

**QUOTE FOR LABOUR RATE CONTRACT WORKS FOR ELECTRICAL UPGRADATION WORKS IN PHASE - I BLOCK IN RGCA - AQUATIC QUARANTINE FACILITY AT NEELANKARAI, CHENNAI.**

Sl. No.	Item of Work	Quantity	Unit	Rate (in Rs.)	Amount (in Rs.)	Amount (in words)
<b><i>ELECTRICAL WORKS</i></b>						
<b>1</b>	<b>DISMANTLING &amp; ALTERATION WORKS</b>					
	<b>ESSB - 1 PANEL</b>					
1.1	Labour Charges for Dismantling of ESSB Panel and dismantling of all connection of incomer & outgoing cables etc. The rate shall inclusive of removing ESSB Panel should cover with packing polythene and safely stored etc. complete as per instruction of Engineer - in - Charge	1.00	Nos.			
	<b>CHILLER PANEL (EXISTING MAIN PANEL)</b>					
1.2	Labour Charges for Dismantling of 100A TPN Isolator switch and dismantling of all connection bus bars in outgoing feeders of Chiller panel the rate shall inclusive all removing Isolator switch should cover with packing polythene and safely stored etc. complete as per instruction of Engineer - in - Charge	5.00	Nos.			
1.3	Labour Charges for Dismantling of 250A TPN Isolator switch and dismantling of all connection bus bars in outgoing feeders of Chiller panel the rate shall inclusive all removing Isolator switch should cover with packing polythene and safely stored etc. complete as per instruction of Engineer - in - Charge	1.00	Nos.			
1.4	Labour charges for Erection, Fixing & Testing of 150A MCCB incomer fixing in Chiller panel and					
	<b>Incomer:</b>					
	150A MCCB fitted with					
	1-Set of indicating Lamp	1.00	Nos.			
	<b>Outgoing:</b>					
	100A MCCB fitted with					
	1-Set of indicating Lamp	3.00	Nos.			
<b>2</b>	<b>LT POWER PANEL</b>					
2.1	Labour Charges for Erection with necessary metal base frames, Earthing, Testing and Commissioning of the following LT Power Panel, free standing dust and vermin proof by construction of 14 SWG CRCA sheets with bolted construction powder coated panel incoming and outgoing breaker details as mentioned below.					
	Using special painting for coastal environment For the panel					
	<b>Incomer:</b>					
	350A MCCB with					
	1- Digital Volt meter					
	1- Digital Ammeter					
	1-Set of indicating Lamp	1.00	Nos.			
	<b>Outgoing :</b>					
	100A MCCB with					
	1-Set of indicating Lamp	5.00	Nos.			
	<b>Outgoing :</b>					
	150A MCCB with					
	1-Set of indicating Lamp	1.00	Nos.			

<b>3</b>	<b>DISTRIBUTION BOARDS</b>					
<b>A</b>	Labour Charges for erection, earthing, testing and commissioning of the following MCB DB's IP 42 Protection Metal Door powder coated including all inter connections and accessories like bolts, nuts and associated civil works. MCB DBs shall have comprising as follows:					
	special painting for coastal environment For all DBs					
<b>3.1</b>	<b>8W TPN Phase segregated MCB DB (LDB)</b>					
	<b>Incoming:</b>					
	1no - 63A TPN MCB					
	<b>Outgoing:</b>					
	3 nos - 25A DP 30mA ELCB					
	24 nos - 6/10A SP MCB	1.00	Nos.			
<b>3.2</b>	<b>PDB-MP 8W TPN P/S MCB DB</b>					
	<b>Incoming:</b>					
	63A TPN MCB					
	<b>Outgoing:</b>					
	3 Nos. 40A DP 100mA ELCB					
	24 Nos. 16 / 20A SP MCB	1.00	Nos.			
<b>3.3</b>	<b>PDB-MP</b>					
	<b>12W TPN VERTICAL MCCB DB</b>					
	<b>Incoming:</b>					
	1no - 63A FP MCCB 16KA					
	<b>Outgoing:</b>					
	12nos - 32A TP MCB					
<b>3.4.</b>	<b>AC DB-</b>					
	<b>6W TPN MCB DB</b>					
	<b>Incoming:</b>					
	1no - 63A TPN MCB					
	<b>Outgoing:</b>					
	3nos - 40A DP 100mA ELCB					
	18nos - 20A SP MCB	1.00	Nos.			
<b>4</b>	<b><u>Labour Charges for Erection, fixing, Testing and Commissioning of 4 HP AUTO DOL Starter Panel : For Recirculation Pumps</u></b>					
	<b>Incomer:</b>					
	1 - 16A TPN MCB fitted with					
	1- VAF meter with CT's					
	1-Single Phase Preventer					
	1-Auto/Manual selector switch					
	1-set of indicating lamps					
	1-set of control MCB's					
	1-9A TP contactor					
	1-(4.5-7.5)A BMR					
	1-set of push buttons					
	1-set of Terminal Blocks					
	1-No of float switch	8.00	Nos.			
<b>5</b>	<b><u>Labour Charges for Erection, fixing, Testing and Commissioning of 7.5HP AUTO DOL Starter Panel :</u></b>					
	<b>Incomer:</b>					
	1-40A TPN MCB fitted with					
	1- VAF Meter with CT's					
	1-Auto/Manual selector switch					

	1-set of indicating lamps					
	1-set of control MCBs					
	1-22A TP contactor					
	1-(6-10)A BMR					
	1-set of push buttons					
	1-set of terminal blocks.					
	1-No of float switch	2.00	Nos.			
<b>6</b>	<b>LT CABLES</b>					
<b>A</b>	Labour charges for Laying, Testing and Commissioning of 1100V XLPE A2XFY (XLPE insulated Armoured Aluminium) / YFY (Armoured Copper) / YY (Unarmored/Flexible Copper) cables laid over MS supports / Cable racks / in excavated Trench / fixing of walls including clamping the cable to the support in all approved manner as all complete required.					
	(Note : Inclusive of fixing of Anchor Fasteners and necessary 1.5mm thick GI Flat, clamps shall be included in the laying cost).					
	(Rate shall include necessary excavation, brick protection, sand cushioning and back filling etc -to be added.)					
6.1	3.5C 50 Sq.mm. A2XFY - XLPE	100.00	Rmt			
6.2	4C 25 Sq.mm. A2XFY - XLPE for Embossing, Moulding press	100.00	Rmt			
6.3	4C 16 Sq.mm. A2XFY - XLPE for Equipments,PDBs,LDBs	100.00	Rmt			
6.4	4C 6 Sq.mm. XLPE Cu.Ar.cable (Motor DB1 to Motor Socket)	1,000.00	Rmt			
<b>6.5</b>	Labour charges for providing end termination for the following 4 Core 6 Sq.mm flexible copper cable. (PVC cable gland and copper sockets)	50.00	Rmt			
6.5	4C 4 Sq.mm. XLPE Cu.Ar.cable	1,800.00	Rmt			
6.6	Labour Charges for laying, testing and commissioning of 3C 2.5sqmm. flexible copper cable with 25mm dia PVC conduit fixed on wall, ceiling with necessary clamps, screws, bends etc all complete.	1,800.00	Rmt			
6.7	Labour Charges for laying, testing and commissioning of 3C 1.5sqmm. flexible copper cable with 25mm dia PVC conduit fixed on wall, ceiling with necessary clamps, screws, bends etc all complete.	1,800.00	Rmt			
<b>7</b>	<b>LT CABLE TERMINATION</b>					

	Labour Charges for making end terminations of the following sizes of 1100V PVC insulated Al/Cu conductor cables including providing single compression type cable gland aluminium sockets for aluminium cables and copper sockets for Cu cables, crimping lugs, insulation tape including gland earthing with adequate copper connecting to the main bus bars.					
7.1	3.5C 50sq.mm.A2XFY - XLPE	25.00	Nos.			
7.2	4C 25 Sq.mm. A2XFY-XLPE	25.00	Nos.			
7.3	4C 16 sq.mm.A2XFY-XLPE for equipments ,PDBs,LDBs	35.00	Nos.			
7.4	4C 6sq.mm.XLPE Cu.Ar.cable(Motor DB1 to motor soc)	100.00	Nos.			
7.5	Labour Charges for making providing end termination for the 4 core 6 Sqmm flexible cable.(PVC cable gland and copper sockets)	150.00	Nos.			
7.6	Labour Charges for making providing end terminaton of 4C 4Sqmm copper flexible cable(PVC cable gland ande copper sockets)	150.00	Nos.			
7.7	Labour Charges for making providing end termination for 3 core 1.5sqmm copper flexible cable(PVC flexible gland and copper sockets.	500.00	Nos.			
<b>8</b>	<b><u>LIGHTING WIRING</u></b>					
8.1	Labour charges for laying Point wiring : Supply, wiring, connecting, testing and commissioning of 3runs of 1.5 Sq.mm. (Ph, Neutral & Earth) PVC insulated multistranded FRLS copper wires in 25mm dia PVC conduit fixed on wall/ceiling with necessary clamps, screws etc., including fixing of modular 6A one way switch along with moulded front plate i GI anodised manufacturer's mounting box fixed flush with wall complete with all accessories as required as per site conditions. From lighting switch boards to primary light point.	100.00	Nos.			
8.2	Labour charges for laying wiring of light points with 1.5 sq.mm FR PVC insulated copper conductor single core cable in PVC conduit with required modular plate,suitable GI box and proper earthing point with 1.5sqmm FR PVC insulated copper single core cable etc as required.	130.00	Nos.			
8.3	Labour charges for <b>Ceiling fan points:</b> laying & fixing of concealed type fan hook box and supply and fixing of ceiling fan with regulator with moulded front plate in GI anoised mounting box fixed with the bwall complete with all accessories as required as per site conditions.	10.00	Nos.			

8.4	Labour charges for wiring testing and commissioning of 3R 2.5sqmm PVC insulated multistranded copper wire in 25mm dia PVC conduit with all accessories required as per lighting condition(for lighting)	1,000.00	Rmt			
8.5	Labour charges for wiring testing and commissioning of 3R 4sqmm. PVC insulated multistranded copper wire in 25mm dia PVC conduit with all accessories required as per lighting condition (for 6/16A power sockets/PVC plug sockets.)	800.00	Rmt			
<b>9</b>	<b><u>SOCKETS:</u></b>					
9.1	Labour charges for testing, erection and commissioning of 3PH PVC plug and socket box in suitable PVC sheet steel enclosure with necessary fixing accessories	30.00	Nos.			
9.2	Labour charges for testing, erection and commissioning of single phase Plug and socket box in suitable PVC enclosed enclosure with suitable accessories	60.00	Nos.			
9.3	Labour charges for testing erection and commissioning of 6/16A 6 model with 4 switch and 1 socket junction with necessary fixing accessories.	6.00	Nos.			
9.4	Labour charges for testing, erection and commissioning of 6/16A 8 model with 4switch and 1 socket junction with necessary fixing accessories.	6.00	Nos.			
9.5	Labour charges for testing, erection and commissioning of 6/16A 4 model with 2 switch and 1 socket junction with necessary fixing accessories.	4.00	Nos.			
9.6	Labour charges for testing, erection and commissioning of 6/16A 3 model with 3switch junction with necessary fixing accessories.	2.00	Nos.			
9.7	Labour charges for testing, erection and commissioning of 6/16A 6 model box junction with necessary fixing accessories.	40.00	Nos.			
9.8	Labour charges for testing, erection and commissioning of 6/16A 12 model box with 6 switch and 6 socket junction with necessary fixing accessories.	1.00	Nos.			
9.9	Labour charges for testing, erection and commissioning of 6/16A 12 model with 6 switch and 6 sockets junction with necessary fixing accessories.	7.00	Nos.			
<b>10</b>	<b><u>LIGHT FITTINGS / FANS</u></b>					

10.1	Labour charges for Erection, testing and commissioning of 36W Clean Room Luminaires with 36w TL5 Lamps and with all accessories like clamps, supporting brackets, hardwares as required as per site condition. (Make. Philips. Model.....Water Proof Type)	100.00	Nos.			
10.2	Labour charges for Erection, testing and commissioning of down lighter fitting with 1 x15w LED and with all accessories like clamps, supporting brackets, hardwares as required as per site condition. (CAT Ref. No.PHILIPS make DN194B LED 15S - 3000 PSU WH or Equivalent)	30.00	Nos.			
10.3	Labour charges for Erection, Testing and commissioning of 1200mm dia Ceiling fan with 300 mm down rod and with necessary fixing accessories.	10.00	Nos.			
<b>11</b>	<b><u>EARTHING</u></b>					
	Labour charges for laying of following copper flat laid in open/burried underground/ concealed manner with necessary clamps, SMC support insulators, screws and interlinks etc for earthing.					
11.1	25 X 3 mm Cu. flat earth for LT Panel and equipments earthing	QRO	Rmt			
11.2	8 SWG Cu.wire for DB earthing	300.00	Rmt			
11.3	10 SWG Cu.Wire for DB earthing.	300.00	Rmt			
11.4	Plate earthing kit complete set	5.00	Nos.			
11.5	Pipe earthing complete set	10.00	Nos.			
<b>12</b>	<b><u>Centralized Stabilizer Panel</u></b>					
	Labour charges for Erection, Testing and commissioning of centralized stabilizer for 15Nos. Air conditioners with 60KVA 3P 440v	1.00	Nos.			
<b>Note:</b>	The rates furnished by the Contractor should be inclusive of water, power & other machineries required for the works to be carried out at Site. Also the rate shall inclusive of all applicable TAX.					