

**ITEM NO. 41 (B-05)**

**Sub : Status Report of on-going work undertaken for revamping electrical system**

Electricity Deptt. of NDMC has initiated various augmentation and upgradation work to meet the increased load demand and in order to maintain the good quality electricity supply for Common Wealth Games 2010.

The status report of various on-going work undertaken for revamping electrical system was placed before the Council vide Item No.16(B-38) dated 26-2-2009 for information. Council decided that the status report for the progress of the work may be placed before the Council after every three months.

Accordingly, status report showing the latest position of various on-going work, has been prepared and is appended.

**Recommendation of Department**

The present status report is placed before the Council for information.

**COUNCIL'S DECISION**

Information noted.

## **STATUS REPORT OF ONGOING WORK AS ON 18-05-2009**

### **(i) EHV work (Sub Transmission Works)**

#### **(a) Work Executed by PGCIL (ANNEXURE A-1 See pages 208 - 215)**

- The system strengthening work of sub-station has been awarded on 15-12-08. Actual construction has commenced at Sub-station Dr. Bishamber Das Marg.
- The work of fibre optic cable has been awarded on 15-12-08 and laying work has commenced.
- The work of 66/33 KV cable laying has been awarded on 16-2-09. Actual laying to commence shortly.
- The SCADA work has been awarded on 18-2-09.

#### **(b) Work executed by NDMC. (ANNEXURE A-2 See pages 216 - 220)**

- Both 66 KV circuits from G.T. station to Sub-station Vidyut Bhawan (including one circuit lying faulty since July, 2005) replaced and commissioned.
- 22 MVA capacity added at 33 KV level by replacing/ augmenting transformer capacity at 4 Sub-stations.
- Supply order for 28.5 KM, 33KV, 400 sq. mm. XLPE cable has been placed. Out of ordered quantity, 10 K.M. cable has been received.
- Tender invited for 33 KV cable laying work has been rejected being single offer and is now tender re-invited. Technical bid opened and cleared. Price bid opened and tenders under process of award.

### **(ii) Augmentation of distribution network under execution**

#### **( a) Laying of new 11KV feeders**

- Estimates of 13 no. 11KV feeders of total length 9800 meters in Phase-I have been approved by the Council & is under execution. **(ANNEXURE – B See pages 221 - 223)**.
- Supply order for 37.5 KM 11KV, 400 sq. mm. XLPE cable has been placed. 21 K.M. cable has been received.
- Supply order for 11KV, 150 sq. mm XLPE cable has been placed. Inspection call has been received.
- Estimate for replacement/augmentation of HT 11 KV cable – 174 Nos. has been prepared and sent to Finance Deptt. for concurrence.
- Supply order for LT cables of various sizes has been placed.

- 6 K.M. cable of size 400 mm<sup>2</sup> , 300 mm<sup>2</sup> & 185 mm<sup>2</sup> has been received.  
48 No. HT feeders have been laid and balance 45 No. are under execution.

**(b) Laying of new LT feeders**

Estimate for about 24 km LT cable of various sizes has been approved by the Council & is under execution.

**(ANNEXURE-B See pages 221 – 223).**

**(iii) List of improvement works under execution**

**(a) Replacement of 11KV HT switchgears**

**Phase-I**

- HT panel replacement work in 23 E.S.S. in M/S area has been completed.
- HT panel replacement work in 5 E.S.S. in M/N area has been completed.
- HT panel replacement work in 7 E.S.S. is in progress in M/S area.

**Phase-II** – The requirement of left out E.S.S. from M/N division and M/S division has been received and estimate for replacement in 105 nos. Sub-stations is being prepared after examination of various technical parameters.

**(b) Replacement of oil type transformers**

35 No. transformers replacement work in M/S area has been completed and balance replacement work of 16 No. transformers is under execution.

**(c) Replacement of LT switchgears**

- LT panel replacement work in 6 No. E.S.S. in M/N area has been completed.
- LT panel replacement work in 9 No. E.S.S. in M/S area has been completed.
- Estimate amounting to Rs.17,49,37,148/-(G) for replacement of 120 LT Boards at various Substations in M/N area has been approved by the Council for Phase-II and the same is under process of execution. **(ANNEXURE-C See pages 224 – 226 )**
- Estimate amounting to Rs.11,09,36,000/-(G) for replacement of 11 No. LT Board for Phase-IV has been approved by the Council and the same is under process of execution. **(ANNEXURE-D See page 227)**
- Estimate for replacement of 3 No. LT Board in M/S area for Phase-III is under process of approval. **(ANNEXURE-E (See page 228)**
- Estimate for replacement of 50 No. LT Board in 50 Electric Substations for Phase-V is under process of approval. **(ANNEXURE-F See pages 229 - 231)**
- Estimate for left out 15 no. Electric Substations is to be framed after examination of technical requirement at site. **(ANNEXURE-G See page 232)**

**(d) Replacement of feeder pillars**

- Estimate for 339 feeder pillars has been approved and is under execution for Khan Market, Kidwai Nagar and DIZ area.
- 77 feeder pillars have been replaced & commissioned.

**(iv) Installation of unitized sub stations**

- Estimate for 2 nos. unitized substations for Khan Market has been approved and is under execution.
- Estimates for 2 nos. unitized substations has been approved by the Council for Palika Niwas and is under execution.
- Estimate for 1 no. unitized substation for Moti Bagh Hospital has been issued for execution. **(ANNEXURE-H See page 233)**
- Estimate for 15 nos. unitized substation in DIZ Area has been sanctioned & is under procurement process.
- The case of purchase of 15 No. Unitized Sub-stations is being placed before the Council for approval.

**(v) Installation of dry type transformers**

- Estimate for replacement/augmentation of 40 transformers in 21 Electric Substations in M/N area has been approved by the Council and issued for execution for Phase-II.
- Estimate for replacement/augmentation of 51 transformers in 19 Electric Substations has been approved by the Council and issued for execution for Phase-IV.
- Estimate for replacement/augmentation of 23 transformers in 13 Electric Substations in M/S area for Phase-III has been framed and is under process of approval.
- Estimate for replacement/augmentation of 89 transformers in 50 Electric Substations for Phase-V has been framed and under concurrence of the Finance Deptt.
- Tenders already invited and being processed for procurement of 53 Nos., 1000 KVA rating and 14 Nos., 1600 KVA rating dry type transformers.

**(vi) Program for procurement of electronic meter----**

- Supply order for 5000 No. three phase and 10000 No. single phase electronic energy meters has been placed.  
5000 No. three phase energy meters have been received and issued to Commercial Deptt. for erection.
- 5000 No. single phase energy meters have been received and issued to Commercial Deptt. for erection.
- Balanced 5000 No. single phase energy meters are ready and yet to be received.

**(vii) 66KV feeder Vidyut Bhawan to GT ----**

The cable laying work has been completed. Circuit No.1 has been commissioned on 19-4-09 and Circuit No.2 has been commissioned on 3-5-09.

**(viii) Model sub station Dalhousie Road**

Estimate for Electrical works has been prepared and sent to Finance Deptt. for concurrence. The scheme for Civil & Horticulture works is to be finalized as observed by Finance Deptt. and a consolidated estimate is to be framed. Architectural drawings are being prepared.

**(ix) Service Van**

Estimate has been approved by the Council. The purchase case for 2 Nos. service vans is under process. Technical bid opened and under scrutiny.

**(x) Issue of land allotment with L&DO**

Earlier land marked for 33 KV substation in Aliganj, Jor Bagh has been cancelled by CPWD and now has submitted earmarked drawing showing the land at another location. The proposed land fulfill our requirement and forwarded to C.A. for acceptance. The matter is being persuaded with CPWD/L&DO.

**(xi) Identification of new sites for 11KV sub-stations**

Six sites have been identified. The matter is being persuaded with L&DO.  
**(ANNEXURE-I See pages 234 - 236)**

**(xii) Upgradation of Road lighting**

- Sample project for Simon Boliver Marg has been completed.
- For Upgradation for 67 nos. main roads under phase 1 & 2 work including automatic operation of street light by GSM technology is under process of award.
- In Phase-III, for 81 roads/ lanes, estimate has been approved and issued for execution.
- Estimate for remaining lanes/ colony roads and strengthening of LT distribution system is being framed.