

**Scope of Work for 33KV System of MPL Colony.**

Maintenances of 33 KV O/H Lines inside Colony Premises, 33 KV SWGR, 415 V SWGR, 33/0.433 TRF & other electrical equipment's at MPL ANANDAM Colony. (The amount includes all regular and preventive maintenance, Break down maintenance, Condition Monitoring, 33KV breaker Overhauling, OIL DGA Test, and oil physical parameter test etc. for the entire Contract Period)

## a) All required Tools tackles, insulated Ladder, earthing rod including special tools for all maintenance activities to be provided by Vendor.

## b) For maintaining 33 kV all the safety appliances to be provided by the vendor.

## c) Service Provider should maintain JSEB Supervisory license for all work man and at least 33 kV license for Supervisor.

Manpower Details- Supervisor-1 No.

Technician-4 Nos.

Helper-4 Nos.

Stores and Documentation-1 No.

## d) Service Provider should provide Two nos. competent manpower round the clock in MPL colony 33 kV S/s for handling emergency for 33 kV System only.

## e) Operation of 415V S/s of MPL colony is under scope of this vendor but maintenance of 415V distribution system (Block PDBs) is not under scope of this job.

## f) Service Provider should maintain 33KV/415V Breakers and Transformers in MPL colony (1.5MVA,2 Nos) end once in a year and as & when required by OEM. All the required spares will be supplied by MPL except special tools required for the Breaker/Transformer maintenance job.

## g) For oil leakage of MPL Colony end Transformer, Vendor should attend the same within 24 hours and MPL will supply the required sealing materials as required. Unable to attend the same by vender within 24 hours deduction of payment as follows:

## a) Within 24 Hours # 100% of overall PO value.

## b) Within 24 Hours to 72 Hours # 90% of overall PO value.

##c) More than 72 Hours # 80% of overall PO value.

## h) Two times in a year Oil DGA test for MPL colony end transformer to be carried out by vendor from NABL certified lab and submit the report to MPL Engineer Incharge for certification. Failing of this activity Rs. 10000/- will be deducted from vendor bill two times in a year. BDV checking of transformer, silica gel replacement, transformer testing, oil filtration, earth pit resistance measurement and Earth pits Treatment.

BDV testing machine, Silica Gel, Transformer testing equipments, Oil filter machine, Earth pit resistance measurement kit will be supplied by MPL. Paint & paining materials, Earth Pits Consumable items (Charcoal, Salt, Earth Rod, Chemical where required) will be supplied by vendor.

## i) MPL Colony 415 V Sw. Gr. Installed inside the Substation maintenance is under scope of this work. All spares for this maintenance job is under scope of MPL.

## j) Fuses required for four pole is under scope of vendor.

## k) All required spares related to 33 kV System, 415 V system for inside the S/S and Transformer are scope of MPL except four pole fuses. Power S/d for unable to supply of the required spares is not under responsibility of vendor and no deduction will be taken place of this situation.

## l) 33 kV Cable from four pole to S/s including Transformer in MPL colony maintenance, fault finding, rectification if required is under scope of vendor along with termination kit, Lugs & socket except HT cable.

## m) All external cable from S/S to different block along with DG system maintenance are not scope of this contract.

## n) DG starting and taken out from service is not in the scope of this work and DG maintenance as well as DG Charger maintenance also not in the scope of this work.

## o) Regular discussion with DVC Kalwaneswari S/s (for 33 kV System) for taken work permit is under scope of vendor except special cases. MPL will support for taken permit in proper format from DVC for 60 days of starting of contract and rest of the period vendor will be responsible to take permit and perform the 33 kV maintenance job.

For 33KV Line Shutdown and Normalisation process Communication with DVC Kalayaneswari/Right bank Substation will be in Vendor Scope.

## p) Maintenance of Battery & Battery Charger for 33 kV Control system of MPL colony are under scope of this job. Vendor should maintain the specific gravity of battery twice in a month and record to be certified by MPL Incharge.

## q) Battery Charger maintenance also scope of vendor and MPL is nowhere responsible for charger maintenance. Vendor should call the OEM for battery charger within period of 12 Hrs. if any problem found in the Charger and repairing cost will be borne by Vendor.

## r) All the lighting / Fire /220V AC system maintenance of Colony including S/S lighting are not in the scope of this job.

## s) Lightening arrester installation in Building top and Maintenance is under the scope of Vendor. All the materials and Consumable items should be provided by Vendor.

## t) Vendor should provide support during meter reading of MPL colony by DVC but Vendor is nowhere responsible for certification of readings. Only MPL designated Employee will certify the Meter reading. Vendor is not responsible for LV meter reading of MPL colony.

## u) All Consumables (PVC tape, distil water, Grease, Petroleum Jelly, HT Tape, Sealing Putty- Araldite, M-seal putty etc.) under scope of vendor. Supply of Transformer sealing materials are in the scope of MPL.

Deduction for 33KV Power supply at MPL Colony (from H tower to Transformer end)

##a) Failing of supply the power of 33 kV system within 360-365 days# 100% k- Factor -1.0

##b) Failing of supply the power of 33 kV system within 330-360 days #100% k- Factor -0.9

##c) Failing of supply the power of 33 kV system within 300-335 days # 100% k- Factor -0.8

##d) Failing of supply the power of 33 kV system within <300 days # 100% k- Factor -0.5

## v) However if MPL asks to deploy additional manpower in case of emergency and breakdown period you will certify on manpower basis. All the workmen will be available 24 hours basis to meet any emergency.

##w) You shall maintain pending work order list and plan accordingly. Daily site super-visor must report to engineer in charge and report daily activity verbally or telephonically and get the plan for next day maintenance.

## x) You have to submit the daily, weekly, and monthly progress report.

## y) Attending time for the Critical defect (As defined by Engineer Incharge) should be completed within two hours

## z) Delay in the attending the job will be panelising by Engineer Incharge. Maximum penalty will be 5% of PO Value.

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