii) Barakhamba Road, (iv) Tughlak Road, (v) Chanakyapuri, (vi) Sarojini Nagar (vii) Tilak Marg, (viii) Mandir Marg, (ix) Lodhi Colony, (x) Kotla (Partly), (xi) Upcoming Police Headquarters at Jai Singh Road. Network connectivity up to all fifteen Billing centers of NDMC area. The concessionaire will finalize these locations with prior approval of the NDMC.
74	Functional requirement of Command and Control Centre	15.2.1	The platform should be able to integrate with other e-governance and business application to read and analyses data from those applications to be visualized on the integrated dashboard.	Integration can be done through a standard API. No integration scope for e-governance applications is included in it.		No change in RFP.

75	Data centre switch	15.2.3	Technical Specifications for Data Center infrastructure	Is DC and CC in same premises? If so please provide the location details and MEP works required with DC size	Details of DC and CCC with area available, power and back up available are required.	<p>DC and CCC can be in same premises or at different locations.</p> <p>DC and CCC are to be created by the concessionaire. The concessionaire will give the space requirement along with the architectural design showing Civil, Electrical & Air-conditioning work for data centre & CCC. Accordingly, NDMC will provide the space in Palika Kendra or any other location. Clause 3.2.4.4 will be read as "Necessary Civil, Electrical work including furniture, but excluding Air-conditioning shall be the responsibility of NDMC for Data Centre, and Command & Control Centre".</p> <p>NDMC will provide free electricity for DC and CCC but all other responsibilities lies with the concessionaire.</p>
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76	Functional requirement of City Surveillance	15.5.1	Functional requirement of City Surveillance- Video storage	As per the RFP it says recording at 15FPS/2MP for 30days. Please clarify the following: a) is the recording specs are same for day and night? b) is the recording specs are same for low and high motion areas? and for working and non working days? C) after 30days the video storage is backed up by NDMC as offline storage? If so it should be in scope of NDMC		Concessionaire has to provide recording solution at 15FPS of 2MP for day as well as night. Proposed application should support for back-up, if required by the NDMC.
77	Video management system	15.5.2.1	VMS Note - Video Surveillance Software and Cameras should be from single OEM		Video Surveillance Software and Cameras of various brands are available in the market. To ensure we procure the best quality at right prices, the spirit of competition has to be brought in. Therefore, it is imperative to have multiple vendors for selection. Hence, procurement should not be restricted to one single OEM	It is preferred to have Video Surveillance Software and Cameras from single OEM for better integration and interoperability perspective. In case more than one OEM is proposed then in such case, there should be compatibility and interoperability and integration between the Surveillance Software and Camera. Preference will be given to solution from single OEM in QCBS criteria. However, Concessionaire are free

						to provide the various brands solution, same will be evaluated in QCBS criteria.
78	Video management system	15.5.2.1	OEM Criteria All proposed Cameras should be from single OEM and OEM should have Registration in India min from 10 Years	Request NDMC to remove this clause and especially being from same OEM and OEM being in India for last 10years as most of the products are imported		No change in RFP.
79	HD Cameras	15.5.2.2	Type 1- PTZ - High Definition Camera	Power source can be either AC or DC based on the overall field engg. NDMC shall give the flexibility to the bidder		No change in RFP.
80	HD Cameras	15.5.2.2	Type 1- PTZ - High Definition Camera	what is the contact rating required for DI and DO?		Camera should support for input and output ports, state change of an input port triggers a camera to take defined action. An output port sends signals that can control 3rd party devices.
81	HD Cameras	15.5.2.2	Type 1- PTZ - High Definition Camera	Please clarify if Micro SD card slot support or also provide the storage card?		Storage card is to be provided by the Concessionaire.

82	HD Cameras	15.5.2.3	Type 2- PTZ - Standard Definition AI X4, AOX2	Please clarify if it is Analog input/output or video aux Input/output?		Requirement of this camera has been deleted from the RFP document.
83	Video & Audio Analytics	15.5.2.8	Video & Audio Analytics Audio Analytics - The System should support Audio Analytics at camera edge or at server level, should have provision to enable the following audio analytics with any camera, system Gunshot software shall be provided No change in RFP. requirements:	For Audio analytics, please advise a separate external microphone required or use Mic built into camera? Best practice is to use separate high quality micro phone for Gunshot detection		Concessionaire has to ensure functionality of system. No change in RFP.
84	Not covered in RFP	General	Interference free WiFi services	RJIL request to provide the exclusivity to provide WiFi in NDMC area as mentioned in RFP during the concession period	In order to provide glitch free Public WiFi service, we would need an interference free environment for our access points. For which there should be no other AP(s) (of any other operator) be deployed in vicinity, as they may cause interference & thus, impact the performance. The concessionaire should get exclusivity for creating Public WiFi services in the demarcated area / geography	No change in RFP. NDMC will not allow any exclusive rights for public Wi-Fi services.
85	Not covered in RFP	General	Kiosk / Physical marketing space	In order to serve the citizen better, kiosk space should be assigned to concessionaire. This kiosk would also act as a customer help	Request to consider	No change in RFP. NDMC will not allow any Kiosk/Physical marketing space.

				desk		
86	Not covered in RFP	General	Device Life Cycle	Hardware/Software Refresh timeline is not mentioned.	Refresh time line is required as it will add to the project cost	As per requirements of services asked in the RFP document, including SLAs.
87	Not covered in RFP	General	If there is any need of concessionaire for the space on NDMC building/premises for any site/equipment installation requirement, is the same available (beyond the poles) ?	Can we get permission to install equipment devices in NDMC buildings?		No other space will be provided at all.
88	Not covered in RFP	General	It is assumed that the fiber permission is available in the entire NDMC area for all the roads and lanes. If there is any restriction, the same may pl. be clarified.	Is there any limitation for permission in NDMC area? Please clarify		All permissions are subject to statutory approvals, security clearances, and conditions mentioned in the RFP document, including clause 3.5.22.
		3.2.4.4	Necessary civil work including furniture shall be the responsibility of NDMC			Clause 3.2.4.4 will be read as "Necessary Civil, Electrical work including furniture, but excluding Air-conditioning shall be the responsibility of NDMC for Data Centre, and Command & Control Centre".

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89	General				Extension of RFP submission date to 30th June, 2016 because of the expansive nature of the project.	Bid submission date has been extended from 31-5-2016 to 14-6-2016.
90	1.2				Requesting Concession Period to be increased to 25 years from the current 15 years envisaged in the RFP for economic viability.	No change in RFP.
91	1.2				Request to include High Mast Poles in NDMC area in the scope of RFP in order to provide better network coverage. Please Confirm.	Read reply to Sl. No. 5 above.
92	1.2				No Termination of contract to be done before the concession period by NDMC. In case of termination, NDMC to reimburse the concessionaire, the CAPEX invested along with interest.	No change in RFP.
93	1.2 (III)				Wi-Fi speed provisioning for 1 Mbps is requested without mentioning number of people, device type. Please specify the number of people for which 1 Mbps is desired as it is highly impossible to estimate the movement of people in the area where Wi-Fi is desired. Please	There is no limitation on the number of people and device type for accessing free Wi-Fi at 1MBPS speed.

					clarify.	
94	1.2 (III)				It is also understood that free Wi-Fi 50 MB per day is for per user and not per location. Please confirm	Free Wi-Fi data is 50 MB per day per user.
95	1.2 (v)				NDMC to be provided 4 pairs of optical Fibre. Please clarify from where till where is the Fiber pair required.	<p>Four pairs of optical fibre are required in complete network created in NDMC area, including from Command & Control Centre to equipments at last mile.</p> <p>The optical fiber may not be extended to each pole (last mile connectivity to each pole) and the connectivity will be provided through POE/ CAT5/CAT6 cables depending on the equipments to be connected (such as Wi-Fi APs, LEDs Controller, CCTV cameras etc.). Distance of aggregation switch cannot be more than 50 mtrs. from the equipments i.e. gateways for luminaries controller, CCTV, Wi-Fi access point.</p> <p>Further, there should not be any loss of data and optimal bandwidth is ensured for each</p>

						equipment.
96	3.2				Requesting Implementation Stage / Go LIVE period to be increased to 36 Months from currently envisaged 12 months due to restricted time window available for execution. e.g. In Monsoon Season and in Day Time, Fiber laying isn not possible / permitted in NDMC areas. Please Confirm.	<p>NDMC may extend the implementation period up to eighteen months from the date of signing of the agreement, after considering the delay caused, which the concessionaire establishes through records that it is beyond its control.</p> <p>In any case, the total concession period will not be extended beyond a period of fifteen years from the date of signing of the agreement.</p>
97	3.2.1.1				Wi-Fi is to be provided in the locations specified. Any structure, power connection, Free Right of Way and restoration to be done/provided by NDMC for such locations. Please confirm	No change in RFP.
98	3.2.2 (G)				Communication Connectivity for LED Lights is desired. NDMC to pay the concessionaire the connectivity charges. Please clarify.	No change in RFP. It is the responsibility of the concessionaire.

99	3.2.3				For the CCTV mentioned locations, Fibre laying would be required. Any Structure, Power connection, Free Right of Way and restoration to be done /provided by NDMC for such locations as Fiber laying would be required. Please Confirm.	No change in RFP. It is the responsibility of the concessionaire as per the RFP document. Refer reply to Sl. No. 27 above.
100	3.4				Request NDMC to allow Laying of fiber for 5 years instead of 3 years as mentioned in the RFP. Please confirm	Refer reply to Sl. No. 22 above.
101	3.4.1				The RFP mentions use of ROW. It is assumed that no ROW or Restoration charges to be charged to concessionaire for Fiber and restoration is to be done by concessionaire on its own. Please Re-confirm	Permission for use of ROW for laying of optical fibre is free, subject to the provisions made in the RFP document.
102	3.4.1				RFP Provides the concessionaire to lay Fiber for 3 years. It is assumed that Fiber can be laid anywhere in the NDMC area in addition to the requirement of this RFP without any ROW or restoration charges by NDMC. Please confirm	Refer reply to Sl. No. 88 above.
103	3.4.1				Fiber can be laid by Concessionaire, its associates/group companies or any parties duly authorized by the concessionaire. Please confirm	Only concessionaire, including through sub-contractor, can lay its optical fibre as per this RFP document.

10 4	3.4.3 (i)				In case of DOT and or any other agencies instructs to deinstall telecom equipment on the street poles or does not allow to put telecom equipments, thus making this RFP VOID. In this case, NDMC to reimburse the CAPEX invested along with interest. Please confirm.	No change in RFP. NDMC will not reimburse the CAPEX nor any interest thereof in case of any such incident.
10 5	3.4.3 (ii)				NDMC to allow and provision for Space availability near (at the base of) each street poles for hosting the Telecom equipment and related accessories	Applicant has to specify the underground space requirement below each pole for telecom equipments, and seek prior permission from the NDMC. NDMC will allow use of underground space of reasonable size below street poles for hosting of the telecom equipments and related accessories, subject to structural stability of the pole.
10 6	3.4.3 (ii)				NDMC to allow concessionaire the Right on pole for advertisements as well. NDMC to not have any rights to use street poles under this RFP for monetization / advertisement. RFP mentions that concessionaire will have no right on the pole other than hosting Telecom Equipment. Please confirm.	No change in RFP.
10 7	3.4.3 (ii)				Concessionaire and or concessionaire authorised parties to have EXCLUSIVE right on the NDMC street poles to host telecom equipment.	No change in RFP.

10 8	3.4.4				<p>NDMC to pay for all the electricity consumed by LED, Wi-Fi, CCTV, Command and Control Centre operations and any other consumables used in the project. Please confirm.</p>	<p>All the electricity consumed for providing service to NDMC, like city surveillance, LED street light, DC & CCC and for any other equipment used for this project except Wi-Fi services, will be free of cost.</p> <p>The Concessionaire will take separate metered electric connections for running his services, including Wi-Fi services.</p> <p>Responsibility of all consumables will be of the concessionaire, except the consumables at DC and CCC (like papers, toners etc.) for which NDMC will bear the cost.</p>
10 9	3.4.5				<p>The placement of transmission equipment (Fiber POP, FMS Rack, etc) in control and command center premises needs to be defined.</p>	<p>All the equipments required for Command & Control Centre including fibre POP, FMS Rack etc. will be the responsibility of concessionaire, except as mentioned in clause 3.2.4.4.</p> <p>Clause 3.2.4.4 will be read as follows: "Necessary Civil, Electrical work including furniture, but excluding Air-conditioning shall be the responsibility of NDMC for Data Centre, and Command & Control Centre".</p>

110	3.4.5				Civil and Electrical work required for installations of Gateway, Switches, Routers, etc. for NDMC services to be excluded from the scope of this RFP and should be arranged by NDMC. Please Confirm.	No change in RFP, considering modified clause 3.2.4.4.
111	3.4.9				After the end of concession period, Incumbent Concessionaire to be given first right of refusal for continuance of services as the CAPEX invested in disproportionately high.	No change in RFP.
112	3.4.12				Please mention the list of area where NDMC has full control.	NDMC area map is already a part of RFP document. NDMC has full control on the services/permissions to be provided by the NDMC, subject to conditions as mentioned in reply to Sl. No. 88 above.
113	3.4.12				NDMC will provide Single Window Clearance where it has full control is mentioned. Requesting NDMC support and single point of contact with other civic agencies like Traffic Police, Delhi Police etc or any other where permission is to be sought. Please confirm.	Single Window Clearance is for NDMC related permissions. Refer reply to Sl. No. 45 above.
114	3.5.1.				Concessionaire to provide 4 pairs of optical fibre. Necessary equipment to light this fiber to be brought in by NDMC. Please confirm.	It is responsibility of the concessionaire to provide all related equipments as per specifications defined in RFP document.

11 5	3.5.2				For sake of clarity, request NDMC to provide citizen facilitation location along with expected bandwidth requirement where to lay Fiber or Copper?	The concessionaire has to provide the fiber connectivity to all locations as covered in this RFP document.
11 6	3.5.3 (g)				We understand the concessionaire has to do operation and maintenance. Hence, the scope of concessionaire is limited to providing IT and communication support for running the network and staffing and manning to be done by NDMC. Please confirm	Operation and Maintenance responsibilities will be as defined in the RFP document.
11 7	3.5.3 (g)				For sustainability of the project, It is requested to reduce the period of operation and maintenance to be reduced to 5 years beyond which NDMC to pay for O&M charges to the concessionaire including replacement of CCTV, LED, Wi-Fi, Switches, Routers and other accessories.	No change in RFP.
11 8	3.5.5				NDMC to maintain the fiber pairs given by the concessionaire by themselves at their own cost. Concessionaire may render its assistance for faster resolution of fault at a mutually agreed price. Further in some cases, it may be necessary to put overhead fibre which shall be allowed by	No change in RFP.

					NDMC. Please confirm	
119	3.5.6				Future services provisioning will be based on technical feasibility.	No change in RFP.
120	3.5.7				It is proposed it should be a joint responsibility and NDMC should at least bear 50% of the cost incurred to replace material / equipment after theft	No change in RFP.
121	3.5.9 (c)				It is suggested that NDMC should pay for Separate internet connection of 200 mbps desired for command and control centre in the RFP as it is to be used for applications beyond the scope of the RFP	No change in RFP.
122	3.5.11				Concessionaire would submit its design of the street pole being replaced for placing the telecom equipment which shall be duly approved by NDMC from all perspective.	No change in RFP.

12 3	3.5.11				NDMC will not charge concessionaire any other fee / levy for installing telecom equipment on the street poles other than the bid amount. Please confirm. All necessary approvals will be provided by NDMC without any extra charges within 15 days	NDMC will not charge any fee for installation of telecom equipments on the street light poles covered under this RFP document during the concession period, subject to the conditions of the RFP document. Refer reply to Sl. No. 33 above.
12 4	3.5.10				Concessionaire to replace the street poles only where it intends to install the telecom equipment and the existing pole is structurally not suitable to take the load of telecom equipment. All other places, NDMC to ensure the existing street poles is capable of taking the load of LED / CCTV / Wi-Fi etc being desired by NDMC on such poles. Please confirm.	No change in RFP.
12 5	3.5.14				Dismantled fittings / poles shall be handed over to NDMC by concessionaire at the site only. NDMC will make arrangement for its transportation on its own cost. Please confirm.	No change in RFP.
12 6	3.5.15				Adequate battery bank can be provided only in command and control centre. For all services, CCTV, Wi-Fi, etc, NDMC to bring in their own battery backup. Any SLA hit on account of non-availability of power will not be considered.	No change in RFP.

12 7	3.5.16				<p>RFP ask that the ownership of asset to be transferred to NDMC from day 1. We seek your clarification, how the ownership will be transferred? Who would be paying for the VAT, GST in case of ownership transfer through the sale. Further, the concessionaire intends to raise bank finance by creating Lien on such Assets which will not be possible in case the asset is transferred to NDMC. It is suggested to delete this condition and the ownership of assets created to rest with concessionaire.</p>	<p>The Concessionaire has to create the infrastructure for the NDMC in lieu of the ROW and right to use the street light poles during the concession period as per this RFP document.</p> <p>The concessionaire is not allowed to raise finances against assets created for NDMC, since these assets will be the property of NDMC.</p>
12 8	3.5.17				<p>In case the concession period is not renewed, the concessionaire shall handover all the assets as-is where-is condition as on last day of the concession period and will not any responsibility of rectifying and replacing it. NDMC to releast the performance guarantee immediately after concession period.</p>	<p>No change in RFP.</p>
12 9	3.5.19				<p>Power cables, gas line, water supply line, sewer line, cables of telecom providers, defense installation etc. GIS and location drawings required. Please confirm availability</p>	<p>There is no consolidated GIS map available showing underground power cables, gas line, sewer line etc.</p> <p>The concessionaire will have to deploy advanced trenchless machine, which can detect utility services coming in its alignment.</p>

130	3.5.20				10% increase in the quantity is too large as contingency. It should be reduced to 1%. Please confirm.	No change in RFP.
131	3.5.21				Is the concession fee inclusive of taxes. In case, it is please specify the nature of different taxes. It is suggested for the concession fee to be inclusive of taxes.	The concession fee is exclusive of taxes. The concessionaire has to see & bear the applicable taxes, if any. Refer clause 5.4.1.4.
132	3.5.25				In case the delay is beyond the control of the concessionaire and / or force majeure, the delay should be considered suitably.	No change in RFP.
133	3.5.26				Cost of third party audit should be with the consent of concessionaire. NDMC to inform the rate of third party audit to concessionaire at least 30 days in advanced.	NDMC will engage third party through open tender on QCBS basis.
134	4.26(ix)				It is suggested that two person per 8 hour shift will be provisioned by concessionaire to manage IT related issues at the command and control centre. Please confirm	As per clause 5.3.2 criteria for technical evaluation Sr. No. 6 - Manpower deployment. The total weightage is of 8.5 marks. The evaluation of the bid will be done based on the proposed Manpower deployment for this project by the applicant.
135	4.27 (i)				Please share the operation and maintenance policies of NDMC as mentioned here.	The concessionaire has to follow the operation and maintenance policies and procedures, as applicable from time to time.

13 6	4.27 (v)				On-Site warranty for all the hardware items will be extended only if it is extended by the OEM vendor used for such hardware's. Please confirm.	No change in RFP. Comprehensive O&M period is throughout the concession period in accordance with this RFP document.
13 7	4.27 (ix)				Please define the timeframe for data backup?	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 during the concession period.
13 8	4.27 (xii)				Please define "ANY" software and hardware devices? Does it mean any software required for the performance of the RFP	No change in RFP.
13 9	4.27 (xiii)				Process to be mutually agreed. The concessionaire shall inform NDMC regarding make of the model and NDMC to revert with 7 days failing which will be treated as deemed acceptance and replacement can't be provided. Please confirm	No change in RFP.

14 0	4.27 (xiv) (xv)				Hardware / Software system to be provided by concessionaire only ONE time and will not include replacement.	No change in RFP.
14 1	5.3				Technical Evaluation: CCTV, Wi-Fi Access Point and LED experience – Both, In India and or outside India to be considered as experience? Pls. confirm	Experience of the applicant within India or outside India will be considered. Attention is invited to the Note to the clause 5.3.2.
14 2	6.7				In case of failure to agree to terms and conditions in the RFP, the cure period to be extended to 90 days.	No change in RFP.
14 3	9				It is suggested that O&M to be meant for only maintaining the SLA and should not include manning for command centre.	No change in RFP, considering clause 4.27 (iii) & (vii).
14 4	9				It is suggested that SLA should be only for governance purposes and there should be no Penalties. In order to ensure compliance, maximum penalty should be not more than 5% of concessionaire fee.	No change in RFP.
14 5	15				Energy for CCTV and Wi-Fi to be paid for by NDMC	Electricity for CCTV will be provided by NDMC, but electricity charges for Wi-Fi equipments will be borne by the concessionaire.

14 6	15.2.1, 4c				Most of the command and control solutions are premise based. We request to change the clause to "Hosted in Datacenter or Cloud based as per solutions' capability"	The command and control platform will be hosted in data centre in NDMC premises.
14 7	15.2.1. 4f				Require details about existing systems and their API and protocol details. We assume those will be provided by NDMC during deployment and will set up joint responsibility among bidder and e-gov application owner	The details will be made available during the deployment. The platform should be able to integrate with other e-governance and business application to read and analyses data from those applications to be visualized on the integrated dashboard.
14 8	15.2.1				We assume NDMC will provide GIS map with LAT LONG Position for the sensots and other data points on the map. Need clarification on the same.	NDMC will provide the existing GIS map, if any, on As And Where Basis. It will be responsibility of the concessionaire to provide new GIS map for command and control centre.
14 9	15.2.2 point 5				Please confirm the understanding that in this clause are you asking supervistor to view and monitor but does not acknowledge any event or alarms. Is he the supervisor responsibly only for viewing.	No change in RFP.
15 0	15.2.2 Point 19				We assume NDMC will provide GIS map with LAT LONG Position for the sensors and other data points on the map. Need clarification on the same.	Refer reply at Sr. No. 148 above.

15 1	15.5				Is the Storage of CCTV data to be planned for 30 days. Please re-confirm	Yes
15 2	General				Saving in energy from replacement with LED Lights to be mutually discussed and shared with concessionaire.	No sharing of energy saving is allowed.
15 3	General				NDMC to give permissions to use govt properties in the NDMC area for use by concessionaire for installing telecom equipment	NDMC properties will not be allowed to be used by the concessionaire for his usage, including for installation of telecom equipments, except 18500 poles and high mast poles, if any.
15 4	General				The connectivity of CCTV to command and control centre to be provided will be local bandwidth. No Provision of internet bandwidth is planned	The connectivity of CCTV to command and control centre to be provided will be local bandwidth. NDMC has asked for a separate Internet lease line at command and control centre as per clause 3.5.9(c).
15 5	Eligibility Criteria				It is mentioned consortium should have one Applicant with a Universal Access Service License [UASL/ UL(AS)]. Kindly clarify if consortium member having ISP licensees ONLY will meet the eligibility condition.	Proviso to (ii) of Specific requirements in clause 5.2.3 at Sl. No. 2 may be read as follows: “Provided that in case of (ii)(a) and (ii)(b) above, such Applicant shall have one partner in consortium having a Universal Access Service License [UASL / UL(AS)] or Category ‘A’ ISP licensee from Department of Telecommunication, Govt. of India.”

156	General				Is negative financial bid allowed i.e. NDMC covers some cost as viability gap funding or project support. How will the financial scoring work if all the bidders have bid negatively for the RFP. Please clarify the same.	Not allowed.
157	15.5.2.6				As 2MP(1920*1080) is High definition, enough to take video at traffic junction. It will help to provide a good quality video and at same time save the cost as against 2560x1920 specified.	No change in RFP.
158	General				Please provide GIS maps with Latitude and longitude for the existing street light poles	Refer reply at Sr. No. 148 above.
159	General				Description of incidence and exception to be defined for surveillance	No change in RFP.
160	General				Civil, Structure & Electrical Design, drawings & specs for existing street light poles	No change in RFP.
161	General				List of Utility services under street light pole	No change in RFP.
162	General				Please share current algorithm and SOP of operating method and time during winter and summer	No change in RFP.

16 3	Annexure 4 (VI)				Please share the Wi-Fi requirement on the Key Roads? Should the Wi-Fi coverage be provided on both sides of the roads? Is there need of seamless Wi-Fi coverage or any hotspots would be defined?	No change in RFP.
16 4	Annexure 4 (IX)				Is the 300 number fixed for residential area?	300 numbers APs in the residential area are in addition to the requirement of hotspots defined at Sr. No. (i) to (viii) of Annexure-4. The number of equipments will not increase by more than 10% as defined in the RFP document (clause 3.5.20).
16 5	General				Please clarify if camera feeds and different sensor data will be displayed on the map.	Yes.
AIRTEL						
16 6	General				Request Extension of RFP submission date to 30 th June, 2016 because of the expanse of the project.	Refer reply at S. No. 89
16 7	9	1.2			If 4 pair requirement in certain area/sections/location asked by NDMC can be met by existing fiber of OPCO, will it be still mandatory to lay fiber again in that area - Kindly clarify.	NDMC requires four pairs of optical fiber upto all last mile locations mentioned in RFP document (refer reply to Sl. No. 21). If any concessionaire provide these four pairs of fiber from their existing optical fiber, then NDMC has no problem. However, the concessionaire shall meet the conditions of the RFP document in such case.

168	16	3.1.5			The point mentioned that the Future Smart City Services to be integrated. While few services are listed, it also says other services. Need a clear mentioning of the services and expectation in an elaborated manner.	Clause 3.5.6 read with clause 15.2 will apply. APIs to be provided by the concessionaire free of cost.
169	17	3.1.6			Lat/Long and pole height required for 18500 poles. Request to share the details of wind load to be considered for the poles. Also the details of dead weight these pole can sustain are requested to be shared Do we need to camouflage the poles post placing the telecom equipment request to share the life of these poles	No such details available. The applicant may do the survey as per their requirement. The concessioner has to camouflage the poles to maintain the aesthetics and structural stability, after installment / replacement / maintenance of the telecom equipments.
170	17	3.1.6			Request that the High Mast Poles at roundabouts and in the Parks/other areas should be included.	Refer to reply at S. No. 5 above.
171	17	3.1.7			If there is a need to strengthen the pole for sharing the infra with other operators, shall we do strengthening on pole for sharing	Refer modified clause 3.5.11 as mentioned at reply to Sl. No. 7 above.
172	17	3.1.7			Our understanding is that the Fiber pairs can be leased to other parties. Request confirmation	Services through fiber pairs can be leased to other parties by the concessionaire, subject to the conditions of the RFP document.

17 3	17	3.1.7			Need clarity on number of Fiber cables and Ducts to be laid	As per concessionaire requirement, subject to the conditions of the RFP document.
17 4	18	3.2.1			We need clarification on Point "Public at minimum one (1) Mbps speed with a minimum throughput of 100kbps with minimum limit to download 50MB data per day subject to a limit of 1 GB per month throughout the concession period" Does it mean 1Mbps per AP and 100kbps per user.	Wi-Fi speed per user is 1 Mbps and not per Access Point.
17 5	19	3.2.1.1			We require details on "Smart Lighting sensors requiring Wi-Fi connectivity"	Refer clause 15.3.2. All basic nodes, semi advance nodes and advance nodes are to be connected through GPRS / WiFi / RF technology (like 802.15.4, Zigbee, LoRA).
17 6	19	3.2.1.2			We require following inputs for generating estimates : Area of Wi-Fi hotspot, Peak load, Density of user devices/ concurrent users/Connections required in the area	The applicant may do the survey as per their requirement.
17 7	19	3.2.1.2			All demanded AP coverage will be outdoor and indoor coverage will not be there.	Outdoor coverage is to be ensured.

178	20	3.2.1.2			Request that the Technology Solution should be frozen for all 15 Year instead of keeping it open with inputs like (In future if Wi-fi technology is changed during concession period to any other technology, the same has to be provided by the concessionaire.)	No change in RFP. Any existing technology may not be available in future considering the fact that the concession period is of 15 years. Therefore, a provision has been kept for upgradation to new technology.
179	23	3.2.3.2			Telecom equipment installation at non pole locations/buildings & CCTV locations at NDMC facilities like Booster pumps, Sewerage center etc. should be permitted. Using CCTV pole itself or by installing extra pole for Telecom facilities.	No change in RFP. Telecom equipments installation at buildings/non-pole locations is not allowed.
180	24	3.4.3			Security considerations, Asthetic of poles & structural stability - NOC/definition/who will decide/evaluate the structure stability.	The concessionaire has to provide the structural stability certificate from reputed institute/ structural consultant (must be holding Masters Degree in Structural Engineering). All permissions are subject to statutory approvals, security clearances, and conditions mentioned in the RFP document
181	25	3.4.3			Our understanding is that the Concessioner will have the rights to lease the 18500 poles for other telecom operator and will be able to charge them. Kindly confirm	The Concessionaire will have the rights to share services of its Telecom infrastructure on poles with other telecom operators. Leasing of poles by the concessionaire is not allowed. The concessionaire does not have any exclusive right over the poles

						for installment of such telecom infrastructure.
18 2	25	3.4.3			Request to share the list of 18500 existing poles and demarcate them so that we are able to clearly distinguish the new and existing poles	List of such poles will be provided to the concessionaire after signing of the agreement.
18 3	25	3.4.6			Concessioner should be given Right to use DATA command/control centre building/ premises to use it as Fibre POP/ HUB and put GBT/GBM/RTT and IBS.	DC and CCC can only be used for the NDMC usage.
18 4	26	3.4.8			Applicant's telecom equipment shall not be dismantled till the time renewal/next bidding results are declared and 45 days thereafter for vacating the same. Fiber usage rights will stay with winner of this bid forever and new winner after 15 years will have to lay his own fiber to get this contract. Kindly clarify	No change in RFP.
18 5	29	3.5.11			Please share the Timelines/SLA for NDMC to grant the permission for height increase pole	Refer to reply as mentioned in Sl. No. 7 above.

186	94	9.5			Penalty should be based over services outages and not Equipment / losses of redundancy.	Penalty will be levied on the service down time. The concessionaire has to replace the faulty equipments within reasonable time.
187	118	15.1.4			Pl elaborate "Easy insertion of new node without config change at core switch/router"	Network should be designed in a way that any insertion of node in access and pre-aggregation layer should not require changes at aggregation and Core node, and should not create outage at Core level.
188	172	15.4			We shall need KMZ file for Roads, streets of NDMC, with Lat Longs for all Wi-Fi / CCTV locations for better planning.	Proposed Wi-Fi hotspots and CCTV locations are given in the RFP document. NDMC reserves the right to change such proposed locations. The applicant may do the survey as per their requirement.
189	General				Roads & streets on google map in softcopy in KMZ format clearly mentioning the below information, i. Width of the road, ii. Length of the road, iii. Type of road is needed for detailed planning.	The applicant may do the survey as per their requirement.
190	General	3.4			Our understanding on ROW (right of way) will be free of cost: Kindly confirm. a) In case of HDD (Trenchless Method) : Will ROW's component like, Pit creation at Kaccha/ Pakka Portion cost,	a) RoW will be free of cost for laying of optical fibres subject to the conditions mentioned in the RFP document, including the responsibility of concessionaire to restore

					<p>Manhole installation rent, Machine shifting double side (R/W sand stone/ granite eqv) charges, security @ 50%, departmental charges are also free of cost.</p> <p>b) In case of Open Trenching : Restoration charges for different type of road surface, Fright charges, store keeping charges, Establishment charges, departmental charges and security @ 50%, etc is free of cost.</p> <p>c) In the period of three year if we are laying fiber for connectivity other than wifi, surveillance and LED will be also free of cost.</p> <p>d) Will all other authorities GAIL, IOCL, DMRC, etc fiber laying ROW charges will be FOC and permission responsibility with NDMC?</p>	<p>the same and sharing 4 pairs with NDMC.</p> <p>b) Refer clause 3.5.23. If trenchless technology is not feasible, then open trenching for laying of optical fibres will be allowed free of cost subject to the conditions mentioned in the RFP document, including the responsibility of concessionaire to restore the same and sharing 4 pairs with NDMC.</p> <p>c) RoW for laying of optical fibre by the concessionaire will be free of cost, subject to the conditions mentioned in the RFP document, including the responsibility of concessionaire to restore the same and sharing 4 pairs with NDMC.</p> <p>d) No. The concessionaire shall take all security clearances and statutory approvals from concerned authorities.</p>
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19 1	General			<p>Expectations: NDMC Scope</p> <ol style="list-style-type: none"> 1. Fiber RoW on Dig and Restore basis should be allowed for the entire concession period. 2. Electrical power including cabling and meter provision shall be NDMC's responsibility. 3. Equipment safety and security for all the equipment's including telecom equipment should be NDMC's responsibility. 4. Space and power provision for Transport and other Telecom equipment's, Space for electrical power backup equipment's at poles. 5. Electricity power availability should be better than 99.9% 6. Operation of LED lighting, CCTV Network etc (L1OPS) should be handled by NDMC while Field maintenance support (L2 & L3) support by Concessioner. 7. Easy and quick clearance of RoW permission. 8. Clearances from other civic agencies like Police, Fire, Forest(as applicable) within stipulated time frame shall be NDMC's responsibility. 	<p>W.r.t. points No. 1 to 6, there is no change in RFP.</p> <p>W.r.t. points No. 7 and 8, refer reply given at Sl. No. 33 and 45 above.</p>
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19 2	General				Concessioner Responsibility - SLA of 2 Hours for Dark Fiber rectifications/Alternate fiber arrangement is too short. This should be 3.5 hours as per Industry practice.	Refer to reply mentioned at Sl. No. 35.
19 3	General				NDMC Scope - Physical security of all the equipment's deployed for NDMC should be NDMC's responsibility.	No change in RFP.
19 4	General				Is the bidder responsible for developing all the applications required for providing the Iot and other services mentioned in RFP	Refer clause No. 3.5.6. APIs to be provided by the concessionaire free of cost.
19 5	General				Is it mandatory for bid winner to provide the infra to all opcos having respective service license?	There is no exclusive right under this RFP document. Refer to reply mentioned at Sl. No. 194 above.
19 6	General				Wifi around all metro stations - need to know how much area is to be covered?	Requirement mentioned in the RFP document. The applicant may do the survey as per their requirement.
19 7	General				Technical Qualification/Scoring - Emphasis has to be on Services rather than equipment's specification for scoring.	No change in RFP.
	Bajaj Electricals					

198		15.3.2.4	Test report as per tender specification (drive efficiency , THD, Surge protection > 6kv)	Request to consider 5KV,	as it is industry practice, also there will be additional surge protection of 10KV external to driver but integrated within driver compartment	No change in RFP.
199		15.3.2.4	point1: LED chip manufacturer to provide an authorization letter in favour of bidder stating their supply for execution of the project.	Consider manufacturer in place of bidder	as bidder and manufacturer may be different parties.	In types of test/specification provided under Sl. No. 1 in table to the clause 15.3.2.4, the relevant portion will be read as follows: “LED chip manufacturer to provide an authorization letter in favour of luminary manufacturer stating their supply for execution of the project.”
200		15.3.2.4	point 5: LED chip efficiency shall be more than 135 lumens/watt at TJ 25C (Manufactures shall submit the proof- LED Technical Data Sheet to be submitted)			“LED chip efficiency” will be read as “LED chip efficacy”.
201		15.3.2.4	point 11: Shall be 135 lumen/watt, system lumen output at 25 degree C, supported by LM79 report shall be submitted.			“LM 79” may read as “LM 80”.
202		15.3.2.4	Point 12: CRI of Luminaries >80 (supported by LM 79 report shall be submitted			CRI of luminaries >=70

20 3		15.3.2.4	Point 15: Operating voltage 120V to 270V universal electronic driver with surge protection of 6 KV (Application IS 15885, Driver safety 16104-1/2)			No change in RFP.
20 4		15.3.2.4	The Lumaninaire shall be built in such a way it can withstand wind speed of 150Kmps. NABL accredited lab report supporting the same shall be furnished by the manufacture. (Impact resistance> IK07)			The Lumaninaire shall be built in such a way it can withstand wind speed of 80Kmph. NABL accredited lab report supporting the same shall be furnished by the manufacture. (Impact resistance> IK07)
20 5		16	A: Dimmable Drivers in lieu of standard driver			Item deleted.
20 6		16	A: quantities			Wattages for dimmable drivers will be as per Luminaries wattage. Quantities will be based on actual survey at site during detailed design before execution. Total quantities of dimmable drivers will be equal to sum of number of semi advanced nodes and advanced nodes.
Himachal Futuristic Communication Ltd.						

20 7		Project objective & Scope, 3.1.7, (c)	After implementation of the project (i.e. Go-Live period) or 12 months from the date of signing of concession agreement, which is earlier, and till expiry of the Project, the Concessionaire shall pay an amount quoted by it as the monthly concession fee to the NDMC. Such concession fee will be increased at the rate of “Bank Rate (given by Reserve Bank of India) as applicable on the last day of the preceding financial year” every year on annual compounding basis.		Kindly specify the amount of concession fees to be paid annually to the NDMC. What will be the basis of the asked concession fees. Kindly clarify.	The applicant has to quote the monthly amount that it will pay to the NDMC as concession fee. The selection of the preferred applicant is on the basis of the QCBC. Based on the technical evaluation criteria and financial bids, the preferred applicant will be decided.
20 8		3.2 Project Scope	Implementation Stage - Up to 12 months from the date of signing of concession agreement		The project calls for installation and providing services for multiple number of systems in the NDMC area, which shall consume a huge amount of time. Hence we request you to extend the implementation stage to a period of 18 months. Kindly confirm.	Refer reply at S. No. 8 above.
20 9		3.4 NDMC responsibilities, 3.4.12	NDMC shall provide single window clearance (“ in area where NDMC has full control”) to the Concessionaire for the purpose of this RFP document.		How shall the authority facilitate and support for the areas which requires approvals and are not in full control of NDMC. Kindly clarify as this clause is ambiguous which may lead to delay in implementation of the project	Refer reply at Sl. No. 33 and 45 above.

210		3.5 Concessionaire Responsibilities, 3.5.5	In case, any pair of fibre allotted to NDMC get damaged or not functional due to any reason, the Concessionaire will provide alternate fibre pair in not more than two hours so that NDMC service will not get effected.		The ask of resolution of fibre damage in two hours is not realistic, hence we request for a period of minimum 8 hours for resolving them from the time of registering the complaint. Kindly Confirm.	Refer to reply mentioned at Sl. No. 35.
211		3.5 Concessionaire Responsibilities, 3.5.9	Separate internet connection of 200 Mbps speed at Central Command and Control Center for uses by NDMC for applications not included in this RFP document to be provided by Concessionaire free of cost not later than by one year from date of signing of agreement. This internet bandwidth shall increase @ 10% per year on compounded basis (i.e. 220 Mbps in next year followed in 242 Mbps in subsequent year and so on).		How shall the bidder generate revenue in lieu of the asked item by providing it free of cost to the NDMC. Kindly Clarify.	No change in RFP. Refer clause 3.1.7.
212		15.2.2 Operation Center - Command Control Center and Communication System (C4S)	Functional requirement of C4S software - GIS Map		Please provide the detailed scope of GIS Map and their services. Kindly confirm.	Refer to reply mentioned at Sl. No. 148.

21 3		15.2.2 Operation Center - Command Control Center and Communi cation System (C4S)	Mass Notification - Provide a single web based dashboard to send notifications to target audiences using multiple communication methods including voice-based notification on SMS, E-mail and Social Media.		1. Who shall provide the SMS gateways for the mass notifications. 2. How shall the system connect and communicate with social media platforms. Kindly confirm.	It is the responsibility of the concessionaire.
21 4					Kindly provide the layout of Command & Control Center, and Data center for detailed design and estimation of the systems to be installed.	Refer reply at S. No. 19 and 20 above.
Wipro						
21 5		15.1.6.1 MPLS Core/ Aggregati on Router/ Switch	The router shall have minimum of 200 Gig Full Duplex capacity per slot with redundancy. Failure of any switch fabric should not degrade the per slot bandwidth .		The router shall have minimum of 200Gig Full Duplex capacity per slot with redundancy on day one which can be upgraded to 400Gbps without changing the hardware. Failure of any switch fabric should not degrade the per slot bandwidth .	Minimum specifications are provided in the RFP document. The applicants are free to provide higher scale as per proposed solution.
21 6		15.1.6.1 MPLS Core/ Aggregati on Router/ Switch	New Clause		The Router Should support Segment routing, BGP Link state ,API feature to enable Software defined network capabilities	Minimum specifications are provided in the RFP document. The applicants are free to provide higher scale as per proposed solution.

217		15.1.6.1 MPLS Core/ Aggregation Router/ Switch	New Clause		The Router must support PCE and SDN based architecture to enable routing of traffic based on Application requirement.	Minimum specifications are provided in the RFP document. The applicants are free to provide higher scale as per proposed solution.
218		15.1.6.2 MPLS Pre Aggregation-Type-1	New Clause		All the interfaces and ports on router should be hot-swappable	Minimum specifications are provided in the RFP document. The applicants are free to provide higher scale as per proposed solution.
219		5.2 (OEM-Eligibility)	You are suggested to OEM minimum pre-qualification criteria for Active products OEM		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.	After the Note to the clause 5.3.2, the following will be added: "Concessionaire 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."
220		5.2 (OEM-Eligibility)	You are suggested to OEM minimum pre-qualification criteria for Active products OEM		OEM should have spare depot at NCR	No change in RFP.
221		5.2 (OEM-Eligibility)	You are suggested to OEM minimum pre-qualification criteria for Active products OEM		All the proposed Routers and switches has to be from One OEM	No change in RFP.

22 2		5.2 (OEM- Eligibility)	You are suggested to OEM minimum pre-qualification criteria for Active products OEM		The OEM of the equipment's quoted for should be profitable in the last 3 consecutive financial Years.	No change in RFP.
22 3		5.2 (OEM- Eligibility)	You are suggested to OEM minimum pre-qualification criteria for Active products OEM		OEM shall have certification ISO 9001:2000 & ISO 14001.	No change in RFP.
22 4		5.2 (OEM- Eligibility)	You are suggested to OEM minimum pre-qualification criteria for Active products OEM		OEM should not declare all the equipment proposed End of Support till atleast 5 years from Date of Bidding. Confirmation from OEM signed by Power of attorney should be furnished for same	No change in RFP.
22 5		15.2.3.3. WAN Services router OR Internet Router, Page 149	QoS & management Features		Addition Request: The router should have ability to intelligently identify and classify Mission critical applications like ERP and should be able to guaranteed a minimum amount of bandwidth, policy routed, and mark for preferential treatment. And should also have provision for Non-critical applications like Internet gaming applications and MP3 file sharing applications to be classified and marked for best effort service, policed, or blocked as required. Same functionality can be provided via external appliance or 03rd party application on router modules.	No change in RFP.

22 6		15.2.3.3. WAN Services router OR Internet Router, Page 149	QoS & management Features		Addition Request: The router should have ability to classify application based on various attributes such as: Application-group, category, sub-category, P2P, Tunnel & Encrypted. Router should be able to identify more than 1000 applications and supports application categorization with the ability to perform in-service update of application signatures. Same functionality can be provided via external appliance or 03rd party application on router modules.	No change in RFP.
22 7		15.2.3.3. WAN Services router OR Internet Router, Page 149	Security features		Addition Request: The Router should be able to support a Stateful, Zone Based & VRF Firewall.	No change in RFP.
22 8		15.2.3.3. WAN Services router OR Internet Router, Page 149	Security features		Addition Request: The router should support IPsec with IKE v2 Authentication and should support ipv6 for IPsec & Ikev2	No change in RFP.

229	15.2.3.3. WAN Services router OR Internet Router, Page 149	Security features		Addition Request: The router should have ability to set up secure tunnels to a Hub and as well as between individual sites dynamically to carry unicast and multicast IP based traffic and should support dynamic routing protocols. The router should support also support tunnel-less VPN connectivity with multicast support on same.	No change in RFP.
230	15.2.3.3. WAN Services router OR Internet Router, Page 149	Software Details - Addition Request		Addition Request: Router should support Suite-B cryptography algorithms	No change in RFP.
231	15.2.3.3. WAN Services router OR Internet Router, Page 149	Product / OEM Evaluation Criteria - Addition Request		Addition Request: Routers should be IPv6 Logo Ready	Agreed. Routers should be IPv6 Logo Ready.
232	15.4.4.1, Access Point, page 178, point no. 14	Support Encrypted and authenticated connectivity between all Backhaul Components		Does this mean all the communication happening among the access points and access point and controller including IOS upgrade should be secure ?	Yes, Support Encrypted and authenticated connectivity between all Backhaul Components including OS upgrade.
233	15.4.4.1, page 178, point no. 15	Mesh Nodes shall provide a wired interface for connection to local area networks or backhaul of local clients.		Clause to be read as " Mesh Nodes shall provide a wired interface for connection to local area networks or backhaul of local clients. OR for the LAG purpose"	Agreed. "Mesh Nodes shall provide a wired interface for connection to local area networks or backhaul of local clients or for the LAG

						purpose.”
23 4		15.4.4.4 WLAN Controller , Page 182, point no. 12	Controller performance must remain the same if encryption is on or Off for wireless SSIDs		Please remove this	Clause Deleted.
23 5		3.2.1 City Wi-Fi Services for selected hot spot areas	Free Wi-Fi for will be given to Public at minimum one (1) Mbps speed with a minimum throughput of 100kbps with minimum limit to download 50MB data per day subject to a limit of 1 GB per month throughout the concession period		Kindly clarify the same, this is contradictory statement as you are asking 1 Mbps of speed whereas throughput is only asked of 100 Kbps, kindly clarify the same	Requirement is of 1 Mbps with minimum throughput of 100kbps per user.
23 6		3.2.1 City Wi-Fi Services for selected hot spot areas, Page 19	(v) Key Roads: KG Marg, Barakhambha Road, Janpath, BKS Marg and Sansad Marg. All these roads should be covered from CP outer Circle till the first crossing.		Do bidder need to cover both side of pedestrian on roads?	No change in RFP. It is clarified that the complete road including pedestrian path is included in the scope of work.
23 7		3.2.1 City Wi-Fi Services for selected hot spot areas, Page 19	(x) 300 Access Point for WiFi in following residential area will also be installed.		Please advise if you have fixed the quantity of APs for Residential area to be 300?	Refer to reply given at S1 No. 164 above.

23 8		3.2.1.2, Page 19	Applicant can consider the contention ratio of 1:10 per user from day 1 of implementation of the project;		Requesting you to leave the contention ratio as per bidder design	No change in RFP.
23 9		15.4.2, Page 173	Min SLA and Operations for Wi-Fi services, Page 174		As under this project bidders are expected to run these services for 15 years, so predict the user behavior for coming 15 years would be extremely difficult to predict, so we request you to let bidders submitted their footfall assessment for all the Wi-Fi hot-spots, and request NDMC to approve the same as part of contract and let bidder plan as per that assessment. Any thing over and above the agreed assessment should be allowed to be charged additionally as per bidder and NDMC mutual agreement. Please clarify on the same?	SLAs have been revised, and revised SLAs are attached as Annexure to this document.
24 0		15.4.3, Page 174	Sample coverage for few Locations		Please advise if the sample planning to be considered as bench marking for the Wi-Fi hot-spot calculations?	No change in RFP.

24 1		15.2.3.1 & 15.2.3.2, Data Center Switching , 146, 148	The switch should be minimum EAL2 / Applicable Protection Profile (NDPP) certified under the Common Criteria Evaluation Program		While we agree that Common Criteria Evaluation Program certification is important criteria for the assessment of product, but please note the Data Center switching platform as going through technology evolution with the introduction of many technologies such as SDN, VXLAN, programmability etc, so most of the OEM have these platform under evaluation with relevant agencies for Common criteria certification, so for DC switching platforms your are request to allow product under evaluation as well, subject to that OEM can be asked to submit undertaking that product is in evaluation as well confirmation of the same from evaluation agencies can also be asked.	No change in RFP.
24 2		15.2.3.4 Blade Chassis, Page 151	Ethernet Module/ FC Module/ Converged Module		The mentioned per blade bandwidth requirement is very low considering the all the latest workloads, you are requested to increase the minimum throughput per server. To have right platform which are scalable for future services?	Minimum specifications are provided in the RFP document. The applicants are free to provide higher scale as per proposed solution.
24 3		15.2.1, 4.c., Page 134	The platform can be hosted in Cities Data Center or in Cloud based on Cities choice.		Most of the command and Control Solutions are premise based. We Request to change the Clause to "Hosted in Datacenter or Cloud based as per solution's capability"	Refer reply to Sl. No. 146 above.

24 4		15.2.1, 4.d., Page 13415.2.1 , 4.c., Page 134	Integrated with other e-Governance and Business applications to read		It can be done, but would require details about those existing systems and their API and protocol details. We assume those will be provided by NDMC during deployment and will set-up the join responsibility among bidder and e-gov application Owner.	Refer reply to Sl. No. 147 above.
24 5		15.2.1, Page 136	2D map		We assume NDMC will provide the GIS map with Lat Long positions for the sensors and other data points on the map. Need clarification on the same.	Refer reply to Sl. No. 148 above.
24 6		15.2.2, Page 137, Point 5	Remote view / Supervisor module		Can you please confirm the understanding that in this clause are you asking Supervisor to view and monitor but does not acknowledge any events or alarms. He just views it.	Refer reply to Sl. No. 149 above.
24 7		15.2.2, Page 138, Point 19	GIS Map		Please confirm if NDMC will provide the GIS map with Lat Long positions for the sensors and other data points on the map. Need clarification on the same.	Refer reply to Sl. No. 150 above.
24 8		15.2.2, Page 139	Web Remote Supervisor		We provide the Remote supervisor on the client based software and not on a browser based one as there is a lot of processing in terms of images, video and visualization. Request to change to "Web or client based Remote Supervisor"	No change in RFP.

24 9		General Questions	Data points on the Map		Please clarify if camera feeds and different Sensor data will be displayed on the map. Need clarification.	Refer reply to Sl. No. 165 above.
25 0		169	The luminaire light output (lumen) shall be constant. The voltage variations/fluctuations in the specified voltage range shall not impinge upon the lumen it produce maximum +/-2% is allowed throughout in the input operating voltage range		The lumen variation range is mentioned in other places in page no. 166 & 167 as +-5% and in most of the LED lights this is standard. We request to keep it standard as +-5%	Agreed. It can be +- 5%.
25 1		168	CRI of luminaries		CRI is mentioned as >70 in point no. 4 while it is mentioned as >80 in point number 12. We request to keep CRI as >70.	Refer to reply at Sl. No. 202 above.
25 2		205	* Advanced Smart Luminaire Control nodes with dimming and Traffic + Parking analytics * Semi Advanced Luminaire Control nodes (Dimming only)		To supply right dimmable drivers, it is important to know the Wattage of Lights that will require dimmable drivers. Need clarification on the same.	Refer to reply at Sl. No. 206 above.
25 3		205	Dimmable drivers in lieu of standard drivers - Qty 2590		What is the implication of this. Need clarification on the same	Refer to reply at Sl. No. 205 above.
25 4		16. Bill of Material . Page 207	DC - CCTV - Onboard/Server Based ANPR Software for Gunshot Detection		this is for Onboard/Server Based for Gunshot Detection Software, Please clarify.	Clause Read as " Onboard/Server Based ANPR Software".

25 5		16. Bill of Material . Page 207	DC - CCTV- Video Management System- Software for Recording, Viewing of Videos (2200 Cameras)		Current Project required 2260 Camera, However software required for 2200 Camera. Request you change this to, Bidder need to provide min 5000 Camera software and min 2500 Camera storage & related infra to be provided by Bidder.	Herein, "2200" will be read as "2261". Concessionaire has to ensure minimum 10% additional Camera storage & related infrastructure. Refer clause 3.5.20.
25 6	15.5.2.6 Type 5- Traffic Junction Camera- High Definition, Page 195		Lens/Iris 3 to 10 mm P-Iris or better with Motorized Zoom Lens and Vandal-Resistant Dome		Kindly Accept, " Lens/Iris 3 to 9 mm Lens and Vandal-Resistant Dome." this change does not affect the functionality of the system and this clause will allow maximum participation from the leading camera's OEM's.	Sl. No. 6 of table in Cluase 15.2.2.6 will be read as "Lens/Iris 3 to 9 mm P-Iris/DC-Iris or better with Motorized Zoom Lens and Vandal-Resistant Dome".
25 7	15.5.2.5 Type 4- Fixed Box Camera , Page 193		Lens/Iris 3-8mm- P-Iris		Kindly Accept, " Lens/Iris 3.1 to 8 mm Lens ." this change does not affect the functionality of the system and this clause will allow maximum participation from the leading camera's OEM's.	Sl. No. 5 of table in Cluase 15.2.2.5 will be read as "Lens/Iris 3.1 to 8mm P-Iris".
BSNL						
25 8				Under Eligibility criteria: NLD/ILD/ISP/CMTS license holder should also be allowed as BSNL doesn't carry UASL or UL(AS) license. BSNL is having separate license for each service.		Refer reply at S. No. 155 above.

25 9				Once the concessionaire is selected, whether permission for laying of fibre will be given to any othe agency by NDMC or other operators have to use only concessionaire laid fibre.		The permission to lay optical fibre to the concessionaire during the concession period is not exclusive in nature. Only concessionaire, including through sub-contractor, can lay its optical fibre as per this RFP document. The concessionaire can share services of its optical fibre with others. Any other operator can take permission from NDMC for laying its optical fibre in the NDMC area as per the policy prevailing then.
26 0				What is the present estimated cost per meter of road restoration in NDMC area.		Cost varies depending on the restoration material like red sand stone, granite, CC, RCC etc.
26 1				Whether any constraint by NDMC on depth of fibre laying in NDMC area.		No constraint, subject to statutory approvals, security clearances, and conditions mentioned in the RFP document.
26 2				Whether concessionaire can lease out fibre to other operators. If yes, then whether is there any limitation on number of operators?		The concessionaire can share services of its optical fibre with any number of other operators, subject to the conditions mentioned in the RFP.

26 3				Whether concessionaire can lease out right of street poles to other operators. If yes, then whether is there any limitation on number of operators?		The concessionaire can share services of its telecom equipments install on street light poles with any number of other operators, subject to the conditions mentioned in the RFP.
26 4				Whether concessionaire can lease out street poles to other operators. If yes, then whether is there any limitation on number of operators?		No leasing of street light poles allowed.
26 5				Whether these street poles can be used for advertisement purpose through LED screen or any other mode.		No.
26 6				Whether fees can be zero or negative which needs to be paid by concessionaire on monthly basis.		No.
26 7				Access of poles will be available with two agencies. One is concessionaire and other is NDMC staff. In case, any malpractice followed by NDMC staff (e.g. LED switches damaged by them), in that case, how concessionaire will be		No change in RFP.

				held responsible all the time.	
268				SLA clauses are too stringent, BSNL requests to relax SLA criteria.	SLAs have been revised, and revised SLAs are attached as Annexure to this document.
269				How the segregation of electricity will be decided when TSP will earn revenue from WiFi services beyond free limit.	Electricity to Wi-Fi equipments is chargeable and not free.
270				BSNL is likely to participate in the bid and amount of Rs. 10,000/- will be deposited along the bid. So, it is requested to allow BSNL to participate in the pre-bid. It will enhance more participation and competitive bid.	Already allowed in the pre-bid meeting.
271				BSNL request NDMC to waive off EMD and PBG for public sector enterprises. In case, if it is not feasible, then kindly accept EMD in the form of BG.	EMD in the form of BG is allowed (Refer clause 4.1.10).

Extreme Networks						
27 3		15.4.4.1	Access Point			
27 4			Access Points must support signal rejection for 3G/LTE/WiMAX in co-Located environment.	Please consider removing this		No change in RFP.
27 5			Must support 2X2 multiple-input multiple-output (MIMO) with two spatial streams	Must support 4x4 multiple-input multiple-output (MIMO)		No change in RFP. Minimum specifications are provided in the RFP document. The applicants are free to provide higher scale as per proposed solution.
27 6			Must support simultaneous 802.11n on both the 2.4 GHz and 5 GHz radios.	Must support simultaneous 802.11 n on both the 2.4 GHz and 5 GHz radios. And 802.11AC on 5 GHZ		Sr. No. 7 in table of Clause 15.4.4.1 will be read as “Must support simultaneous 802.11n on both the 2.4 GHz and 5 GHz radios. May support 802.11AC on 5 GHZ.”
27 7			Must support Controller-based and standalone (autonomous) deployments	Must support Controller-based and sustain complete operation if controller has an outage		No change in RFP.
27 8			The Access point shall be rated for operation over an ambient temperature range of -30° to 65°C (-22° to 149°F)	The Access point shall be rated for operation over an ambient temperature range of -30° to 60 °C (-22° to 149°F)		No change in RFP.
27 9		15.4.4.2	Industrial Grade Switch – Type 1			

28 0			802. 1Q VLAN on all ports with support for minimum 500 active VLANs and minimum 1K Mac addresses	802. 1Q VLAN on all ports with support for minimum 500 active VLANs and minimum 8K Mac addresses		Sr. No. 3 in table of Clause 15.4.4.2 will be read as “802. 1Q VLAN on all ports with support for minimum 500 active VLANs and minimum 1K Mac addresses or higher”.
28 1			Switch should support classification and scheduling as per IEEE 802.1P on all ports and four egress queues per port. Switch should also support Egress Queueing/shaping, Mechanism of applying Automatic QoS or equivalent mechanism	Switch should support classification and scheduling as per IEEE 802.1P on all ports and four egress queues per port. Switch should also support Egress Queueing/shaping,		No change in RFP.
28 2			Switch should support ACLs, TACACS+, RADIUS, IP Route Filtering, ARP spoofing, DHCP snooping, DHCP Option 82, Dynamic ARP Inspection (DAI), IP source guard and BDU Guard or equivalent, IEEE 802.1AE	Switch should support ACLs, TACACS+, RADIUS, IP Route Filtering, ARP spoofing, DHCP snooping, DHCP Option 82, Dynamic ARP Inspection (DAI), IP source guard and BDU Guard or equivalent		No change in RFP.

28 3			The switch should support following IPv6 Features: 128-Bit Wide Unicast Addresses, DNS for IPv6, ICMPv6, Neighbor Discovery, IPv6 Stateless Auto-configuration and Duplicate Address Detection, SNMP and Syslog Over IPv6, HTTP over IPv6 and IPv6 MLD snooping	Please remove this clause		No change in RFP.
28 4			RoHS Compliant, IEEE 1588v2 hardware ready - Precision Time Protocol, IEEE 802.3af, 802.3at, NTP, PTP	RoHS, IEEE 802.3af, 802.3at, NTP		No change in RFP..
28 5			KEMA,NEMA TS-2, ODVA Industrial EtherNet/IP, PROFINETv2, ABB IT Certificate,	Please remove this clause and keep only IP30		No change in RFP.
28 6			UL 508, CSA C22.2 No.142, UL/CSA 60950-1, EN60950-1, CB to IEC 60950-1, ANSI/ISA 12.12.01 (Class 1, Div 2 A-D), EN 60079-0, -15 ATEX certification (Class I, Zone 2 A-D) with cabinet enclosure	Please remove this clause		These are industry standards and equivalent standards can be proposed.
28 7			FCC, IEC/EN 61000-(4-2 to 4-6, 4-8, 4-9, 4-11, 4-29), RoHS	FCC, IEC/EN 61000-(4-2 to 4-6, 4-8, 4-9), RoHS		These are industry standards and equivalent standards can be proposed.

28 8			IEC 60068-2-27 (Operational Shock, Non-Operational Shock)	Please remove this clause		No change in RFP.
28 9			IEC 60068-2-6, IEC 60068-2-64, EN61373 (Operational Vibration, Non-operational Vibration)	Please remove this clause		No change in RFP.
29 0			Relative Humidity of 5% or 95% Non-condensing, IEC 60068 -2-3, IEC 60068-2-30, IEC 60068-52-2	Relative Humidity of 5% or 95% Non-condensing		No change in RFP.
29 1		15.4.4.4	WLAN Controller			
29 2			WLAN Controller should support up-to 30,000 Clients per chassis and should have two or more 10 Gigabit Ethernet interfaces. Higher number of supported clients and interface count is preferred.	Please note the client support count mentioned here is very high and is specific to OEM. Kindly clarify if the count can be supported via multiple devices.		No change in RFP.
29 3			WLC should support First hop security features in IPv6 network like Router Advertisement guard, DHCPv6 guard and IPv6 source guard and should support IPv6 access control lists	Please remove this clause		No change in RFP.

29 4			Should adhere to the strictest level of security standards, including 802.11i Wi-Fi Protected Access 2 (WPA2), WPA, Wired Equivalent Privacy (WEP), 802.1X with multiple Extensible Authentication Protocol (EAP) types, including Protected EAP (PEAP), EAP with Transport Layer Security (EAP-TLS), EAP with Tunneled TLS (EAP-TTLS), RFC 4347	Please remove RFC 4347		Agreed. Requirement of RFC 4347 is deleted.
29 5			Controller should have Deep Packet Inspection for Layer 4- 7 traffic for user for all traffic across the network to analyses information about applications usage and prioritization	Please remove this clause		No change in RFP.
29 6		15.5.2.9	Industrial Grade Switch – Type 2			
29 7			802. 1Q VLAN on all ports with support for minimum 255 active VLANs and minimum 1K Mac addresses	802. 1Q VLAN on all ports with support for minimum 500 active VLANs and minimum 8K Mac addresses		Sr. No. 3 in table of Clause 15.5.2.9 will be read as “802. 1Q VLAN on all ports with support for minimum 255 active VLANs and minimum 1K Mac addresses or higher.”

29 8			Switch should support classification and scheduling as per IEEE 802.1P on all ports and four egress queues per port. Switch should also support Egress Queueing/shaping, Mechanism of applying Automatic QoS or equivalent mechanism	Switch should support classification and scheduling as per IEEE 802.1P on all ports and four egress queues per port. Switch should also support Egress Queueing/shaping,		No change in RFP.
29 9			Switch should support ACLs, TACACS+, RADIUS, IP Route Filtering, ARP spoofing, DHCP snooping, DHCP Option 82, Dynamic ARP Inspection (DAI), IP source guard and BDU Guard or equivalent, IEEE 802.1AE	Switch should support ACLs, TACACS+, RADIUS, IP Route Filtering, ARP spoofing, DHCP snooping, DHCP Option 82, Dynamic ARP Inspection (DAI), IP source guard and BDU Guard or equivalent		No change in RFP.
30 0			The switch should support following IPv6 Features: 128-Bit Wide Unicast Addresses, DNS for IPv6, ICMPv6, Neighbor Discovery, IPv6 Stateless Auto-configuration and Duplicate Address Detection, SNMP and Syslog Over IPv6, HTTP over IPv6 and IPv6 MLD snooping	Please remove this clause		No change in RFP.

30 1			RoHS Compliant, IEEE 1588v2 hardware ready - Precision Time Protocol, IEEE 802.3af, 802.3at, NTP, PTP	RoHS, IEEE 802.3af, 802.3at, NTP		No change in RFP.
30 2			KEMA,NEMA TS-2, ODVA Industrial EtherNet/IP, PROFINETv2, ABB IT Certificate,	Please remove this clause and keep only IP30		No change in RFP.
30 3			UL 508, CSA C22.2 No.142, UL/CSA 60950-1, EN60950-1, CB to IEC 60950-1, ANSI/ISA 12.12.01 (Class 1, Div 2 A-D), EN 60079-0, -15 ATEX certification (Class I, Zone 2 A-D) with cabinet enclosure	Please remove this clause		These are industry standards and equivalent standards can be proposed.
30 4			FCC, IEC/EN 61000-(4-2 to 4-6, 4-8, 4-9, 4-11, 4-29), RoHS	FCC, IEC/EN 61000-(4-2 to 4-6, 4-8, 4-9), RoHS		These are industry standards and equivalent standards can be proposed.
30 5			IEC 60068-2-27 (Operational Shock, Non-Operational Shock)	Please remove this clause		No change in RFP.
30 6			IEC 60068-2-6, IEC 60068-2-64, EN61373 (Operational Vibration, Non-operational Vibration)	Please remove this clause		No change in RFP.

307			Relative Humidity of 5% or 95% Non-condensing, IEC 60068 -2-3, IEC 60068-2-30, IEC 60068-52-2	Relative Humidity of 5% or 95% Non-condensing		No change in RFP.
308		15.5.2.10	Industrial Grade Switch – Type 3			
309			802.1Q VLAN on all ports with support for minimum 255 active VLANs and minimum 1K Mac addresses	802.1Q VLAN on all ports with support for minimum 500 active VLANs and minimum 8K Mac addresses		Sr. No. 3 in table of Clause 15.5.2.10 will be read as “802.1Q VLAN on all ports with support for minimum 255 active VLANs and minimum 1K Mac addresses or higher.”
310			Switch should support classification and scheduling as per IEEE 802.1P on all ports and four egress queues per port. Switch should also support Egress Queueing/shaping, Mechanism of applying Automatic QoS or equivalent mechanism	Switch should support classification and scheduling as per IEEE 802.1P on all ports and four egress queues per port. Switch should also support Egress Queueing/shaping,		No change in RFP.
311			Switch should support ACLs, TACACS+, RADIUS, IP Route Filtering, ARP spoofing, DHCP snooping, DHCP Option 82, Dynamic ARP Inspection (DAI), IP source guard and BDU Guard or equivalent, IEEE 802.1AE	Switch should support ACLs, TACACS+, RADIUS, IP Route Filtering, ARP spoofing, DHCP snooping, DHCP Option 82, Dynamic ARP Inspection (DAI), IP source guard and BDU Guard or equivalent		No change in RFP.

31 2			The switch should support following IPv6 Features: 128-Bit Wide Unicast Addresses, DNS for IPv6, ICMPv6, Neighbor Discovery, IPv6 Stateless Auto-configuration and Duplicate Address Detection, SNMP and Syslog Over IPv6, HTTP over IPv6 and IPv6 MLD snooping	Please remove this clause		No change in RFP.
31 3			RoHS Compliant, IEEE 1588v2 hardware ready - Precision Time Protocol, IEEE 802.3af, 802.3at, NTP, PTP	RoHS, IEEE 802.3af, 802.3at, NTP		No change in RFP.
31 4			KEMA,NEMA TS-2, ODVA Industrial EtherNet/IP, PROFINETv2, ABB IT Certificate,	Please remove this clause and keep only IP30		No change in RFP.
31 5			UL 508, CSA C22.2 No.142, UL/CSA 60950-1, EN60950-1, CB to IEC 60950-1, ANSI/ISA 12.12.01 (Class 1, Div 2 A-D), EN 60079-0, -15 ATEX certification (Class I, Zone 2 A-D) with cabinet enclosure	Please remove this clause		These are industry standards and equivalent standards can be proposed.
31 6			FCC, IEC/EN 61000-(4-2 to 4-6, 4-8, 4-9, 4-11, 4-29), RoHS	FCC, IEC/EN 61000-(4-2 to 4-6, 4-8, 4-9), RoHS		These are industry standards and equivalent standards can be proposed.

317			IEC 60068-2-27 (Operational Shock, Non-Operational Shock)	Please remove this clause		No change in RFP.
318			IEC 60068-2-6, IEC 60068-2-64, EN61373 (Operational Vibration, Non-operational Vibration)	Please remove this clause		No change in RFP.
319			Relative Humidity of 5% or 95% Non-condensing, IEC 60068 -2-3, IEC 60068-2-30, IEC 60068-52-2	Relative Humidity of 5% or 95% Non-condensing		No change in RFP.
Innovative Secure Technologies Pvt. Ltd.						
320	General Queries	Scope of Work/ Rights to bidders			As in NDMC area some companies had already installed BTS/ microcell on pilot basis like Tata do-como in CP area, Reliance Jio on approx. 750 poles, Vodafone in Khan market etc. so we request you to clarify if these pole/ area are also to be part of this rfp or not? If yes than will these services/ contract be discontinued? If not it will not be viable for any concessionaire to participate in this rfp as these are the key area in NMDC which bidder in this RFP would also be inserted. We request you to provide concessionaire exclusive rights. All these existing contracts	All these poles are part of this RFP. The concessionaire can install its telecom equipments on these poles. There is no exclusive right of the concessionaire over such poles.

					shall have to tie up with new concessionaire only	
32 1	General Queries	Right of way for Fiber			Kindly clarify if bidder will have the exclusive right to lay the fiber for the duration of contract in NDMC area. Kindly advise if all the other player who want to lay fiber will have to tie up with new concessionaire only.	No change in RFP. No exclusive right to the concessionaire for laying optical fibre in the NDMC area during the concession period.
32 2	General Queries	Right of Pole			Kindly clarify if bidder will have the exclusive right of poles for the duration of contract in NDMC area. Kindly advise if all the other player who want to use poles for any purpose will have to tie-up new concessionaire only.	No change in RFP. No exclusive right to the concessionaire on poles in the NDMC area during the concession period.

Huawei Telecommunications(India) CO. PVT. LTD						
32 3	15.2.3.6		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.		In the tender 8 core CPU is required, which means after populating all the 4 CPU's, we will have total 32 cores requirement. Memory requirement per core is 16Gb, which means maximum memory required is 512 GB. As per the clause, we need 100% scalability, which means server should support max of 1024 GB Memory. by using 32 GB RAM module, we need max of 32 slots and hence we request this clause to be changed to 32 slots against a requirement of 96 DIMM Slots.	No change in RFP.
32 4	15.5.2.1		n. Video Surveillance Storage System – The video surveillance storage system should support multiple options to store video. Servers, Direct Attached, shall augment server internal storage. The video surveillance storage system shall store video in loops, one-time archives, or event clips triggered by alarm systems. It shall support for RAID 6 storage.		In video surveillance, RAID 5 the safety is enough. And with safe video RAID 5 technology, even more than 2 disks is broken, the video playback will not be affected.	No change in RFP.
32 5	15.5.2.6		3. Max resolution: 2560x1920		As 2MP(1920*1080) is High definition, enough to take video at traffic junction. It will help to	No change in RFP.

					provide a good quality video and at same time save the cost.	
32 6	15.1.6.1		The proposed router should have 12 GB DRAM and 8GB Flash , also should support 30GB storage in SSD		SSD storage in router is required for storing the logs and events. However the same function shall be achieved by the EMS system in Network. This should be relaxed.	No change in RFP.
32 7	15.1.6.2		The router shall support following type of interfaces – 10GE, 1GE interfaces with DWDM.; 10GE WAN PHY and 10G DWDM ,Ch.STM1 and E1.		This is envisaged to be an Ethernet RFP for IN-City network. Need of DWDM interfaces is not seen.	No change in RFP.
32 8	15.1..6.3		For DC : -40°C to 65°C operating temperature and 5 to 95%, noncondensing			No change in RFP.
32 9	15.1.6.3		The router should have 4GB DRAM and 2GB flash		Flash memory in a device is required to store the offline data (logs/config backup etc). Every OEM has different algorithm/File system and hence the need for memory size is different for everyone. 2GB flash can be rather stated as	No change in RFP.

330	15.2.3.8		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.			No change in RFP.
331	15.4.4.1		Must have minimum -97 dB or better Receiver Sensitivity		Its suggested that rather than binding the sensitivity to a value , it should be SLA centric. In most deployments -75 is practical value.	No change in RFP.
332	15.4.4.4		Controller should have Deep Packet Inspection for Layer 4-7 traffic for user for all traffic across the network to analyses information about applications usage and prioritization			No change in RFP.
Microsoft Corporation India Pvt Ltd						
333	G. Operation and Maintenance (O&M) Guidelines, 4.27 viii				There is no SLA Monitoring Tool Specification which is provided, kindly provide the same.	The concessionaire has to provide standard SLA monitoring tool which can integrate with other management modules.

33 4	5.3.2 Criteria for Technical Evaluation, Pt 4 , Page 67				<p>The List does not include the Following Important Component</p> <ol style="list-style-type: none"> 1. Magic Quadrant for the Operational Database Management Systems 2. Magic Quadrant for Cloud Infrastructure as a Service (IaaS) in place of Enterprise Server in case bidder is providing the Infra on Public Cloud 3. Magic Quadrant for the Public Cloud Storage 4. Magic Quadrant for Data Warehouse and Data Management Solutions for Analytics 	No change in RFP.
33 5	15.2.1Functional Requirement of Command and Control Centre, Page 136				<p>We request to kindly illustrate the requirement for Cloud Service Provider, also Hope the Cloud Service Provider is as chosen by the concessionaire as its charges are paid by him.</p>	<p>The command and control center will be hosted in NDMC's premises.</p> <p>Reference made to "cloud" in clauses 15.2.1(4)(c), last paragraph of clause 15.2.1, 15.2.3.8(2.1) will be deleted.</p> <p>In clause 15.3.2.2(9), "cloud (preferably)" will be read as "data centre".</p>

33 6	15.2.3 Technical Specifications for Data Center infrastructure, Page 144				In case the Concessionaire is providing the Public Cloud Infrastructure the Data centre Infrastructure may not be required, Request you to kindly make the same optional for the concessionaire if public cloud is quoted by him	Refer reply to Sl. No. 335 above.
33 7	15.5.1 Functional requirement of City Surveillance, Page 184				We request to kindly allow other Major Operating System Platform like Windows Server, which is the most used Operating System.	The concessionaire may opt for other major operating systems, subject to the condition that all costs, including licence/maintenance/updation cost, related to such system for the complete concession period shall be borne by the concessionaire.
33 8	15.2.1 Functional Requirement of Command and Control Centre, Page 136				We request to kindly illustrate the requirement for Cloud Service Provider, also Hope the Cloud Service Provider is as chosen by the concessionaire as its charges are paid by him.	Refer reply to Sl. No. 335 above.
33 9	9.1.2 Post-Implementation SLAs, Page 90				The RFP does not specify the SLA for the Cloud Service provider, Request you to kindly add the same	Refer reply to Sl. No. 335 above.

34 0	F. Administrative Guidelines, Page 53			<p>Kindly confirm that all the software licenses to be quoted should be enterprise versions, genuine, perpetual, full use and should provide patches, fixes, security patches and updates directly from the OEM. All the licenses and support (updates, patches, bug fixes, etc.) shall be in the name of NDMC.</p> <ul style="list-style-type: none"> • The OEM should have all the IPR related to the Proposed Product/Product Family • OEM should be able to provide direct OEM support commitment for both on-call/onsite for Contract period. • The proposed system software must provide indemnification and indemnification must cover patent claims, copy right claims, legal fees and damages claim. System integrator or respective developer/manufacturer must protect NDMC from all such legal cost that may arise out of any claim by a third party alleging intellectual property infringement i.e. related to the all server / client software. 	<p>All the software licenses to be quoted should be enterprise versions / open source 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.</p>
Philips					

34 1		15.3.2	Smart Street lighting Technical Specifications:		As per tender the common available technology for Basic, Semi-Advance & Advance nodes is Wi Fi which is not a proven technology for outdoor street lighting application and there are not many city wide large scale installation references across the world, hence request you to consider GSM/GPRS technology, which is professionally managed, upgraded, maintained and more secure network offered by leading telecom operators , as the common mode of communication for group or individual light point controls (for all Basic, Semi-Advance & Advance nodes) .	Refer clause 15.3.2. All basic nodes, semi advance nodes and advance nodes are to be connected through GPRS / WiFi / RF technology (like 802.15.4, Zigbee, LoRA). Group control is not allowed. Each street LED light is to be controlled individually.
34 2		15.3.2.4	Luminaire Technical Specifications :		Since there's an external surge protection of 10kV specified request you to consider driver surge protection of >3kV which is widely available diver in market, 6kV is not an industry standard LED driver.	No change in RFP.

	M Prime Advisory Service					
34 3	Command and Control				Will other organizations (in addition to NDMC) participate in the Command and Control Centre? <i>e.g Will stakeholders such as Delhi Police, DTC, Delhi Metro, Indian Meteorological Department, Private bus operators, Parking contractors, etc. be part of Centre's day to day operations?</i>	Refer clause 15.1.5(A). The command and control center will be hosted at a location provided by NDMC. NDMC reserves the right to allow other Departments/ Agencies/ Authorities etc. to use the facilities available at its Command and Control Centre.
34 4					Who is going to develop the processes/procedures, organization, roles and responsibilities, and staffing plan? Is it NDMC or the Concessionaire?	The concessionaire has to follow the operation and maintenance policies and procedures, as applicable from time to time. The Concessionaire will be responsible for create and update SOPs etc. in consultation with NDMC. The concessionaire will be responsible for implementation of such SOPs. NDMC reserves the right to influence the processes/procedures, SOPs etc. as per its requirements.
34 5					As part of the dashboard which services/information will be open to the citizens and which will be for internal staff use of the Centre only?	This will be decided by NDMC during the implementation period.

346					Is NDMC or the concessionaire going to identify the systems of e-governance that will need to be integrated with the Centre? Is NDMC going to develop the corresponding specifications of the interfaces?	The concessionaire will be responsible for developing / providing interfaces, if required by NDMC.
347					Is the concessionaire required to develop SOPs?	Refer reply at Sr. No. 344.
348					Is the concessionaire required to develop incident resolution plans based on nature of each incident (including roles and responsibilities per plan step/activity?)	Refer reply at Sr. No. 344.
349					What is the procedure to agree standard operating procedure and incident resolution plans with external stakeholders?	Refer reply at Sr. No. 344.
350					What will be the role of Delhi Police in the Centre? Will they have physical presence?	Refer reply at Sr. No. 343.
351					For traffic analytics, which parameters will are you interested in detecting? <i>Vehicle flow (vehicles per min?), speed of vehicles, queue length at intersections or junctions, etc.</i>	No change in RFP.

35 2					Will the CCTV cameras be operated from the control centre (e.g. camera orientation, zoom, etc.)?	Yes, the CCTV cameras will be controlled / operated from the places designated by the NDMC, including the Command and Control Centre.
35 3					Will the specifications for the Video Analytics function of CCTVs be provided by NDMC? <i>e.g. rules to identify suspicious objects, rules to identify trespassing, rules for detecting encroachment, etc.</i>	No change in RFP.
35 4					Who will define the rules for counting function of CCTVs <i>e.g. to count people, to count all vehicles as one category vs count vehicles of each category, etc.</i>	Concessionaire will be responsible for all device configuration, in consultation with NDMC.
35 5					Has NDMC defined the specifications to connect CCTV data to Police Station?	Refer clause 15.1.5(A).
Ericsson India Pvt. Limited						

35 6		5.2.3	Applicant/consortium should be: (i) Telecom Service Provider having valid UL(AS) / UASL from Department of Telecommunication		UASL license is required for delivering B2C Wi-Fi services, the same objective can be met with CAT A ISP license. NDMC should allow CAT A ISP providers as part of consortium instead of UASL License to allow: 1. Wider participation and better revenue for NDMC 2. Equal access of sites to all Telecom service providers in a non-prohibitory manner at predefined rates. Kindly confirm.	Refer reply at Sr. No. 155 above.
35 7		5.2.7.1	Members of the Consortium undertake that they shall collectively hold at least 51% (fifty-one per cent) of the subscribed and paid up equity of the SPV at all times until the second anniversary of the commercial operation date of the Project; and		Will the Lead member have 26% or more equity stake only till second year of commercial operation ? Or is the stake needed throughout project duration (15 years)	No change in RFP. Refer clauses 5.2.7.1(iii), clause 5.2.7.1(vii)(iv) and 5.2.7.1(vii)(v).
35 8		5.2.7.1	Members of the Consortium undertake that they shall collectively hold at least 51% (fifty-one per cent) of the subscribed and paid up equity of the SPV at all times until the second anniversary of the commercial operation date of the Project; and		Could you please clarify, who will hold rest of the 49% stake?	No change in RFP.

359		5.3.5.1	Proof of Concept (PoC) Demonstration and Client Visit		Please clarify duration and scope of PoC - For example, how many LEDs, cameras, Wi-Fi access points etc. to be integrated and demonstrated and for what duration. The scope of PoC - which parts of the complete RFP to be demonstrated in the PoC	Details will be intimated by NDMC to the applicant by giving a 15 days' notice before proposed date of POC.
360		Annexure 10	Joint Bidding Agreement - part 4. Role of Parties		Can one party, say Ericsson - play the role of 'Lead Member', 'Technical Member' (in terms of project experience) and 'Financial Member' (in terms of annual turn over and net worth)? Such a party to hold 26% or more stake in SPV for two years and all parties in consortium to collectively hold atleast 51% stake in SPV for two years. Please confirm our understanding	No change in RFP.
361		5.3.2	Criteria for Technical Evaluation - 2 a. (a) Experience : Public Wi-Fi including Related Network Infrastructure		NDMC has only asked for experience in Wi-Fi, however Fiber and Telecom network form extremely important parts of the RFP. We propose that the concessionaire should have adequate experience 1) In managing atleast 50,000 km of fiber in India and 2) At least 10,000 radio base stations in India . This will ensure that only qualified concessionaire who can execute the project well get higher score	No change in RFP.

36 2		3.4.3	Successful Applicant/ Concessionaire will have right of usage of existing street lighting poles in NDMC area (approx. 18500) for the purpose of installation of telecom/ WiFi/ BTS equipments etc. subject to security considerations as prescribed by security agencies, structural stability of poles, aesthetic of poles and subject to the guidelines of the Department of Telecommunication		<p>Please clarify the kind of RoW for street poles. Can the entire pole be replaced with a smart pole - with LEDs, cameras and telecom equipment?</p> <p>Will the RoW include digging to accommodate underground compartment for the smart pole? Please clarify - RoW is only for street light poles?</p> <p>Please include poles in gardens, parks and metros as well</p>	<p>Refer clauses 3.4.7, 3.5.10 and modified clause 3.5.11 w.r.t. queries related to replacement of poles.</p> <p>Refer reply to Sl. No. 105 w.r.t. queries related to space below the Smart Poles.</p> <p>RoW (non-exclusive) is for laying optical fibre and as replied in Sl. No. 27 above, subject to the conditions mentioned in the RFP document.</p> <p>No change in RFP.</p>
36 3		3.4.1	NDMC will provide permission in writing for Right of Way, including permission to use NDMC's existing tunnel in Connaught Place area for such purpose, free of cost in NDMC area to lay underground optical fibers/cables for providing licensed telecom services for three years (i.e. implementation period of one year and subsequent two years).		Please clarify our understanding - Optical fiber cable can be laid out for the first three years of the project	Refer to reply at Sr. No. 22.
36 4		3.4.3	The Concessionaire shall have no right for any purpose on any street light poles, which would come in future		Please allow the concessionaire to monetize the street poles using advertisements, digital signage etc. This will allow better revenues for NDMC	No change in RFP.

36 5		3.4.3	<p>Successful Applicant/Concessionaire will have right of usage of existing street lighting poles in NDMC area (approx. 18500) for the purpose of installation of telecom/WiFi/BTS equipments etc. subject to security considerations as prescribed by security agencies, structural stability of poles, aesthetic of poles and subject to the guidelines of the Department of Telecommunication</p>		<p>Is this right of way to street light poles exclusive to concessionaire? If no, how will NDMC calculate the charges of right of way, if a telecom operator requires RoW in future since they will not be required to provide additional services asked in this tender. We request NDMC to provide exclusive ROW for telecom sites in NDMC to ensure fair, non-prohibitive and timely access to telecom infrastructure to all Telecom service providers equally and ensure better monetization for NDMC</p>	<p>No change in RFP. There is no-exclusive right for street light poles under this RFP document.</p>
36 6		3.4.1	<p>NDMC will provide permission in writing for Right of Way, including permission to use NDMC's existing tunnel in Connaught Place area for such purpose, free of cost in NDMC area to lay underground optical fibres/cables for providing licensed telecom services for three years (i.e. implementation period of one year and subsequent two years).</p>		<p>Is this right of way to rollout fiber exclusive to concessionaire? We request NDMC to provide exclusive ROW for Fiber in NDMC to avoid repeated digging of roads and the concessionaire can put multiple ducts for future use. This will also allow better monetization and easier access to backhaul for future IOT applications</p>	<p>No change in RFP. There is no-exclusive rights for laying optical fibre under this RFP document.</p>
36 7		8	<p>Indemnity Clause</p>		<p>Please clarify - the bidder should indemnify NDMC against any patent infringement claims by any other technology vendors</p>	<p>No change in RFP.</p>

36 8		3.4.3	Successful Applicant/Concessionaire will have right of usage of existing street lighting poles in NDMC area (approx. 18500) for the purpose of installation of telecom/WiFi/BTS equipments etc. subject to security considerations as prescribed by security agencies, structural stability of poles, aesthetic of poles and subject to the guidelines of the Department of Telecommunication		As we understand the existing pole cannot be used to equip telecom equipment without hampering city aesthetics. It should be allowed to replace the existing poles with the smart poles which should meet city aesthetic requirement and should be visually appealing and should be able to house telecom equipment Please confirm	No change in RFP.
36 9		15	Detailed Project Scope		The smart pole used to replace existing poles and to equip the telecom equipment should be able to support city as well telecom standards for India such as wind speed, climate, aesthetic etc . Please confirm	No change in RFP.
					Please confirm, all cabling, cooling/heating etc should be via/inside the pole and it should not be visible from outside due to aesthetic and security reasons	No change in RFP.
					For security reasons and in order to maintain city aesthetics, all the telecom equipment should be inside the pole or below. Please confirm	No change in RFP.
					The smart poles used to replace existing light poles should be made in India. Please confirm	No change in RFP.

					The surveillance camera should be camouflage inside the light arm. Please confirm	No change in RFP.
					The smart pole structure should be IP67 up-to 1 meter height from reference ground level. Please confirm	No change in RFP.
370		3.4.3	The Concessionaire on its own will arrange power for such equipments;		Will NDMC provide electricity from the poles at no cost or cost to Concessionaire for the power usage of such equipments. Please clarify who will pay for one time electricity meter	Refer reply to Sl. No. 24 above.
371		3.5.14	NDMC will be the owner of all dismantled existing equipments, including		Concessionaire will be the owner of all dismantled or replaced equipments (except the existing equipments or the equipment at the end of the concession period) , including	No change in RFP.
372			lights/ fittings, and such equipments shall be handed over to NDMC not later than a month from date of such dismantling.		lights/ fittings, and such faulty, scrap and replaced equipment shall belong to the Concessionaire and be kept by Concessionaire.	No change in RFP.
373		3.5.16	“telecom equipments of Concessionaire”		“telecom equipments of Concessionaire” would also include the telecom equipment of Concessionaire’s customer’s.	No change in RFP.

37 4		4.1.22	“the date of commercial operation of the project.”		“the date of commercial operation of the project.” Means what date ?	‘Date of commercial operation of the project’ is same as ‘the date of Go-Live’ after completion of the implementation period.
37 5		4.2.1	“26% (twenty six per cent) of the subscribed and paid-up equity of the Concessionaire”		In case of 4 consortium members may not be possible for such condition to be closed by more than 3 members. Can in that case the fourth have less than 26% stake?	No change in RFP. Refer clauses 5.2.7.1(i) and 5.2.7.1(vii)(iv).
37 6		9.1.2	Hourly delay penalty		What happens to part of hour delay? How to calculate finally.	Time will be counted on pro-rata basis.
37 7		15.5.2.9	Should support Improved resiliency with the support of Resilient Ethernet Protocol (REP) or equivalent for ring topology		Should support Improved resiliency with the support of Resilient Ethernet Protocol (REP) or equivalent for ring Topology like ERPS (Ethernet Ring Protection Switching)	No change in RFP.
37 8		15.5.2.9	Switch should support ACLs, TACACS+, RADIUS, IP Route Filtering, ARP spoofing, DHCP snooping, DHCP Option 82, Dynamic ARP Inspection (DAI), IP source guard and BDU Guard or equivalent		Since other Security features are enough for this network. Request to delete IP Route Filtering, IEEE 802.1AE	No change in RFP.

37 9		15.5.2.9	Switch should have a console port, support for SNMP Version 1, 2 and 3, TELNET, SSHv2, 4 groups of embedded RMON, UDLD, Layer 2 Trace route or equivalent, DHCP server		Request to delete DHCP Server. DHCP Server should be a feature of Aggregation or Core Switch function	The Concessionaire shall provide the detailing in the proposed solution, without compromising with the functional and technical requirements of DHCP server.
38 0		15.5.2.9	The switch should support following IPv6 Features: 128-Bit Wide Unicast Addresses, DNS for IPv6, ICMPv6, Neighbor Discovery, IPv6 Stateless Auto-configuration and Duplicate Address Detection, SNMP and Syslog Over IPv6, HTTP over IPv6 and IPv6 MLD snooping		DNS IPv6 is a Core, Aggregation Switch requirement. Request to delete DNS IPv6	No change in RFP.
38 1		15.5.2.9	• KEMA,NEMA TS-2, ODVA Industrial EtherNet/IP, PROFINETv2, ABB IT Certificate, IP30		There are multiple standard. Please confirm Supporting IP30 should fulfil the requirement	No change in RFP.
38 2		15.5.2.10	Switch should support ACLs, TACACS+, RADIUS, IP Route Filtering, ARP spoofing, DHCP snooping, DHCP Option 82, Dynamic ARP Inspection (DAI), IP source guard and BDU Guard or equivalent		Since other Security features are enough for this network. Request to delete IP Route Filtering, IEEE 802.1AE	No change in RFP.

38 3	15.5.2.10	Switch should have a console port, support for SNMP Version 1, 2 and 3, TELNET, SSHv2, 4 groups of embedded RMON, UDLD, Layer 2 Traceroute or equivalent, DHCP server	Request to delete DHCP Server. DHCP Server should be a feature of Aggregation or Core Switch function	Refer reply to SI. No. 379 above.
38 4	15.5.2.10	The switch should support following IPv6 Features: 128-Bit Wide Unicast Addresses, DNS for IPv6, ICMPv6, Neighbour Discovery, IPv6 Stateless Auto-configuration and Duplicate Address Detection, SNMP and Syslog Over IPv6, HTTP over IPv6 and IPv6 MLD snooping	DNS IPv6 is a Core, Aggregation Switch requirement. Request to delete DNS IPv6	No change in RFP.
38 5	15.5.2.10	<ul style="list-style-type: none"> • KEMA,NEMA TS-2, ODVA Industrial EtherNet/IP, PROFINETv2, ABB IT Certificate, IP30 	There are multiple standard. Please confirm Supporting IP30 should fulfil the requirement	No change in RFP.
38 6	15.5.2.11	Layer 2 trace route eases troubleshooting by identifying the physical path that a packet takes from source to destination.	Please confirm support of LLDP should be the requirement of this clause	No change in RFP.

387		15.5.2.11	Should support DHCP Server feature to enable a convenient deployment option for the assignment of IP addresses in networks that do not have without a dedicated DHCP server.		Request to delete DHCP Server. DHCP Server should be a feature of Aggregation or Core Switch function	Refer reply to Sl. No. 379 above.
388		3.2.1.2	In future if Wi-fi technology is changed during concession period to any other technology, the same has to be provided by the concessionaire.		Is concessionaire to reinvest on technology again? How to define Technology life cycle? Who will fund the technology upgration?	Refer reply at Sl. No. 178 above.
389		3.1.6 /3.4.3	3.1.6 The Concessionaire shall have the right to use existing street lighting poles in NDMC area (approximately 18500), except high mast poles, to create infrastructure to enable multiple telecom services based on Wi-Fi/2G/3G/4G/RF/NextGen in terms of clause 3.4.3 to be utilized by multiple service providers having valid license from Department of Telecommunication (DoT), Government of India on nondiscriminatory basis on fair market price.		Can poles be used for other monetization means (Advertisement - Electronic or other type) etc.	No change in RFP.

39 0		3.4.3	NDMC reserve right to collect rental/user charges from those who have installed any equipments for any purpose on these street light poles. Such user/rental charges would be collected by NDMC based on market rate is covered from this RFP process.		How concessionaire will earn revenue? Will NDMC be shared this revenue with concessionaire?	No change in RFP.
39 1		3.4.4	3.4.4 All the electricity consumed for providing service to NDMC, like city surveillance, LED street light and any other equipment used for this project except Wi-Fi services, will be free of cost. The Concessionaire will take separate electric meter for running his own services.		WiFi services are being provided free of cost. NDMC should provide electricity free of cost for WiFi services.	No change in RFP.
39 2		3.4.5	3.4.5 Minimum space required for installation of Gateway, Switches, Routers etc. for NDMC services will be provided free of cost by NDMC. Any Civil/Electrical work required will be the responsibility of the Concessionaire.		Need clarity on type of civil/Electrical work to be carried out at which multiple locations (POP etc.)	No change in RFP.

39 3		3.5.5	3.5.5 In case, any pair of fibre allotted to NDMC get damaged or not functional due to any reason, the Concessionaire will provide alternate fibre pair in not more than two hours so that NDMC service will not get effected.		Only in case service affecting. SLA 2Hrs is very strict. All nodes should be in ring architecture.	Refer reply at Sl. No. 35 above.
39 4		4.1.21	4.1.21 If during the course of execution of the project any minor revisions to the work requirements like technical specifications, equipment sizing, etc. are to be made to meet the goals of the project, such changes shall be carried out without any cost. The quantities of hardware and software items as mentioned in this RFP document are indicative.		Any revision in the scope minor or major shall be mutually discussed and agreed.	Clause 4.1.21 will be read as follows: "If during the course of execution of the project any minor revisions to the work requirements like 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. The quantities of hardware and software items as mentioned in this RFP document are indicative".

39 5		4.28.1	4.28.1 The Concessionaire 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 fiber cables. The category 5 (CAT 5E), category 6 (CAT 6), category 6A (CAT6A) and category 7 (CAT 7) and modular sockets will only be used when requirement of data transfer is very low. All material used shall be conforming to relevant standard as per ISO.		What are the cabling work (services) standards??	No change in RFP.
			Option to attach Singleband, Dualband Antennas directly on Access Point		Option to attach Single band, Dualband Antennas directly on Access Point or integrated antenna.	Item No. 3 in Table to the Clause 15.4.4.1 will be read as follows: “Option to attach Singleband, Dualband Antennas directly on Access Point or integrated antenna”.
			Must have minimum -97 dB or better Receiver Sensitivity.		Must have minimum -90 to - 97 dB or better Receiver Sensitivity.	No change in RFP.
			Must support 2X2 multiple-input multiple-output (MIMO) with two spatial streams		Must support 3x3 multiple-input multiple-output (MIMO) with three spatial streams	No change in RFP. Minimum specifications are provided in the RFP document. The applicants are free to provide higher scale as per proposed solution.

			Must support data-rates upto 300 Mbps or Higher		Must support data-rates upto 1300 Mbps or Higher on 802.11ac 5 ghz.	No change in RFP. Minimum specifications are provided in the RFP document. The applicants are free to provide higher scale as per proposed solution.
			Must support 40 MHz wide channels in 5 GHz.		Must support 80 MHz wide channels in 5 GHz.	No change in RFP.
			Access point shall support powering from AC Adapter, DC and POE(802.3af/802.3at+).		Access point shall support powering from direct 100-240 VAC and POE (802.3af/802.3at+).	No change in RFP.
39 6		15.4.1	City Wi-Fi Requirements		Access point should able to work as sensor for WIDS/WIPS functionality. Please confirm	The following clause will be added at the end of clause 15.4.1: "The overall wireless proposed solution should able to provide the detection, classification and containment of Rogue Access Point along with the basic WIPS signature etc."
					Access Point must support spectrum analysis intelligence to detect different wi-fi and non wi-fi interference and take corrective action for self healing and self optimized network. Please confirm	
					Access point should send spectrum analysis data to Controller for performance optimization on basis of spectrum analysis data sent to controller. Please confirm	

	Access point should support technology to increase the downlink performance to 802.11g clients, providing improved coverage and throughput to existing clients Please confirm
	Advance WIDS/ WIPS Security
	The WLAN solution should have the HW to implement advance WIDS & WIPS from day 1.Please confirm
	WIPS solution should Automatically blacklist clients when it attempt any attack. Please confirm
	WIPS solution should be capable of wireless intrusion detection & prevention .The WLAN should be able to detect Rogue AP and take corrective action to prevent the rogue AP. The system should detect and prevent an organization's wireless client connecting to rogue AP and also prevent an outside client trying to connect to organizational WLAN. Please confirm

	WIPS solution should detect & prevent an Ad-hoc connection (i.e. clients forming a network amongst themselves without an AP) as well as windows bridge (client that is associated to AP is also connected to wired network and enabled bridging between two interfaces). Please confirm
	The system should detect an invalid AP broadcasting valid SSID and should prevent valid clients getting connected from these AP's. Please confirm
	WIPS Solution should track the location of interferer objects. Please confirm
	For advance forensic WIPS solution should perform spectrum analysis to detect and classify sources of interferences. System should provide chart displays and spectrograms for real-time troubleshooting and visualization. Please confirm
	The WIPS solution should able to detect and locate the rogue access point on floor maps once detected. Please confirm

					<p>The WIPS solution should be able to detect and prevent if a client uses FATA-Jack 802.11 DoS tool (Available free on internet) and tries to disconnect other stations using spoofed authentication frames that contain an invalid authentication algorithm number. Please confirm</p>
					<p>The WIPS solution should detect and protect if a client probe-request frame will be answered by a probe response containing a null SSID to crash or lock up the firmware of any 802.11 NIC. Please confirm</p>
					<p>The WIPS solution should detect and protect if a client/tool try to flood an AP with 802.11 management frames like authenticate/associate frames which are designed to fill up the association table of an AP. Please confirm</p>
					<p>The WIPS solution should detect and protect if a client/tool keep on sending disassociation frames to the broadcast address (FF:FF:FF:FF:FF:FF) disconnect all stations on a network for a widespread DoS. Please confirm</p>

					<p>The WIPS solution should detect and protect if somebody try to spoof mac address of client or AP for unauthorized authentication. Please confirm</p>
					<p>The WIPS solution should detect and protect if a client/tool try de- authentication broadcast attempts to disconnect all clients in range rather than sending a spoofed deauth to a specific MAC address. Please confirm</p>
					<p>The WIPS solution should detect and protect if an attacker attempts to lure a client to a malicious AP using SSID on fake AP in close proximity of the premises. It should detect When the Valid Client probes for Valid SSID and these malicious APs respond and invite the client to connect to them. Please confirm</p>
					<p>when client radio is in sleep mode to save battery and AP then begins buffering traffic bound for that client until it indicates that it is awake. The WIPS solution should detect and protect if intruder try sending spoofed frames to the AP on behalf of the original client to trick the AP into believing the client is asleep to buffer the AP beyond limit. Please confirm</p>

39 7		15.2.1.1	The dashboard and operations center should be able to visualize various real time data on the map of the City. For example, data of all Smart LED, its control & policy implementation, the current number of Wi-Fi users across all locations, real time data about all connected parking spaces, any video analytics alerts coming from the surveillance, environmental parameters etc. all should be visualized and reported on this single integrated city operations dashboard.		Please clarify on the source of having real time data about all connected parking spaces?	The source of Parking System etc. data will be provided as and when such other services are needed to be visualised on the dashboard by the NDMC. The proposed solution should be standard and capable of integrating such other systems in future.
39 8		15.2.1.3	The integrated platform can have its own application or it can provide API(s) so that Cities partners can develop dashboard applications or mobile applications leveraging those API(s)		Please clarify whether the services to be integrated need to have dashboard applications or mobile application which can be integrated with API of integrated platform. Or is it the other way around ?	No change in RFP.
39 9		15.2.1.4.c	The platform can be hosted in Cities Data Center or in Cloud based on Cities choice.		Please clarify on the hosting of platform i.e on cities data centre or in cloud.	Refer reply to Sl. No. 146 above.

400		15.2.1.4.	The platform should be able to integrate with other e-governance and business application to read and analyses data from those applications to be visualized on the integrated dashboard.		Please provide details of other e-governance and business applications to be integrated in the dashboard. API's and other integration support of these services shall be provided or not?	Refer reply to Sl. No. 147 and 346 above.
401		15.2.1.1	Command & Control Center will integrate new and existing security systems into a common platform. It will connect disparate information to mitigate risk across the security environment by providing actionable intelligence and speeding security incident resolution. Mitigate risk across the security environment.		Please provide details of existing security system (make/model/BOQ etc) which need to be integrated with Command & Control Centre. API's and other integration support of these services shall be provided or not?	The details will be made available during the deployment. The concessionaire will be responsible for developing / providing interfaces, if required by NDMC.
402		15.2.1.4	Single Dashboard for City Infrastructure Management & Smart City Services for Smart Lighting ,Parking System, GIS Services and Other Manual Services of Municipality work visulised real time on 2D/3D map of City. This dashboard can be accessed via web application as well as mobile app. The various information that may be accessed from the system but not limited to are as below. Some of features of Integrated Command and Control Center shall include: (i) Access and operate city lighting infrastructure (ii) Parking availability status of		The scope mentions to integrate Wi-Fi, Smart LED Street Light, City Surveillance with Command and Control Centre. Which among these services are already existing with NDMC and do we have integration support in terms of API's etc fr these services?	None of them exists as on date as envisaged in this RFP document.

			<p>automated city parking areas</p> <p>(iii) Visual alerts generated by any endpoint that is part of the city infrastructure e.g. Surveillance cameras, City lights or any other sensors that manages various city management use cases.</p> <p>(iv) Access information of water management resources.</p> <p>(v) Information about waste management resources.</p> <p>(vi) Various citizen services e.g. Land records, Municipality tax, billing etc</p> <p>(vii) City environmental data</p> <p>(viii) Information from smart energy management system.</p> <p>(ix) Take action based on events generated by any city infrastructure device</p>			
403		15.2.2	<p>Command Control Center and Communication System application should support API integration with existing Dial 100 or CCTNS etc.</p>		<p>Please provide details of existing DIAL 100 or CCTNS etc (make/model/BOQ etc) which need to be integrated with Command & Control Centre.</p> <p>API's and other integration support of these services shall be provided or not?</p>	Refer reply to Sl. No. 401 above.

			NDMC responsibility (no charges from Concessionaire)		NDMC will provide permission in writing for Right of Way, including permission to use NDMC's existing tunnel in Connaught Place area for such purpose, free of cost in NDMC area to lay underground optical fibres/cables for providing licensed telecom services for three years (i.e. implementation period of one year and subsequent two years).	No change in RFP.
			Concessionaire Responsibilities		As numbers of other Civic Services like power cables, gas line, water supply line, sewer line, cables of telecom service providers, defense installations etc. are running under-ground, the Concessionaire will give a advance schedule of trenchless digging and shall get clearance before starting the trenchless work. The Concessionaire will deploy advance trenchless machine, which can detect any utility services coming in its alignment.	No change in RFP.
			Concessionaire Responsibilities			No change in RFP.
ComNet						

40 4			<u>INDUSTRIAL GRADE LAYER 2</u> <u>SWITCH TYPE 1 / TYPE 2 / TYPE 3</u>	1. Industry Standards: • KEMA, NEMA TS-2, ODVA Industrial EtherNet/IP, PROFINETv2, ABB IT Certificate, IP30	No change in RFP.
40 5				2. Safety & Hazard: ANSI/ISA 12.12.01 (Class 1, Div 2 A-D), EN 60079-0, -15 ATEX certification (Class I, Zone 2 A-D) with cabinet enclosure DIN rail mount	No change in RFP.
40 6				3. Certifying body could any global body like ABB/IT, KEMA or TuV. Kindly add, or TuV certified	No change in RFP.
40 7				4. EtherNet/IP, PROFINETv2 are for factory automation, so not relevant. Kindly remove	No change in RFP.
40 8				5. https://en.wikipedia.org/wiki/A TEX_directive : is for explosive environment, note that cameras are not explosive proof! Kindly remove ATEX	No change in RFP.
40 9				6. Mounting option, shall be manufacturer, DIN or rack mount. Kindly add Rack Cabinet Mount	No change in RFP.
41 0				7. Rack Cabinet must be IP 67 rated, to protect these Industrial grade switch from dust and water	No change in RFP.

41 1					8. All the Type 1 to Type 6 cameras are PoE or PoE+ requiring PoE power from 5w to 20w, we should also consider the drop in the cable length.	No change in RFP.
41 2					9. In view of point 6, above, the requirement of Type 1, 2 and 3 grade Industrial switch for CCTV PoE camera, all ports must be PoE/PoE+, to connect all these PoE cameras.	No change in RFP.
41 3					10. Industrial grade switch Type 1 and 2 has only 4 PoE/PoE+ ports out of 8 ports. Type 3 has Zero PoE/PoE+ Ports,	No change in RFP.
41 4					11. TYPE 1 : The switch should provide 8 port 10/100 Mbps FE ports downlink out of which minimum four should be POE+ and switch should additionally have 4 GE SFP uplinks.	No change in RFP.
41 5					12. Standard product available in market is with 2 GE fiber port, this would ensure competition among OEM	No change in RFP.

41 6					13. TYPE 2 : The switch should provide 8 port 10/100/1000 Mbps GE ports downlink out of which minimum four should be POE/POE+ and switch should additionally have 4 GE SFP uplinks. Should be proposed with ruggedized transceivers as per Concessionaire solution. Standard product available in market is with 2 GE fiber port, this would ensure competition among OEM	No change in RFP.
41 7					14. In order to avoid monopoly, as some manufacturers lock optics, must demand MSA compliant SFP : https://en.wikipedia.org/wiki/Multi-source_agreement	No change in RFP.
Sparsh						
41 8	15.5.2.2 Type 1- PTZ - High Definition Camera		Digital I/O: DI x 4, DO x 2		Digital I/O -1/1 ch is available which are more than enough to integrate other security devices. Request to change from Digital I/O: DI x 4, DO x 2 to Digital I/O: DI x 1, DO x 1.	No change in RFP.
41 9	15.5.2.2 Type 1- PTZ - High Definition Camera 1 5.5.2.3 Type 2- PTZ - Standard Definition		Certifications Safety and Certifications EMC- Requirements: CE, Class A FCC, Class A UL/cUL Listed C-Tick		Request to change from Certifications Safety and Certifications EMC- Requirements: CE, Class A FCC, Class A UL/cUL Listed C-Tick to CE, FCC, UL/EN/IS/IEC.	No change in RFP.

					As explained above IS & UL are the same standards and both are derived from IEC	
420	15.5.2.3 Type 2- PTZ - Standard Definition		Digital I/O: AI x 4, AO x 2		Request to change Digital I/O: AI x 1, AO x 1.	No change in RFP.
421	15.5.2.4 Type 3- Fixed IR Camera 15.5.2.5 Type 4- Fixed Box Camera 15.5.2.6 Type 5- Traffic Junction Camera- High Definition 15.5.2.7 Type 6- Number Plate Recognition Camera		Certifications Safety:UL60950-1 2nd edition CSA22.2-No.60950-1 IEC/EN60950-1 2nd edition IEC/EN60825		IEC /EN 60950-1 certification is available. We request you to please consider a change from UL60950-1 2nd edition CSA22.2-No.60950-1 IEC/EN60950-1 2nd edition IEC/EN60825 to UL60950-1 2nd edition / CSA22.2-No.60950-1 /IEC/EN60950-1 2nd edition /IEC/EN60825	No change in RFP.
422	15.5.2.4 Type 3- Fixed IR Camera 15.5.2.5 Type 4- Fixed Box Camera 15.5.2.6 Type 5- Traffic Junction Camera- High Definition 15.5.2.7 Type 6- Number Plate Recognition Camera		Certifications EMC-Requirements:CISPR22 Class B ICES-003 EN55022 EN55024 EN61000-3-2/-3-3 Class KN22 Class B KN24		Request to remove these certification as these are part of CE & EN certification	No change in RFP.

42 3	15.5.2.5 Type 4- Fixed Box Camera 15.5.2.6 Type 5- Traffic Junction Camera- High Definition		Lens/Iris: 3-8mm- P-Iris Lens/Iris3 to 10 mm P-Iris or better with Motorized Zoom Lens and Vandal-Resistant Dome		Limited vendors have P-Iris technology which restricts others to participate in the tender. request to change Lens/Iris from 3-8mm- P-Iris to 2.8~12 mm Auto Iris	No change in RFP.
42 4	15.5.2.7 Type 6- Number Plate Recognition Camera		Lens/Iris: Megapixel P- Iris Lens, 8 to 50mm/ 12.5 to 50mm		Limited vendors have P-Iris technology which restricts others to participate in the tender. request to change Lens/Iris from Megapixel P-Iris Lens, 8 to 50mm/ 12.5 to 50mm to 5-50 mm Auto Iris	No change in RFP.

Other changes as proposed in the RFP document are as follows:

- In clause 6.1.1, the words “Letter of Award” shall be read as “Letter of Acceptance”.
- Clause 4.27(iv) will be read as:
“After implementation period, the Operations and Maintenance (O&M) period shall be upto a period of fifteen years from the date of signing of concession agreement. ~~from the date of GO LIVE (Implementation period of maximum one year from the date of signing of the concession agreement).~~”
- “9.3.1.1” in clause “15.3.2” will be read as “15.3.2.1”.
- In sub-clause (vii) of Annexure 4 of the RFP document, after Gole Market area, the words “Delhi Haat” will be added.
- After S. no. 3 of the Clause 15.3.2.4 the following will be added “The LED Drivers for all types of Luminaries under this RFP must be approved from BIS under Compulsory Registration Scheme.”
- After clause 3.5.29, the following clause will be added:
“3.5.30 The Concessionaire may install one telecom equipment of its own on a pole considering the aesthetics and structural stability of the pole and surrounding areas. In case, the concessionaire wants to install more than one telecom equipments of its own on a pole, in such case, the concessionaire shall get NDMC’s prior approval considering the aesthetics (such as equipments fully concealed within the pole structure, etc.) and structural stability of the pole. The concessionaire is not allowed to install any telecom equipment on a pole, except its own telecom equipments and equipments for NDMC. The concessionaire can share services of its own telecom equipments with other entities. NDMC reserves the right to use such poles for any purpose.
3.5.31 For the operation and maintenance as per this RFP document, the Concessionaire may engage specialized agencies on its behalf to execute the same. In such cases, the liability of fulfilling the terms and conditions of the agreement, including RFP document, remains of the concessionaire.”

ANNEXURE TO THE REPLIES TO PRE-BID QUERIES

1 SLAs mentioned in clause 9.2 and 9.3 have been revised as follows:

“9.2 SLA for availability of Wi-Fi System on Internet through Access Points (AP) (Per AP hour)

Sr. No	Uptime SLA (Quarterly) For AP hours	Penalty values per qtr
1	Uptime up to 99.5%	No Deduction
2	Between 99.5% to 99%	Rs. 4 Lacs
3	Between 99% to 98%	Rs. 12 Lacs
4	Between 98% to 97%	Rs. 20 Lacs
5	Between 97 % to 96%	Rs. 28 Lacs
6	Between 96% to 95%	Rs. 36 Lacs
7	Below 95%	Not acceptable. NDMC can terminate the Concession Agreement.

Note: For Internet Wi-Fi System:

- Downtime means non-working/ non-availability of Access Points (APs)/ not getting per user speed of 1Mbps. Uptime shall be calculated as [**1- (no. of AP hours not available/ per user 1Mbps speed not available)/ (Total no of APs* Total hours in one quarter)**]. For ex, if 600 nos. of APs are deployed at various locations, and 20 AP do not work for 1 hour, the total non-working AP hours will be 20 and the uptime would be $\{1-(20/(600*90*24))\}$, 600 being the number of APs, for 90 days on 24 hours basis. This down time will be used for penalty calculations on quarterly basis and necessary penalty calculated have to be deposited by the concessionaire. The penalties would be levied for every AP down time, be it for non-availability of network, theft, damage or non-availability of power etc., because the Concessionaire is responsible for supply of all enabling components on end-to-end basis.
- Downtime for single AP at any location should not be greater than 24 hours. For every day beyond these 24 hours downtime, penalty of Rs.1000/- per AP per location would be applicable additional to penalty specify as per SLA and Penalty Deduction for Wi-Fi.

9.3 SLA for Internet throughput

Throughput and Coverage: Minimum throughput and coverage has to **95%** of prescribed values of each AP. The throughput will be measured at **least 10 times** on a random basis in a day by the NDMC or by a third party appointed by the NDMC, and it shall be acceptable and binding on the Concessionaire. In case throughput falls below the guaranteed level, NDMC will impose the penalty of **Rs.1000/- (Rupees one thousand) per instance per location AP** in addition to SLA and Penalty defined in clause 9.2.”

2 Table of SLA mentioned in clause 9.4 has been revised as follows:

“9.4 SLAs for CCTV Surveillance System and ANPR cameras (per camera hour)

Sr. No.	Uptime SLA (Quarterly)	Penalty values per qtr
1	Uptime up to 99.5%	No Deduction
2	Between 99.5% to 99%	Rs. 4 Lacs
3	Between 99% to 98%	Rs. 12 Lacs
4	Between 98% to 97%	Rs. 20 Lacs
5	Between 97 % to 96%	Rs. 28 Lacs
6	Between 96% to 95%	Rs. 36 Lacs
7	Below 95%	Not acceptable. NDMC can terminate the Concession Agreement.

”.

3 SLA mentioned in clause 9.5 has been revised as follows:

“9.5 SLAs for Central Command & Control room equipments, Data Center and Citywide Network

Sr. No	Uptime SLA (Quarterly)	Penalty values per qtr
1	Uptime up to 99.5%	No Deduction
2	Between 99.5% to 99%	Rs. 5 Lacs
3	Between 99% to 98%	Rs. 15 Lacs
4	Between 98% to 97%	Rs. 25 Lacs
5	Between 97 % to 96%	Rs. 35 Lacs
6	Between 96% to 95%	Rs. 45 Lacs
7	Below 95%	Not acceptable. NDMC can terminate the Concession Agreement.

Note: Uptime definition:

- All devices have to be working and deliver the desired results. The no. of hours that the particular device/ equipment does not work will be treated as down time. Uptime shall be calculated as $[1 - (\text{no. of hours the unit was not working}) / (\text{Total no of units available} * \text{Total hours in one quarter})]$. For example, if 10 nos. of ~~Sensors~~ ~~for Digital display~~ equipments are deployed at various locations, and 2 ~~device/units~~ equipments does not work for 5 Hours, the total non-working ~~device~~ equipments hours will be 10 unit hours, and the uptime would be $\{1 - (10 / (10 * 90 * 24))\}$, 10 being the number of units, for 90 days on 24 hours basis. This down time will be used for penalty calculations on quarterly basis and necessary penalty calculated have to be deposited by the concessionaire. The penalties would be levied for every unit down time hour, be it for non-availability of network, theft, damage or non-availability of power etc., because the Concessionaire is responsible for supply of all

enabling components on end-to-end basis. The same analogy applies to central command and control room, where different weightage will be assigned for different equipments as under: 1 server is 25 units, 1 video wall is equal to 10 units, 1 storage server is 5 units, 1 router/ switch is 5 units etc. network switch at core location is equal to 5 units, firewall is equal to 5 units.”

4 Table of SLA mentioned in clause 9.6 has been revised as follows:

“9.6 SLAs for basic and semi-Advanced LED luminaries and their controller(s)

Sr. No	Uptime SLA (Quarterly)	Penalty values per qtr
1	Uptime up to 99.5%	No Deduction
2	Between 99.5% to 99%	Rs. 4 Lacs
3	Between 99% to 98%	Rs. 12 Lacs
4	Between 98% to 97%	Rs. 20 Lacs
5	Between 97 % to 96%	Rs. 28 Lacs
6	Between 96% to 95%	Rs. 36 Lacs
7	Below 95%	Not acceptable. NDMC can terminate the Concession Agreement.

”.

5 Table of SLA mentioned in clause 9.7 has been revised as follows:

“9.7 SLAs for Advanced Street Lights and other systems not explicitly covered in specific SLAs

Sr. No	Uptime SLA (Quarterly)	Penalty values per qtr
1	Uptime up to 99.5%	No Deduction
2	Between 99.5% to 99%	Rs. 2 Lacs
3	Between 99% to 98%	Rs. 6 Lacs

4	Between 98% to 97%	Rs. 10 Lacs
5	Between 97 % to 96%	Rs. 14 Lacs
6	Between 96% to 95%	Rs. 18 Lacs
7	Below 95%	Not acceptable. NDMC can terminate the Concession Agreement.

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