

Scope of Work and Condition

- Routine maintenance, servicing and testing of Transformers (TR), Vacuum Circuit Breakers (VCB), Air circuit breakers (ACB), MCCBs, HT panel, LT Panel, HT and LT cable, Block/Ground floor panels and instruments, equipment, meters and all accessories in the panel must be done. One Experienced Wireman having a knowledge of HT substation have to be deputed daily throughout AMC period in each Hostel without any extra cost.
- Following electrical equipments are included in operation & all in comprehensive maintenance and are to be carried out by licensed personnel of the contractor.
 - Existing HT panel and VCB and its protection systems viz. relays, trip circuits etc.
 - Transformers and its protection system etc
 - All HT cables.
 - All Measuring instruments indicators, bus bars, LT cables, Bus couplers and complete LT panel in the Sub Station including checking of earth pits and taking corrective action for improvement of earth resistance if found improper.
 - LT cables from Transformers to LT panel at Substation room to LT panel at Ground floor of each Block
 - Any other job related to electrical within Samras Hostel Premises assigned to the contractor are to be done by the contractor under the contract i.e. fixing of new DB, terminations, rectifying electrical problems, solving faults etc, without any extra cost.
 - Watering of earth pits to maintain the earth resistance. Also to check earth resistance periodically and to maintain earth resistance as per Norms.
- Oil filtration of Transformers and Top- up oil if required must be done for minimum one time during the contract period and should do the same for more than one time as per site requirement without extra cost. Necessary certificate must be submitted.
- Replace gaskets of Transformers if required. No extra charges will be given for that. Silica gel of Transformer should be replaced as per requirement. No extra charges will be given for that.
- Calibration, Testing and setting of relay must be done every year and necessary certificate must be submitted. No extra charges will be given for that.
- HT cable from outgoing of MG VCL to HT panel and HT panel to Transformers and LT Cable from Substation to Ground floor panel of every Block, lugs, glands and all accessories repair and replacement have to be done by agency. No extra charges will be given for that.
- Repairing of any parts or accessories or whole of Transformers (TR), Vacuum Circuit Breakers (VCB), Air circuit breakers (ACB), MCCBs, HT panel, LT Panel, Block/Ground floor panels have to be done by agency without any extra cost.
- Power factor must be maintained
- The contractor shall make good all the damages caused to the electrical installation due to faulty and negligent operation. And at the end of contract period he shall hand over plant and all equipments in the contract scope in good working condition.
- The sub-station and its environment will be kept neat and clean. Cleaning agents such as soap, detergent, cotton waste, etc., shall be provided by the contractor
- The contractor shall follow the provisions of the Electricity Act 2003 and the Regulations framed there under. The contractor should provide all fire fitting equipments and other

safety equipments essential as per Electricity Rules and maintain the same throughout the contract period.

- The contractor shall periodically do watering of earthing pits to maintain the earth resistance. The contractor shall also check earth resistance periodically and the contractor has to maintain earth resistance as per Norms.
- The Contractor shall do Recording of condition of transformer in transformer log book including load on the Transformers and taking corrective action in case of abnormalities;
- Keeping all the meters and indicators of HT and LT panels intact;
- Cleaning of Transformer, HT panels, LT panels etc; and repairing etc. is to be done immediately if on inspection any defect is found.
- Tightness of all the jumper and connections are to be checked on weekly bases.
- Record of fault, breakdown, interruptions, incoming supply fail time in and time out etc should be maintained in a logbook.
- Checking and operating switch gear and trip circuit of HT Panel/Breaker for its proper functioning. In case of defective/mal-functioning to be rectified immediately;
- Checking and operating switch gear and trip circuit of Transformer for its proper functioning. In case of defective/mal-functioning to be rectified immediately;
- Checking and operating each switch gear and trip circuit of LT panels for their proper functioning. In case of defective/mal-functioning to be rectified immediately;
- Checking of power & control relay etc. and rectifying any fault detected and ensuring the proper operation of HT LT panels.
- Cleaning of interior of HT & LT panel and tightening of all nuts and bolts including bus bar bolts, cable connections, switch connections etc;
- Checking the earth pits, the value of earth resistance. In-case high, taking the corrective action to bring it up;
- Testing of earthing of each panel on HT and LT. In case improper need to be corrected.
- Checking and ensuring that all the installations are properly earthed. In case some earthing is found to be disconnected, the same is to be rectified. Watering of earth pits to maintain the earth resistance. Also check earth resistance periodically
- If contractor is not able to rectify the fault then the same may be got done through some other agency at the risk and cost of contractor failing which an equivalent amount will be deducted from bill. However, the decision of the Executive Engineer in this regard shall be final and binding.

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Baroda Ele. Sub. Dn
Baroda

Ex. Engineer
Vadodara Ele. Dn
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