

Price Bid for "Electrical Works (Phase - 1) at 3rd Floor of Indian Bank, Head Office Main Building, No:66, Rajaji Salai, Chennai - 600 001"

Price Bid for Electrical works (Phase -1) at 3rd Floor of Indian Bank, Head Office , Main Building , No: 66, Rajaji Salai, Chennai 600 001.

SI No	DESCRIPTION	UNIT	QTY	SUPPLY		ERECTION	
				RATE	AMOUNT	RATE	AMOUNT
	<p>ABBREVIATION : S E T C : Supply, erection, testing & Commissioning. <u>I.T.C : Installation, Testing & Commissioning.</u> <u>E.T.C : Erection, Testing & Commissioning</u></p>						
I	<u>PART-A DISTRIBUTION BOARDS</u>						
	<u>NOTE :</u>						
a	THE MCB' S IN THE MCB DB SHALL BE OF APPROPRIATE DUTY (CURVE) DEPENDING ON THE CONNECTED LOAD.THE MCB SHALL BE OF 10KA RUPTURING CAPACITY.						
b	THE MCB DB SHALL BE PROVIDED WITH SUITABLE BUS BARS, INTERLINKS, NEUTRAL LINK, EARTH LINKS, EARTH LABELS, DESIGNATION LABELS, COMPART- MENT & INTER-COMPARTMENT SHROUDS ETC. AS PER REGULATORY MEASURES AND THE SIZE OF THE DB's SHALL BE AS PER THE SITE REQUIREMENT / CONDITION. THE DB's SHOULD BE INSTALLED EITHER CONCEALED / SURFACE MOUNTED WITH REQUIRED ACCESSORIES AS PER SITE CONDITION.						
c	THE DB'S SPECIFIED HEREIN UNDER SHALL BE PROVIDED WITH SUITABLE SIZE ADOPTER BOX WITH SHROUDED CONNECTOR SAND WITH INTERCONNECT- ING SUITABLE SIZE SOLID LINKS / COPPER WIRES TO TAKE THE AL. AR. CABLE AS SPECIFIED ELSE WHERE IN THE TENDER.						
1	S E T C of double door Industrial pattern SPN MCB DB for 3F Lighting load (with C curve MCB's) comprising of :- a) "1 - 32A 2 Pole MCB as incomer. 14 - 6/10A SP MCB as outgoing to loads."	Set	3				
2	S E T C of compartmental type phase segregated double door industrial pattern MCB DB for 3F Raw / AC Power load (with C curve MCB's) comprising of :- a) "1 - 63A 4 Pole MCB as incomer. 3 - 63A DP 100mA RCCB as phase isolation. 24 - 16A/20A SP MCB as outgoing to loads."	Set	2				

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3	S E T C of compartmental type phase segregated double door industrial pattern MCB DB for 3F UPS Power load (with C curve MCB's) comprising of :- a) "1 - 63A 4 Pole MCB as incomer. 3 - 63A DP MCB as phase isolation . 24 - 16A/20A SP MCB as outgoing to loads ."	Set	1				
4	S E T C of VTPN double door industrial pattern MCCB/MCB DB for 3F UPS Power load (with C curve MCCB/MCB's) comprising of :- a) "1 - 100A 4P MCCB 16KA as incomer. 4 - 63A TP MCB as outgoing to loads. 6 - 32A SP MCB as outgoing to loads."	Set	1				
5	S E T C of VTPN type double door industrial pattern MCCB/MCB DB for 3F Lighting load (with B curve MCB's) comprising of :- a) "1 - 125A 4P MCCB 16KA as incomer. 2 - 63A TP MCB as outgoing to loads. 6 - 40 A SP MCB as outgoing to loads."	Set	1				
6	Supply & Installation of 100/ 63 Amps -300 ma RCCB with Weather proof enclosure (IP 67)	Set	2				
	PART-A SUB-TOTAL						

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II	<u>PART-B POINT WIRING (WITH MODULAR SWITCHES / SOCKETS)</u>						
1	Supply and wiring for the following Light, Exhaust Fan, 6A independent socket outlets points, using 2.5 Sqmm multi-strand copper conductor 660 Volts Grade ZHFR PVC insulated wires drawn through suitable dia concealed PVC FRLS conduit of thickness not less than 2mm conform to I.S. with all necessary conduit accessories such as junction boxes bends, couplings etc. The wiring for points should include providing 1.5 Sqmm ZHFR PVC insulated Green colour copper conductor wire loop earth, Modular switch/ receptacles mounted insuitable size Phospated MS switch box front plate etc. required to complete the point wiring in full as per IS 732 with latest revision whether or not all materials required specifically brought in here. Thespecified conduit shallbe laid in roof slab requirement of site condition. <u>The rate shall include embedding pipes, accessories etc, in wall / ceiling including necessary chasing on wall making the surface good etc.The surface conduits Shall be PVC FRLS of 2mm thick of required size. The point rate should include cost of circuit/sub-circuit wiring also (ie) Run of 3R 2.5 Sqmm conductor ZHFR PVC insulated wire drawn through surface PVC FRLS conduit with all conduit accessories from distribution board to switch box and, switch box to switch box & switch box to primary points each circuit shall be limited to 800W or 10 points which ever is less.</u> The circuit wiring should be independent of point wiring (The point wiring length may be considered 6 Mtrs. Length appx.)						
a)	Single light point controlled by one 6A Modular switch all complete.	Pts.	15				
b)	Two light point controlled by one 6A Modular switch all complete.	Pts.	12				
c)	Three light point controlled by one 6A Modular switch all complete.	Pts.	1				
d)	Four light point controlled by one 6A Modular switch all complete.	Pts.	1				

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2	<p>Supply and wiring for the following group control light points with materials as etc.as initem above 2.5 Sqmm multi-strand copper conductor 660V grade ZHFR wires drawn through suitable dia PVC FRLS conduitconduit of thickness not less than 2mm conform to IS with all necessary conduit accessories such as junction boxes bends, couplings etc. The wiring for points should include providing 2.5 Sqmm ZHFR Green colour copper conductor loop earth, as required to complete the point wiring in full as per IS 732 with latest revision whether or not all materials required are specifically brought in here or not. The specified conduit shall be laid in roof slab in surface pattern as per requirement of site condition. <u>The rate shall include embedding pipes, accessories etc. in wall / ceiling including necessary chasing on wall making the surface good etc. as per site requirement. The point rate should include cost of circuit /sub-circuit wiring also (ie) Run of 3R 2.5 Sqmm copper conductor ZHFR wire drawn through PVC conduit of 2mm thickness with all conduit accessories from DB Each circuit shall belimited to 800W (or) 10 Pts. whichever is less. Each of the Secondary point length shall be minimum of 4 Mtrs. Rates shall be quoted as a group taking both the primary (21 mtrs) and the number of Secondary points (4Pts) in each of the group .(The primary or to secondary and sub-sequent connection shall be in an alternate manner as per Architect/ Consultants instruction.) Emergency light points should be grouped seperately.</u></p>	Grps	3				

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3	<p>Supply and wiring for the following group control light points with materials as etc.as initem above 2.5 Sqmm multi-strand copper conductor 660V grade ZHFR wires drawn through suitable dia PVC FRLS conduit of thickness not less than 2mm conform to IS with all necessary conduit accessories such as junction boxes bends, couplings etc. The wiring for points should include providing 2.5 Sqmm ZHFR Green colour copper conductor loop earth, as required to complete the point wiring in full as per IS 732 with latest revision whether or not all materials required are specifically brought in here or not. The specified conduit shall be laid in roof slab in surface pattern as per requirement of site condition. The rate shall include embedding pipes, accessories etc. in wall / ceiling including necessary chasing on wall making the surface good etc. as per site requirement. <u>The point rate should include cost of circuit /sub-circuit wiring also (ie) Run of 3R 2.5 Sqmm copper conductor ZHFR wire drawn through PVC FRLS conduit of 2mm thickness with all conduit accessories from DB Each circuit shall belimited to 800W (or) 10 Pts. whichever is less. Each of the Secondary point length shall be minimum of 4.5 Mtrs. Rates shall be quoted as a group taking both the primary (21 mtrs) and the number of Secondary points (5 Pts) in each of the group.</u> (The primary or to secondary and sub-sequent connection shall be in an alternate manner as per Architect/ Consultants instruction.) Emergency light points should be grouped seperately.</p>	Grps	6				

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4	Supply and wiring for the following group control light points with materials as etc.as initem above 2.5 Sqmm multi-strand copper conductor 660V grade ZHFR wires drawn through suitable dia PVC FRLS conduit of thickness not less than 2mm conform to IS with all necessary conduit accessories such as junction boxes bends, couplings etc. The wiring for points should include providing 2.5 Sqmm ZHFR Green colour copper conductor loop earth, as required to complete the point wiring in full as per IS 732 with latest revision whether or not all materials required are specifically brought in here or not. The specified conduit shall be laid in roof slab in surface pattern as per requirement of site condition. The rate shall include embedding pipes, accessories etc. in wall / ceiling including necessary chasing on wall making the surface good etc. as per site requirement. The point rate should include cost of circuit /sub-circuit wiring also (ie) Run of 3R 2.5 Sqmm copper conductor ZHFR wire drawn through PVC FRLS conduit of 2mm thickness with all conduit accessories from DB Each circuit shall belimited to 800W (or) 10 Pts. whichever is less. Each of the Secondary point length shall be minimum of 5 Mtrs. Rates shall be quoted as a group taking both the primary (19 mtrs) and the number of Secondary points (6 Pts) in each of the group .(The primary or to secondary and sub-sequent connection shall be in an alternate manner as per Architect/ Consultants instruction.) Emergency light points should be grouped seperately.	Grps	5				

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5	<p>Supply and wiring for the following group control light points with materials as etc.as initem above 2.5 Sqmm multi-strand copper conductor 660V grade ZHFR wires drawn through suitable dia PVC conduit of thickness not less than 2mm conform to IS with all necessary conduit accessories such as junction boxes bends, couplings etc. The wiring for points should include providing 2.5 Sqmm ZHFR Green colour copper conductor loop earth, as required to complete the point wiring in full as per IS 732 with latest revision whether or not all materials required are specifically brought in here or not. The specified conduit shall be laid in roof slab in surface pattern as per requirement of site condition. <u>The rate shall include embedding pipes, accessories etc. in wall / ceiling including necessary chasing on wall making the surface good etc. as per site requirement. The point rate should include cost of circuit /sub-circuit wiring also (ie) Run of 3R 2.5 Sqmm copper conductor ZHFR wire drawn through PVC FRLS conduit of 2mm thickness with all conduit accessories from DB Each circuit shall belimited to 800W (or) 10 Pts. whichever is less. Each of the Secondary point length shall be minimum of 5 Mtrs. Rates shall be quoted as a group taking both the primary (15 mtrs) and the number of Secondary points (9 Pts) in each of the group .</u>(The primary or to secondary and sub-sequent connection shall be in an alternate manner as per Architect/ Consultants instruction.) Emergency light points should be grouped seperately.</p>	Grps	1				

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6	<p>Supply and wiring for the following group control light points with materials as etc.as initem above 2.5 Sqmm multi-strand copper conductor 660V grade ZHFR wires drawn through suitable dia PVC FRLS conduit of thickness not less than 2mm conform to IS with all necessary conduit accessories such as junction boxes bends, couplings etc. The wiring for points should include providing 2.5 Sqmm ZHFR Green colour copper conductor loop earth, as required to complete the point wiring in full as per IS 732 with latest revision whether or not all materials required are specifically brought in here or not. The specified conduit shall be laid in roof slab in surface pattern as per requirement of site condition. <u>The rate shall include embedding pipes, accessories etc. in wall / ceiling including necessary chasing on wall making the surface good etc. as per site requirement. The point rate should include cost of circuit /sub-circuit wiring also (ie) Run of 3R 2.5 Sqmm copper conductor ZHFR wire drawn through PVC FRLS conduit of 2mm thickness with all conduit accessories from DB Each circuit shall belimited to 800W (or) 10 Pts. whichever is less. Each of the Secondary point length shall be minimum of 5 Mtrs. Rates shall be quoted as a group taking both the primary (10 mtrs) and the number of Secondary points (12 Pts) in each of the group .</u>(The primary or to secondary and sub-sequent connection shall be in an alternate manner as per Architect/ Consultants instruction.) Emergency light points should be grouped seperately.</p>	Grps	1				

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7	<p><u>EMERGENCY LIGHT POINT</u> Supply and wiring for the following group control light points with materials as etc.as initem above 2.5 Sqmm multi-strand copper conductor 660V grade ZHFR wires drawn through suitable dia PVC FRLS conduit of thickness not less than 2mm conform to IS with all necessary conduit accessories such as junction boxes bends, couplings etc. The wiring for points should include providing 2.5 Sqmm ZHFR Green colour copper conductor loop earth, as required to complete the point wiring in full as per IS 732 with latest revision whether or not all materials required are specifically brought in here or not. The specified conduit shall be laid in roof slab in surface pattern as per requirement of site condition. <u>The rate shall include embedding pipes, accessories etc. in wall / ceiling including necessary chasing on wall making the surface good etc. as per site requirement. The point rate should include cost of circuit /sub-circuit wiring also (ie) Run of 3R 2.5 Sqmm copper conductor ZHFR wire drawn through PVC FRLS conduit of 2mm thickness with all conduit accessories from DB Each circuit shall belimited to 800W (or) 10 Pts. whichever is less. Each of the Secondary point length shall be minimum of 10 Mtrs. Rates shall be quoted as a group taking both the primary (10 mtrs) and the number of Secondary points (9 Pts) in each of the group .</u>(The primary or to secondary and sub-sequent connection shall be in an alternate manner as per Architect/ Consultants instruction.) Emergency light points should be grouped seperately.</p>	Grps	2				
8	Supply and wiring for 3R of 2.5 Sqmm multi-strand ZHFR copper conductor 660V grade wire (one wire shall be of green colour) in ISI marked suitable size PVC FRLS conduit with all standard accessories all complete as circuit wiring from AC DB to indoor units etc.	Mtrs.	700				
9	Supply and fixing 6A 1 Way modular switch and 6A 3pin shuttered modular socket outlet with plug. In the light control switch box itself with necessary wiring. (The size of the light control switch box shall be suitable to accommodate the above with necessary front plate) etc. all complete.	Nos	4				

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10	Supply and Fixing of 2 nos of 6A 3 Pin Universal sockets controlled by 16 A switch mounted on suitable modular front plate	Nos	60				
11	Supply and Fixing of 3 nos of 6A 3 Pin Universal sockets controlled by 16 A switch mounted on suitable modular front plate	Nos	16				
12	Supply & fixing of 6A Independent socket outlet point including providing 6A 3 pin Modular shuttered socket outlet controlled by 6A Modular switch.	Nos	100				
13	Supply & fixing 6/16A 5 pin shuttered socket outlet with front plate controled by 16A single way control switch in PVC switch box, accessories as required per site conditions.at locations required. As per site conditions.	Nos	35				
14	Supplying and fixing of following sizes of medium class PVC FRLS conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required - Size-25 mm	meter	50				
15	Supply & fixing of 6 module floor popup box with the following switch and sockets and accessories etc as required. 3 Nos-6A 5 pin socket 2 Nos - 6A switch 1 No-RJ - 45 data socket 1 No-RJ - 45 Telephone socket 1 No-HDMI socket	Set	2				
16	Supply and run of following sizes of copper/ Alu flat from earth electrode to neutral terminals transformer and other requiered locations as per statutory requirements and neatly clamped to cable tray with necessary hardwares, PVC FRLS conduits at places required as directed by Architect/Bank- 16 SWG Bare Copper.	Mts	30				
17	Supply and wiring for 2R of 4Sqmm +1R of 2.5 Sqmm multi-strand FRLS copper conductor 660V grade wire (one wire shall be of green colour)in Suitable size FRLS PVC conduit with all standard accessories all complete as required for 6/16A power sockets from PDB, AC DB to power circuits etc.	Mtrs.	120				

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18	Supply, Laying, Testing and Commissioning of 3 Core 2.5sqmm FRLS copper Flexible Cables in existing PVC conduit pipe / Race ways complete with all accessories like junction boxes, rubber bushes etc.as required.(Black Colour - Raw Power Sockets)	Mtrs.	1000				
19	Supply, Laying, Testing and Commissioning of 3 Core 2.5sqmm FRLS copper Flexible Cables in existing PVC conduit pipe / Race ways complete with all accessories like junction boxes, rubber bushes etc.as required. (White Colour - UPS Power Sockets)	Mtrs.	800				
20	Supplying and fixing of following sizes of medium class PVC FRLS conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. A) 25 mm	Mtrs.	250				
	PART-B SUB-TOTAL						
III	<u>PART-C CABLES AND TERMINATIONS</u>						
1	LT CABLES						
1.1	Supply and laying of following sizes of 1.1KV grade XLPE insulated armoured FRLS grade cable with aluminium conductor multistrand cable with ISI markings of approved make and quality from Existing AHU room Panel to various switch boards / Distribution boards . The cable shall be laid in the cable trays, racks (excluding supply & erection of cable trays / racks) Wherever cable are required to be laid on wall, base bracket fitted onto wall / ceiling and necessary clamps/ hardware etc. all complete and the rate for such clamps, hardware shall be included in the scope. Before laying the cable approval for the routing and the manner of laying shall be obtained from the Architect / Owner.						
a	3.5C 35 Sqmm Al. Ar.Cable	Mtrs.	50				
b	3.5C 50 Sqmm Al. Ar.Cable	Mtrs.	60				
c	4C 70 Sqmm Al. Ar.Cable	Mtrs.	60				
d	4C 25 Sqmm Al. Ar.Cable	Mtrs.	150				
e	4C 16 Sqmm CU Ar.Cable	Mtrs.	25				
f	3C 10 Sqmm Al. Ar.Cable	Mtrs.	100				
g	3C 6 Sqmm Al. Ar.Cable	Mtrs.	30				

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2.0	LT CABLE TERMINATION						
2.1	Supply and providing cable end termination for following sizes of 1100V grade XLPE insulated armoured FRLS grade aluminium conductor multi-strand cable with necessary gland sand jointing materials etc. all as per requirement.						
a	3.5C 35 Sqmm Al. Ar.Cable	Nos	4				
b	3.5C 50 Sqmm Al. Ar.Cable	Nos	2				
c	4C 70 Sqmm Al. Ar.Cable	Nos	2				
d	4C 25 Sqmm Al. Ar.Cable	Nos	4				
e	4C 16 Sqmm Al. Ar.Cable	Nos	2				
f	3C 10 Sqmm Al. Ar.Cable	Nos	4				
g	3C 6 Sqmm Al. Ar.Cable	Nos	2				
3	CABLE TRAY / MARKERS & TERMINAL BOX						
3.1	Design, Fabricating, Supply and Installing varies type MS supports for cable tray to suit to withstand the weight of the number of cables to be laid as per the site requirement. The Supports of cable trays shall be fabricating out of 25mm x 25mm x 6mm angle iron with necessary welded cross supports of size 25mm x 6mm MS flat (or) 10mm threaded rod with tray support from roof as may be required. The rate shall be include all supporting brackets, Anchor Fastners including epoxy painting of cable trays.	Kgs	150				
3.2	Supply, erection, testing & commissioning of following sizes of GI ladder type (above 300 mm) / upto 300 perforated type cable trays including Tees, Bends etc. with accessories as required by the site condition. The cable racks shall be suspended from ceiling supported from side walls in columns etc. with adequate size supporting angles / channels with fastners, welding, anchor bolts, nuts etc. The rack shall have suitable cable clamping arrangements etc.						
a	450mm	Mtre	40				
b	150mm	Mtre	40				
3.3	Cable identification tags made out of round aluminium plates of thickness not less than 3mm and tying with cable with appropriate intravels for cable emanating from individual SSB. The work should be carried out as required by Inspecting Authorities as well as satisfaction of Architect.	Nos.	20				
	PART-C SUB-TOTAL						

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IV	<u>PART-D EARTH & EARTH CONNECTION</u>						
1	Supply and run of following sizes of copper/ Alu flat from earth electrode to neutral terminals of transformer and other required locations as per statutory requirements and neatly clamped to wall, cable tray with necessary hardwares, PVC FRLS conduits at places required as directed by Architects / Consultants.						
a)	25 x 6mm GI. flat.	Mtrs.	100				
b)	No. 8 SWG copper	Mtrs.	100				
c)	Supply & Laying of 2R x 16 sqmm FRLS Green Colour Earth wire in 25 mm PVC conduit. With all accessories from 1st Floor UPS room to 3rd floor Duct Room VTPN UPS DB & 7segment Sub DB in service room.	Mtrs	150				
2	Supplying & providing an earth link made out of copper approximately 450mm long with 25 x 6mm copper flat with 2 Nos.20mm long 3mm dia brass bolt & nut with 30A cable end sockets connected to the main earth strip running along the vertical earth bus in the cable tray, 8 Nos.outgoing connection to be tapped from the strip with 20mm long 3mm dia brass bolt & nut and 30A cable end socket to get connected to the 2 Nos.6 Sqmm multi-stranded copper wire.	Nos.	2				
	PART-D SUB-TOTAL						
V	<u>PART-E LUMINARIES</u> General Requirement of Light Fittings: LEDS-LOW POWER ONLY: 2-MECADUM-LEVEL- with manufacturers certificate. Driver : 120V to 270V 50HZ with ISI or CE Certificate. (With Surge Protector of 2.5 to 3KV. along with separate earthing stud.) Lumen Maintenance Certificate: LM-80 Lumens test certificate: LM-79 System Lumen efficiency: >120 Lm/W CRI : >80 THD-I : < 10% Power factor:> 0.9 BURNING HOURS : 40000 HOURS-Minimum						
1	Installation & commissioning of recessed mounting 28 to 30W LED 2x2 down lighter (above 100 lu/w) with necessary ,driver, interconnecting wires & fixing hardwares etc , (6500K)	Nos.	87	----	----		

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2	Installation & commissioning of recessed mounting 18W LED down lighter with necessary ,driver, interconnecting wires & fixing hardwares etc , (4000K)	Nos.	26	----	----		
3	Installation & commissioning of recessed mounting 9W LED spot light with necessary ,driver, interconnecting wires & fixing hardwares etc , (4000K)	Nos.	2	----	----		
4	Installation & Commissioning of LED STRIP lights including driver, mounting arrangement, hardwares, etc. The wattge shall not exceed 5W per meter (one diver per three meter)	Mtr	10	----	----		
5	Supply, Installation Testing & commissioning of PIR Sensors (motion sensor 5 meter coverage area) for the light points to be fitted on to ceiling as per site requirement with necessary frame, diffuser,driver, interconnecting wires & fixing hardwares etc.	Nos.	2				
6	Installation & commissioning of recessed mounting 30W LED down lighter with necessary ,driver, interconnecting wires & fixing hardwares etc , (4000K)	Nos.	2	----	----		
7	Installation & commissioning of suspended (500mm) 1200mm length 36 to 40W LED Tube light fitting to be fitted on to ceiling as per site requirement with necessary frame ,diffuser,driver, interconnecting wires & fixing hardwares etc. , (6500K)	Nos.	3	----	----		
	PART-E SUB-TOTAL						
VI	<u>PART-F LOW VOLTAGE SYSTEM</u>						
1	<u>TELEPHONE & DATA</u> <u>NOTE:</u> 1.Qtys are tentative subjected to change based on clients requirement.						
1.1	Supplying and fixing RJ 45 modular type data socket outlet and modular plate in cadmium / GI plated MS box including making connections etc as required. (Including termination/crimping at both the sides)	Each	175				
1.2	Supply and drawing of CAT6 cable in existing surface in floor Raceway complete as required. (Including termination/crimping at both the sides)	Mtrs.	6500				
1.3	Supply and fixing of CAT 6 RJ45 Jack complete as required for data socket. (Including termination/crimping at both the sides)	Each	350				
1.4	Supplying and fixing RJ 45 modular type telephone socket outlet and modular plate in cadmium / GI plated MS box including making connections etc as required. (Including termination/crimping at both the sides)	Each	75				
1.5	Supply and fixing of CAT 6 RJ45 Jack complete as required for telephone socket. (Including termination/crimping at both the sides)	Each	150				

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1.6	Supplying and fixing modular type TV socket outlet and modular plate in cadmium / GI plated MS box including making connections etc as required.	Each	2				
2	<u>FLOOR RACE WAYS / CONDUITS</u>						
2.1	Supply, laying and installation of following trapezoidal PVC floor ducting supplied in three meters per length including trunk connector, clamp, vertical/ horizontal bend etc in screed floor or on wall in line with EN 50085 including chasing and refilling the trench as per the route shown in the drawing and approved by consultant/ client at site including clamping & closing the open ends temporarily by suitable end covers against entry of dust or any foreign materials. Installation rates of PVC trunk should be inclusive of necessary hardware and arrangement required for fixing of trunk with duct connector and fastening clamp. This activity also includes Duct connector, Fastening Clamp alongwith associated accessories. (Including Floor Cutting & after laying side and top pacing with cement concrete 1:5 ratio of the Existing floor the floor level should be same from original level) Make : OBO , Legrand.						
a	90 mm wide x 35 mm deep trapezoidal UPVC duct with 2 mm thick	Mtrs	240				
b	60 mm wide x 25 mm deep trapezoidal UPVC duct with 2 mm thick	Mtrs	200				

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2.2	<p>Supply and installation of following floor junction box height adjustable from 60 to 75 mm with GI Powder coated trap and frame fitted with 2+3 mm Trap + GI load plate in line with EN 50085 suitable for 1.5 KN loading class with 10 mm floor covering protection flange complete with UPVC duct entries on all four sides and necessary recess for accomodating floor finsihing material. The floor junction Trap, Frame, load plate and protection flange needs to be powder coated colour matched to the final floor finishing as per architect's choice. Make - OBO , Legrand</p> <p>The base floor boxes need to be supplied with height adjusting pillars in four corners for the first fix installation. GI hardware to make the installation complete, like supply of necessary screed anchors and grouting etc. including breaking walls, floors, etc. for structures as required including supply of all GI hardware materials, all labour and materials complete as per approved drawings, specifications of this tender and directions of Engineer-in-charge including minor civil work. (Make : OBO, Legrand)</p>						
a	<p>358 mm x 358 mm GI under floor box suitable for three run of 90 x 35 mm UPVC Duct entries on all side complete with screeding cover and 358 mm x 358 mm square GI + Powder coated inspection cover complete with load plate colour matched to the floor finish with the RAL colour code confirmed by the architect. The floor boxes need to be supplied with 10 mm floor covering protection flange all around the trap and frame. (Make : OBO, Legrand)</p>	No	17				
b	<p>260 mm x 260 mm GI under floor box suitable for two runs of 90 x 35 mm UPVC Duct entries on all side complete with screeding cover and 266 mm x 266 mm square GI + Powder coated inspection cover complete with load plate colour matched to the floor finish with the RAL colour code confirmed by the architect. The floor boxes need to be supplied with 10 mm floor covering protection flange all around the trap and frame. (Make : OBO, Legrand)</p>	No	30				
c	<p>185 mm x 185 mm GI under floor box suitable for single run of 90 x 35 mm UPVC Duct entries on all side complete with screeding cover and 186 mm x 186 mm square GI + Powder coated inspection cover complete with load plate colour matched to the floor finish with the RAL colour code confirmed by the architect. The floor boxes need to be supplied with 10 mm floor covering protection flange all around the trap and frame. (Make : OBO, Legrand)</p>	No	45				
	PART-F SUB-TOTAL						

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	PART -G						
1	Supply , Installation , Testing & Commissioning of 100 pair Armoured Jelly Filled Telephone cable (with Copper guage thickness of 0.5mm) with necessary clamping /end termination of the cables in the distribution boxes by using cleaning agent with necessary fixtures for dressing the cables (From 1st Floor EPABX Hub to 3rd floor services room) with clamping and all required accessories (including termination at both sides of the krone boxes with allied accessories). Make: FINOLEX	Mtr	100				
2	Supply , Installation , Testing & Commissioning of fully loaded Krone box for 100 x 2 connections and accessories. (One Krone (100 no.s) for Incoming and another Krone outgoing (100 nos) for outgoind including jumper connection/termination connections and all accessories including termination of CAT6 cable.etc.	Nos	1				
3	Supply , Installation , Testing & Commissioning of Analog Telephone with caller id, Speaker and all accessories (Make - Beetel, Panasonic)	Nos	70				
4	Supply , Installation , Testing & Commissioning of Digital Phone with all accessories (Make - Matrix)	Nos	10				
5	Supply, Installation, Testing & Commissioning of Rack 27U - 600W-1000D Floor Mount Network Rack with Accessories :: (1) 90 CFM Fan-2 Nos. (2) 1U Cable Manager-6 Nos. (3) 10 Socket 6/16A PDU-1 Nos. (4) Monitor 475D Tray -1 Nos. (5) Mounting Hardware packet of 20Nos with all accessories.	Nos	1				
6	Supply , Installation , Testing & Commissioning of Cat 6 24 Port Loaded Patch Panel with all accessories	Nos	8				
7	Supply , Installation , Testing & Commissioning of Cat 6 patch cable - 1 Metre with all accessories	Nos	175				
8	Supply , Installation , Testing & Commissioning of Cat 6 patch cable - 2 Metres with all accessories	Nos	175				
	Sub Total -G						
	Total						
	<u>Grand Total *</u>						
	* - Excluding GST.						