



(A Government of India Undertaking)

Financial BID

Offer document for

Replacement and shifting of LT panels, installing Rising Mains and other connected electrical works at Chennai Circle office at 524, Anna Salai, Teynampet, Chennai 600 018

Issued by:

The Divisional Manager  
Premises & Estate Section,  
Circle Office, Chennai  
Ph: 044 24326011, 24349350  
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**<Replacement and shifting of LT panels, installing Rising Mains and other connected electrical works at Chennai circle office at 524, Anna Salai, Teynampet, Chennai 600018**

PROFORMA - F

(Submit this financial bid strictly as per this prescribed format as downloaded / as issued in a SEPERATE sealed envelope - second envelope)

**“FINANCIAL BID - FEE STRUCTURE”**

To,  
The Divisional Manager  
Premises & Estate Section  
Canara Bank Circle Office  
#524, Anna Salai  
Teynampet, Chennai - 600 018

**Name of work: Replacement and shifting of LT panels, installation of Rising mains and other connected electrical works at Chennai circle office at 524, Anna Salai, Teynampet, Chennai 600018**

This is with reference to your Notice Inviting offers for selection of Contractor for the above mentioned works project.

I/We have read and understood the Notice inviting offer (NIO) and its contents. I/We also understand that Bank reserves its right to accept or reject any or all the offers partially or wholly.

I/We are fully qualified to take up the contract for the said work and agree with all the contents of this NIO ie Eligibility Criteria, brief details of work, General rules& instructions to the applicants , Method of selection of Consultant, Conditions of the contract . Accordingly, we are agreeable to extend our services for the subject work as per the terms & conditions of this NIO on the following fees:

1. **The total contract value (including buyback of existing panels) as per Clause 5 of the “Conditions of Contract” :**

Fee in figures: Rs. \_\_\_\_\_/-

& in words: Rupees \_\_\_\_\_ Only

The above value is ***inclusive of Goods & Services tax.***

I/We agree that the TDS as payable to statutory authorities will be deducted from the above quoted fees.

I/We fully understand that you are not bound to accept the lowest or any offer you may receive. The item wise rats are as per the enclosed BOQ

Date:

Place: Signature & seal of the Contractor



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**Schedule of Quantities:-**

Sr No	Description	Qty	Unit	Supply Rate	Amount	Installation Rate	Amount	Total Amount
1	<b>SITC of LT panels:-</b>							
1.1	<p><b>Main MV Panel:</b>                      SITC of floor mounting free standing cubicle type switch board fabricated out of 16 SWG CRCA for main body and 14 SWG for gland plates and powder coated to Siemens grey shade after undergoing 7-tank treatment.                      Bus bar chamber consisting of TP and N bus bars rated 800 A made of electrolytic quality aluminium supported on SMC.                      2 nos incomer feeders ( One from EB and one from DG source ) each fitted with following                      1 no 1250A 4P, 50 ka motor operated draw out ACB with built in microprocessor based overload, short circuit and earth fault releases and shunt trip coil rated 230VAC                      LED type RYB indication lamps with MCB protection                      LED indication lamps for ACB ON/OFF/TRIP/spring charged indications controlled by MCB                      1 no microprocessor based multi-function meter                      3 nos resin cast copper wound CTs of ratio 800/5A class-1, 10 Va for metering                      1 no 800/5A class-1 10 VA copper wound resin cast CT for APFC sensing to be fixed in the Y phase                      1 set SPD type 1+2 protected with HRC fuses.                      2 no 630A, 1 no 250A, 2 no 125A, 1 no 160A and 3 no 400A TP MCCB, 50 Ka as outgoing feeders.</p> <p>The panel shall confirm to technical specifications.                      MCCBs shall be fitted with thermal and magnetic releases. All MCCBs and ACBs shall have front operating handle. All</p>	1	No					



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	<p>mounted components shall be earthed with suitable copper wire and connected to panel earth bus An earth bus of size 25x6mm aluminium shall run at the bottom chamber of the panel with provisions of connecting external earth strip at both ends. Both incomers shall be electrically interlocked to avoid parallel operation</p>								
1.2	<p><b>SSB- Basement</b></p> <p>SITC of wall mounting free standing cubicle type switch board fabricated out of 16 SWG CRCA for main body and 14 SWG for gland plates and powder coated to Siemens grey shade after undergoing 7-tank treatment. Bus bar chamber consisting of TP and N bus bars rated 250 A made of electrolytic quality aluminium supported on SMC supports.The fault level shall be 25 Ka for one second. The current density to be taken as 0.8A/mm<sup>2</sup> 1 no 250A TP, 25 ka MCCB with built in thermal overload and magnetic short circuit releases LED type RYB indication lamps with MCB protection 1 no electronic voltmeter 1 no electronic ammeter 3 nos resin cast copper wound CTs of ratio 125/5A class-1, 10 Va Earth bus 25x3mm aluminium at the bottom of the panel 2 nos 125A and 4 nos 63A TP MCCB, 25 KA as outgoing feeders All MCCBs shall have front operating handle. All mounted components shall be earthed with suitable copper wire and connected to panel earth bus</p>	1	No						



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1.3	<p><b>APFC panel</b> Supply, unloading, installation, testing and commissioning of floor mounting cubicle type LT switch board fabricated out of 16 Swg CRCA and powder coated to Siemens grey shade. The panel will be equipped with following. Bus bar chamber consisting of TP and N bus bars rated 400A made of electrolytic quality aluminium supported on SMC supports. The incomer shall be 400A TP MCCB, 25 ka with thermal over load and magnetic short circuit relays The capacitor bank shall be 5+10+15+20+25+25+25+25 ( 150 KVAR ) MPPH capacitors along with 7% tuned reactors controlled by MCBs and adequate rating air break capacitor duty Contactors and with LED type on/off lamps. , control fuses and auxiliary relays. The APFC relay shall be 8-stage microprocessor controlled type There shall be an earth bus at the bottom of the panel made of 25x6mm aluminium with provision to connect to external earth bus. All the MCCBs, MCBs and other component frames shall be double earthed with suitable size copper conductor and connected to this earth bus The cable entry shall be from bottom. A detachable cable gland plate shall be provided at the bottom of the panel. The panel shall conform to technical specifications</p>	1	Set						
2	<p><b>MCB Distribution Boards:-</b></p>								
2.1	<p><b>Pump DB</b> Supply and installation of 4-way TPN vertical MCB DB with double door conforming to IP-42 and fitted with following. The DB shall be complete with 200A copper bus bars, neutral and earth links and completely wired. The DB shall be <b>manufacturers factory built.</b> 1 no 125A TPN MCCB, 25 Ka with built in thermal and magnetic short circuit releases and front operating</p>	1	No						



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	handle as incomer 1 no 25A, 1 no 20A and 2 no 16A TP MCB, 10 Ka as outgoing feeders							
3	<b>Supply and laying of 1.1 KV grade aluminium armoured power cables to be laid in built-in trenches, buried in ground:-</b>							
3.1	3.5x400 Sqmm from DG set to MV panel	190	Mt					
3.2	3.5x400 Sqmm from Transformer to MV panel	180	Mt					
3.3	3.5x300 Sqmm from MV panel to RM-1&2	30	Mt					
3.4	3.5x150 Sqmm from MV panel to SSB-Basement	35	Mt					
3.5	3.5x70 Sqmm from MV panel to pump DB	25	Mt					
3.6	3.5x185 Sqmm from MV panel to APFC panel	25	Mt					
3.7	Removal and relaying of 1.1 KV grade aluminium armoured power cables							
3.8	3.5x240 Sqmm from MV panel to RM-3&4	150	Mt					
3.9	3.5x120 Sqmm from Lift panel to MV panel	35	Mt					
3.10	6x2.5 Sqmm copper armoured from MV panel to DG set for sensing of EB voltage and power supply for lighting of DG enclosure	95	Mt					
4	<b>Termination of power cables using SIBG glands and copper crimping sockets including earthing of cable glands:</b>							
4.1	3.5x400 Sqmm	8	No					
4.2	3.5x300 Sqmm	4	No					
4.3	3.5x70 Sqmm	4	No					
4.4	3.5x150 Sqmm	2	No					
4.5	3.5x185 Sqmm	2	No					
4.6	3.5x240Sqmm	2	No					
4.7	6x2.5 Sqmm	2	No					
5	<b>Earthing:-</b>							
5.1	Supply and installation of 17.2mm dia 2 Mt long low carbon steel earth electrode bonded with 250 micron copper with GI clamp to be installed in a suitable bore and filled with 50 Lbs of carbon bond environment friendly back filling	6	No					
5.2	Supply and installation of 25x6mm copper strip for earthing Main MV panel, APFC panel and rising mains RM-1&2	50	Mt					
5.3	Supply and installation of 25x3mm copper strip for running earth along	75	Mt					



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	Rising mains RM-1&2 One run for each rising main and earthing of SSB-basement							
5.4	Supply and laying of 10 SWG copper wire to run along with cables for earthing of DB-pump	15	Mt					
<b>6</b>	<b>Overhead Cable Tray:-</b>							
6.1	Supply and installation of overhead hot dip galvanized perforated cable tray including fixing hardware							
6.2	600mm wide 50mm high	70	Mt					
<b>7</b>	<b>Statutory requirements</b>							
7.1	Preparation of as- built drawing, getting drawing approval and conducting inspection by CEA and getting safety certificate	1	Job					
7.2	Supply and installation of 1000mm wide, 2000mm length, 2mm thick PVC mat with 10 KV proof and 305 KV dielectric as per IS-15652-2006 for laying in front of LT panels	2	No					
7.3	Supply and installation of 2.5 KG capacity dry powder type fire extinguisher for sub station	1	No					
7.4	Shock treatment chart framed and mounted on wall	1	No					
7.5	Danger board of standard size to be fixed LT equipment	5	No					
<b>8</b>	<b>Civil works</b>							
8.1	Supply and laying of 300mm dia spun pipe with collar etc including excavation of trench, back filling and other connected jobs	75	Mt					
8.2	Providing inspection chamber 600x600mm size made of brick work with cement plastering inside and outside and with RCC cover 600x600mm 10mm thick	6	No					
<b>9</b>	<b>Rising mains</b>							
9.1	Supply, installation, testing and commissioning of vertical rising mains sandwich type with aluminium bus bars rated 630A complete with vertical wall mounting clamps and other accessories. The same shall conform technical specifications							
9.1.1	Rising main-1 ( Straight length )	18.5	Mt					



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9.1.2	Rising main-2 ( Straight length )	18.5	Mt					
9.2	Supply, installation, testing and commissioning of tap off boxes fitted with MCB							
9.2.1	With 125A TP MCB, 25 Ka	6	No					
9.2.2	With 63A TP MCB	6	No					
9.3	End feed box with 630A TP MCB, 25 Ka with wall supporting arrangement	2	No					
10	Making temporary arrangement for giving supply to floor after disconnection of existing incomer supply from transformer and DG set to Main MV panel in basement by making a loop cabling from new MV panel to existing MV panel with the available cable	1	Lot					
11	Providing and fixing lightning conductor Finial made of 25mm dia 300mm long GI tube , having single prong at top with 85mm dia 6mm thick GI base plate including holes etc complete as required	2	No					
12	Providing and fixing GI tape 20mm x 3mm thick on parapet or on surface of wall for lightning conductor complete as required (Horizontal run )	35	Mt					
13	Providing and fixing GI tape 20mm x 3mm thick on parapet or on surface of wall for lightning conductor complete as required (Verticalrun )	150	Mt					
14	Providing and fixing testing joint made of 20mmx3mm thick GI strip 125mm long with 4 nos GI bolts, nuts, chuck nuts and spring washers etc complete as required	3	No					
<b>Total Value of Works</b>								
15	Value of buy back for existing panels in the basement as is where is condition ( Contractor has to inspect before quoting this item )	1	Lot					
<b>Final value after deducting buy back items</b>								

**Note:-** The rates quoted should be *including GST* charges as applicable.

