

Bill of Quantities for Electrical Works



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**MIT WORLD PEACE UNIVERSITY** | PUNE  
TECHNOLOGY, RESEARCH, SOCIAL INNOVATION & PARTNERSHIPS

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**TENDER FOR  
INTERNAL ELECTRICAL WORK  
AT**

**Dr. VISHWANATH KARATH – MIT WORLD PEACE UNIVERSITY – Sr No. 124, MIT  
Campus, Paud Road, Kothrud, Pune – 411038.**

**Project Name :- MIT\_WPU CAMPUS BUILDING-NE02-KOTHRUD**

**Summary Sheet**

Sr. No.	Item	Supply Amount	Installation Amount	Total
I	<b>INTERNAL ELECTRICAL WORKS</b>			
A	CABLE TRAY	0.00	0.00	0.00
B	DISTRIBUTION BOARDS	0.00	0.00	0.00
C	POINT WIRING	0.00	0.00	0.00
D	LIGHT FIXTURES & FAN FITTINGS (only Installation)	0	0	0.00
E	RACEWAYS & JUNCTION BOXES& PVC TRUNKING	0.00	0.00	0.00
F	SUBMAIN (THROUGH RACEWAY & JUNCTION BOX)	0.00	0.00	0.00
	<b>NET TOTAL</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**Note : Taxes, Extra.**

**Bill of Quantities for Electrical Works**

Sr. No	Item Description	Qty.	Unit	Supply		Installation		Total
				Rate	Amount	Rate	Amount	
<b>INTERNAL ELECTRICAL WORKS</b>								
<b>A</b>	<b>CABLE TRAYS</b>							
	Supply ,Installation,connection,testing and commissioning of G.I. Perforated Type cable tray / Ladder type cable tray with bends, tees and clamps for fixing of cable with suitable MS structure and anchor fastner(item no 5.2 )for supporting and necessary hardware with necessary welding has to be done tocomplete the job from ISA / ISMC / PLATE. . All material shall be Hot dip galvanised as per IS (816 g/m2) and mentioned below. The structural steel supports for the trays are to be provided at every 1 /1.2 Mtrs. as per technical specifications. MS Support with Red Oxide and Oil Pant to Support structure with Nut bolt from ceiling slab or From Ground floor support arrangements (Refer drawings )							
1	600 x 75 mm x 2 mm Cable Tray (Ladder Type)	UR	Mtr.	0.00	0	0.00	0	0.00
2	300 x 75 mm x 2 mm Cable Tray (Ladder Type)	UR	Mtr.	0.00	0	0.00	0	0.00
3	600 x 50 mm x 1.6 mm Cable Tray (Medium Duty)	2100	Mtr.	0.00	0.00	0.00	0.00	0.00
4	300 x 50 mm x 1.6 mm Cable Tray (Medium Duty)	3000	Mtr.	0.00	0.00	0.00	0.00	0.00
5	200 x 50 mm x 1.6 mm Cable Tray (Medium Duty)	250	Mtr.	0.00	0.00	0.00	0.00	0.00
6	150 x50 mm x 1.6 mm Cable Tray (Medium Duty)	100	Mtr.	0.00	0.00	0.00	0.00	0.00
7	50 x 50 mm x 1.6 mm Cable Tray (Medium Duty)	200	Mtr.	0.00	0.00	0.00	0.00	0.00
6	Supply fabrication and installation of structural steel required for cable tray support on RCC column/ structurue/wall with anchor fastener / nuts and bolts , including required welding/ cutting/ grinding shall be done to complete the job using ISA/ISMC/MS flat. (Refer drawings)	8000	KGS		0.00		0.00	0.00
<b>Total</b>					<b>0.00</b>		<b>0.00</b>	<b>0.00</b>
<b>DISTRIBUTION BOARDS</b>								
<b>B</b>	<b>Distribution Boards : Readymade</b>							
	Supply, Installation, Testing and Commissioning of Double Door Powder Coated, IP 42, Surface or Concealed type Distribution Board with separate Neutral bus, 2 No.s of plated earth continuity studs,detachable knock out plate etc. complete. ( Refer Power Schematic Drawing for More Details )							
1.1	VTPN DB :- 12 Way VTPN MCCB DB ( Raw Power)							
	<b>Incomer</b>							
	· 200A TP MCCB 25KA – 1 No. (i/c)							
	<b>Outgoings</b>							
	· 40A TP MCB, 10KA, C : 08 Nos. (O/g.)	UR	Set	0.00	0	0.00	0	0.00

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				Rate	Amount	Rate	Amount	
	· 40A TP MCB, 10KA, C : 4 Nos. (O/g.) (SPARE PROVISION)							
<b>1.2</b>	VTPN DB :- 12 Way VTPN MCCB DB (Lighting )							
	<b>Incomer</b>							
	· 125A TP MCCB 25KA – 1 No. (i/c)							
	<b>Outgoings</b>							
	· 63A TP MCB, 10KA, C : 8 Nos. (O/g.)	UR	Set	0.00	0	0.00	0	0.00
	· 63A TP MCB, 10KA, C : 4 Nos. (O/g.) (SPARE PROVISION)							
<b>1.3</b>	VTPN DB :- 12 Way VTPN MCCB DB (IDU unit)							
	<b>Incomer</b>							
	· 125A TP MCCB 25KA – 1 No. (i/c)							
	<b>Outgoings</b>							
	· 40A TP MCB, 10KA, C : 08 Nos. (O/g.)	UR	Set	0.00	0	0.00	0	0.00
	· 40A TP MCB, 10KA, C : 04 Nos. (O/g.) (SPARE PROVISION)							
<b>1.4</b>	VTPN DB :- 12 Way VTPN MCCB DB (UPS Lighting)							
	<b>Incomer</b>							
	· 125A TP MCCB 25KA – 1 No. (i/c)							
	<b>Outgoings</b>							
	· 40A TP MCB, 10KA, C : 08 Nos. (O/g.)	UR	Set	0.00	0	0.00	0	0.00
	· 40A TP MCB, 10KA, C : 04 Nos. (O/g.) (SPARE PROVISION)							
<b>1.5</b>	VTPN DB :- 6 Way VTPN MCCB DB (IDU unit &Lighting)							
	<b>Incomer</b>							
	· 125A TP MCCB 25KA – 1 No. (i/c)							
	<b>Outgoings</b>							
	· 40A TP MCB, 10KA, C : 04 Nos. (O/g.)	UR	Set	0.00	0	0.00	0	0.00
	· 40A TP MCB, 10KA, C : 02 Nos. (O/g.) (SPARE PROVISION)							
<b>1.6</b>	VTPN DB :- 06 Way VTPN MCCB DB (Raw power & UPS lighting)							
	<b>Incomer</b>							
	· 125A TP MCCB 25KA – 1 No. (i/c)							
	<b>Outgoings</b>							
	· 40A TP MCB, 10KA, C : 04 Nos. (O/g.)	UR	Set	0.00	0	0.00	0	0.00
	· 40A TP MCB, 10KA, C : 02 Nos. (O/g.) (SPARE PROVISION)							

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Sr. No	Item Description	Qty.	Unit	Supply		Installation		Total
				Rate	Amount	Rate	Amount	
1.7	VTPN DB :- 08 Way VTPN MCCB DB (Raw power & UPS lighting)							
	<b>Incomer</b>							
	· 250A TP MCCB 25KA – 1 No. (i/c)							
	<b>Outgoings</b>							
	· 40A TP MCB, 10KA, C : 04 Nos. (O/g.)	UR	Set	0.00	0	0.00	0	0.00
	· 40A TP MCB, 10KA, C : 04 Nos. (O/g.) (SPARE PROVISION)							
1.7	VTPN DB :- 04 Way VTPN MCCB DB							
	<b>Incomer</b>							
	· 63A TP MCCB 25KA – 1 No. (i/c)							
	<b>Outgoings</b>							
	· 40A TP MCB, 10KA, C : 02 Nos. (O/g.)	UR	Set	0.00	0	0.00	0	0.00
	· 40A TP MCB, 10KA, C : 02 Nos. (O/g.) (SPARE PROVISION)							
1.7	VTPN DB :- 08 Way VTPN MCCB DB							
	<b>Incomer</b>							
	· 160A TP MCCB 25KA – 1 No. (i/c)							
	<b>Outgoings</b>							
	· 40A TP MCB, 10KA, C : 04 Nos. (O/g.)	UR	Set	0.00	0	0.00	0	0.00
	· 40A TP MCB, 10KA, C : 04 Nos. (O/g.) (SPARE PROVISION)							
1.7	Lighting DB :- 6 Way TPN MCB LDB Per phase ioslation							
	<b>Incomer</b>							
	· 40A FP 10KA MCB – 1 No. (i/c)							
	· 40A 30mA 2P ELCB – 3 No. (i/c)							
	<b>Outgoings</b>							
	· 6/10/16 A SP MCB, 10KA, C : 12 Nos. (O/g.)	16	Set	0.00	0.00	0.00	0.00	0.00
1.8	Lighting DB :- 4 Way TPN MCB LDB Per phase ioslation							
	<b>Incomer</b>							
	· 40A FP 10KA MCB – 1 No. (i/c)							
	· 40A 30mA 2P ELCB – 3 No. (i/c)							
	<b>Outgoings</b>							
	· 6/10/16 A SP MCB, 10KA, C : 08 Nos. (O/g.)	UR	Set	0.00	0	0.00	0	0.00
1.6	Power DB :- 8 Way TPN MCB PDB Per phase ioslation							
	<b>Incomer</b>							

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Sr. No	Item Description	Qty.	Unit	Supply		Installation		Total
				Rate	Amount	Rate	Amount	
	· 63A FP 10KA MCB – 1 No. (i/c)	16	Set	0.00	0.00	0.00	0.00	0.00
	· 63A 100mA 2P ELCB – 3 No. (i/c)							
	<b>Outgoings</b>							
	· 10 /20 A SP MCB, 10KA, C : 24 Nos. (O/g.)							
<b>1.7</b>	HVAC DB :- 8 Way TPN MCB DB (IDU )							
	<b>Incomer</b>	16	Set	0.00	0.00	0.00	0.00	0.00
	· 63A FP 10KA MCB – 1 No. (i/c)							
	· 63A 100mA FP ELCB – 1 No. (i/c)							
	<b>Outgoings</b>							
	· 10 /20 A SP MCB 10KA, C : 24 Nos. (O/g.)							
<b>1.8</b>	UPS LDB :- 6 Way TPN MCB LDB Per phase ioslation							
	<b>Incomer</b>	16	Set	0.00	0.00	0.00	0.00	0.00
	· 40A FP 10KA MCB – 1 No. (i/c)							
	· 40A 30mA 2P ELCB – 3 No. (i/c)							
	<b>Outgoings</b>							
	· 6/10/16 A SP MCB, 10KA, C : 12 Nos. (O/g.)							
<b>1.9</b>	UPS RAW DB :- 8 Way TPN MCB RDB Per phase ioslation							
	<b>Incomer</b>	42	Set	0.00	0.00	0.00	0.00	0.00
	· 40A FP 10KA MCB – 1 No. (i/c)							
	· 40A 100mA 2P ELCB – 3 No. (i/c)							
	<b>Outgoings</b>							
	· 6/10/16 A SP MCB, 10KA, C : 24 Nos. (O/g.)							
<b>1.9</b>	RAW DB :- 16 Way SPN MCB RDB Per phase ioslation							
	<b>Incomer</b>	UR	Set	0.00	0	0.00	0	0.00
	· 40A DP 10KA MCB – 1 No. (i/c)							
	· 40A 30mA 2P ELCB – 01 No. (i/c)							
	<b>Outgoings</b>							
	· 6/10/16 A SP MCB, 10KA, C : 12 Nos. (O/g.)							

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				Rate	Amount	Rate	Amount	
1.1	RAW DB :- 12 Way SPN MCB RDB Per phase ioslation							
	<b>Incomer</b>							
	· 40A DP 10KA MCB – 1 No. (i/c)	UR	Set	0.00	0	0.00	0	0.00
	· 40A 100mA 2P ELCB – 01 No. (i/c)							
	<b>Outgoings</b>							
	· 6/10/16 A SP MCB, 10KA, C : 08 Nos. (O/g.)							
1.11	RAW DB :- 8 Way SPN MCB RDB Per phase ioslation							
	<b>Incomer</b>							
	· 40A DP 10KA MCB – 1 No. (i/c)	UR	Set	0.00	0	0.00	0	0.00
	· 40A 100mA 2P ELCB – 03 No. (i/c)							
	<b>Outgoings</b>							
	· 6/10/16 A SP MCB, 10KA, C : 04 Nos. (O/g.)							
	<b>Total</b>				<b>0.00</b>		<b>0.00</b>	<b>0.00</b>
<b>C</b>	<b>POINT WIRING - CONCEALED &amp; SURFACE CONDUITING</b>							
<b>1</b>	Point wiring for Light / Ceiling Fan / 6A Socket outlet / 16 A Socket outlet/ Exhaust Fan/16A Power Plugs etc. with 650/1100 volts grade as per IS694-1990 ISI marked multistranded copper conductor FRLS PVC insulated wires in Concealed & Surface conduiting with ISI mark on wall or surface with suitable spacers / saddles ,Surface Back Box and Cover plates,Switch Socket,TV and Tel Outlets etc. . Accessories e.g. lamp holders / 3 way PVC connectors etc. shall be provided. Circuit wires for light / fan /5A Plug / Bell etc. shall be 2.5 Sq.mm i.e. from DB to First Board and from board to point wire shall be 1.50 Sq.mm ( Circuit Wiring From DB to Switchboard not part of point rates. )							
1.1	Primary Light Point with 2x1.50 + 1 x1.00 Sq.mm wire and 6 Amp Switch complete with all accessories (Avg Length 8 Mtr)etc.(Class room )	264	Nos	0.00	0.00	0.00	0.00	0.00
1.2	Secondary or light point in group,with 2x1.50 + 1 x1.00 Sq.mm Sq.mm wire without Switch complete with all accessories etc. (Avg Length 5.5 Mtr)	1056	Nos	0.00	0.00	0.00	0.00	0.00
1.3	Primary Light Point with 2x1.50 + 1 x1.00 Sq.mm wire without Switch complete with all accessories (Avg Length 8.5 Mtr)etc. Parking,staircase and Common lobby & passage Area Light)	990	Nos	0.00	0.00	0.00	0.00	0.00
1.4	Primary Light Point with 6 Amp Switch complete with all accessories etc.	250	Nos	0.00	0.00	0.00	0.00	0.00
1.5	Secondary or light point in group complete with all accessories etc.	500	Nos	0.00	0.00	0.00	0.00	0.00
1.6	Primary Light Point with 2x1.50 + 1 x1.00 Sq.mm wire and 6 Amp Switch complete with all accessories (Avg Length 5 Mtr)etc. (toilet area)	600	Nos	0.00	0.00	0.00	0.00	0.00

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				Rate	Amount	Rate	Amount	
1.7	Secondary or light point in group,with 2x1.50 + 1 x1.00 Sq.mm wire without Switch complete with all accessories etc. (Avg Length 3 Mtr)	UR	Nos	0.00	0	0.00	0	0.00
1.8	Ceiling Fan Point with 2x1.50 + 1 x1.00 Sq.mm wires ,6Amp Switch with suitable concealed fan hook box and with fan step regulator, Connector (Avg Length 7.5 Mtr)etc	859	Nos	0.00	0.00	0.00	0.00	0.00
1.9	Chandler light Point 10Amp Switch with suitable concealed fan hook box and with Connector etc	UR	Nos	0.00	0	0.00	0	0.00
1.1	Socket outlet 10A for Switch Socket on the same board ( ½ Plug Point)(Main Switchboard)	200	Nos	0.00	0.00	0.00	0.00	0.00
1.11	1 x 10 Amp Socket and Switch with Box and Plate Module without wiring ( for 6th floor)	350	Nos	0.00	0.00	0.00	0.00	0.00
1.12	2 x 10 Amp Socket and Switch with Box and Plate Module without wiring( for 6th floor)	450	Nos	0.00	0.00	0.00	0.00	0.00
1.13	Exhaust Fan Point with2x1.50 + 1 x1.00 Sq.mm with 6Amp Switch and ceiling rose / socket(Avg Length 6 Mtr).	UR	Nos	0.00	0	0.00	0	0.00
1.14	Bell Point with 2x1.50 + 1 x1.00 Sq.mm wire and 6 Amp Switch complete with all accessories (Avg Length 7.5 Mtr)etc.	UR	Nos	0.00	0	0.00	0	0.00
1.15	Power Sockets with socket outlets with back boxes and 1 x 6/16 Amp Socket and Switch without Wiring	953	Nos	0.00	0.00	0.00	0.00	0.00
1.16	Power Sockets with socket outlets with back boxes and 2 x 6/16 Amp Socket and Switch without Wiring	300	Nos	0.00	0.00	0.00	0.00	0.00
1.17	16 Amp Ac socket outlet with 16 Amp switch with Pvc Modular box and plates without power wires for single phase AC unit.	477	Nos.	0.00	0.00	0.00	0.00	0.00
1.18	20 Amp socket outlet with 20 Amp switch with Modular box and plates without power wires for Boiler	UR	Nos.	0.00	0	0.00	0	0.00
	<b>UPS Socket outlet Points (UPS) and Raw power Wiring</b>							
2	Supply and fixing of computer UPSand Raw power sockets shuttered, Modular type complete with modular plate, with White colour plate and switch (For UPS Module Only) ,mounting box. The switch box shall be fixed in partition works .The rate shall be inclusive of connecting the switches /sockets. Rates are without Wiring for below points.							
2.1	6/16 amp 1 nos.Socket+1 nos.16 Amp switch with Box and Plate Module.(UPS )	0	Nos	0.00	0.00	0.00	0.00	0.00
2.2	6/16 amp 2 nos.Socket+2 nos.16 Amp switch with Box and Plate Module.(Raw Power)	0	Nos	0.00	0.00	0.00	0.00	0.00
2.3	6/16 amp 2 nos.Socket+2 nos.16 Amp switch with Box and Plate Module.(UPS)	0	Nos	0.00	0.00	0.00	0.00	0.00
2.4	10 Amp Socket+10 Amp switch with Box and Plate Module.(Raw Power)	0	Nos	0.00	0.00	0.00	0.00	0.00
2.5	3 Nos. of sockets 10A 3pin universal & 1 No. 16A Switch in module box with socket and switch and plate.(UPS)	6265	Nos	0.00	0.00	0.00	0.00	0.00

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2.6	6/16 amp 1 nos.Socket+1 nos.16 Amp switch with Box and Plate Module.(Raw Power)	6265	Nos	0.00	0.00	0.00	0.00	0.00
2.7	25 amp 1 nos.Socket+1 nos.25 Amp switch with Box and Plate Module.(Raw Power)	0	Nos	0.00	0.00	0.00	0.00	0.00
3	<b>CIRCUIT WIRING</b>							
	Supply and laying of Mains Wiring in 25/32 mm. Dia MMS PVC surface conduit above false ceiling & concealed below inclusive all accessories and hardware, saddles / spaceretc.complete in all respect.							
3.1	4 x 10 Sq.mm + 1 x 4 Sq.mm E. Wire	UR	Mtr	0.00	0	0.00	0	0.00
3.2	4 x 6 Sq.mm + 1 x 4 Sq.mm E. Wire	UR	Mtr	0.00	0	0.00	0	0.00
3.3	2 x 6.0 Sq.mm + 1 x 4 Sq.mm E. Wire	0	Mtr	0.00	0.00	0.00	0.00	0.00
3.4	4 x 4.0 Sq.mm + 1 x 2.5 Sq.mm E. Wire	0	Mtr	0.00	0.00	0.00	0.00	0.00
3.5	2 x 4.0 Sq.mm + 1 x 2.5 Sq.mm E. Wire	5000	Mtr	0.00	0.00	0.00	0.00	0.00
3.6	4 x 2.5 Sq.mm + 1 x 1.5 Sq.mm E. Wire	0	Mtr	0.00	0.00	0.00	0.00	0.00
3.7	2 x 2.5 Sq.mm + 1 x 1.5 Sq.mm E. Wire ( CKT WIRING )	26000	Mtr	0.00	0.00	0.00	0.00	0.00
3.8	2 x 2.5 Sq.mm + 1 x 1.0 Sq.mm E. Wire	UR	Mtr	0.00	0	0.00	0	0.00
3.9	2 x 1.5 Sq.mm + 1 x 1.0 Sq.mm E. Wire ( CKT WIRING )	2000	Mtr	0.00	0.00	0.00	0.00	0.00
3.1	2 x 1.5 Sq.mm + 1 x 1.0 Sq.mm E. Wire ( POINT WIRING )	9000	Mtr	0.00	0.00	0.00	0.00	0.00
	<b>Total</b>							
	<b>Total</b>				<b>0.00</b>		<b>0.00</b>	<b>0.00</b>
	<b>FIXTURES &amp; FITTINGS(Supplied by Client)</b>							
<b>D</b>	<b>LIGHTING FIXTURES -LED Fittings-Supplied By client as Per Selection from architect and consultant design</b>							
	Installation, testing and commissioning of following type of lighting fixtures complete with all accessories including supply of supporting steel wire with Support in ceiling with Junction Boxes, and connector from ceiling point to fixtures connection etc							
1	<b>Recess Fittings</b>							
1.1	35W Square 2'x2' LED Type Luminaire	104	Nos		0.00	0.00	0.00	0.00
1.2	1 x 15 W Downligger LED Luminaire	260	Nos		0.00	0.00	0.00	0.00
1.3	10W Downligger LED Luminaire	600	Nos		0.00	0.00	0.00	0.00
1.4	1 x 12 W Downligger LED Luminaire	80	Nos		0.00	0.00	0.00	0.00
1.5	18 W Downligger LED Luminaire	1280	Nos		0.00	0.00	0.00	0.00



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1.6	2 X 36W Clean Room Fitting	UR	Nos		0	0.00	0	0.00
1.7	1 X 50W Halogen Fitting	UR	Nos		0	0.00	0	0.00
1.8	28 W Downlighter LED Luminaire	240	Nos		0.00	0.00	0.00	0.00
1.9	35 W Downlighter LED Luminaire	UR	Nos		0	0.00	0	0.00
<b>2</b>	<b>Surface Fittings</b>							
2.1	1 X 18W LED Batten light fittings	100	Nos		0.00	0.00	0.00	0.00
2.2	1 X 12W LED Batten light fittings	100	Nos		0.00	0.00	0.00	0.00
2.3	1 X 35W LED Batten light fittings	240	Nos		0.00	0.00	0.00	0.00
2.4	2 X 20W LED light fittings	UR	Nos		0	0.00	0	0.00
2.5	Bulkhead LED fitting for terrace floor	50	Nos		0.00	0.00	0.00	0.00
<b>3</b>	<b>fans</b>							
	<b>Installation</b> , testing and commissioning of following type of fan complete with all accessories including supply of supporting anchor fastner with Support rod in ceiling with connector and complete with all accessories. etc							
3.1	Ceiling mounted double bearing fan of 900 mm sweep with 3/4 star energy saving rated BEE	UR	Nos	0.00	0	0.00	0	0.00
3.2	Ceiling mounted double bearing fan of 1200 mm sweep with 3/4 star energy saving rated BEE.	859	Nos	0.00	0.00	0.00	0.00	0.00
3.3	9" Exhaust Fan of 200mm or 300 mm with 3/4 star energy saving rated BEE with complete all accessories.	UR	Nos	0.00	0	0.00	0	0.00
3.4	Wall Fan with 3/4 star energy saving rated BEE with complete all accessories.	UR	Nos	0.00	0	0.00	0	0.00
	<b>Total</b>				<b>0.00</b>		<b>0.00</b>	<b>0.00</b>

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				Rate	Amount	Rate	Amount	
<b>E</b>	<b>RACEWAYS &amp; JUNCTION BOXES ON FLOOR</b>							
1	Supply, Installation, Testing and commissioning of GI raceways made of pre-galvanized sheet with thickness of 1.6mm for distributing LV and ELV cabling in screed floors installations. Can be combined with junction boxes, backboxes (floorboxes) for wiring devices, fixing and coupler accessories. Consist of body & cover. Cover fitted on to the body with screws & can be opened easily if required. Particularly suitable for applications requiring EMC screening. Protection level should be IP 20 & IK 08. Standard length should be 2.44 mtrs. Confirms to standard EN 60-670, EN 50 085 - 2 - 2 & IEC 61534-22.. Resistance to vertical load applied through small surface area should be 1500 N & Resistance to vertical load applied through large surface area should be 3000 N. (Race ways should be supplied with complete accessories i.e. fixing brackets & couplers for joining raceways from the same manufacturer.) Junction boxes for direct access to cables at the intersection of raceways. Supply completely with base and cover plate (Lid) with height adjustable feature from 65mm to 90 mm. Confirms to standard EN 60-670,EN 50 085 - 2 - 2 & IEC 61534-22. . For adjustable junction box, resistance to vertical load applied over a small surface area should be 500N & resistance to vertical load applied over a large surface area should be 2000N. Use junction box with fly over for direct access to cables at the intersection of floor raceways while maintaining perfect separation and 90 degree cross overs between data and power cables.							
1.1	400 x 38 mm raceways, 1.6 mm thick 1 compartment	UR	Mtr	0.00	0	0.00	0	0.00
1.2	Coupler for joining raceways Coupling 38	UR	Nos	0.00	0	0.00	0	0.00
1.3	Fixing bracket for 400* 38 ,	UR	Nos	0.00	0	0.00	0	0.00
1.4	350 x 38 mm raceways, 1.6 mm thick 1 compartment	UR	Mtr	0.00	0	0.00	0	0.00
1.5	Coupler for joining raceways Coupling 38	UR	Nos	0.00	0	0.00	0	0.00
1.6	Fixing bracket for 350* 38 ,	UR	Nos	0.00	0	0.00	0	0.00
1.7	300 x 38 mm raceways, 1.6 mm thick 1 compartment	UR	Mtr	0.00	0	0.00	0	0.00
1.8	Coupler for joining raceways Coupling 38	UR	Nos	0.00	0	0.00	0	0.00
1.9	Fixing bracket for 300* 38 ,	UR	Nos	0.00	0	0.00	0	0.00
1.10	250 x 38 mm raceways, 1.6 mm thick 1 compartment	UR	Mtr	0.00	0	0.00	0	0.00
1.11	Coupler for joining raceways Coupling 38	UR	Nos	0.00	0	0.00	0	0.00
1.12	Fixing bracket for 250* 38 ,	UR	Nos	0.00	0	0.00	0	0.00
1.13	200 x 38 mm raceways, 1.6 mm thick 1 compartment	UR	Mtr	0.00	0	0.00	0	0.00
1.14	Coupler for joining raceways Coupling 38	UR	Nos	0.00	0	0.00	0	0.00
1.15	Fixing bracket for 200* 38 ,	UR	Nos	0.00	0	0.00	0	0.00
1.16	150 x 38 mm raceways, 1.6 mm thick -1 compartment	7500	Mtr	0.00	0.00	0.00	0.00	0.00
1.17	Coupler for joining raceways Coupling 38	15000	Nos	0.00	0.00	0.00	0.00	0.00

**Bill of Quantities for Electrical Works**

Sr. No	Item Description	Qty.	Unit	Supply		Installation		Total
				Rate	Amount	Rate	Amount	
1.18	Fixing bracket for 150* 38 ,	15000	Nos	0.00	0.00	0.00	0.00	0.00
1.19	100 x 38 mm raceways, 1.6 mm thick -1 compartment	800	Mtr	0.00	0.00	0.00	0.00	0.00
1.20	Coupler for joining raceways Coupling 38	1600	Nos	0.00	0.00	0.00	0.00	0.00
1.21	Fixing bracket for 100* 38 ,	1600	Nos	0.00	0.00	0.00	0.00	0.00
1.22	75 x 38 mm raceways, 1.6 mm thick -1 compartment	10000	Mtr	0.00	0.00	0.00	0.00	0.00
1.23	Coupler for joining raceways Coupling 38	20000	Nos	0.00	0.00	0.00	0.00	0.00
1.24	Fixing bracket for 75* 38 ,	20000	Nos	0.00	0.00	0.00	0.00	0.00
1.25	50 x 38 mm raceways, 1.6 mm thick -1 compartment	750	Mtr	0.00	0.00	0.00	0.00	0.00
1.26	Coupler for joining raceways Coupling 38	300	Nos	0.00	0.00	0.00	0.00	0.00
1.27	Fixing bracket for 75* 38 ,	300	Nos	0.00	0.00	0.00	0.00	0.00
1.28	32mm HMS grade PVC Conduits with all accessories	2000	Mtr	0.00	0.00	0.00	0.00	0.00
1.29	25mm HMS grade PVC Conduits with all accessories	5000	Mtr	0.00	0.00	0.00	0.00	0.00
2	Supplying and fixing 4 way G.I. Finish, Powder coated, MS junction boxes with knock-outs on all sides suitable for Raceways/conduits. The knock out shall be removed at site as per requirements. The junction boxes shall be laid in trenches for Raceways/conduits as detailed in above item. The top cover shall be fixed with counter sunk screws. (For floor trenches).							
2.1	450x450x60mm	UR	Nos.	0.00	0	0.00	0	0.00
2.2	350x350x60mm	UR	Nos.	0.00	0	0.00	0	0.00
2.3	300x300x60mm	UR	Nos.	0.00	0	0.00	0	0.00
2.4	250x250x60mm	UR	Nos.	0.00	0	0.00	0	0.00
2.5	300x300x60mm	UR	Nos.	0.00	0	0.00	0	0.00
2.6	250x250x60mm	UR	Nos.	0.00	0	0.00	0	0.00
2.7	200x200x60mm	250	Nos.	0.00	0.00	0.00	0.00	0.00
2.8	150x150x60mm	100	Nos.	0.00	0.00	0.00	0.00	0.00
2.9	100x100x60mm	640	Nos.	0.00	0.00	0.00	0.00	0.00
2.10	75x75x60mm	50	Nos.	0.00	0.00	0.00	0.00	0.00
2.11	50x50x60mm	10	Nos.	0.00	0.00	0.00	0.00	0.00
	<b>PVC TRUNKING SYSTEM</b>							
3	Supply and installation of PVC type Trunking system of given dimensions including horizontal and vertical bends, reducers, tees, cross members, end cap and other accessories as required and duly mounted on wall / floor with supports / suspenders as required.							
3.1	50 x 50 mm PVC Trunking without Partition	5000	Mtr		0.00	0.00	0.00	0.00
	<b>Total</b>				<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**Bill of Quantities for Electrical Works**

Sr. No	Item Description	Qty.	Unit	Supply		Installation		Total
				Rate	Amount	Rate	Amount	
<b>F</b>	<b>SUBMAIN WIRING THROUGH EXISTING CONDUIT / RACEWAYS</b>							
1.1	Supply and Laying of 3 core 2.5 Sqmm Flexible Cable from DB to 10/16 Amp Socket Outlets or MCB's or Industrial Sockets (for main & looping but without sockets / MCB's) in existing laid raceways , PVC pipes, or cable trays.[ for raw power, ups and server sockets ]	15000	Mtr.	0.00	0.00	0.00	0.00	0.00
	<b>Total</b>				<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
	<b>TOTAL INTERNAL ELECTRICAL WORKS</b>				<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
	<b>NET TOTAL</b>				<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**Note : Taxes, Extra**

**A Brands of Material**

**Sr. ITEM**

- A INTERNAL
- 1 PVC Wire House Wire , FRLS Category
- 2 TV Cable RG 6 / RG 11 , Tel. Cable 2 Pair
- 3 PVC Pipe,
- 4 Internal Wiring Accessories viz. Switches, Sockets
- 5 Deep Junction Boxes
- 6 Lugs, Copper
- 7 Holders, Ceiling Rose etc.
- 8 MCB's, DB's
- 9 Switch / Sockets / Accessories
- 10 Lighting Fixtures
- 11 CFL Lamps
- 12 C.T.'s 15VA, Class - I
- 13 Ammeter / Voltmeter
- 14 Load Manager
- 15 Selector Switch
- 16 Indicating Lamps , LED
- 17 Raceway & junction box

**BRANDS**

- Polycab, Equivalent
- Polycab, Equivalent
- Precision / Equivalent
- Legrand - Myrius// Schneider -LIVA
- Precision / Equivalent
- Jainsons / Dowell
- Anchor/Great white
- Legrand / Schneider
- Legrand - Myrius// Schneider -LIVA
- Wipro /Philips
- Wipro /Philips
- AE / IMP
- AE / IMP// Schneider/L&T
- Siemens / L&T/ Schneider
- Slazer /EQ
- ALTOS / SIEMENS
- LEGRAND/OBO

**Bill of Quantities for Electrical Works**

Sr. No	Item Description	Qty.	Unit	Supply		Installation		Total
				Rate	Amount	Rate	Amount	

**B External**

- 1 HT / LT Cable
- 2 L.T. Switchgears,
- 3 H.T. / L.T. Cables
- 4 H.T. End Jointing Kits
- 5 Earthing
- 6 Cable Trays / Trunking
- 7 Industrial Sockets
- 8 H.T. Feeder Pillar
- 9 Metering kiosk
- 10 Transformer

**BRANDS**

- Finolex, KEI, Polycab  
 Siemens / Schneider /abb/legrand/Eaton  
 Polycab / Finolex /KEI  
 Mseal / Raychem  
 Ashlok / Santosh enterprises/fast electrode  
 LEGRAND/OBO/Approved Local Manufacturer  
 Hensel / Legrand // Schneider  
 MSEDCL Approved  
 Huphen make  
 Telwane/Eseannar/ CAHORS

**C L.V SYSTEM**

- 1 Control Cable shielded

Polycab / Equivalent

**Note**

ALL TENDERERS SHOULD MENTION THE BRANDS CONSIDERED FROM OPTIONAL BRANDS GIVEN IN SOME ITEMS AT THE TIME OF SUBMISSION OF TENDER. PMC / ARCHITECTS / ELECTRICAL CONSULTANT RESERVE THE RIGHT TO CHOOSE ANY OF THE ABOVE MENTIONED APPROVED BRANDS

**Other Terms & Conditions:**

- 1) Free Delivery at our Works including unloading of the material.
- 3) Tax Invoice / Eway bill – Compulsory with Supply.
- 4) Payment Credit Terms – 30 days / 45 days / as per Terms finalised.
- 5) Delivery Address – Central Stores, MIT WPU, Sr No 124, Kothrud, Pune.
- 7) If any material found damaged – need 100% replacement.
- 8) Gate Pass to be done @ Security Gate & then Material to be delivered @ Central Store.
- 9) Delivery timing – 10 am to 5 pm – between week days only.
- 10) Material to get checked @ stores for Quality & Quantity.
- 11) Delivery Period – As Mutually Agreed.
- 12) Last date to submit Quotations – 10/04/2023
- 13) Hard copy to be sent by Courier addressing to “ **Purchase Department, MIT-WPU**”.