

PRICE BID Annexure-III

BOQ for Electrical Installation Works at Bithan Branch

BOQ for Electrical Installation works at Bitnan Branch						
SI.No.	Description	Qty.	MON	Rate (Rs.) (Exclusive of GST on work contract)	Amount (Rs.) (Exclusive of GST on work contract)	
1	MAIN INCOMING SOURCE PANEL (MISP): Supply, installation, testing and commissioning of main				Comitació	
	incoming (MIP) Panel suitable for wall /floor mounted indoor type, air insulated, totally enclosed					
	vermin-proof , dead front, cubicle type, 2 mm thick sheet steel enclosure use on 415 V, 3 Ph, 4					
	wire, 50 Hz. A.C. system, instrumental panel, CTs, incoming and outgoing cable compartment.					
	The Panel shall be complete in all respect as per site requirement, interconnection, G.I. earth					
	busbar of adequate size covering the total length of switch board with drilled holes, G.I. bolts,					
	nuts, washers etc. as directed by E-I-C. The cubicle should be painted with two coats of light					
	,					
	grey synthetic enamel paint over two coats of zinc chromate primer. The complete fabrication,					
	construction shall be done as per the site condition and conforming to the relevant IS. Approval					
	of Manufacturer's drawings from E-I-C. The Panel consists of the following					
	INCOMING: 1 No.: 415V, 200 A 4P MCCB (36 KA), with overload and short circuit adj protection for Main Line, 1 No.: 415V, 125 A 4P MCCB (36 KA), with overload and short circuit adj protection for DG Incoming, 1 No.: 415V, 125 A 4P On-Load Changeover Switch 2 No.: Digital Multi Function Meter (MFM) one for DG and one for main Line 6 Nos.: Suitable CTS PVC sleeved TPN Tinned suitable rating Copper Busbar with suitable Double Bus bar System (such that DG Set should feed power to UPS, raw power VTPN, sign board power & ATM in case of power failure through on load change over switch) G.I. EARTH BUSBAR 25mm x 3mm covering the total length of panel. OUTGOING: Termination I: (To be connected with Change over) 1 No: 63 A 4P MCCB (25 KA) for UPS, 1 No: 63 A 4P MCCB (25 KA) for Raw Power VTPNs 1 No: 63 A 4P MCCB (25 KA) for Raw Power VTPNs No: 32 A DP MCB for Sign Boards and others Termination-II: (Not to be connected with Change over) 1 No: 125 A 4P MCCB (25 KA) for ATM/Spare 3 No: 32 A DP MCB (25 KA) for AC VTPN MCCBs Make - Legrands/L&T/SIEMENS/ABB/Schneider Electric/Havells or equivalent .MCCBs must have thermal & magnetic release, with overload and short circuit adj protection	1	SET			
2	Sub-main line:-					
_	Wiring in MS conduit of IS specification of Proper size with core PVC insulated stranded copper					
	wire 1.1KV grade FRLS/FR-LSH (Finolex/Havells/Polycab/ RR Kabel/ Richa/KEI or equivalent) and					
	with supply ,installation, commissioning of all the materials required including proper termination,					
	connection in complete as required from main DB to various DBs of approved Make:-					
i)	With 2 nos. 6 Sq.mm + 1 no. 6 Sq.mm. (green colour for earth) PVC insulated copper wire in MS					
	conduit for LDB/RPDB/CDB or as per site requirement.	149	RM			
11)	With 2 nos. 10 Sq.mm + 1 no. 6 Sq.mm. (green colour for earth) PVC insulated copper wire in MS					
:::1	conduit from UPS to UPS DB or as per site requirement. With 2 nos. 4 Sq.mm + 1 no. 4 Sq.mm. (green colour for earth) PVC insulated copper wire in MS	30	RM			
111)		168	RM			
	conduit for AC(1.0/1.5 Tr) Wiring or as per site requirement.	100	KIVI			
3	Supply ,installation ,testing and commissioning of distribution board manufactures made sheet					
	steel enclosure With the following MCBs (DB, MCB and MCCB approved make) and connecting					
	the same to the system.Make - Legrands/ Havells/L&T/SIEMENS/ABB/Schneider Electric/Hager or					
	equivalent)					
i)	Computer DB, SPN double door with 40A (30mA-100 mA sensitivity) DP RCCB as incomer &					
	8 nos 10A SP MCB as outgoing.	2	No.s			
ii)	Raw Power DB, SPN double door with 40A (30mA-100 mA sensitivity)DP RCCB as incomer &	_				
;;;1	8 nos 10A SP MCB as outgoing. (A) LIPS INCOMING DP: Supply of all required materials and fiving of input LIPS boy (Company)	2	No.s			
111)	(A) UPS INCOMING DB: Supply of all required materials and fixing of input UPS box (Company					
	made) having provision of the following arrangement complete with all respects as per the					
	direction of engineer in charge. Incoming: 1 No. 63A TPN MCB (10KA) Outgoing: 3 Nos. 63 A	1	No.s			
j _V)	(10KA) DP MCB B) UPS OUTGOING DB for UPS : Supply of all required materials and fixing of output UPS box	'	140.3			
14)	(Company made) having provision of the following arrangement complete with all respects as					
	per the direction of engineer in charge. Incoming: 1 no. 63 A DP MCB, Outgoing: 5 No. 40A					
	(10KA) DP MCB	1	No.s			
v)	ONLOAD CHANGE OVER SWITCH: SITC of 1 no. 415V, 63A, 2P with on indication on load Change					
	over switch with suitable enclosure. Complete with all respect.	1	No.s			
vi)	DB with 25 A DP RCCB (30mA to 100 mA), AC Socket & Top for AC complete in all respect					
		7	No.s			

yij IVPN Double Door Distribution Soord with provision of fising MCCS as incomerburing well of lish bone busbor, with all intends south as DIN foreign south as the control of the provision of street south and the provision and the south and	SI.No.	Description	Qty.	UOM	Rate (Rs.) (Exclusive of GST on work contract)	Amount (Rs.) (Exclusive of GST on work contract)
circuits complete in all sespects with housing of followings: 45 A 4 Pole MCCR (25A4) as incomer and 12 Nos. 40 A 5P MCRS at outgoing of approved makel for 9P09AD8/BAW AC/Server AC power 4cb; and the provided makel for 9P09AD8/BAW AC/Server AC power 4cb; and the provided for 9P09AD8/BAW AC/Server AC power 4cb; and 14 Nos. 42 A 5P A 14 Nos. 42 A 4 Pole MCCR (25A4) as provided in all respects with housing of followings: 125 A 4 Pole MCCR (25A4) as provided in all respects with housing of followings: 125 A 4 Pole MCCR (25A4) as provided in a 12 Nos. 42 A 9 MCRS at outgoins of approved makeling for ACs). In 15, 240Y 32A(10KA), 139mA-100mA) DP MCB CUTGOINS: 8 Nos. 240Y 4A-16A (10 KA) SP MCB; 1 Set 1 Nos. 240Y 32A(10KA), 139mA-100mA) DP MCB CUTGOINS: 8 Nos. 240Y 4A-16A (10 KA) SP MCB; 1 Set 1 Nos. 240Y 32A(10KA), 139mA-100mA) DP MCB CUTGOINS: 8 Nos. 240Y 4A-16A (10 KA) SP MCB; 1 Set 1 Nos. 240Y 32A(10KA), 139mA-100mA) DP MCB CUTGOINS: 8 Nos. 240Y 4A-16A (10 KA) SP MCB; 1 Set 1 Nos. 240Y 32A(10KA), 139mA-100mA) DP MCB CUTGOINS: 8 Nos. 240Y 4A-16A (10 KA) SP MCB; 1 Set 1 Nos. 240Y 4A-16A (10 KA) SP MCB; 1 Nos. 240Y 4A-16A (1	∨ii)	· · · · · · · · · · · · · · · · · · ·				
and 12 Nos. 40 A 5º McBis at outgoing of approved moke (for RPDB/LDB/BM AC/Server AC power stol.) viii) YTPN Double Door Distribution Board with provision of fishing MCCB as incomer.having vertical fish bone busbar, with all internals such as DIN charmets.neutral link.internal wiring Jermination of circuits complete in all respects with housing of followings: 125 A 4 Pole McCB (2 SAA) as incomer and 12 Nos. 32 A 5º McCB/Stat outgoing of approved make (for ACs) 1 viii) Dis Consumer und 3º McCB Dis Compete with all respects and the following McCB, INCOMING: 1 1 No. 2409 324/10KA) [20mA-100mA) DP MCB OUTGOING: 9 Nos. 2409 4A-16A (10 KAI SP MCB. 1 4 Supplying Institution testing a commissioning, loying, lugging etc of PVC lieutated disturbinium amoursed 1.1 KV grade 3.5 cored cable of following size with making proper trench/support on world or per its specification and complete with all respect as per the instruction of Engineer in Character (ELC). 1) With 3.5 core x 25 sts. mm cable 240 Mix 3.5 core x 25 sts. mm cable 440 Mix 3.5 core x 35 sts. mm cable 540 Mix 3.5 core x 35 sts. mm cable 540 Mix 3.5 core x 35 sts. mm cable 540 Mix 3.5 core x 35 sts. mm cable 540 Mix 3.5 core x 35 sts. mm cable 540 Mix 3.5 core x 35 sts. mm cable 540 Mix 3.5 core x 35 sts. mm cable 540 Mix 3.5 core x 35 sts. mm cable 5		•				
Downs etc. Will YFRN Double Door Distribution & Board with provision of fisting MCC8 as incomer, having vertical fish bone bushar, with all internals such as DIN channels, neutral link internal wiring , Jermination of circuits complete in all respects with housing of following: 125 A.4 Pole MCC8 (25AA) as incomer and 12 Nos. 32 A.5 Pk.063 at a budgeing of sporoved motels for ACs) ID B1 Consumer unit 3PM MC8 D8 complete with all respects and the following MC8s. INCOMING: 1 No. 240V 32A(10KA) (30mA-100mA) DP MC8 OUTGOING: 8 Nos. 240V 6A-16A (10 KA) SP MC9s. 4 Supplying, installation, testing 8, commissioning, laying, lagging after of PCC installated aluminium amounded 11 KY grade 35 cored active of following size with making proper tendro/support on wall as per is specification and complete with all respect as per the instruction of Engineer-in-Constalla-HC-II. I) With 3.5 core x 35 sq. mm cable 40 MM II) With 3.5 core x 35 sq. mm cable 5 Copper Bonded Rod Earthing, STC of D80 Betterman/JK/JEF eco safe/ make earthing system ~ 10. U. Usled Earth Betchade - Copper bonded low carbon steel electrade, coating 3250 microns tested along the provided of the second of the commission of the provided provided of the provided of th						
one busbar, with all internals such as DIN channels, neutral link. Internal wiring, Itemination of creuits complete in all respects with housing of following: 125 A 4 Pole MCCB (25KA) as incomer and 12 Not 32 A 57 McBs. at outgoing of following: 125 A 4 Pole MCCB (25KA) as incomer and 12 Not 32 A 57 McBs. at outgoing of approved make for ACs.) IND Consumer will 3PM McB DB complete with all respects and the following MCBs. INCOMING: 1 No. 240V 32A(10KA) [30mA-100mA) DP MCB OUTGOING: 8 Nos. 240V 6A-16A (10 KA) 5P MCB). 1 No. 240V 32A(10KA) [30mA-100mA) DP MCB OUTGOING: 8 Nos. 240V 6A-16A (10 KA) 5P MCB). 1 Set 4 Supplying, installation, testing 8 commissioning, towing, lugging act of PVC installated duminium amoured 11 No yard as 3 core acts of controlled with all respect as per the instruction of Engineer-in-Connected; CC). 1 With 3.5 core x 53 sq. mm cable 3 With 3.5 core x 53 sq. mm cable 4 De MM 3 With 3.5 core x 53 sq. mm cable 5 Copper Bonded Rod Earthing, STC of OBO Betterman/JK/JEF eco safe/ make earthing system — 1. 1 U. Usled Earth Beckrode - Copper bonded low carbon steel electrode, cooling 250 micrors reteid as per life (2554) – 4 wheat the requirement of 15 30A3 and in one set it should include: a) One nos of Earthing rod-Type 17 3000 CCER. Length — 3000 mm Outer Dia — 17.2 mm Copper bonded low carbon steel Electrode Wilht 250 micrors copper bonded b) One bog (10 KG) Earth Enhancement Compound confirming to IEC 62551-7 c) One nos of univised clamp. Product Certificate of company must be provided. Earth Test Report to be submitted. 4 STC of Earth distribution Bax (Bus Bar Stallan) it ob installed in the branch near Main Panel, UPS and e-lobby, comprising of a bus bor of 3x55x180mm Cu strip. 5 SET 5 Sept ond e-lobby, comprising of a bus bor of 3x55x180mm Cu strip. 6 STC of Certh distribution Bax (Bus A Stallan) is one installed in the branch near Main Panel, UPS and e-lobby, comprising of a bus bor of 3x55x180mm Cu strip. 7 Supply and e-long of 8 SWG Cu cettor cooted wire in 20 mm d			1	Set		
circuits complete in all respects with housing of followings: 125 A 4 Pole MCC8 (25kA) as incomer and 12 Nos. 32 A 5P MCB's at outgaing of approved make (for ACs) 1 ight LBB : Consumer unit STN MCB B complete with all respects and the following MCBs. INCOMING: 1 1 No. 240V 32A(10KA) (30mA-100mA) DP MCB OUTGOING: 8 Nos. 240V 4A-14A (10 KA) SP MCB: 1 4 Supplying, installation, testing & commissioning, laving, lauging, etc of PVC insulated alluminium amoured 1.1 KV grade 3.5 cored cable of following size with making proper trench/support on wall as per its specification and complete with all respect as per the instruction of Engineer-in-ChangelE-I-C1. 1 1) With 3.5 core x 25 sq. mm cable 40 RM	∨iii)	VTPN Double Door Distribution Board with provision of fixing MCCB as incomer, having vertical fish				
incomer and 12 Nos. 32 A SP MCBs, at outgoing of approved make (for ACs.) Ix IDS: Consumer unit SPN MCB De complete with all respects and the following MCBs. INCOMING: Ix No. 240V 32A (10XA). (30MA. 100MA) DP MCB OUTGOING: 8 Nos. 240V AA. 16A (10 XA) SP MCBs. 4 Supplying, installation, testing & commissioning, laying, beging et of PVC insulated aluminism amoured 1.1 KV grade 3.5 cored cobie of following size with making proper french/support on wall as per is specification and complete with all respect as per the instruction of Engineerin-Change(E-LC). IV With 3.5 core x 25 sq. mm cobie IV With 3.5 core x 25 sq. mm cobie SCOpper Bonded Rod Earthing. SITC of O8O Betterman/JK/JEF eco safe/ make earthing system -* UL Listed Earth Bectrode - Copper bonded low carbon steel electrode, coating 250 microns - Tested as per IEC 255:12 - Veets the requirement of 15 3043 and in one set if should include: a) One nos of Earthing rod Type 17 3000 CCER, Length - 3000 mm Outer Dia - 172 mm Copper bonded low carbon steel Electrode With 250 microns copper bonded b) One bos gl 10 KG] Earth Enhancement Compound confirming to IEC 2554:1-7 c) One nos of universal clamp. Product Certificate of company must be provided. Earth Test Report to be submitted. 5 SET 5 SET 5 SET 5 SET 5 SET 5 SET 6 Semplete Secket Outlet: Computer point writing in MS conduit of its specification of proper size with 2 Nos. 2.5 sq.mm 1x 2.5 sq.mm. (green colour for earth) PVC insulated copper write (1.1 KV grade FRIS/FRISH) in pre - laid (so per ISI) single core PVC insulated stranded copper write (1.1 KV grade FRIS/FRISH) in pre - laid (so per ISI) single core PVC insulated stranded copper write (1.1 KV grade FRIS/FRISH) in pre - laid (so per ISI) single core PVC insulated stranded copper write (1.1 KV grade FRIS/FRISH) in pre - laid (so per ISI) single core PVC insulated stranded copper write (1.1 KV grade FRIS/FRISH) in pre - laid (so per ISI) single core PVC insulated stranded copper write (1.1 KV grade FRIS/FRISH) in pre - laid (so per		bone busbar, with all internals such as DIN channels, neutral link, internal wiring , termination of				
Institute Inst		circuits complete in all respects with housing of following:- 125 A 4 Pole MCCB (25kA) as				
1 No. 240V 32A(10KA) (30mA-100mA) DP MCB OUTGOING : 8 Nos. 240V 6A-16A (10 KA) SP MCB: 1 Set 4 Supplying, installation, testing & commissioning, loying, lugging, etc of PVC insulated aluminium amoured 1.1 KV grade 3.5 cored cable of following size with making proper trench/support on wall os per it's specification and complete with all respect as per the instruction of Engineerin-ChargetE4C(). 1) With 3.5 core x.55 sq. mm cable 40 RM 3) With 3.5 core x.55 sq. mm cable 40 RM 40 RM 5) Copper Bonded Rad Earthing, STC of GBO Bettermon/JK/JEF eco safe/ make earthing system - 10 Listed Earth Electrode - Copper bonded low corbon steel electrode, coating 250 microns - 1 lested as per IEC 6/561-2 - Meets the requirement of IS 3045 and in one set it should include: a) One nos of Earthing rod-type 17 3000 CCER, Length - 3000 mm Outer Dia - 17.2 mm Copper bonded low corbon steel Electrode WiTh 250 microns copper bonded by One bog (10 KG) Earth Enhancement Compound confirming to IEC 6254-7 c) One nos of universal champ. Product Certificate of company must be provided. Earth Test Report to be submitted. 4) STC of Earth distribution Box (Bus Bars Station) to be installed in the branch near Main Panel JUPS and e-lobby, comprising of a bus bar of 3x25x180mm Cu strip. 5) SET Supply and loying of 8 SWG Cu cotton coated wire in 20 mm dia rigid PVC conduit for earthing from the earth pill to the Main panel/JUPS. 8) Computer Socket Outlet: Computer point wiring in MS conduit of IS specification of proper size with 2 Nas. 2.5 Sq.mm. +1 x 2.5 Sq.mm. (green colour for earth) PVC insulated copper wire 1.1 KV grade [Finale KM voet] PVC insulated copper wire 1.1 KV grade [Finale KM voet] PVC RK Kobel / Richo/KEI or equivalent) and with all material supply installation and commissioning complete from CDR/PD8(Row). In ewing shall be corried out on surface above false ceiling by chiseling the existing surface and plastering the same with cement etc. after fixing the MS conduit with all accessories like saddless screws, bends T-joint		incomer and ,12 Nos. 32 A SP MCB's,at outgoing of approved make(for ACs)	1	Set		
4 Supplying, installation, testing & commissioning, laying, la	ix)	LDB : Consumer unit SPN MCB DB complete with all respects and the following MCBs. INCOMING :				
omoured 1.1 KV grade 3.5 corea coble of following size with making proper trench/support on wall as per its specification and complete with all respect as per the instruction of Engineer-In-Charge(E-LC). 1) With 3.5 core x 25 sq. mm coble 1) With 3.5 core x 25 sq. mm coble 2) With 3.5 core x 25 sq. mm coble 3) With 3.5 core x 95 sq. mm coble 40 RM 5) Copper Bonded Rod Earthing, SITC of OBO Betterman/JK/JEF eco safe/ make earthing system - * 10 L Listed Earth Electrode - Copper bonded low carbon steel electrode, cooling 250 microns - Tested as per ICE 02561-2 - Neets the requirement of IS 3043 and in one set it should include: a) One nos of Earthing rod-Type 17 3000 CCER. Length - 3000 mm Outer Dia - 17.2 mm Copper bonded low carbon steel Electrode WiTH 250 microns copper bonded b) One bag (10 KG) Earth Enhancement Compound confirming to IEC 62561-7 c) One nos of universal clamp. Product Certificate of company must be provided. Earth Test Report to be submitted. 4 SITC of Earth distribution 8bx (Bus Bar Station) to be installed in the branch near Main Panel JUPS and e-lobby, comprising of a bus bar of 3x25x180mm Cu strip. 7 Supply and laying of 8 SWG Cu cofton coated wire in 20 mm dia rigid PVC conduit for earthing from the earth pit to the Main panel/JUPS. 8 Computer Socket Outlet: Computer point wiring in MS conduit of IS specification of proper size with 2 Nos. 2.5 Sq.mm. + 1 x 2.5 Sq.mm. (green colour for earth) PVC insulated copper wire (1.1 KV grade FRIS/FR-ISH) in pre - Ioid (as per ISI) single core PVC insulated stranded copper wire 1.1 KV grade FRIS/FR-ISH) in pre - Ioid (as per ISI) single core PVC insulated stranded copper wire 1.1 KV grade FRIS/FR-ISH) in pre - Ioid (as per ISI) single core PVC insulated stranded copper wire 1.1 KV grade FRIS/FR-ISH) in pre - Ioid (as per ISI) single core PVC insulated stranded copper wire 1.1 KV grade FRIS/FR-ISH) in pre - Ioid (as per ISI) single core PVC insulated stranded copper wire 1.1 KV grade FRIS/FR-ISH) in pre - Ioid (as per ISI) single core PV		1 No. 240V 32A(10KA) (30mA-100mA) DP MCB OUTGOING : 8 Nos. 240V 6A-16A (10 KA) SP MCB.	1	Set		
omoured 1.1 KV grade 3.5 corea coble of following size with making proper trench/support on wall as per its specification and complete with all respect as per the instruction of Engineer-In-Charge(E-LC). 1) With 3.5 core x 25 sq. mm coble 1) With 3.5 core x 25 sq. mm coble 2) With 3.5 core x 25 sq. mm coble 3) With 3.5 core x 95 sq. mm coble 40 RM 5) Copper Bonded Rod Earthing, SITC of OBO Betterman/JK/JEF eco safe/ make earthing system - * 10 L Listed Earth Electrode - Copper bonded low carbon steel electrode, cooling 250 microns - Tested as per ICE 02561-2 - Neets the requirement of IS 3043 and in one set it should include: a) One nos of Earthing rod-Type 17 3000 CCER. Length - 3000 mm Outer Dia - 17.2 mm Copper bonded low carbon steel Electrode WiTH 250 microns copper bonded b) One bag (10 KG) Earth Enhancement Compound confirming to IEC 62561-7 c) One nos of universal clamp. Product Certificate of company must be provided. Earth Test Report to be submitted. 4 SITC of Earth distribution 8bx (Bus Bar Station) to be installed in the branch near Main Panel JUPS and e-lobby, comprising of a bus bar of 3x25x180mm Cu strip. 7 Supply and laying of 8 SWG Cu cofton coated wire in 20 mm dia rigid PVC conduit for earthing from the earth pit to the Main panel/JUPS. 8 Computer Socket Outlet: Computer point wiring in MS conduit of IS specification of proper size with 2 Nos. 2.5 Sq.mm. + 1 x 2.5 Sq.mm. (green colour for earth) PVC insulated copper wire (1.1 KV grade FRIS/FR-ISH) in pre - Ioid (as per ISI) single core PVC insulated stranded copper wire 1.1 KV grade FRIS/FR-ISH) in pre - Ioid (as per ISI) single core PVC insulated stranded copper wire 1.1 KV grade FRIS/FR-ISH) in pre - Ioid (as per ISI) single core PVC insulated stranded copper wire 1.1 KV grade FRIS/FR-ISH) in pre - Ioid (as per ISI) single core PVC insulated stranded copper wire 1.1 KV grade FRIS/FR-ISH) in pre - Ioid (as per ISI) single core PVC insulated stranded copper wire 1.1 KV grade FRIS/FR-ISH) in pre - Ioid (as per ISI) single core PV	4	Supplying, installation, testing & commissioning, laying, lugging,etc of PVC insulated aluminium				
Charge(E4-C). With 3.5 core x 25 sq. mm cable 74 RM 10						
ii) With 3.5 care x 35 sq. mm cable iii) With 3.5 care x 35 sq. mm cable iii) With 3.5 care x 95 sq. mm cable iii) With 3.5 care x 95 sq. mm cable 68 RM 5 Copper Bonded Rod Earthing, STC of OBO Betterman/JK/JEF eco safe/ make earthing system - * UL Listed Earth Electrode - Copper bonded low carbon steel electrode, coating 250 microns - Tested as per IEC 62561-2 - Meets the requirement of Is 3043 and In one set it should include: a) One nos of Earthing rod-Type 17 3000 CCER, Length - 3000 mm Outer Dia - 17.2 mm Copper bonded low carbon steel Electrode WITH 250 microns copper bonded b) One bag (10 KG) Earth Enhancement Compound confirming to IEC 62561-7 c) One nos of universal clamp. Product Certificate of company must be provided. Earth Test Report to be submitted. 6 STC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main Panel JUPS and el-lobby, comprising of a bus bar of 3x25x180mm Cu strip. 7 Supply and laying of 8 SWG Cu cotton coated wire in 20 mm dia rigid PVC conduit for earthing from the earth pilt to the Main panel/JUPS. 6 Computer Socket Outlet. Computer point wiring in MS conduit of IS specification of proper size with 2 Nos. 2.5 Sa,mm. + 1 x 2.5 Sa,mm. (green colour for earth) PVC insulated copper wire (1.1 KV grade (Finolex/Havells/Polycab/ RR Kabel/ Richa/KEI or equivolent) and with all material supply installation and commissioning complete from CD8/PD8(Row). The wiring shall be carried out on surface above false ceiling by chiseling the existing surface and plastering the same with cement etc. after fixing the MS conduit with all accessories like saddles screws, bends T-joint etc. 2 coats of painting Matching to the surface including supply installing, testing, commissioning of modular type international socket-Each computer socket outlet cluster consists of following 4 nos 6/10A 5 pin modular type international sockets with single 16A Modular type controlling switch with indicator on table top. (Legrands / MK/ABB/Havells or equivalent) for computer t						
iii) With 3.5 core x 35 sq. mm cable iii) With 3.5 core x 35 sq. mm cable 40 RM 5 Copper Bonded Rod Earthing, STIC of OBO Bettermary/JK/JEF eco safe/ make earthing system - * UL Listed Earth Bectrade - Copper bonded low carbon steel electrade, coating 250 microns - Tested as per IEC 6256-12 - Meets the requirement of IS 3043 and In one set if should include: a) One nos of Earthing rod-Type 17 3000 CCER, Length - 3000 mm Outer Dia - 17.2 mm Copper bonded low carbon steel Electrade WiTH 250 microns copper bonded b) One bag (10 KG) Earth Enhancement Compound confirming to IEC 62561-7 c) One nos of universal clamp. Product Certificate of company must be provided. Earth Test Report to be submitted. 6 STIC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main Panel JUPS and e-lobby, comprising of a bus bar of 3x25x180mm Cu strip. 7 Supply and laying of 8 SWG Cu cotton coated wire in 20 mm dia rigid PVC conduit for earthing from the earth pit to the Main panel/UPS. 8 Computer Socket Outlet: Computer point wiring in MS conduit of IS specification of proper size with 2 Nos. 2.5 Sq.mm. + 1 x 2.5 Sq.mm. (green colour for earth) PVC insulated copper wire 1.1.KV grade [Finclex/Havells/Polycab/ RR Kabel/ Richa/KEI or equivalent] and with all material supply installation and commissioning complete from CDB/PD8(Raw). The wiring shall be carried out on surface above false ceiling by chiseling the existing surface and plastering the same with cement etc. after fixing the MS conduit with all accessories like saddles screws, bends T-joint etc. 2 coats of pointing Matching to the surface including supply installing, testing, commissioning of modular plate type switch and socket-Each computer socket outlet cluster consists of following 4 nos 6/10A 5 pin modular type international sockets with single 16A Modular type controlling switch with indicator on table top. (Legrands / MK/A88/Havells or equivalent) for computer terminal on sheet steel enclosure (cadmium plated),duty fifted with screw to th	i۱		74	DAA		
iii) With 3.5 care x 95 sq., mm cable 5 Copper Bonded Rod Earthing, SITC of OBO Betterman/JK/JEF eco safe/ make earthing system - * UL Listed Earth Electrade - Copper bonded low carbon steel electrade, coating 250 microns - Tested as per JEC 62561-2 - Meets the requirement of IS 3043 and In one set it should include: a) One nos of Earthing rod-Type 17 3000 CCER, Length - 3000 mm Outer Dia - 17.2 mm Copper bonded low carbon steel Electrade WITH 250 microns copper bonded b) One bag (10 KG) Earth Enhancement Compound confirming to IEC 62561-7 c) One nos of universal clamp. Product Certificate of company must be provided. Earth Test Report to be submitted. 2 No.s 4 SITC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main Panel JUPS and e-lobby, comprising of a bus bar of 3x25x180mm Cu strip. 7 Supply and laying of 8 SMG Cu catton coated wire in 20 mm dia rigid PVC conduit for earthing from the earth pit to the Main panel/UPS. 8 Computer Sacket Outlet: Computer point wiring in MS conduit of IS specification of proper size with 2 Nos. 2.5 Sq.mm. + 1 x 2.5 Sq.mm. (green colour for earth) PVC insulated copper wire 1.1KV grade (Finolex/Havells/Palycab/ RR Kabel/ Richa/KEI or equivalent) and with all material supply installation and commissioning complete from CDB/PB(Raw). The wiring shall be carried out on surface above false ceiling by chiseling the existing surface and plastering the same with cement etc. after fixing the MS conduit with all accessories like saddles screws, bends T-joint etc. 2 coats of painting Matching to the surface including supply installing, testing, commissioning of modular plate type switch and socket-Each computer socket outlet cluster consists of following 4 nos 6/10.4 5 pin modular type international sockets with single 16A Modular type controlling switch with indicator on table top. (Legrands / MK/ABB/Havells or equivalent) for computer terminal on sheet steel enclosure (codmium plated),duly fitted with screw to the steel conduit and fixed to the wall	_ ′	· · · · · · · · · · · · · · · · · · ·				
UL Listed Earth Electrode - Copper bonded low carbon steel electrode, coating 250 microns Tested as per IEC 62561-2 - Meets the requirement of IS 3043 and In one set it should include: a) One nos of Earthing rod-Type 17 3000 CCER, Length - 3000 mm Outer Dia - 17.2 mm Copper bonded low carbon steel Electrode WITH 250 microns copper bonded b) One bag (10 KG) Earth Enhancement Compound confirming to IEC 62561-7 c) One nos of universal clamp. Product Certificate of company must be provided. Earth Test Report to be submitted. 6 STC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main Panel "UPS and e-lobby, comprising of a bus bar of 3x25x180mm Cu strip. 7 Supply and laying of 8 SWG Cu cotton coated wire in 20 mm dia rigid PVC conduit for earthing from the earth pit to the Main panel/UPS. 8 Computer Sacket Outlet: Computer point wifring in MS conduit of IS specification of proper size with 2 Nos. 2.5 Sq.mm. + 1 x 2.5 Sq.mm. (green colour for earth) PVC insulated copper wire (1.1 KV grade FRLS/FRLSH) in pre - Icaid (as per ISI) single core PVC insulated stranded copper wire 1.1KV grade (Finolex/Havelis/Polycab/ RR Kabel/ Richa/KEI or equivalent) and with all material supply installation and commissioning complete from CDB/PDB(Raw). The wiring shall be carried out on surface above false ceiling by chiseling the existing surface and plastering the same with cement etc. after fixing the MS conduit with all accessories like saddles screws, bends T-joint etc. 2 coats of pointing Matching to the surface including supply installing, testing, commissioning of modular plate type switch and socket:Each computer socket outlet cluster consists of following 4 nos 6/10A 5 pin modular type intermational sockets with single 1A Modular type controlling switch with indicator on table top. (Legrands / MK/ABB/Havells or equivalent) for computer terminal on sheet steel enclosure (cadmium plated),duly fitted with screw to the steel conduit and fixed to the wall partition furniture with all interconnectio	,	· · · · · · · · · · · · · · · · · · ·				
UL Listed Earth Electrode - Copper bonded low carbon steel electrode, coating 250 microns Tested as per IEC 62561-2 - Meets the requirement of IS 3043 and In one set it should include: a) One nos of Earthing rod-Type 17 3000 CCER, Length - 3000 mm Outer Dia - 17.2 mm Copper bonded low carbon steel Electrode WITH 250 microns copper bonded b) One bag (10 KG) Earth Enhancement Compound confirming to IEC 62561-7 c) One nos of universal clamp. Product Certificate of company must be provided. Earth Test Report to be submitted. 6 STC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main Panel "UPS and e-lobby, comprising of a bus bar of 3x25x180mm Cu strip. 7 Supply and laying of 8 SWG Cu cotton coated wire in 20 mm dia rigid PVC conduit for earthing from the earth pit to the Main panel/UPS. 8 Computer Sacket Outlet: Computer point wifring in MS conduit of IS specification of proper size with 2 Nos. 2.5 Sq.mm. + 1 x 2.5 Sq.mm. (green colour for earth) PVC insulated copper wire (1.1 KV grade FRLS/FRLSH) in pre - Icaid (as per ISI) single core PVC insulated stranded copper wire 1.1KV grade (Finolex/Havelis/Polycab/ RR Kabel/ Richa/KEI or equivalent) and with all material supply installation and commissioning complete from CDB/PDB(Raw). The wiring shall be carried out on surface above false ceiling by chiseling the existing surface and plastering the same with cement etc. after fixing the MS conduit with all accessories like saddles screws, bends T-joint etc. 2 coats of pointing Matching to the surface including supply installing, testing, commissioning of modular plate type switch and socket:Each computer socket outlet cluster consists of following 4 nos 6/10A 5 pin modular type intermational sockets with single 1A Modular type controlling switch with indicator on table top. (Legrands / MK/ABB/Havells or equivalent) for computer terminal on sheet steel enclosure (cadmium plated),duly fitted with screw to the steel conduit and fixed to the wall partition furniture with all interconnectio						
Tested as per IEC 62561-2 - Meets the requirement of IS 3043 and In one set it should include: a) One nos of Earthing rod-Type 17 3000 CCER, Length – 3000 mm Outer Dia – 17.2 mm Copper bonded low carbon steel Electrode WITH 250 microns copper bonded b) One bag (10 KG) Earth Enhancement Compound confirming to IEC 62561-7 c) One nos of universal clamp. Product Certificate of company must be provided. Earth Test Report to be submitted. 5ITC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main Panel JUPS and e-lobby, comprising of a bus bar of 3x25x180mm Cu strip. 7 Supply and laying of 8 SWG Cu cotton coated wire in 20 mm dia rigid PVC conduit for earthing From the earth pit to the Main panel/JUPS. 8 Computer Socket Outlet: Computer point wiring in MS conduit of IS specification of proper size with 2 Nos. 2.5 Sq.mm. + 1 x 2.5 Sq.mm. (green colour for earth) PVC insulated copper wire 1.1 KV grade FRLS/FR-LSH) in pre - loid (as per ISI) single core PVC insulated stranded copper wire 1.1 KV grade FRLS/FR-LSH) in pre - loid (as per ISI) single core PVC insulated stranded copper wire 1.1 KV grade FRLS/FR-LSH) in pre - loid (as per ISI) single core PVC insulated stranded copper wire 1.1 KV grade FRLS/FR-LSH) in pre - loid (as per ISI) single core PVC insulated stranded copper wire 1.1 KV grade FRLS/FR-LSH) in pre - loid (as per ISI) single core PVC insulated stranded copper wire 1.1 KV grade FRLS/FR-LSH) in pre - loid (as per ISI) single core and plastering the same with cement etc. after fixing the MS conduit with all accessories like saddles screws, bends T-joint etc. 2 coats of painting Matching to the surface including supply installing, testing, commissioning of modular plate type switch and socket:Each computer socket outlet cluster consists of following 4 nos 6/10A 5 pin modular type international sockets with single 14A Modular type controlling switch with indicator on table top. (Legrands / MK/ABB/Havells or equivalent) for computer terminal on sheet steel enclosure	5					
a) One nos of Earthing rod-Type 17 3000 CCER, Length – 3000 mm Outer Dia – 17.2 mm Copper bonded low carbon steel Electrode WITH 250 microns copper bonded b) One bag (10 KG) Earth Enhancement Compound confirming to IEC 62561-7 c) One nos of universal clamp. Product Certificate of company must be provided. Earth Test Report to be submitted. 6 SITC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main Panel JUPS and e-lobby, comprising of a bus bar of 3x25x180mm Cu strip. 7 Supply and laying of 8 SWG Cu cotton coated wire in 20 mm dia rigid PVC conduit for earthing from the earth pit to the Main panel/UPS. 8 Computer Socket Outlet: Computer point wiring in MS conduit of IS specification of proper size with 2 Nos. 2.5 Sq.mm. + 1 x 2.5 Sq.mm. (green colour for earth) PVC insulated copper wire (1.1 KV grade FRLS/FR-LSH) in pre - laid (as per ISI) single core PVC insulated stranded copper wire 1.1KV grade(Finolex/Havells/Polycab/ RR Kabel/ Richa/KEI or equivalent) and with all material supply installation and commissioning complete from CDB/PDB(Raw). The wiring shall be carried out on surface above false ceiling by chiseling the existing surface and plastering the same with cement etc. after fixing the MS conduit with all accessories like saddles screws, bends T-joint etc. 2 coats of painting Matching to the surface including supply installing, testing, commissioning of modular plate type switch and socket/Each computer socket outlet cluster consists of following 4 nos 6/10A 5 pin modular type international sockets with single 16A Modular type controlling switch with indicator on table top. (Legrands / MK/ABB/Havells or equivalent) for computer terminal on sheet steel enclosure (cadmium plated), duly fitted with screw to the steel conduit and fixed to the wall partition furniture with all interconnection and proper earthing. All the						
Outer Dia – 17.2 mm Copper bonded low carbon steel Electrode WiTH 250 microns copper bonded b) One bag (10 KG) Earth Enhancement Compound confirming to IEC 62561-7 c) One nos of universal clamp. Product Certificate of company must be provided. Earth Test Report to be submitted. 6 SITC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main Panel JUPS and el-lobby, comprising of a bus bar of 3x25x180mm Cu strip. 7 Supply and laying of 8 SWG Cu cotton coated wire in 20 mm dia rigid PVC conduit for earthing From the earth pit to the Main panel/JUPS. 8 Computer Socket Outlet: Computer point wiring in MS conduit of IS specification of proper size with 2 Nos. 2.5 Sq.mm. + 1 x 2.5 Sq.mm. (green colour for earth) PVC insulated copper wire (1.1 KV grade FRLS/FR-LSH) in pre - laid (as per ISI) single core PVC insulated stranded copper wire 1.1KV grade FRLS/FR-LSH) in pre - laid (as per ISI) single core PVC insulated stranded copper wire 1.1KV grade face above false ceiling by chiseling the existing surface and plastering the same with cement etc. after fixing the MS conduit with all accessories like saddles screws, bends T-joint etc. 2 coats of painting Matching to the surface including supply installing, testing, commissioning of modular plate type switch and socket:Each computer socket outlet cluster consists of following 4 nos 6/10A.5 pin modular type international sockets with single 16A Modular type controlling switch with indicator on table top. (Legrands / MK/ABB/Havells or equivalent) for computer terminal on sheet steel enclosure (cadmium plated),duly fitted with screw to the steel conduit and fixed to the wall partition furniture with all interconnection and proper earthing .All the						
bonded b) One bag (10 KG) Earth Enhancement Compound confirming to IEC 62561-7 c) One nos of universal clamp. Product Certificate of company must be provided. Earth Test Report to be submitted. 6 SITC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main Panel "UPS and e-lobby, comprising of a bus bar of 3x25x180mm Cu strip. 7 Supply and laying of 8 SWG Cu cotton coated wire in 20 mm dia rigid PVC conduit for earthing From the earth pit to the Main panel/UPS. 8 Computer Socket Outlet: Computer point wiring in MS conduit of IS specification of proper size with 2 Nos. 2.5 Sq.mm. + 1 x 2.5 Sq.mm. (green colour for earth) PVC insulated copper wire 1.1 KV grade FRLS/FR-LSH) in pre - laid (as per ISI) single core PVC insulated stranded copper wire 1.1 KV grade(Finolex/Havells/Polycab/ RR Kabel/ Richa/KEI or equivalent) and with all material supply installation and commissioning complete from CDB/PDB/Raw). The wiring shall be carried out on surface above false ceiling by chiseling the existing surface and plastering the same with cement etc. after fixing the MS conduit with all accessories like saddles screws, bends T-joint etc. 2 coats of painting Matching to the surface including supply installing, testing, commissioning of modular plate type switch and socket:Each computer socket outlet cluster consists of following 4 nos 6/10A 5 pin modular type international sockets with single 16A Modular type controlling switch with indicator on table top. (Legrands / MK/ABB/Havells or equivalent) for computer terminal on sheet steel enclosure (cadmium plated),duly fitted with screw to the steel conduit and fixed to the wall partition furniture with all interconnection and proper earthing. All the						
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and fixed to the wall partition furniture with all interconnection and proper earthing .All the						
opening shall be covered with blank plate and be sealed to make the box vermin proof.B48		and fixed to the wall partition furniture with all interconnection and proper earthing .All the				
		opening shall be covered with blank plate and be sealed to make the box vermin proof.B48	11	No.s		

SI.No.	Description	Qty.	UOM	Rate (Rs.) (Exclusive of GST on work contract)	Amount (Rs.) (Exclusive of GST on work contract)
9	Raw Power point wiring in MS conduit of IS specification of proper size with				cominació
	2 Nos. 2.5 Sq.mm. + 1 \times 2.5 Sq.mm. (green colour for earth) PVC insulated copper wire (1.1 KV				
	grade FRLS/FR-LSH) in pre - laid (as per ISI) single core PVC insulated stranded copper wire 1.1KV				
	grade(Finolex/Havells/Polycab/ RR Kabel/ Richa/KEI or equivalent) and with all material supply				
	installation and commissioning complete from RPDB/PDB(Raw) .The wiring shall be carried out on				
	surface above false ceiling by chiseling the existing surface and plastering the same with cement				
	etc. after fixing the MS conduit with all accessories like saddles screws, bends T-joint etc. 2 coats				
	of painting Matching to the surface including supply installing, testing, commissioning of modular				
	plate type switch and socket:Each computer socket outlet cluster consists of following: 2 nos				
	16/20A 5 pin modular type international sockets with single 16/20A Modular type controlling				
	switch. (Legrands / MK/ABB/Havells or equivalent) for computer terminal on sheet steel enclosure				
	(cadmium plated), duly fitted with screw to the steel conduit and fixed to the wall partition				
	furniture with all interconnection and proper earthing .All the opening shall be covered with	10	Nos		
	blank plate and be sealed to make the box vermin proof.B48	12	No.s		
10	POWER SOCKET OUTLET AND ITS WIRING Raw power socket outlet cluster point including supply				
	and fixing of modular type socket outlet clusters components and wiring 1100V grade, FRLS				
	complete in all respect as detailed below. 1Nos. 16/20A 5 pin modular type International sockets and 1 No. 16/20A modular type controlling switch with 2 Nos. 4 Sq.mm. + 1 x 2.5 Sq.mm. (green				
	colour for earth) PVC insulated copper wire in pre - laid (as per ISI) M.S. conduit including				
	interconnection, painting etc. as required to be completed in all respect from DB to UPS/RAW				
	Power Outlet, Proper colour code must be followed.	4	No.		
11	Wiring for light/fan/exhaust fan points using 3 X 1.5 Sq MM 1.1 kV grade PVC insulated stranded				
	copper conductor wire(Finolex/Havell's/Richa/RR kebel/KEI/Polycab or equivalent) for phase,				
	neutral and earth in 25 mm dia heavy duty MS conduit along with associated accessories like MS				
	junction boxes, bends, saddles, screws etc. concealed in wall, floor, under flooring, below false				
	ceiling or on surface as well as suspended from ceiling with 25mm X 3 mm MS flat suspenders				
	duly painted above false ceiling from individual light/Fan/Exhaust Fan point outlet. etc. to				
	individual modular type switch boards, 10 Amp modular plate type switches				
	etc.(MK/Legrands/Havell's/ABB or equivalent), as required complete including circuit wiring with 3 X 2.5 sqmm. 1.1 kV grade PVC insulated stranded copper conductor wire and as per site				
	requirement and as instructed by Engineer-In -Charge.				
i)	One light controlled by one switch	86	No.s		
ii)	Wall fan point with 3 pin socket	12	No.s		
iii)	Glow sign board wiring	2	No.		
	1x16A 2/3 pin modular socket with switch on separate switch board outside the Cash Room				
iv)	complete with wiring. Suitable Top to be provided for supply to Cash Room, Record Room, Stationery Room, vault etc.	3	No.		
v)	6/10 A modular socket & switch at same board	10	No.s		
vi)	Ceiling Fan Point with electronic modular type regulator (2 module step, 120 watt rating)	3	No.s		
∨ii)	UPS light points(including UPS Room)	6	No.		
viii	Exhaust fan point	4	No.		
	Part B- SUPPLY AND INSTALLATION OF ELECTRICAL FITTINGS				
12	Supply ,Installation ,testing & Commissioning of 36W-2'x2' LED Panel light/luminaire recessed				
	mounted complete with all accessories. lumens >3000. Make: Philips/Wipro/GE/Crompton Greaves/Syska/Havells	14	No.s		
13	Supply ,Installation ,testing & Commissioning of 15W LED Downlighter recessed mounted of				
	make complete with all accessories Make: Philips/Wipro/GE/Crompton Greaves/Syska/Havells	61	No.s		
14	Supply installation testing and commissioning of 18W LED T5 Batten with glare free light fitting complete with all respect. Make: Philips/Wipro/GE/Crompton Greaves/Syska/Havells	15	Nos		
1.5	Supply & fixing of 35W LED Street Light with suitable mounting pipe & CFL Lamp etc. of Make:				
13	Philips/Wipro/GE/Crompton Greaves/Syska/Havells complete in all respect	2	Nos		
16	Supply and installation of Wall Mounted fan 450 mm, 3 pin Metallic Blade ,1400 rpm of				
	crompton/bajaj/usha/orient/Havells/Polar make or equivalent	12	No.s		
17	Supply and installation of Ceiling fan 1200 mm crompton greaves/bajaj/usha/havell's/orient	3	No.s		
	make		110.3		
18	Supply and installation of Exhaust Fan complete with all respect .Make:		l		
	crompton/bajaj/usha/havell's/Orient make Part C- LAN CABLING WORK	4	No.s		
	I GII C. THI CAPPING MOLY				

SI.No.	Description	Qty.	UOM	Rate (Rs.) (Exclusive of GST on work contract)	Amount (Rs.) (Exclusive of GST on work contract)
19	Supply and laying of E-Cat 6 UTP cable for the Data Circuit through the PVC conduit ,Rate to				
	include for termination on both end or as directed by E-I-C (Make: D-Link, AMP, HCL,DIGISOL)	595	Mtr		
	Supply and fixing of information outlet box suitable for 1 nos,RJ 45 terminals including mounting box(PVC) & top cover , to be fixed in a concealed manner in partition by necessary bolts & nuts or as directed at site,{Make: D-Link, AMP, Legrand ,HCL,DIGISOL}		No.s		
	Supply of 2 mtr. Long E-CAT 6 PATCH CHORD (Make: D-LINK, AMP, HCL, Legrand, Digisol)		No.s		
	Supply & installation of 9U Rack with power supply arrangement, ventilation fan, mounting racks etc. Complete with all accessories.		No.s		
23	Supply & Installation of 24 Port Switch. (Make: D-Link, DIGISOL)	1	No.s		
	GST on work contract will be extra as applicable.		Grand Total (in Rs)		