

**BOQ FOR ELECTRICAL WORKS AT DRT PREMISES, 4TH FLOOR, BSNL BUILDING,
RAJBHAVAN ROAD, BENGALURU**

no.	Description of Work	Qty	Unit	Rate	Amount
1.2	METERING PANEL :			INR	
	Supply, Erection, Testing & Commissioning of 415V 3 Phase, 50 Hz, switchboards/panels/ PDBs with MCB, SDF units as per specification titled "415 Volts switch Boards", as per schematic drawing complete as required. Supply and erectionand fixing of steel supporting channels shall be measured in the same item. Grip bolts fasteners required for fixing on to floors will also be measured in the same item. Make: pavan controls/Thitanix				
A	MAIN DISTRIBUTION PANEL (As per Drg.)	1.00	Each		
	The panel having 250 A MCCB 25 KA as incomer with 250 A AL Bus bar with MDM, RYB Indications lamps, ELR with cbct relay				
	Out goings with on/off /trip				
	40 A 4 POLE MCCB 16 KA- 5 NOS				
	63 A 4 POLE MCCB 16 KA -5 NOS				
	32 A DP MCB 10 KA -3 NOS				
B	Supply and installation of the 40 A 4 POLE MCB 10 kA IN ENCLOSUE NEAR THE UPS OUT PUT	2.00	Each		
1.0	TOTAL FOR METER BOARD				
2.0	FACTORY BUILT MCB DB Seimens				
	Supply, Store, Erection, Testing & Commissioning of MCB,s, ELCB,s & ELMCB,s of motor duty, C-curve charcterstics Din rail mounted to be fixed in the above MCB Distribution Boards to suit any required combinations specified in the riser diagrams. With all the required accessories. MCB Distribution boards IP43,wall mounted (either surface or recess type) as per schematic drwawings.The erection rate shall include fixing of DB on wall including Supply and erectionof all fixing accessories,civil works etc.,Space provision shall be made for mounting ELCB in the incomer MCB.Supply,				
2.1	HORIZONTAL TYPE. DOUBLE DOOR TPN DB :				
A	8 Way TPN DB of Seimens				
	Incomer:1 No. 40 A ELMCB(RCBO-30mA)				
	Pjhase segregation 40A 2 pole MCB C CURVE				
	Outgoing: 10 nos 10 ASP MCB and 14 nos 16 A SP MCB C CURVE	2.00	Each		
2.3	SINGLE PHASE DB WITH DOUBLE DOOR :				
A	12Way DB of Seimensmake				
	UPS DB				
	Incomer:1 No. 40A DP MCB D CURVE				
	Outgoing: 10 NOS 16 A SP MCB D CURVE	2.00	Each		
A	8 Way DB of Seimensmake				
	EMERGENCY DB				
	Incomer:1 No. 25A DP ELMCB C CURVE				
	Outgoing6 Nos. 6A SP MCB C CURVE	2.00	Each		
2.0	TOTAL FOR FACTORY BUILT MCB DISTRIBUTION BOARD				
3.0	POWER AND CONTROL CABLES :				
3.1	Supply, laying and testing of 1.1KV Grade PVC insulated aluminium conductor steel armoured power cables as per the specification. The rates quoted shall be for laying in trays, cable trenches (indoor and outdoor), pipes, etc.				
	For buried cables, the excavation work will be included under the heading "Civil works for outdoor cable laying."				
A	3.5C x 150Sq.mm cable (A2XFY)(EB INCOMING APPROXIMATE LENGTH)				
	Supply and erection	70.00	Mtrs		
3.2	Supply, laying and testing of 1.1KV Grade PVC insulated Copper cables as per the specifications. The rates quoted shall be for				

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no.	Description of Work	Qty	Unit	Rate	Amount
	laying in trays, cable trenches (indoor and outdoor), pipes, etc.				
	For buried cables, the excavation work will be included under the heading "Civil works for outdoor cable laying."				
A	4Core x 10 Sqmm Cable (YFY)				
	Supply and erection	90.00	Mtr		
B	4Core x 16 Sqmm Cable (YFY)				
	Supply and erection	120.00	Mtr		
C	3 Core x 4 Sqmm Cable (YFY)				
	Supply and erection	20.00	Mtr		
D	3 Core x 2.5 Sqmm Cable (YFY)				
	Supply and erection	20.00	Mtr		
E	2 Core x 4 Sqmm Cable(YFY)				
	Supply and erection	20.00	Mtr		
3.3	<u>CIVIL WORKS FOR OUTDOOR CABLE LAYING :</u>				
	Preparation of outdoor cable trenches including excavation, back filling, sand filling, cable tiles, compaction as per specification, of the following sizes.				
A	Trench of width 450mm & depth 750mm.	RO	Mtr		
B	Trench of width 300mm & depth 450mm.	RO	Mtr		
3.4	<u>CABLE END TERMINATIONS :</u>				
	Supplying and providing the end terminations with copper cable lugs, Double compression brass cable glands, taping, crimping, gland and armour taping, earthing, etc. complete as required.				
A	3.5CX150 Sq.mm cable (A2XFY)				
	Supply and erection	2.00	Each		
B	4Core x 10 Sqmm Cable (YFY)				
	Supply and erection	4.00	Each		
C	4Core x 16 Sqmm Cable (YFY)				
	Supply and erection	8.00	Each		
D	3 Core x 4 Sqmm Cable (YFY)				
	Supply and erection	2.00	Each		
E	3 Core x 2.5 Sqmm Cable (YFY)				
	Supply and erection	2.00	Each		
F	2 Core x 4 Sqmm Cable(YFY)				
	Supply and erection	2.00	Each		
3.3 A	<u>CABLE TRAYS</u>				
9.1	GI LADDER TYPE CABLE TRAYS				
	Supply & erection of the following sizes ladder type cable tray made of 16 SWG hot dipped galvanised with necessar grip bolts,nuts, etc.,complete as required. The rate shall also include the stel items like cable tray support arrangement and any other steel items not covered in the schedule of quatities				
A	75X75X600 mm wide	RO	RMT		
B	75X75X450 mm wide	RO	RMT		
C	75X75X300 mm wide	RO	RMT		
D	50X50X150 mm wide	RO	RMT		
9.2	PERFORATED CABLE TRAYS :				
	Supply & erection of the following sizes perforated type cable tray made of 14 SWG HDG with necessary bolts, nuts,double washers, etc., complete, necessary supports, brackets, angle iron,suspension are measured separately under the heading "Steel Items". (THE RATE SHALL ALSO INCLUDE TOP COVER)				
A	750 mm wide x 75mm depth.	RO	RMT		
B	600 mm wide x 75mm depth..	RO	RMT		
C	450 mm wide x 75mm depth..	RO	RMT		
D	300 mm wide x 75mm depth..	RO	RMT		
E	150 mm wide x 50mm depth.	80	RMT		
	Supply and erection	60	Each		

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no.	Description of Work	Qty	Unit	Rate	Amount
9.3	FLOOR RACEWAYS				
A	600 mm wide x 40mm depth..	RO	RMT		
B	450 mm wide x 40 mm depth..	RO	RMT		
C	300 mm wide x 40 mm depth..	RO	RMT		
D	150 mm wide x 40 mm depth.	RO	RMT		
E	100 mm wide x 40 mm depth.	RO	RMT		
9.4	JUNCTION BOXES				
A	600X600	RO	Each		
B	450X450	RO	Each		
C	300X300	RO	Each		
D	150X150	RO	Each		
E	100X100	RO	Each		
3	TOTAL FOR POWER & CONTROL CABLES				
4.0	COMMERCIAL SWITCHES / SOCKETS & STARTERS				
	Supply, Erection, testing & commissioning of power points by providing following switches/ sockets mounted on suitable size MS boxes fixed flush/surface on to the wall with all fixing and wiring accessories complete as required of approved make.				
4.1	COMMERCIAL TYPE				
A	6 Amps, 3/5 pin (250V) single phase commercial type socket with 6 Amps SP switch . The pin configuration shall be round type. The socket shall be used for normal power, plug tops are excluded from the scope of supply.				
	The above will be of ANCHOR ROMA make or approved equivalent.				
	Supply and erection	190.00	Each		
B	6 Amps, 3/5 pin (250V) single phase commercial type socket with 6 Amps SP switch . The pin configuration shall be round type. The socket mounted along with other switches in the lighting switch box, plug tops are excluded from the scope of supply. (Dependent socket)				
	The above will be of ANCHOR ROMA make or approved equivalent.				
	Supply and erection	10.00	Each		
C	6/16 Amps, 5--pin (250 Volts) single phase universal socket with 16 Amps single pole switch with indicating lamp.The pin configuration shall be round type. Plug tops are excluded from the scope of supply.				
	Supply and erection FOR CASSETTE UNITS	35.00	Each		
D	Bank of 2 nos. 5 Amps (250 Volts) single phase universal socket with 16 Amps single pole switch with indicating lamp.The pin configuration shall be round type.				
	Plug tops are excluded from the scope of supply.				
	The above will be of ANCHOR ROMA make or approved equivalent.				
	Supply and erection	80.00	Each		
4	TOTAL FOR SWITCHES/SOCKETS/STARTERS				
5	SUBMAINS/CIRCUIT MAINS WIRING FOR RAW POWER:				
5.1	Supply and erection and running of 1100 V grade FRLS PVC insulated copper conductor wires in 2mm thick FRLS PVC conduits as per specification titled "DISTRIBUTION SYSTEM, CONDUITS, WIRING AND ACCESSORIES" and following details. The rate shall include Supply and erection and installation of all materials like conduits, wires, fixing accessories, etc. as detailed in Clause of above mentioned specification. Terminating wires on either ends by providing copper lugs, ferrules and carrying out surface / concealed wiring. Most of the area have false ceiling and conduits shall run exposed above false ceiling.				
	The rate shall also include grooving of walls, floors chipping, rough plastering, providing MS brackets for conduits as per specification. Circuit mains shall be measured from DB to switch board and looping from switch board to switch board				

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no.	Description of Work	Qty	Unit	Rate	Amount
A	2 x 2.5 + 1 x 1.5 sqmm FRLS WIRES in 19mm dia conduit.(LIGHTING CIRCUIT)				
	Supply and erection	675.00	Mtrs		
B	4 x 2.5 + 2 x 1.5 sqmm FRLS WIRES in 25mm dia conduit				
	Supply and erection	10.00	Mtrs		
C	2 x 4 + 1 x 2.5 sqmm FRLS WIRES in 25mm dia conduit(POWER CIRCUIT)				
	Supply and erection	1150.00	Mtrs		
D	2 x 10+ 1 x 6sqmm FRLS WIRES in 25mm dia conduit				
	Supply and erection	20.00	Mtrs		
E	2 x 6 + 1 x 4 sqmm FRLS WIRES in 25mm dia conduit(SUBMAIN)				
	Supply and erection	40.00	Mtrs		
F	4 x 6 + 2 x 4 sqmm FRLS WIRES in 32mm dia conduit				
	Supply and erection	10.00	Mtrs		
G	4 x 10 + 1 x 6 sqmm FRLS WIRES in 32mm dia conduit				
	Supply and erection	80.00	Mtrs		
5	TOTAL FOR SUBMAINS/CIRCUIT MAINS WIRING FOR RAW POWER				
6.0	POINT WIRING				
	Wiring with 2R x 1.5 sq.mm PVC insulated 1100V grade copper conductor wires				
	PVC insulated copper conductor wires as earth for lighting circuits in 19/25mm dia, 2mm thick, PVC conduits and as per specification, run both surface / concealed, title "Distribution system, conduit wiring and accessories". A separate neutral shall be run for each circuit. The rate shall include necessary ceiling / wall holders, switches, metal boxes. etc., complete as required. All switches, sockets, mounting boxes & all other accessories shall be of ANCHOR ROMA make or equivalent make.The length shall be up to 5 rmt for 1 liht point, 8 rmt for 2 light points, 12 rmt for 3 light points , 15m for the 4 lightpoints , 18rmt for the 5 light points and 21rmt for the 6 light points				
A	Single light point controlled by 6 amps switch. The above will be of ANCHOR ROMA make or approved equivalent.				
	Supply and erection	70.00	Each		
B	Two light point controlled by 6A switch (Combined rate for two points). The above will be of ANCHOR ROMA make or approved equivalent.				
	Supply and erection	40.00	Each		
C	Three light point controlled by 6A switch (Combined rate for two points). The above will be of ANCHOR ROMA make or approved equivalent.				
	Supply and erection	20.00	Each		
D	FOUR light point controlled by 6A switch (Combined rate for two points). The above will be of ANCHOR ROMA make or approved equivalent.				
	Supply and erection	20.00	Each		
E	Five light point controlled by 6A switch (Combined rate for two points). The above will be of ANCHOR ROMA make or approved equivalent.				
	Supply and erection	6.00	Each		

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no.	Description of Work	Qty	Unit	Rate	Amount
E	SIX light point controlled by 6A switch (Combined rate for two points).				
	The above will be of ANCHOR ROMA make or approved equivalent.				
	Supply and erection	5.00	Each		
G	Single light point controlled by two Nos. two way switch of 6A (combined rate for all necessary wiring complete etc.)				
	The above will be of ANCHOR ROMA make or approved equivalent.				
	Supply and erection	1.00	Each		
H	Ceiling fan point (with fan hook box) including 6 Amps single pole control switch with space for 300 Watts electronic regulator.				
	The above will be of ANCHOR ROMA make or approved equivalent.				
	Supply and erection	1.00	Each		
I	Exhaust fan point with wall mounted 5 Amps, 3 pin socket near fan location and 10 Amps single pole controlling switch located independently. The rate shall also include Supply and erection& Erection of 5 Amps, 3 pin plug.wiring for the same complete as required.				
	The above will be of ANCHOR ROMA make or approved equivalent.				
	Supply and erection	14.00	Each		
6	TOTAL FOR POINT WIRING				
7	SUPPLY ,ERECTION, TESTING & COMMISSIONING OF INDOOR LIGHTING FIXTURES / LAMPS / EXHAUST FANS / CALLING BELL				
7.1	ERECTION OF INDOOR LIGHTING FIXTURES / FAN.				
	Supply and installation of the led batten 28 W				
A	1 x 28W 4 FEER LED PATTI ceiling / wall mounted led fixture 5000 k LED Make: Philips/Panasonic				
	Supply and Erection	32.00	Each		
B	6W Recess mounted Mounted LED fitting of Make: Philips/Panasonic 5000 k				
	Supply and Erection	175.00	Each		
C	Supply and installation of the ceiling mounted lamp 12 W surface mounted /recess mounted with fitting with LED bulb Make: Philips/Panasonic sqaure 200x200 5000 k				
	Supply and Erection	2.00	Each		
D	Supply and installtion of the LED panel light 600x600 surface /recee mounted with 5000 k 32/36 w Philips /Panasonic including all mounting accessories and LED driver				
	Supply and Erection	145.00	Each		
E	Supply and installation of Mirror light fixture of approved by the consultant fixed on the wall above mirror including bulb with reflector covering the lamp for all wash basins.The samples to be approved by the architects				
	Supply and Erection	6.00	Each		
7.2	CEILING FANS:				
	Supply and erection& erection of white colour ceiling fan with double ball bearings, accessories, connecting wire and other standard accessories but excluding regulator.				
A	1200mm Sweep, 3 blade ceiling fan. 5 Star rating Havells make				
	SUPPLY	RO	Each		
B	600mm Sweep, 3 blade ceiling fan.				
	SUPPLY	RO	Each		
C	300 Watts electronic step regulator.				
	The above will be of ANCHOR ROMA make or approved equivalent.				
	SUPPLY	RO	Each		
7.3	WALL MOUNTING FANS:				
	Supply and erection& erection of heavy-duty wall-mounted				

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no.	Description of Work	Qty	Unit	Rate	Amount
	oscillating type fan as specified. adjustment & meshgaurd and other standard accessories, but excluding regulator.				
A	450 mm sweep Crompton/Havells				
	Supply and erection	84.00	Each		
7.4	<u>EXHAUST FANS:</u>				
7.4.1	Supply and erection& erection of exhaust fans with sheet metal blades, necessary brackets, anti-corrosive epoxy painting, rubber cushions, etc. The 5 Amps 3-pin socket near fan location & remote located single-pole controlling switch, are included in the point wiring for exhaust fan point.				
A	150 mm impeller dia, 1400 rpm exhaust DECORATIVE FANS				
	fan (single phase)	14.00	Each		
7.4.2	Supply, fabricating and storing of exhaust fan louvers consisting of steel frame work, hinged gravity louvers, etc. to suit the exhaust fan openings. The metal work shall be painted with 2 coats of primer and epoxy paint of approved colour.				
7	TOTAL FOR LIGHTING FIXTURES/EXHAUST FAN				
8	<u>TELEPHONE & TV SYSTEM :</u>				
8.1	<u>TELEPHONE CABLES :</u>				
	<u>JELLY FILLED CABLES :</u>				
	Supply and erection& erection of telephone cables,armoured, annealed tinned copper conductor and petroleum jelly filled with polythene outer jackets conforming to P&T specification. The method of laying shall be similar to power cables. Telephone cables shall be run in a separate trench at least 600 mm away from other power cables. (The civil works for excavation will be included under heading "Civil Works for Outdoor Cable Laying). This rate shall include cable end terminations also using kits,cable glands, cable lugs, etc. as required, complete.				
A	50 Pair Cables. (Armoured cable)				
	SUPPLY	RO	Mtr		
B	20 Pair Cables. (Armoured cable)				
	SUPPLY	50.00	Mtr		
C	10 Pair Cables. (Armoured cable)				
	SUPPLY	RO	Mtr		
D	5 Pair Cables. (Armoured cable)				
	SUPPLY	RO	Mtr		
8.2	<u>TELEPHONE JUNCTION BOXES :</u>				
	Supply and erection& erection of suitable 16 Guage M.S. box with 5 Amps rated terminal modules and covered with 5 mm thick perspex sheet/M.S. cover flush mounted in wall as required complete.				
A	50 Pair Telephone junction box				
	SUPPLY	RO	Each		
B	20 Pair Telephone junction box				
	SUPPLY	1.00	Each		
C	10 Pair Telephone junction box				
	SUPPLY	RO	Each		
D	5 Pair telephone junction box				
	SUPPLY	1.00	Each		
8.3	<u>TELEPHONE/COMPUTER SOCKETS :</u>				
A	Supply and erection& erection of Telephone/Internet/computer socket outlet comprising of plate with RJ-45 outlets lucent certified with MS boxes.				
	The above will be of ANCHOR ROMA make or approved equivalent.				
	SUPPLY	155.00	Each		

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no.	Description of Work	Qty	Unit	Rate	Amount
8.4	<u>TELEPHONE WIRES :</u>				
	Supply and erection of 0.51 mm tinned copper conductor unarmoured PVC insulated telephone wires in existing conduits.				
A	Two Pair (for Telephone)	201.00	Mtr		
B	CAT 6 Cable UTP	1200.00	Mtr		
C	Supply of the patch chord of 1.5 m length	140.00	each		
D	Supply & fixing of LAN patch panel CAT-6, 24 PORT jack panel and terminating CAT-6 LAN cables from information outlets.	4	NOS		
E	25MM PVC Conduit pipe / Channel	800	MTR		
F	S.I.T.C of 42 U network rack size of 42 u, width 800mm depth 800mm, Door Type - Steel, vented at bottom, fully perforated Racks to be supplied with 2 numbers of PDUs each having a minimum of 4 ports. All complete as per standard specifications. President or equivalent company.	1	NOS		
G	Cable manager 19" x 1 U	100	NOS		
	<u>DUMMY CONDUITS FOR TELEPHONE&TV CABLE</u>				
8.5	19 mm PVC. Conduit for telephone cable				
A	SUPPLY	RO	Mtr		
B	25 mm PVC. Conduit for tv cables	1200.00	Mtr		
C	SUPPLY	RO	Mtr		
	32 mm PVC conduit				
	SUPPLY	RO	Mtr		
	<u>TV CABLES:</u>				
8.6	Supply and erection and laying of T.V. 75 Ohms Co-axial cable Existing 25mm dia., 2mm thick PVC conduit.				
	SUPPLY	RO	Mtr		
	T.V.point with necessary m.s. boxes with front cover with T.V.socket complete as required.				
8.7	The above will be of ANCHOR ROMA make or approved equivalent.				
	SUPPLY	RO	Each		
	4 Way T.V.splitter for connecting 3 points in flat with necessary m.s. boxes & other required accessories complete as required.				
8.8	Supply	RO	each		
	8 Way T.V.splitter for connecting 5 points in flat with necessary m.s. boxes & other required accessories complete as required.				
8.9	Supply	RO	each		
	<u>DUMMY CONDUITS FOR CCTV&FIRE DETECTORS CABLE/WIRES</u>				
8.10	19 mm PVC. Conduit for telephone cable				
A	SUPPLY	RO	Mtr		
B	25 mm PVC. Conduit for tv cables	500.00	Mtr		
	SUPPLY	RO	Mtr		
	<u>DUMMY CONDUITS:</u>				
8.11	<u>16SWG M.S.CONDUIT</u>				
	19 mm M.S. conduit				
A	SUPPLY	RO	Mtr		
B	25 mm M.S. conduit				
	SUPPLY	RO	Mtr		
C	32 mm M.S. conduit				
	SUPPLY	RO	Mtr		
	TOTAL FOR TV / TELEPHONE SYSTEM				
8	<u>EARTHING SYSTEMS</u>				

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no.	Description of Work	Qty	Unit	Rate	Amount
9	<u>EARTHING STATIONS:</u>				
9.1	Providing the earth stations with necessary materials, labour, civil works, etc. as per Indian Standard specification IS:3043 etc. complete.				
	3 mtrs long 50 mm dia. G.I pipe electrode earth station.The chamber size shall be 450 x 450 mm with C.I. Cover plate. The identification number shall be provided both inside and outside.				
A	SUPPLY	4.00	Each		
	600 x 600 x 3.15 mm copper plate electrode earth station. The chamber size shall be 450 x 450 mm with C.I. Cover plate. The identification number shall be provided both inside and outside of equipment.				
B	SUPPLY	4.00	Each		
	<u>EARTHING TAPES/WIRES:</u>				
9.2	Supply and erectionand running of earth tapes / wires as per specification, complete. Erection rate shall be for both indoor and outdoor inclusive of earth excavation work.				
	50 x6 mm GI tape (Hot dip galvanised)				
A	SUPPLY	RO	Mtr		
	40 x 6 mm GI tape (Hot dip galvanised)				
B	SUPPLY	30.00	Mtr		
	25 x 3 mm GI tape (Hot dip galvanised)				
C	SUPPLY	60.00	Mtr		
	25 x 6mm CU tape				
C	SUPPLY	RO	Mtr		
	8 SWG GI wire				
D	SUPPLY	240.00	Mtr		
	10 SWG Copper wire				
E	SUPPLY	60.00	Mtr		
9	TOTAL FOR EARTHING SYSTEM				
10	<u>MISCELLANEOUS ITEMS :</u>				
	<u>PIPES :</u>				
10.1	Supply and erectionand laying of pipes in wall/floor				
	/in ground including chipping/excavation				
	laying and making good the surface as				
	required. Any collars and bends and				
	nipples required shall be laid at a				
	depth of 900 mm below ground level or				
	under paved areas/under floor as				
	required.				
	50 /32mm dia Class 'B' GI pipe.				
A		RO	Mtr		
	100 mm dia PVC pipe 4 mm thickness				
B	with bends, collars, etc.				
		RO	Mtr		
	150 mm dia Hume pipe.				
C		RO	Mtr		
10	TOTAL FOR MISCELLANEOUS ITEMS				
11	Supply and installation of 1 kva inverter with 2 hours back for Emerger	2.00	Nos		
11	TOTAL FOR MISCELLANEOUS ITEMS				

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	<u>A B S T R A C T</u>				
	MEDIUM VOLTAGE SWITCHBOARDS				
1					
	FACTORY BUILT MCB DISTRIBUTION BOARDS				
2					
	POWER AND CONTROL CABLES				
3					
	SWITCHES/SOCKETS/STARTERS				
4					
	SUBMAINS / CIRCUIT MAINS / POWER CIRCUITS				
5					
	POINT WIRING				
6					
	Supply and erection,ERECTION, TESTING & COMMISSIONING OF INDOOR FIXTURES / LAMPS / CEILING & EXHAUST FANS / CALL BELLS				
7					
	TV & TELEPHONE SYSTEM				
8					
	EARTHING SYSTEM				
9					
	MISCELLANEOUS ITEMS				
10					
	INVERTER				
11					
	SUB TOTAL				
	GST				
	TOTAL				
	GRAND TOTAL				