



INDRAPRASTHA POWER GENERATION COMPANY LTD.
(A Government of NCT of Delhi Undertaking)

**C & M Department,
Pragati Power Station,
IP Estate, Ring Road,
New Delhi-110002
Fax: 011-23370533**

Ref.1000002489

Subject:Annual Rate Contract of Electrical System of GTPS.
Enquiry No. 1000002489

Earnest Money Deposit:Rs.28000.00 "in f/o IPGCL".
Bid Opening Date 15.05.2012 **Time of Opening** 11:30:00
Cost of Tender Documents: RS 750.00 #in f/o IPGCL”

Qualifying Requirement:1. The average annual financial turnover of the bidder during the last three financial years ending 31st March, 2012, should be at least Rs.4.2Lacs only.2. The bidder should be satisfactory executed work(s) for Erection & Commissioning / AMC / Overhauling Contracts of Electrical System in SEB/ IPGCL / NTPC / PSUs / DTL / large industrial establishment with experience in at least two of the following specialized areas i.e. HT/LT switch-gears or HT/LT Motors or Battery Chargers & Station Battery or Station Lighting System during the past 07 calendar years ending 31st March, 2012 with either of the following: a) Three similar completed works costing not less than Rs.5.6 Lacs each. OR b) Two similar completed works costing not less than Rs.7.0 Lacs each. OR c) One similar completed works costing not less than Rs.11.2 Lacs.

Dear Sir/Madam,

Please send your sealed offer in the enclosed annexure as per the given instructions; otherwise your offer shall be ignored.

Important Guidelines:

Downloading/Sale of Document: From to upto 00:00:00.
Last date of submission of tender: 15.05.2012 upto 11:00:00.
Bid Opening Date: 15.05.2012 Time of Opening: 11:30:00 .

Tender opening activity shall take place at Pragati Power Station, CM Department, IP Estate, Ring Road, New Delhi # 02. You may deput e your representative to witness the bid opening.

Bids are to be submitted (online) in two parts viz # Part A # Techno-commercial bid and Part B- Price bid. EMD as applicable shall be accompanied (soft copy) with techno-commercial bid. Only techno-commercial bids will be opened on the due date. After evaluation of techno-commercial bids, price bids shall be opened after due intimation to all the bidders.

The bidder shall submit the scanned copy of following documents towards the proof for meeting the QR in Part-1 bid:

- 1) Visible self attested copy of EPF<(><<>>(>,<(><<>>)> Service tax & TIN registration no as per essential and mandatory requirement.
- 2) Visible self attested copy of Work Experience Certificate with executed amount from end user, actual date of start, actual date of completion as per Qualifying Requirements mentioned in the Tender Document and under essential & mandatory requirement of special terms and condition.
- 3) Visible self attested copy of Turn Over as per Qualifying Requirements in the Tender Document.
- 4) Bidder should have a valid Electrical Contractor license. Visible self attested copy of Electrical Contractor license.
- 5) Visible self attested Scanned copy of EMD submitted.

- 6) Visible self attested Scanned copy of Tender Fee submitted.
- 7) The Bidder should either submit document in respect of having registration with ESI or shall have to give an undertaking that the employees will be covered by group personal accident/mediclaim policy in addition to public liability & work men compensation policy before start of work.
- 8) The bidder should certify that the firm is not blacklisted/debarred by any Govt. /Semi-Govt. /Board/Corporate/Pvt. Organization and also certify that he will show the originals of self attested copies of submitted/uploaded documents for verification if called for.
- 9.N.B. # It is essential for every bidder to submit a certificate alongwith offer/tender/quotation that whether registered under MSMED Act, 2006 (Micro, Small and Medium Enterprise Development, Act, 2006).

Our NIT document, containing the detailed terms & conditions and other instructions is attached herewith.

Thanking You,

Yours Faithfully

Assistant Manager/Manager(C&M)

Bill of Quantity (Service)

| S.NO | Service Code | Service Description | UOM | Qty | Rate |
|------------|----------------------------------|---------------------------------------|-----|-------|------|
| Item no.10 | ARC of electrical system of GTPS | | | | |
| 10 | EL12002474C | Mtc of Generator transformer | NO | 0.000 | |
| 20 | EL12002475C | Dehydration of generator transformer | H | 0.000 | |
| 30 | EL12002476C | Mtc of Auxiliary transformer | NO | 0.000 | |
| 40 | EL12002477C | Dehydration of Auxiliary transformer | H | 0.000 | |
| 50 | EL12002482C | cleaning of boiler board MCC | NO | 0.000 | |
| 60 | EL12002483C | cleaning of Turbine board MCC | NO | 0.000 | |
| 70 | EL12002484C | cleaning of Emergency board MCC | NO | 0.000 | |
| 80 | EL12002485C | cleaning of OLU unit MCC | NO | 0.000 | |
| 90 | EL12002486C | cleaning of 125V DCDB MCC | NO | 0.000 | |
| 100 | EL12002487C | cleaning of 6.6KV MCC Board | NO | 0.000 | |
| 110 | EL12002488C | cleaning 11 KV SA1 Board | NO | 0.000 | |
| 120 | EL12002489C | cleaning SA2 Board | NO | 0.000 | |
| 130 | EL12002490C | cleaning Relay & Metering Board | NO | 0.000 | |
| 140 | EL12002491C | cleaning CCT MCC Board | NO | 0.000 | |
| 150 | EL12002492C | Mtc of Generator auxiliary equipments | NO | 0.000 | |
| 160 | EL12002493C | Mtc of HT motor | NO | 0.000 | |
| 170 | EL12002494C | Mtc of LT motor upto 3.7KW | NO | 0.000 | |
| 180 | EL12002495C | Mtc of LT motor from 5-30KW | NO | 0.000 | |
| 190 | EL12002496C | Mtc of LT motor from 45-110KW | NO | 0.000 | |
| 200 | EL12002503C | Replacement of motors upto 3.7KW | NO | 0.000 | |

| S.NO | Service Code | Service Description | UOM | Qty | Rate |
|------|--------------|--------------------------------------|-----|-------|------|
| 210 | EL12002504C | Replacement of motors 5-30KW | NO | 0.000 | |
| 220 | EL12002505C | Replacement of motors 45-110 KW | NO | 0.000 | |
| 230 | EL12002506C | Beakdown Mtc of breaker upto 3.7KW | NO | 0.000 | |
| 240 | EL12002507C | Beakdown Mtc of breaker 5-30KW | NO | 0.000 | |
| 250 | EL12002508C | Beakdown Mtc of breaker 45-110KW | NO | 0.000 | |
| 260 | EL12002509C | Mtc of High Pr. Vapor light fittings | NO | 0.000 | |
| 270 | EL12002510C | Mtc of flourscent light fitting | NO | 0.000 | |
| 280 | EL12002511C | Installation of temporary light | NO | 0.000 | |
| 290 | EL12001100S | Electrical fitter | STD | 0.000 | |
| 300 | EL12001101S | Semi skilled/helper | STD | 0.000 | |
| 310 | EL12001102S | Unskilled/ Mazdoor | STD | 0.000 | |
| 320 | EL12001884C | Painting of electrical equipments | M2 | 0.000 | |

Total Value

Bidding Type : Two Part Bidding

Evaluation Criteria : ITEM WISE BASIS L1

Scope of work :

1)43mva ,66/11kv generator transformer:cleaning of dust and dirt accumulation on hv and lv bushing,lightening arrestor,oil accumulation on transformer tank, lv bushing chamber, marshelling box,on load tap changer control panel etc.checking of silica gel and oil level in the cup in dehydrating breather of conservator tank and oltcand top up if found low.clean air passage.checking of tightness of all cable termination inside marshelling box and oltc control panel and greasing of the operating mechanism. checking of looseness of lv, hv bushing and lightening arrestor clamps for all the phases and tightening of the same.checking and tightening of tank earthing and lightening arrestor earthing.checking of oil leakage from transformer tank flanges,radiators ,inspection covers, hv and lv bushings and attending the same by replacing gaskets and 'o' rings.checking of oil in the winding and oil temperature indicator pockets and replenish of the same if required.checking of healthiness of fans and their control circuit and rectification of the same by replacing control component such as fuse overload contactor etc. mechanical inspection of bucholz relay and set floats if required.checking of all protection alarm and trip circuit by actual external initiation.adjust the setting and wiring circuit if needed.replace damage relays.also checking of earth resistance of transformer.

2)43mva ,66/11kv generator transformer:shifting of transformer dehydration machine to the desired generator transformer.laying and connection of power cable to the machine.connection of inlet and outlet hosepipe to the transformer from the filtration machine.filtration of transformer oil and oltc oil till the oil test result found satisfactory.During the dehydration of transformer oil BDV, IR Value and temperature to be recorded on hourly basis.The sample for BDV of oil to be taken from transformer top and bottom.After completing oil filtration of transformer, disconnection of power cables and hose pipes and stacking of the same properly at desired place.also shifting of dehydration machine as directed by engineer in charge.Air to be released from HV and LV bushing,all the radiators and bucholz relay.Necessary manpower required for shifting of dehydration machine and other associated work shall be arranged by vendor along with deputing one number of skilled dehydration machine operator and one number of helper.

3)upto 7.5mva transformer:cleaning of dust and dirt accumulation on hv and lv bushing,lightening arrestor,oil accumulation on transformer tank <(>,<)>

lv bushing chamber, marshelling box,on load tap changer control panel etc.checking of silica gel and oil level in the cup in dehydrating breather of conservator tank and oltcand top up if found low.clean air passage.checking of tightness of all cable termination inside marshelling box and oltc control panel and greasing of the operating mechanism. checking of looseness of lv, hv bushing and lightening arrestor clamps for all the phases and tightening of the same.checking and tightening of tank earthing and lightening arrestor earthing.checking of oil leakage from transformer tank flanges,radiators ,inspection covers, hv and lv bushings and attending the same by replacing gaskets and 'o' rings.checking of oil in the winding and oil temperature indicator pockets and replenish of the same if required.checking of healthiness of fans and their control circuit and rectification of the same by replacing control component such as fuse overload contactor etc. mechanical inspection of bucholz relay and set floats if required.checking of all protection alarm and trip circuit by actual external initiation.adjust the setting and wiring circuit if needed.replace damage relays.also checking of earth resistance of transformer.

4)upto 7.5mva transformer:shifting of transformer dehydration machine to the desired generator transformer.laying and connection of power cable to the machine.connection of inlet and outlet hosepipe to the

transformer from the filtration machine. filtration of transformer oil and oil till the oil test result found satisfactory. During the dehydration of transformer oil BDV, IR Value and temperature to be recorded on hourly basis. The sample for BDV of oil to be taken from transformer top and bottom. After completing oil filtration of transformer, disconnection of power cables and hose pipes and stacking of the same properly at desired place. also shifting of dehydration machine as directed by engineer in charge. Air to be released from HV and LV bushing, all the radiators and bucholz relay. Necessary manpower required for shifting of dehydration machine and other associated work shall be arranged by vendor along with deputing one number of skilled dehydration machine operator and one number of helper.

5) cleaning of boiler board mcc 415 volt 3 phase double front type of size 14620*1000*2340mm from outside and cable chamber to remove dust and dirt accumulation.

6) cleaning of turbine board mcc 415 volt 3 phase double front type of size 11220*1000*2340mm from outside and cable chamber to remove dust and dirt accumulation.

7) cleaning of emergency board mcc 415 volt 3 phase double front type of size 3420*1000*2340mm from outside and cable chamber to remove dust and dirt accumulation.

8) cleaning of olu unit mcc 415 volt 3 phase double front type of size 8700*1000*2340mm from outside and cable chamber to remove dust and dirt accumulation.

9) cleaning of 125v dcdm mcc double front type of size 3240*1000*2340mm from outside and cable chamber to remove dust and dirt accumulation.

10) cleaning of 6.6kv mcc 3 phase double front type of size 15000*2000*2500mm from outside

11) cleaning of 11kv sa1 board 3 phase double front type of size 5600*1600*1600mm from outside

12) cleaning of 415v 3 phase sa2 board double front type of size

8000*1000*2500mm from outside 13) cleaning of relay & metering board double front type of size

17000*850*2000mm from outside

14) cleaning of cct mcc 415 volt 3 phase single front type of size 1500*500*2000mm from outside and cable chamber to remove dust and dirt accumulation.

15) main exciter and diode wheel cleaning after removal of exciter covers. cleaning of rotor shaft grounding brush gear and rotor earth fault system. inspection, cleaning and connection tightness of the same. checking of various electrical connection of lavt & ngt panel, pt primary & secondary fuse checking and replacement of the same if required. checking of tightness of generator 11 kv terminal and cleaning of bushing, terminal box compartment, seal of bushing etc. checking tightness of bus duct joints at various points.

16) maintenance of 6.6 kv 500kw ht motor. scope of work includes cleaning of all cooling holes. checking of tightness of power cables, foundation bolts and earthing connections. checking of oil leakage from bearing hose pipe and rectification of the same.

17) maintenance of 3 phase squirrel cage induction motor including ,cleaning & tightening of motor terminals of all three phases, motor fan & fan cover opening & cleaning, checking, greasing through greasing nipples, checking and tightening of motor earthing, checking of cable sealing, checking for terminals for any heating and replacement of thimbles if required.

18) maintenance of 3 phase squirrel cage induction motor including ,cleaning & tightening of motor terminals of all three phases, motor fan & fan cover opening & cleaning, checking, greasing through greasing nipples, checking and tightening of motor earthing, checking of cable sealing, checking for terminals for any heating and replacement of thimbles if required.

19) maintenance of 3 phase squirrel cage induction motor including ,cleaning & tightening of motor terminals of all three phases, motor fan & fan cover opening & cleaning, checking, greasing through greasing

nipples, checking and tightening of motor earthing, checking of cable sealing, checking for terminals for any heating and replacement of thimbles if required. 20) the scope of work includes dismantling of damaged motor from its

foundation by disconnection of power cables, space heater cable and earthing, foundation bolt etc. shifting of damaged motor at desired place as directed by engineer-in-charge inside gtps. shifting of healthy motor from gtps store to foundation and tightening of foundation bolt and connection of power cables, space heater cable and earthing etc.

21) the scope of work includes dismantling of damaged motor from its foundation by disconnection of power cables, space heater cable and earthing, foundation bolt etc. shifting of damaged motor at desired place as directed by engineer-in-charge inside gtps. shifting of healthy motor from gtps store to foundation and tightening of foundation bolt and connection of power cables, space heater cable and earthing etc.

22) the scope of work includes dismantling of damaged motor from its foundation by disconnection of power cables, space heater cable and earthing, foundation bolt etc. shifting of damaged motor at desired place as directed by engineer-in-charge inside gtps. Shifting of healthy motor from GTPS store to foundation and tightening of foundation bolt and connection of power cables, space heater cable and earthing etc.

23) assistance in rectification of fault inside breaker. the scope of work includes replacement of any of the damaged fuse, power auxiliary

contactors, overload relays, switch fuse unit male-female contacts selector switch etc. replacement of burnt control wiring as required. thimbling of the power cable for all three phases.

24) assistance in rectification of fault inside breaker. the scope of work includes replacement of any of the damaged fuse, power auxiliary

contactors, overload relays, switch fuse unit male-female contacts selector switch etc. replacement of burnt control wiring as required. thimbling of the power cable for all three phases.

25) assistance in rectification of fault inside breaker. the scope of work includes replacement of any of the damaged fuse, power auxiliary

contactors, overload relays, switch fuse unit male-female contacts selector switch etc. replacement of burnt control wiring as required. thimbling of the power cable for all three phases.

26) the scope of work includes cleaning of fitting, jib and control gear box. detection and rectification of fault. replacement of damaged wiring, fused lamp, ignitor, miniature circuit breaker and holder as

27) the scope of work includes cleaning of fitting. detection and rectification of fault. replacement of damaged wiring, fused tube starter, miniature circuit breaker and holder as required to make fitting glow. returning of scrap to scrap store.

28) the scope of work includes shifting of light fitting at desired place. wiring of same and connection to all fittings along with miniature circuit breaker and dismantling the fitting after completion of the job and shifting of the same at desired place.

29) SCOPE OF WORK FOR PAINTING OF ELECTRICAL EQUIPMENTS:

Removing the dirt and dust from specified equipment by using washing powder/detergent and cloth properly. Removing the rusting wherever required by using emery paper/wire brush etc. Removing the old loose paint properly by using scraper/emery paper/cloth etc. Making the surface suitable for painting by grinding, scraping and cleaning properly. Paint shall be provided by IPGCL. Consumable such as emery paper, detergent, old dhoti, wire brush, paint brush etc. and all required Tool & Tackles shall be arranged and provided by the party without any extra charge.

Note: All the spares required completing above job shall be provided by IPGCL. However manpower and P shall be provided by contractor to complete the job as required.

Special Terms & Conditions:

1. The contractor shall provide experienced personal to carry out routine/breakdown maintenance works. The qualification/experience for those shall be as under:-
 - a) Supervisor: Shall possess Diploma in Electrical Engg. with 3 years experience in the similar field of power station or Degree in Electrical Engg. with one year experience in the similar field of power station.
 - b) Electric fitter: ITI (in electrical trade) with 2 years experience in power station.
 - C) Unskilled /Mazdoor: 8th pass with one year experience in the similar field of power station.
2. Contractor shall ensure all safety measures during work and shall be solely responsible for the safety and insurance of their employee. All required safety equipments like helmet, Hand gloves, safety shoes ,insulated tools & tackles etc. shall be provided by the contractor to their employee
3. The bidder should have registration with statutory authorities and possess valid certificate of EPF, ESI, and Electrical Contractor License. He shall furnish copy of acknowledgement of latest Income Tax Return with copies of statutory registration.
4. The contract shall be awarded based on overall least quoted basis to one vendor.
5. Payment will be made to contractor on monthly basis based on job/work completed during previous month after submitting of bill.
6. Work to be started only after taking the permit to work/written communication by IPGCL Engineer #in- charge or site Engineer.
7. Third Party Insurance: Third Party Insurance to the extent of 2.0 lac shall be arranged by the contractor and hold IPGCL harmless from liabilities, whatsoever on this account.
8. Safety code : Contractor shall ensure that safety rules are observed to avoid any accident which may cause loss of life or damage to vendor's / IPGCL's staff and property. Contractor shall be fully responsible in any way for injury, disablement, accident to any workman on this account. IPGCL will not be responsible to pay any damages to the workers of contractor and will be free from any legal binding in this regard. The violation of safety norms by contractor shall attract a penalty of @ 1% of ordered value ' per instant' limited to maximum of 5% of the ordered value.
9. The Contractor shall comply / obey all the labour laws governing the workman engaged by them, directly or through sub contractor and implement the provision of factories act, compensation act, and other acts / rules and regulations framed there under and also provision of any other act as may be applicable for operation or carrying out the contract.
10. Contract Period: Contract shall be valid for twelve months from date of award of contract.
However the completion time for each PR item is as under:
Item no [10]-- 2 days
Item no [20]-- 4 days
Item no [30]-- 1 day
Item no [40]-- 2 days
Item no [50-230]-- 1 day Item no [240-250]-- 2 days
Item no [260-350]-- 1 day
Item no [360]-- 2hours
Item no [370]-- 1 hour
Item no [380]-- 1 day
11. Following will be supplied by IPGCL free of cost:
Providing electricity and water and compressed air.
12. Any worker below the age of 18 years & lady workers from <(>,, <>>18.00 hrs to 8.00 hrs are not allowed.
13. The vender shall report within specified period in specification sheet on the job on telephonic / verbal / written information from IPGCL and work should be completed in period given in specification sheet. In

case of delay in execution, the penalty @ 5% value of that individual item shall be levied for each day of delay. Also for item which having completion period on hourly basis, the penalty @ of 1% per hour will be levied. For both the above, the maximum penalty shall be limited to 50% of ordered value of that particular job.

14. The vendor may have to provide One skilled and one number of Helper in night shift on daily basis to meet out any emergency.

15. The vendor shall arrange all T<(><<>(>&<(><<>)>P required to complete the particular job.

16. Vendor shall also arrange the consumables like cloth and PVC tapes as per requirement

17. Contract period shall be valid for one year from the date of start of contract.

18. Contractor should have a valid Electrical contractor license.

Remarks :

All other Terms & Conditions as per IPGCL NIT(Attached).

Annexure :

Detailed specifications

| Item no: 10 | | ARC of electrical system of GTPS | |
|-------------|--------------|--------------------------------------|--|
| S.NO | Service Code | Service description | Detailed Description |
| 10 | EL12002474C | Mtc of Generator transformer | 43MVA ,66/11KV generator transformer:Cleaning of dust and dirt accumulation on HV and LV bushing,Lightening arrester,oil accumulation on transformer tank, LV bushing chamber, marshelling box,on load tap changer control panel etc.Checking of silica gel and oil level in the cup in dehydrating breather of Conservator tank and OLTCand top up if found low.Clean air passage.Checking of tightness of all cable termination inside marshelling box and OLTC control panel and greasing of the operating mechanism. checking of looseness o |
| 20 | EL12002475C | Dehydration of generator transformer | 43MVA ,66/11KV generator transformer:Shifting of transformer dehydration machine to the desired Generator transformer.Laying and connection of power cable to the machine.Connection of inlet and outlet hosepipe to the transformer from the filtration machine.Filtration of transformer oil and OLTC oil till the oil test result found satisfactory.After completing oil filtration of transformer, disconnection of power cables and hopse pipes and stacking of the same properly at desired place.Also shifting of dehydration machine a |
| 30 | EL12002476C | Mtc of Auxiliary transformer | Upto 7.5MVA transformer:Cleaning of dust and dirt accumulation on HV and LV bushing,Lightening arrester,oil accumulation on transformer tank, LV bushing chamber, marshelling box,on load tap changer control panel etc.Checking of silica gel and oil level in the cup in dehydrating breather of Conservator tank and OLTCand top up if found low.Clean air passage.Checking of tightness of all cable termination inside marshelling box and OLTC control panel and greasing of the operating mechanism. checking of looseness of LV, HV bush |
| 40 | EL12002477C | Dehydration of Auxiliary transformer | Upto 7.5MVA Transformer:Shifting of transformer dehydration machine to the desired Generator transformer.Laying and connection of power cable to the machine.Connection of inlet and outlet hosepipe to the transformer from the filtration machine.Filtration of transformer oil and OLTC oil till the oil test result found satisfactory.After completing oil filtration of transformer, disconnection of power cables and hopse pipes and stacking of the same properly at desired place.Also shifting of dehydration machine as directed by |
| 50 | EL12002482C | cleaning of boiler board MCC | Cleaning of boiler board MCC 415 Volt 3 |

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|-----|-------------|---------------------------------------|--|
| | | | phase double front type of size 14620*1000*2340mm from outside and cable chamber to remove dust and dirt accumulation. |
| 60 | EL12002483C | cleaning of Turbine board MCC | Cleaning of Turbine board MCC 415 Volt 3 phase double front type of size 11220*1000*2340mm from outside and cable chamber to remove dust and dirt accumulation. |
| 70 | EL12002484C | cleaning of Emergency board MCC | Cleaning of Emergency board MCC 415 Volt 3 phase double front type of size 3420*1000*2340mm from outside and cable chamber to remove dust and dirt accumulation. |
| 80 | EL12002485C | cleaning of OLU unit MCC | Cleaning of OLU unit MCC 415 Volt 3 phase double front type of size 8700*1000*2340mm from outside and cable chamber to remove dust and dirt accumulation. |
| 90 | EL12002486C | cleaning of 125V DCDB MCC | Cleaning of 125V DCDB MCC double front type of size 3240*1000*2340mm from outside and cable chamber to remove dust and dirt accumulation. |
| 100 | EL12002487C | cleaning of 6.6KV MCC Board | Cleaning of 6.6KV MCC 3 phase double front type of size 15000*2000*2500mm from outside |
| 110 | EL12002488C | cleaning 11 KV SA1 Board | Cleaning of 11KV SA1 board 3 phase double front type of size 5600*1600*1600mm from outside |
| 120 | EL12002489C | cleaning SA2 Board | Cleaning of 415V 3 phase SA2 board double front type of size 8000*1000*2500mm from outside |
| 130 | EL12002490C | cleaning Relay & Metering Board | Cleaning of Relay & metering board double front type of size 17000*850*2000mm from outside |
| 140 | EL12002491C | cleaning CCT MCC Board | Cleaning of CCT MCC 415 Volt 3 phase single front type of size 1500*500*2000mm from outside and cable chamber to remove dust and dirt accumulation. |
| 150 | EL12002492C | Mtc of Generator auxiliary equipments | Main exiter and diode wheel cleaning after removal of exiter covers. Cleaning of rotor shaft grounding brush gear and rotor earth fault system. Inspection, cleaning and connection tightness of the same. Checking of various electrical connection of LAVT & NGT panel, PT primary & secondary fuse checking and replacement of the same if required. Checking of tightness of generator 11 KV terminal and cleaning of Bushing, Terminal box compartment, seal of bushing etc. Checking tightness of bus duct joints at various points. |
| 160 | EL12002493C | Mtc of HT motor | Maintenance of 6.6 KV 500KW HT motor. Scope of work includes cleaning of all cooling holes. Checking of tightness of power cables, foundation bolts and earthing connections. Checking of oil leakage from bearing hose pipe and rectification of the same. |
| 170 | EL12002494C | Mtc of LT motor upto 3.7KW | MAINTENANCE OF 3 PHASE SQUIRREL |

| | | | |
|-----|-------------|----------------------------------|---|
| | | | CAGE INDUCTION MOTOR INCLUDING,CLEANING & TIGHTENING OF MOTOR TERMINALS OF ALL THREE PHASES,MOTOR FAN & FAN COVER OPENING & CLEANING,CHECKING,GREASING THROUGH GREASING NIPPLES, CHECKING AND TIGHTENING OF MOTOR EARTHING,CHECKING OF CABLE SEALING,CHECKING FOR TERMINALS FOR ANY HEATING and replacement of thimbles if required. |
| 180 | EL12002495C | Mtc of LT motor from 5-30KW | MAINTENANCE OF 3 PHASE SQUIRREL CAGE INDUCTION MOTOR INCLUDING,CLEANING & TIGHTENING OF MOTOR TERMINALS OF ALL THREE PHASES,MOTOR FAN & FAN COVER OPENING & CLEANING,CHECKING,GREASING THROUGH GREASING NIPPLES, CHECKING AND TIGHTENING OF MOTOR EARTHING,CHECKING OF CABLE SEALING,CHECKING FOR TERMINALS FOR ANY HEATING and replacement of thimbles if required. |
| 190 | EL12002496C | Mtc of LT motor from 45-110KW | MAINTENANCE OF 3 PHASE SQUIRREL CAGE INDUCTION MOTOR INCLUDING,CLEANING & TIGHTENING OF MOTOR TERMINALS OF ALL THREE PHASES,MOTOR FAN & FAN COVER OPENING & CLEANING,CHECKING,GREASING THROUGH GREASING NIPPLES, CHECKING AND TIGHTENING OF MOTOR EARTHING,CHECKING OF CABLE SEALING,CHECKING FOR TERMINALS FOR ANY HEATING and replacement of thimbles if required. |
| 200 | EL12002503C | Replacement of motors upto 3.7KW | The scope of work includes dismantalling of damaged motor from its foundation by disconnection of power cables, space heater cable and earthing, foundation bolt etc.Shifthing of damage motor at dfesired place as directed by engineer-in-charge inside GTPS.Shifting of healthy motor from GTPS store to foundation and tightening of foundation bolt and connection of power cables, space heater cable and earthing etc. |
| 210 | EL12002504C | Replacement of motors 5-30KW | The scope of work includes dismantalling of damaged motor from its foundation by disconnection of power cables, space heater cable and earthing, foundation bolt etc.Shifthing of damage motor at dfesired place as directed by engineer-in-charge inside GTPS.Shifting of healthy motor from GTPS store to foundation and tightening of foundation bolt and connection of power cables, space heater cable and earthing etc. |
| 220 | EL12002505C | Replacement of motors 45-110 KW | The scope of work includes dismantalling of damaged motor from its foundation by |

| | | | |
|-----|-------------|--------------------------------------|--|
| | | | disconnection of power cables, space heater cable and earthing, foundation bolt etc. Shifting of damage motor at desired place as directed by engineer-in-charge inside GTPS. Shifting of healthy motor from GTPS store to foundation and tightening of foundation bolt and connection of power cables, space heater cable and earthing etc. |
| 230 | EL12002506C | Beakdown Mtc of breaker upto 3.7KW | Assistance in rectification of fault inside breaker. The scope of work includes replacement of any of the damaged fuse, power & auxiliary contactors, Overload relays, switch fuse unit male-female contacts, selector switch etc. Replacement of burnt control wiring as required. Thimbling of the power cable for all three phases. |
| 240 | EL12002507C | Beakdown Mtc of breaker 5-30KW | Assistance in rectification of fault inside breaker. The scope of work includes replacement of any of the damaged fuse, power & auxiliary contactors, Overload relays, switch fuse unit male-female contacts, selector switch etc. Replacement of burnt control wiring as required. Thimbling of the power cable for all three phases. |
| 250 | EL12002508C | Beakdown Mtc of breaker 45-110KW | Assistance in rectification of fault inside breaker. The scope of work includes replacement of any of the damaged fuse, power & auxiliary contactors, Overload relays, switch fuse unit male-female contacts, selector switch etc. Replacement of burnt control wiring as required. Thimbling of the power cable for all three phases. |
| 260 | EL12002509C | Mtc of High Pr. Vapor light fittings | The scope of work includes cleaning of fitting, JB and control gear box. Detection and rectification of fault. Replacement of damaged wiring, fused lamp, ignitor, Miniature circuit breaker and holder as required to make fitting glow. Returning of scrap to scrap store. |
| 270 | EL12002510C | Mtc of flourscent light fitting | The scope of work includes cleaning of fitting. Detection and rectification of fault. Replacement of damaged wiring, fused tube, starter, Miniature circuit breaker and holder as required to make fitting glow. Returning of scrap to scrap store. |
| 280 | EL12002511C | Installation of temporary light | The scope of work includes shifting of light fitting at desired place. Wiring of same and connection to all fittings along with Miniature circuit breaker and dismantling the fitting after completion of the job and shifting of the same at desired place. |
| 290 | EL12001100S | Electrical fitter | Electrical fitter |
| 300 | EL12001101S | Semi skilled/helper | Semi skilled/helper |
| 310 | EL12001102S | Unskilled/ Mazdoor | Unskilled/ Mazdoor |
| 320 | EL12001884C | Painting of electrical equipments | Painting of electrical equipments, As per scope of work |