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**चेन्नै पत्तन प्राधिकरण  
CHENNAI PORT AUTHORITY**

प्रशासनिक कार्यालय :  
ADMINISTRATIVE OFFICE :

नं.1, राजाजी सालै चेन्नै - 600 001.  
No.1, Rajaji Salai, Chennai - 600 001.  
Website : [www.chennaiport.gov.in](http://www.chennaiport.gov.in)

MEE/EC2/021/20212/DY.CME(MP&OH)/THC

DT. 07.06.2022.

From

The Chief Mechanical Engineer,  
Chennai Port Authority.

To

The firms.

Sir,

Sub: BUDGETARY OFFER – Budgetary offer for revamping of electrical systems in 810 residential housing units of 'A', 'B' & 'C' type quarters at Tondiarpet Housing Colony – Requested - Reg.

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The Chennai Port Authority is interested in obtaining budgetary offer for revamping of electrical systems in 810 residential housing units of 'A', 'B' & 'C' type quarters at Tondiarpet Housing Colony.

Hence, it is requested to furnish the budgetary offer for the same with all your terms and conditions to this office on or before **22.06.2022**. The Schedule 'A' (Technical Specification) and Schedule 'A1' are enclosed herewith and the documents can also be downloaded from the Trust's website [www.chennaiport.gov.in](http://www.chennaiport.gov.in)

If any clarification in this regard, the firm can contact the following address:

Asst. Manager (Elect.) T.H.Colony.  
Contact No. 9144 2591 4509  
Chennai Port Authority  
Old Administrative Annex Building  
1<sup>st</sup> floor, Dy.CME(W) office.  
No.1, Rajaji Salai, Chennai-600001

Superintending Engineer (M)MP&PL/THC  
for CHIEF MECHANICAL ENGINEER.

Encl. As above.

**Budgetary offer for revamping of electrical systems in 810 residential housing units of 'A', 'B' and 'C' type quarters at Tondiarpet Housing colony, Chennai Port Authority.**

**TECHNICAL SPECIFICATION**

**SCHEDULE-A**

**1. General**

Chennai Port Authority proposes to carry out the revamping of electrical systems in 810 residential housing units of 'A', 'B' and 'C' type quarters at T.H.Colony

**2. Scope of the work as follows:**

Supply and installation of materials including wiring, accessories, light fittings, fans, digital energy meter, calling bell and distribution boxes, testing, commissioning and guaranteeing the performance of the electrification works in 810 Residential Quarters and proper earthing should be made in 75 housing blocks at Tondiarpet Housing Colony, Chennai Port Authority as specified in Schedule 'A1'.

**3. Detailed Specification as follows:**

**i) FRP / SMC Main Distribution Box at Each Residential Building Block :**

The FRP / SMC main power distribution box shall be suitable size comprising of 2 / 4 / 6 Nos. 63 Amps 4 Pole MCBs, 6 / 12 / 18 way 32 Amps 2 Pole MCBs.

**ii) Main Meter Wooden Board :**

The Main meter board shall be suitable size comprising of 5-30 Amps single phase digital energy meter, 32 Amps porcelain fuse carrier set and earth link.

**iii) Steel Distribution Box :**

The steel distribution box as per BIS IS-5133-1:1960 (or) 1966 shall be of suitable size comprising of

- a. 1 No. 32 Amps 2 Pole MCB, 1 No. 16 Amps Single Pole MCB, 2 Nos. 10 Amps single pole MCBs for 'A' type quarters.

- b. 1 No. 32 Amps 2 Pole MCB, 1 No. 16 Amps Single Pole MCB, 3 No. 10 Amps single pole MCBs for 'B' type quarters.
- c. 1 No. 32 Amps 2 Pole MCB, 1 No. 16 Amps Single Pole MCB, 4 Nos. 10 Amps single pole MCBs for 'C' type quarters.

**iv) Wiring Details :**

Supply of all materials and accessories to carry out the surface conduit wiring by using suitable size of PVC pipe with 2 runs of 1.5 sq.mm PVC insulated unsheathed copper conductor wires for fans, tube lights, holders, etc. through connected junction boxes along with modular flush type switch, ceiling rose including terminations in a suitable open type modular switch boxes.

Supply of all materials and accessories to carryout the surface conduit wiring by using suitable size of PVC pipe with 2 runs of 2.5 sq.mm. and one run of 1.5 sq.mm. for earth PVC insulated unsheathed copper conductor cables from Distribution box to all open type modular switch boxes.

Supply of all materials and accessories to carry out the surface conduit wiring by using suitable size of PVC pipe with 2 runs of 4.0 sq.mm. and one run of 2.5 sq.mm. PVC insulated unsheathed copper wire from Main Distribution box to Meter Board, Meter Board to Distribution box and Distribution box to power points.

Supply and installation of single LED tube light retro fitting 18 watts suitable for 220 V, operation.

Supply and installation of 1200 mm energy saving star rated ceiling fan suitable for 220 V operation with ISI mark.

Supply and installation of calling bell suitable for 220 V operation.

Supply and installation of all materials and accessories of 5 Amps and 15 Amps switch and socket outlet to be mounted in the modular sub-switch box.

**v) Make of the Materials Preferred :**

<b>Sl. No.</b>	<b>Item</b>	<b>Name of Manufacturers</b>
1.	MCB	LEGRAND / STANDARD/ HAVELLS / ANCHOR / L&T or substantially equivalent.
2.	Main Distribution Box and Distribution Box	LEGRAND / STANDARD / HAVELLS / ANCHOR / L&T or substantially equivalent.
3.	PVC insulated unsheathed copper conductor cables	HAVELLS / FINOLEX / RPG / ORBIT / KUNDAN or substantially equivalent.
4.	Modular Switches, Socket outlets and Switch boxes	ANCHOR ROMA / GM / LEGRAND / HAVELLS /SIMON or substantially equivalent.
5.	LED Tube light retro fittings with LED Tube light 18 /20 watts	PHILIPS / WIPRO / BAJAJI / CROMPTON / HOLONIX or substantially equivalent.
6.	Energy Saving Ceiling Fans 1200 mm	HAVELLS / CROMPTON GREAVES / USHA / BAJAJ or substantially equivalent.
7.	Digital Energy Meter. Single Phase, 0-30 Amps	L&T / HPL / SECURE / TECHNO or substantially equivalent.
8.	Calling Bell	PHILIPS / HAVELLES / ANCHOR ROMA / GM or substantially equivalent.

- vi)** Removing of old and unserviceable wires, ceiling fans, tube light fittings, switch boards, sockets, ceiling roses, holders and cables from residential quarters and handed over to 11 KV Sub-station in T.H.Colony.

**4. General Terms and Conditions :**

1. The Tenderer is requested to quote the rate in schedule-A1.
2. The quantities mentioned are indicative.
3. The measurement & payment will be made as per actual.
4. GST registration shall be provided.
5. The Contractor has to comply with the ESI and EPF act.
6. The entire work shall be completed within **180** days from the date of receipt of order.
8. The technical specification is given in Schedule-‘A’ and Price Schedule-A1.

9. Necessary precautions shall be taken by the contractor or his labours while working near the road, power supply, cable etc.,
10. The Chennai Port Authority shall not be responsible for any damage or loss of any of the firms, Men and Materials and for any damaged/accident to the firms personnel.
11. Power supply will be provided at free of cost by the Port, however the contractor shall make his own arrangement to take power supply from the nearest source of supply.
12. The firm may inspect the site before quoting the price if any clarification about the work. Contractor may contact clarification, if any the firm contract "SE(MP&PL)/THC, 1<sup>st</sup> floor, The Old administrative office, Annexure Block, Chennai Port Authority.

Dy.CME(MP&OH) / THC  
CHENNAI PORT AUTHORITY



Sl. No.	Description	Unit	Qty	Rate / Unit Rs.	Total Amount Rs.
	<p>meter, 32 Amps porcelain fuse carrier set and earth link to each housing units.</p> <p>Main wooden meter board to be fixed at outside of the housing unit.</p> <p>b) Installation of 2(a)</p>				
3.	<p>a) Supply of Steel Distribution Box as per BIS IS-5133-1:1969(OR)1966 with suitable size comprising of</p> <p>a) 1 No. 32 Amps 2 Pole MCB, 1 No. 16 Amps Single Pole MCB and 2 Nos. 10 Amps single pole MCBs for "A" type quarters.</p> <p>b) 1 No. 32 Amps 2 Pole MCB, 1 No. 16 Amps Single Pole MCB and 3 No. 10 Amps single pole MCBs for "B" type quarters.</p> <p>c) 1 No. 32 Amps 2 Pole MCB, 1 No. 16 Amps Single Pole MCB and 4 No. 10 Amps single pole MCBs for "C" type quarters.</p> <p>b) Installation of 3(a)</p>	<p>No.</p> <p>No.</p> <p>No.</p>	<p>412</p> <p>260</p> <p>138</p>		
4.	<p>a) Supply of all materials and accessories to carry out the surface conduit wiring by using suitable size of PVC pipe with 2 run of 4 Sq.mm. and one run of 2.5 Sq.mm. for earth PVC insulated unsheathed copper conductor cables from 32 Amps 2 pole MCBs in main distribution box to main meter board.</p> <p><b>4.0 Sq.mm. Wire in Mtrs.:</b></p> <p>a) 'A' Type Quarters – 5800 Mtr.</p> <p>b) 'B' Type Quarters – 2500 Mtr.</p> <p>c) 'C' Type Quarters – 2000 Mtr.</p>	<p>Running Mtrs.</p>	<p>10300</p>		

<b>Sl. No.</b>	<b>Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate / Unit Rs.</b>	<b>Total Amount Rs.</b>
	<p><b><u>2.5 Sq.mm. Wire in Mtrs.:</u></b>  a) 'A' Type Quarters – 2900 Mtr.  b) 'B' Type Quarters – 1250 Mtr.  c) 'C' Type Quarters – 1000 Mtr.</p> <p>b) Installation of 4(a)</p>	Running Mtrs.	5150		
5.	<p>a) Supply of all materials and accessories to carry out the surface conduit wiring by using suitable size of PVC pipe with 2 runs of 2.5 Sq.mm. and one run of 1.5 Sq.mm. for earth PVC insulated unsheathed copper conductor cables from steel distribution box to all modular switch boxes.</p> <p><b><u>2.5 Sq.mm. Wire in Mtrs.:</u></b>  a) 'A' Type Quarters – 12400 Mtr.  b) 'B' Type Quarters – 9100 Mtr.  c) 'C' Type Quarters - 5550 Mtr.</p> <p><b><u>1.5 Sq.mm. Wire in Mtrs.:</u></b>  a) 'A' Type Quarters – 6200 Mtr.  b) 'B' Type Quarters – 5200 Mtr.  c) 'C' Type Quarters – 2800 Mtr.</p> <p>b) Installation of 5(a)</p>	Running Mtrs.	27050		
6.	<p>a) Supply of all materials and accessories to carry out the conduit wiring by using suitable size of PVC pipe with 2 runs of 1.5 Sq.mm. PVC insulated unsheathed copper conductor wires from switch box to fans, LED tube light retro fittings etc., through connected junction boxes along with modular flush type switch, ceiling rose, holder including terminations in a suitable open type modular switch box.</p> <p><b><u>1.5 Sq.mm. Wire in Mtrs.:</u></b>  a) 'A' Type Quarters – 20600 Mtr.  b) 'B' Type Quarters – 18200 Mtr.  c) 'C' Type Quarters – 12500 Mtr.</p> <p>b) Installation of 6(a)</p>	Running Mtrs.	51300		



<b>Sl. No.</b>	<b>Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate / Unit Rs.</b>	<b>Total Amount Rs.</b>
7.	<p>a) Supply of all materials and accessories to carry out the surface conduit wiring by using suitable size of PVC pipe with 2 runs of 4.0 Sq.mm. and one run of 2.5 Sq.mm. PVC insulated unsheathed copper wire from steel Distribution box to 15 Amps. power points.</p> <p><b>4.0 Sq.mm. Wire in Mtrs.:</b></p> <p>a) 'A' Type Quarters – 12400 Mtr.  b) 'B' Type Quarters – 9100 Mtr.  c) 'C' Type Quarters – 5600 Mtr.</p> <p><b>2.5 Sq.mm. Wire in Mtrs.:</b></p> <p>a) 'A' Type Quarters – 6200 Mtr.  b) 'B' Type Quarters – 4600 Mtr.  c) 'C' Type Quarters – 2800 Mtr.</p> <p>b) Installation of 7(a)</p>	Running Mtrs.	27100		
		Running Mtrs.	13600		
8.	<p>a) Supply of single LED tube light retro fittings 18 watts suitable for 220 V AC operation</p> <p>a) 'A' Type Quarters – 824 (2 x 412)  b) 'B' Type Quarters – 780 (3 x 260)  c) 'C' Type Quarters – 552 (4 x 138)</p> <p>b) Installation of 8(a)</p>	Nos.	2156		
9.	<p>a) Supply of energy saving ceiling fan 1200mm suitable for 220 V AC operation with switch type regulator.</p> <p>a) Ceiling Fans  b) Switch Type Regulators</p> <p>b) Installation of 9(a)</p>	Nos. Nos.	305 1346		
10.	<p>a) Supply of 5 Amps open type modular socket outlet mounted in the modular sub-switch board, along with all materials and accessories.</p>	Nos.	3364		

Sl. No.	Description	Unit	Qty	Rate / Unit Rs.	Total Amount Rs.
	a) 'A' Type Quarters - 1236 (3 x 412) b) 'B' Type Quarters - 1300 (5 x 260) c) 'C' Type Quarters - 828 (6 x 138)  b) Installation of 10(a)				
11.	a) Supply of 15 Amps open type modular switch and socket outlet mounted in the modular sub-switch board, along with all materials and accessories.  a) 'A' Type Quarters - 412 (1 x 412) b) 'B' Type Quarters - 260 (1 x 260) c) 'C' Type Quarters - 276 (2 x 138)  b) Installation of 11(a)	Nos.	948		
12.	a) Supply of calling bell with switch suitable for 220 V AC operation  b) Installation of 12(a)	No.	810		
13	Charges for removing of old tube light fittings and unserviceable wires, calling bells, fans, switch boards, sockets from residential quarters and handed over to 11 KV Sub-station in T.H.Colony	Lump sum			
Total Amount					
G.S.T. @ %					
Total Amount					

(Rupees..... only)

Contractor  
Signature with Seal