

PRICE BID Annexure-III

BOQ for Electrical Installation Works at Mahabalipur Branch and ATM

SI.No.	Description	Qty.	UOM	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 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.: 515V, 125 A 4P On-Load Changeover Switch 2 No.: Digital Multi Function Meter (MFM) one for DG and one for main Line 6 Nos.: LED Phase indicating lamps. 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 ATM 3 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 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.	155	DAA		
ii)	With 2 nos. 10 Sq.mm + 1 no. 6 Sq.mm. (green colour for earth) PVC insulated copper		RM		
,	wire in MS conduit from UPS to UPS DB or as per site requirement. With 2 nos. 6 Sq.mm + 1 no. 6 Sq.mm. (green colour for earth) PVC insulated copper wire in MS conduit for Cassettee AC(2.0 Tr) Wiring or as per site requirement. With 2 nos. 4 Sq.mm + 1 no. 4 Sq.mm. (green colour for earth) PVC insulated copper	30 140	RM RM		
17)	with 2 hos. 4 sq.min + 1 ho. 4 sq.min. (green colour for early) PVC insulated copper wire in MS conduit for AC(1.0/1.5 Tr). Wiring or as per site requirement.	42	RM		
i)	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) Computer DB, SPN double door with 40A (30mA-100 mA sensitivity) DP RCCB as incomer & 8 nos 10A SP MCB as outgoing. Raw Power DB, SPN double door with 40A (30mA-100 mA sensitivity)DP RCCB as	2	No.s		
	incomer & 8 nos 10A SP MCB as outgoing.	2	No.s		

iii) [A] UPS INCOMINC DB: Supply of all required materials and fixing of Input UPS box (Company mode) having provision of the following arrangement complete with all respects as per the direction of engineer in charge. Incoming: 1 No. 53A TPN MCB 100KM, Upstaging 2 No. 54 DISAD (10 No.) 1 No.5 No.5 No.5 No.5 No.5 No.5 No.5 No.5	SI.No.	Description	Qty.	UOM	Rate (Rs.) (Exclusive of GST on work contract)	Amount (Rs.) (Exclusive of GST on work contract)
specified purposes and process of the disease of the process of th	iii)	111				
1 No.5 1						
ivi 8) UPS OUTGOING BIS for UPS: Supply of all required materials and fishing of output UPS box (Company madel priving provision of the following amagement complete with all respects as per the direction of engineer in charge, incoming: I no. 63 A DP MCB. Very ONLOAD CHANGE OVER SWITCH: STC of 1 no. 415V, 63A, 2P with on indication on load Change over switch with suitable enclosure. Complete with all respect. I No.5 Vi DB with 25 A DP RCCB (2004 to 100 MnA), 4C Società 1, 60 pt AC Complete in all respect. Viii VIPN Double Door Distribution Board with provision of fixing MCCB as incomerchaving vertical fish bone busbar, with all internals such as DN channels.neutral link.internal wiring Jermination of circuits complete in all respects with housing of following: 63 A 4 Pole MCCB (25kA) as incomer and 1.2 Nos. 40 A 5 M MCBs to durglaing of opproved makes (for REDB/LDB/BM AC/Server A.C. power etc) VIPN Double Door Distribution Board with provision of fixing MCCB as incomerchaving vertical fish bone busbar, with all internals such as DN channels.neutral link.internal wiring Jermination of circuits complete in all respects with housing of followings: 63 A 4 Pole MCCB (25kA) as incomer and 1.2 Nos. 32 A 5P MCBs.at outgoing of approved make (for ACs) with all internals such as DN channels.neutral link.internal wiring sermination of circuits complete in all respects with housing of followings: 63 A 4 Pole MCCB (25kA) as incomer and 1.2 Nos. 32 A 5P MCBs.at outgoing of approved make (for ACs) with all internals such as DN channels.neutral link.internal wiring sermination of circuits complete in all respects with housing of followings: 125 A 4 Pole MCCB (25kA) as incomer and 1.2 Nos. 32 A 5P MCBs.at outgoing of approved make (for ACs) with all respects with housing of followings: 125 A 4 Pole MCCB (25kA) as incomer and 1.2 Nos. 32 A 5P MCBs.at outgoing of approved make (for ACs) with a service of the service of th						
box (Company made) having provision of the following arrangement complete with all respects of spet the direction of engineer in charge, Incoming: 1 no. 43 A DP MCB, Outgoing: \$10. 40A (10XA) DP MCB. VI ONLOAD CHARGE CVER SWITCH: SITC of 1 no. 415V, 63A, 2P with an indication on load Change over switch with suitable enclosure, Complete with all respect. I No.5 VI DB with 25 A DP RCCB (20mA to 100 mA), AC Socket 8 Top for AC complete in all respect. VI VIPN Double Door Distribution Board with provision of fixing MCCB as incomer, having vertical fish borne busbar, with all internals such as DIN channets.neutral infuriternal writing. Jermination of circuits complete in all respects with housing of following: 63 A 4 Pole MCCB (25AA) as incomer and 12 Nos. 40 A PMCBs.ct outgoing of approved materials for BDPUID BBBA ACREEW AC power etc. VII VIPN Double Door Distribution Board with provision of fixing MCCB as incomer.having vertical fish borne busbar, with all internals such as DIN channets.neutral infuriternal writing. Jermination of circuits complete in all respects with housing of following: 43 A 4 Pole MCCB (25AA) as incomer and 12 Nos. 32 A 5P MCBs.ct outgoing of approved maker for ATM etc.) VIPN Double Door Distribution Board with provision of fixing MCCB as incomer.having vertical fish borne busbar, with all internals such as DIN channets.neutral link: Internal writing. Jermination of circuits complete in all respects with housing of following: 43 A 4 Pole MCCB (25AA) as incomer and 12 Nos. 32 A 5P MCBs.ct outgoing of approved maker for ATM etc.) I VIPN Double Door Distribution Board with provision of fixing MCCB as incomer.having vertical fish bone busbar, with all internals such as DIN channets.neutral link: Internal writing. Jermination of circuits complete in all respects with housing of following: 125 A 4 Pole MCCB (25AA) as incomer and 12 Nos. 32 A 5P MCBs.ct outgoing of approved maker for a provide	:		ı	No.s		
all respects as per the direction of engineer in charge, Incoming: 1 no. 63 A DP MCB. Outgoing: SN. 40A (100A DP MCB) V) ONLOAD CHANGE OVER SWITCH: SITC of 1 no. 415V, 63A, 2P with on indication on load Change over witch with suitable enclosure. Complete with all respect. 1 No.s V) DB with 25 A DP RCCB (30mA to 100 mA), AC Socket 8 top for AC complete in all respects of the separation	IV)					
Outgoings Sha. ADA (10KA) DP MCB 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. Vi) DB with 25 A DP KCCB (30mA to 100 mA), AC Socket 8 Top for AC complete in all respect with of the spect of the complete of						
VI ONLOAD CHANGE OVER SWITCH: SITC of 1 no. 415V, 43A, 2P with an indication on load Change over switch with suitable enclosure. Complete with all respect. 1 No.s.			1	Nos		
load Change over switch with suitable enclosure. Complete with all respect. 1 No.5 vi) DB with 25 A DP RCCB (30mA to 100 mA), AC Socket & Top for AC complete in all respect with 25 A DP RCCB (30mA to 100 mA), AC Socket & Top for AC complete in all respects with 25 A DP RCCB (30mA to 100 mA), AC Socket & Top for AC complete in all respects with the suitable provided inkinternal wiring "Jerminolino of circuits complete in all respects with housing of following: -63 A 4 Pole MCCB (25kA) as incomer and .12 Nos. 40 A SP MCBs, at outgoing of approved makel for RPDB/IDMBM AC/Server AC power etc) 1 Set	\/\		- 1	140.5		
vi DB with 25 A DP RCCB (30mA to 100 mA), AC Socket & Top for AC complete in all respect vi VPRN Double Door Distribution Board with provision of fixing MCCB as incomer.having vertical fish bone busbar, with all internals such as DIN channels.neutral link.internal wiring, termination of circuits complete in all respects with housing of following: 43 A 4 Pole MCCB (25kA) as incomer and .12 Nos. 40 A 5P MCBs.at outgoing of approved makef for RPDB/IDB/BM.AC/Senver AC power etc) 1 Set viii VPRN Double Door Distribution Board with provision of fixing MCCB as incomer.having vertical fish bone busbar, with all internals such as DIN channels.neutral link.internal wiring termination of circuits complete in all respects with housing of following: 43 A 4 Pole MCCB (25kA) as incomer and .12 Nos. 32 A 5P MCBs.at outgoing of approved makef for ACM etc] viii VPRN Dauble Door Distribution 8 acrd with provision of fixing MCCB as incomer.having vertical fish bone busbar, with all internals such as DIN channels.neutral link.internal wiring termination of circuits complete in all respects with housing of following: 125 A 4 Pole MCCB (25kA) as incomer and .12 Nos. 32 A SP MCBs.at outgoing of approved makef for ACS viii viii internals such as DIN channels.neutral link.internal wiring termination of circuits complete in all respects and the following: 125 A 4 Pole MCCB (25kA) as incomer and .12 Nos. 32 A SP MCBs.at outgoing of approved makef for ACS viii	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ONLOAD CHANGE OVER SWITCH. SHE OF FINO. 413V, 65A, 21 WITH OH INDICATION OF				
vii) VTPN Double Door Distribution Board with provision of fixing MCCB as incomer,having vertical fish bone busbar, with all internals such as DIN channels, neutral link, internal wring, Jermination of circuits complete in all respects with housing of followings: 63 A 4 Pole MCCB (25kA) as incomer and, 12 Nos, 40 A 5P MCBs, at outgoing of approved maket (for RPDB/LDB/RM AC/Server AC power atc) 1 Set viii) VTPN Double Door Distribution Board with provision of fixing MCCB as incomer, having vertical fish bone busbar, with all internals such as DIN channels, neutral link, internal wring, Jermination of circuits complete in all respects with housing of followings: 63 A 4 Pole MCCB (25kA) as incomer and, 12 Nos, 32 A 5P MCBs, at outgoing of approved maket [roxTim etc]. Viii) VTPN Double Door Distribution Board with provision of fixing MCCB as incomer, having vertical fish bone busbar, with all internals such as DIN channels, neutral link, internal writing, Jermination of circuits complete in all respects with housing of followings: 125 A 4 Pole MCCB (25kA) as incomer and, 12 Nos, 32 A 5P MCBs, at outgoing of approved maket [roxTim etc]. viii Distribution of Complete with all internals such as DIN channels, neutral link, internal writing, Jermination of circuits complete in all respects and the following MCBs. INCOMING: 1 No. 240 VSA, 24 (10 kA) SP MCB, 32		load Change over switch with suitable enclosure. Complete with all respect.	1	No.s		
VIPN Double Door Distribution Board with provision of fixing MCC8 as incomer.having vertical fish bone busbar, with all internals such as DIN channels.neutral link.internal wiring _termination of circuits complete in all respects with housing of following: - 63 A 4 Pole MCC8 (25kA) as incomer and ,12 Nos. 40 A SP MCB's, at outgoing of approved make [for RPDB/IDB/BM AC/Server AC power etc] 1 Set Vipn ViPN Double Door Distribution Board with provision of fixing MCC8 as incomer.having vertical fish bone busbar, with all internals such as DIN channels.neutral link.internal wiring _termination of circuits complete in all respects with housing of following: - 63 A 4 Fole MCC8 (25kA) as incomer and ,12 Nos. 32 A SP MCB's, at outgoing of approved make [for/AIM etc]	vi)					
vertical fish bone busbar, with all internals such as DIN channels,neutral link.internal wiring , termination of circuits complete in all respects with housing of following: -63 A.4 Pole MCCB (25kA) as incomer and ,12 Nos. 40 A SP MCCB, at outgoing of approved make (for RPDB/IDB/BM AC/Server AC power etc) 1 Set vii) VIPN Double Door Distribution Board with provision of fixing MCCB as incomer.having vertical fish bone busbar, with all internals such as DIN channels,neutral link,internal wiring, termination of circuits complete in all respects with housing of following: -63 A.4 Pole MCCB (25kA) as incomer and ,12 Nos. 32 A SP MCBs, at outgoing of approved make (for/AIM etc) iv) VIPN Double Door Distribution Board with provision of fixing MCCB as incomer.having vertical fish bone busbar, with all internals such as DIN channels,neutral link,internal wiring, termination of circuits complete in all respects with housing of following: -125 A 4 Pole MCCB (25kA) as incomer and ,12 Nos. 32 A SP MCBs, at outgoing of approved make (for ACS) JLDB: consumer unit SPM MCB DB complete with all respects and the following MCBs. INCOMING: 1 No. 240V 32A(10KA) (30mA-100mA) DP MCB OUTGOING: 8 Nos. 240V SA-16A (10 KA) SP MCB: 4 Supplying, installation, testing & commissioning, laying, lugging,etc of PVC insulated aluminium ammoured 1.1 KV grade 3.5 cared cable of following size with making proper thrench/support on wall as per its specification and complete with all respect as per the instruction of Engineer-in-Change(E-LC). j) With 3.5 care x 55 sq. mm cable 5 Copper Bonded Rod Earthing, SITC 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 62561-7 c.) One nos of universal clamp. Product Certificate of company must be provided. 5 Copper Bonded Rod Earthing SITC of OBO Betterman/JK/JEF eco safe/ make earthing system -* . UL Listed Earth Electrode - Copper bonded loby One has of universal clamp. Product Cert		respect	7	No.s		
wring ,termination of circuits complete in all respects with housing of followings: 63 A 4 Pole MCCB (25kA) as incomer and ,12 Nos. 40 A 5P MCB's, at outgoing of approved make for PPBB/ILDB/IMA AC/Server ACD power etcl with provision of fixing MCCB as incomer, having vertical fish bone busbar, with all internois such as DIN channels, neutral link.internal writing ,termination of circuits complete in all respects with nousing of followings: 63 A 4 Pole MCCB (25kA) as incomer and ,12 Nos. 32 A 5P MCB's, at outgoing of approved make (forAIM etc). ia) VIPIN Double Door Distribution Board with provision of fixing MCCB as incomer, having vertical fish bone busbar, with all internois such as DIN channels, neutral link.internal writing, termination of circuits complete in all respects with housing of followings: 125 A 4 Pole MCCB (25kA) as incomer and ,12 Nos. 32 A SP MCBs, at outgoing of approved make (for ACS) IDB : Consumer unit SPM 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) SP MCB:) 4 Supplying, installation, testing & commissioning, laying, lugging, etc of PVC insulated aluminium armoured 1.1 KV grade 3.5 cored cable of following size with making proper trench/support on wall as per IS specification and complete with all respect as per the Instruction of Engineer-in-Change (E+C). I) With 3.5 core x 35 sq. mm cable 5 Copper Bonded Rod Earthing. SITC 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 S 3043 and In one self should include: a) One nos of turiversal clamp. Product Certificate of company must be provided. Earth Test Report to be submitted. (Including ATM Earthing) 5 Copper Bonded Rod Earthing SITC of OBO Betterman/JK/JEF eco safe/ make electrode, coating 250 microns - Tested as per IEC 62561-7 c) One nos of universal clamp. Product Certificat	vii)					
wring ,termination of circuits complete in all respects with housing of followings: 63 A 4 Pole MCCB (25kA) as incomer and ,12 Nos. 40 A 5P MCB's, at outgoing of approved make for PPBB/ILDB/IMA AC/Server ACD power etcl with provision of fixing MCCB as incomer, having vertical fish bone busbar, with all internois such as DIN channels, neutral link.internal writing ,termination of circuits complete in all respects with nousing of followings: 63 A 4 Pole MCCB (25kA) as incomer and ,12 Nos. 32 A 5P MCB's, at outgoing of approved make (forAIM etc). ia) VIPIN Double Door Distribution Board with provision of fixing MCCB as incomer, having vertical fish bone busbar, with all internois such as DIN channels, neutral link.internal writing, termination of circuits complete in all respects with housing of followings: 125 A 4 Pole MCCB (25kA) as incomer and ,12 Nos. 32 A SP MCBs, at outgoing of approved make (for ACS) IDB : Consumer unit SPM 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) SP MCB:) 4 Supplying, installation, testing & commissioning, laying, lugging, etc of PVC insulated aluminium armoured 1.1 KV grade 3.5 cored cable of following size with making proper trench/support on wall as per IS specification and complete with all respect as per the Instruction of Engineer-in-Change (E+C). I) With 3.5 core x 35 sq. mm cable 5 Copper Bonded Rod Earthing. SITC 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 S 3043 and In one self should include: a) One nos of turiversal clamp. Product Certificate of company must be provided. Earth Test Report to be submitted. (Including ATM Earthing) 5 Copper Bonded Rod Earthing SITC of OBO Betterman/JK/JEF eco safe/ make electrode, coating 250 microns - Tested as per IEC 62561-7 c) One nos of universal clamp. Product Certificat		vertical fish bone busbar, with all internals such as DIN channels,neutral link,internal				
Pole MCCB (25kA) as incomer and ,12 Nos, 40 A SP MCB's, at outgoing of approved moke (for RPDB/LDB/BM AC/Server AC power etc) in Will VIRD bouble Door Distribution Board with provision of fixing MCCB as incomer, having vertical fish bone busbar, with all internots such as DIN channels, neutral link internal witing, a termination of circuits complete in all respects with housing of following: 43 A 4 Pole MCCB (25kA) as incomer and ,12 Nos, 32 A SP MCB's, at outgoing of approved make (for ATM etc). In VIRD Double Door Distribution Board with provision of fixing MCCB as incomer, having vertical fish bone busbar, with all internals such as DIN channels, neutral link, internal wiring, a termination of circuits complete in all respects with housing of following: 125 A 4 Pole MCCB (25kA) as incomer and ,12 Nos, 32 A SP MCB's, at outgoing of approved make (for ACS) In DB: Consumer unit SPN MCB DB complete with all respects and the following MCBs. INCOMING: 1 No. 2404 224 (IDKA) (30mA-100mA) DP MCB OUTGOING: 8 Nos, 240V 6A-16A (10 KA) SP MCBD 4 Supplying, installation, testing & commissioning, laying, 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 as per is specification and complete with all respect as per the instruction of Engineerin-Charge(E-I-C). I) With 3.5 core x 25 sq. mm cable 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 self 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 bog [10 KG] Earth Enhancement Compound confirming to IEC 62561-7 c) One nos of universal clamp . Product Certificate of company must be provided. Earth lest Report to be submitted. (Including AIM Earthing)						
mokel for RPDB/LDB/BM AC/Server AC power etc) viii) VIPN Double Door Distribution Board with provision of fixing MCCB as incomer, having vertical fish bone busbar, with all internals such as DIN channels, neutral link, internal wiring, Itermination of circuits complete in all respects with housing of following: -63 A.4 Pole MCCB (25kA) as incomer and, 12 Nos. 32 A SP MCBs, at outgoing of approved makel forAIM etc) iv) VIPN Double Door Distribution Board with provision of fixing MCCB as incomer having vertical fish bone busbar, with all internals such as DIN channels, neutral link, internal wiring, Itermination of circuits complete in all respects with housing of following: -125 A.4 Pole MCCB (25kA) as incomer and, 12 Nos. 32 A.5 P. McBs, act outgoing of approved makel for ACS 1. I) DIS: Consumer unit SPM 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) SP MCBD 2. Set 4 Supplying, installation, testing & commissioning, laying, lugging, etc of PVC insulated aluminium armoured 1.1 KV grade 3.5 cored cable of following size with making proper thench'support on wall as per IS specification and complete with all respect as per the instruction of Engineer-in-Charge (E-I-C). i) With 3.5 core x 25 sq. mm cable 5 Copper Bonded Rod Earthing, STIC of OBO Betterman/JK/JEF eco safe/ make earthing system — * U. 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 IT 3000 CCER, Length — 3000 mm Outer Dia — 17.2 mm Copper bonded low carbon steel Electrode WITH 250 microns copper bonded b) One bog If D KCS 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. (Including ATM Earthing) 6 STIC at Earth distribution Box (Bus Bar Station) to be installed i						
VIPN Double Door Distribution Board with provision of fixing MCCB as incomer/having vertical fish bone busbar, with all internals such as DIN channels.neutral link.internal wiring Jermination of circuits complete in all respects with housing of followings: 63 A 4 Pole MCCB (25KA) as incomer and ,12 Nos. 32 A SP MCBS, at outgoing of approved make (forATM etc.)		Pole MCCB (25kA) as incomer and ,12 Nos. 40 A SP MCB's,at outgoing of approved				
vertical fish bone busbar, with all internals such as DIN channets.neutral link.internal wiring "termination of circuits complete in all respects with housing of following: 43 A 4 Pole MCCB (25kA) as incomer and .12 Nos. 32 A SP MCBs.ct outgoing of approved make (forATM etc). ix) YTRN Double Door Distribution Board with provision of fixing MCCB as incomer,having vertical fish bone busbar, with all internals such as DIN channets.neutral link.internal wiring "termination of circuits complete in all respects with housing of following: 125 A 4 Pole MCCB (25kA) as incomer and ,12 Nos. 32 A SP MCB's.at outgoing of approved make (for ACs). Ix) ILDB : Consumer unit SPN 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) SP MCBB. 4 Supplying, installation, testing & commissioning, laying, lugging,etc of PVC insulated aluminium armoured 1.1 KV grade 3.5 cored cable of following size with making proper trench/support on wall as per Is specification and complete with all respect as per the instruction of Engineer-in-Charge(E-I-C). iy With 3.5 core x 25 sq. mm cable iii) With 3.5 core x 25 sq. mm cable 70 RM 5 Copper Bonded Rod Earthing, SITC 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 if should include: a) One nos of Earthing rad-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 bog (10 KG) Earth Enhancement Compound confirming to IEC 62561-7 c) One nos of inviersal clamp . Product Certificate of company must be provided. Earth Test Report to be submitted. (Including ATM Earthing) 6 SITC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main Panel LIPS and el-lobby, comprising of a bus bar of 3x25x180mm Cu strip.			1	Set		
wifing Jermination of circuits complete in all respects with housing of following: - 43 A 4 Pole MCCB (25KA) as incomer and .12 Nos. 32 A SP MCB's, at outgoing of approved make(forATM etc) ix) YTPN Double Door Distribution Board with provision of fixing MCCB as incomer, having vertical fish bone busbar, with all internals such as DIN channets, neutral link, internal wiring, Jermination of circuits complete in all respects with housing of following: - 125 A 4 Pole MCCB (25KA) as incomer and .12 Nos. 32 A SP MCB's, at outgoing of approved make (for ACs) IX ILDB: Consumer unit SPN MCB DB complete with all respects and the following MCBs. INCOMING: 1 No. 2404 32A(10KA) (30mA-100mA) DP MCB OUTGOING: 8 Nos. 240V 6A-16A (10 KA) SP MCB: 4 Supplying, installation, testing & commissioning, laying, lugging, etc of PVC insulated aluminium armoured 1.1 KV grade 3.5 cored cabble of following size with making proper trench/support on wall as per is Specification and complete with all respect as per the instruction of Engineer-In-Charge(E-I-C). I) With 3.5 core x 25 sq. mm cable 5 Copper Bonded Rod Earthing. SITC of OBO Betterman/JK/JEF eco safe/ make earthing system = * - UL Listed Earth Electrode - Capper bonded low carbon steel electrode, coating 250 microns - Tested as per IEC 62561-2 - Meets the requirement of IS 3043 and In one self 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. (Including ATM Earthing) 6 SITC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main Ponel LUPS and e-lobby, comprising of a bus bar of 3x25x180mm Cu strip.	∨iii)	· · · · · · · · · · · · · · · · · · ·				
Pole MCCB (25kA) as incomer and ,12 Nos. 32 A SP MCB's at outgoing of approved makel forATM etc) ix) VTPN Double Door Distribution Board with provision of fixing MCCB as incomer,having vertical fish bone busbar, with all internals such as DIN channels,neutral link, internal wiring, Jermination of circuits complete in all respects with nousing of following: 125 A 4 Pole MCCB (25kA) as incomer and ,12 Nos. 32 A SP MCB's, at outgoing of approved makel for ACS) x) LDB: Consumer unit SPN 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) SP MCB; 4 Supplying, installation, testing & commissioning, laying, lugging,etc of PVC insulated aluminium armoured 1.1 KV grade 3.5 cored cable of following size with making proper french/support on wall as per 1's specification and complete with all respect as per the instruction of Engineer-In-Charge(E-I-C). i) With 3.5 core x 25 sq. mm cable 5 Copper Bonded Rod Earthing, STTC 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 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 Electrode WITH 250 microns copper bonded b) One bog (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. (Including ATM Earthing) 6 SITC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main 7 Supply and laying of 8 SWG Cu cotton coated wire in 20 mm dia rigid PVC conduit for						
make (for ATM etc) ix) VTPN Double Door Distribution Board with provision of fixing MCCB as incomer, having vertical fish bone busbar, with all internals such as DIN channels, neutral link, internal wring, termination of circuits complete in all respects with housing of following: 125 A 4 Pole MCCB (25kA) as incomer and ,12 Nos. 32 A 5P MCBs, at outgoing of approved make (for ACs) ILDB: Consumer unit SPN 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) SP MCB: 4 Supplying, installation, testing & commissioning, laying, lugging, etc of PVC insulated aluminium armoured 1.1 KV grade 3.5 cored cable of following size with making proper trench/support on wall as per IS specification and complete with all respect as per the instruction of Engineer-in-Charge (E+C). ii) With 3.5 core x 25 sq. mm cable 5 Copper Bonded Rad Earthing, SITC of OBO Betterman/JK/JEF eco safe/ make earthing system – * - UL Listed Earth Electrade - 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 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 b) One bag (10 KG) Earth Enhancement Compound confirming to IEC 62561-7 c) One nos of universal clarm . Product Certificate of company must be provided. Earth Test Report to be submitted. (Including ATM Earthing) 6 SITC of Earth distribution Bax (Bus Bar Station) to be installed in the branch near Main 7 Supply and laying of 8 SWG Cu cotton coated wire in 20 mm dia rigid PVC conduit for Mtr.						
VTPN Double Door Distribution Board with provision of tixing MCCB as incomer.having vertical fish bone busbar, with all internals such as DIN channels-neutral link-internal wiring ,termination of circuits complete in all respects with housing of followings: 125 A 4 Pole MCCB (25kA) as incomer and ,12 Nos. 32 A SP MCB's, at outgoing of approved make (for ACs) 1 Set 1 (DB: Consumer unit SPN 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) SP MCB: 2 Set 4 Supplying, installation, testing & commissioning, laying, lugging, etc of PVC insulated aluminium armoured 1.1 KV grade 3.5 cored coble of following size with making proper trench/support on wall as per IS specification and complete with all respect as per the instruction of Engineer-in-Charge(E+C). 1 With 3.5 core x 25 sq. mm coble 126 RM 18 With 3.5 core x 95 sq. mm coble 170 RM 18 Sec over x 95 sq. mm coble 170 RM 18 Sec over x 95 sq. mm coble 170 RM 18 Sec over x 95 sq. mm coble 170 RM 18 Sec over x 95 sq. mm coble 170 RM 18 Sec over x 95 sq. mm coble 18 South and the second of the searching system - * - UL Listed Earth Electrode - Copper bonded low corbon 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 18 Outer Dia - 17.2 mm Copper bonded low carbon steel Electrode WiTH 250 microns copper bonded Earth Electrode of company must be provided. Earth Test Report to be submitted. (Including ATM Earthing) 3 No.s 18 SET 18 Supply and laying of 8 SWG Cu cotton coated wire in 20 mm dia rigid PVC conduit for Mfr.		· · · · · · · · · · · · · · · · · · ·	1	Set		
vertical fish bone busbar, with all internals such as DIN channels,neutral link, internal wiring, termination of circuits complete in all respects with housing of followings: 125 A 4 Pole MCCB (25kA) as incomer and ,12 Nos. 32 A SP MCBs, at outgoing of approved make(for ACS) X) LDB: Consumer unit SPN 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) SP MCBs. 4 Supplying, installation, testing & commissioning, laying, lugging, etc of PVC insulated aluminium armoured 1.1 KV grade 3.5 cored coble of following size with making proper trench/support on wall as per IS specification and complete with all respect as per the instruction of Engineer-In-Charge(E-I-C). 1) With 3.5 core x 25 sq. mm cable 10 With 3.5 core x 25 sq. mm cable 11 Yes RM 12 RM 13 With 3.5 core x 95 sq. mm cable 14 Copper Bonded Rod Earthing. SITC 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 niversal clamp - Product Certificate of company must be provided. Earth Test Report to be submitted. (Including ATM Earthing) 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 Mft.	iy)		'	361		
wiring , termination of circuits complete in all respects with housing of following:- 125 A 4 Pole MCCB (25kA) as incomer and .12 Nos. 32 A SP MCBs, at outgoing of approved make(f for ACs) x) LDB: Consumer unit SPN MCB DB complete with all respects and the following MCBs. INCOMING: 1 No. 240V 324(10KA) (30mA-100mA) DP MCB OUTGOING: 8 Nos. 240V 6A-16A (10 KA) SP MCB: 4 Supplying, installation, testing & commissioning, laying, lugging, etc of PVC insulated aluminium armoured 1.1 KV grade 3.5 cored cable of following size with making proper trench/support on wall as per Is specification and complete with all respect as per the instruction of Engineer-In-Charge(E-I-C). i) With 3.5 core x 25 sq. mm cable 126 RM iii) With 3.5 core x 35 sq. mm cable 5 Copper Bonded Rod Earthing. SITC 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. (Including ATM Earthing) 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. Attricts Attri	1/7	, , ,				
4 Pole MCCB (25kA) as incomer and ,12 Nos. 32 A SP MCB's, at outgoing of approved make(for ACS) x) ILDB : Consumer unit SPN 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) SP MCB: 4 Supplying, installation, testing & commissioning, laying, lagging, etc of PVC insulated aluminium armoured 1.1 KV grade 3.5 cored cable of following size with making proper trench/support on wall as per IS specification and complete with all respect as per the instruction of Engineer-in-Charge(E-I-C). i) With 3.5 core x 25 sq. mm cable 126 RM ii) With 3.5 core x 25 sq. mm cable 5 Copper Bonded Rod Earthing, SITC 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. (Including ATM Earthing) 7 Supply and laying of 8 SWG Cu cotton coated wire in 20 mm dia rigid PVC conduit for Mtr.						
approved make(for ACs) x) LDB : Consumer unit SPM 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) SP MCBD 4 Supplying, installation, testing & commissioning, laying, lugging,etc of PVC insulated aluminium armoured 1.1 KV grade 3.5 cored cable of following size with making proper french/support on wall as per 15 specification and complete with all respect as per the instruction of Engineer-In-Charge(E-I-C) . 1) With 3.5 core x 25 sq. mm cable 2 ii) With 3.5 core x 35 sq. mm cable 3 iii) With 3.5 core x 95 sq. mm cable 4 or RM 5 Copper Bonded Rod Earthing. SITC 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. (Including ATM Earthing) 3 No.s 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 Mfr.						
INCOMING: 1 No. 240V 32A(10KA) (30mA-100mA) DP MCB OUTGOING: 8 Nos. 240V 6A-16A (10 KA) SP MCB. 4 Supplying, installation, testing & commissioning, laying, lugging,etc of PVC insulated aluminium armoured 1.1 KV grade 3.5 cored cable of following size with making proper trench/support on wall as per IS specification and complete with all respect as per the instruction of Engineer-In-Charge (E-I-C). i) With 3.5 core x 25 sq. mm cable ii) With 3.5 core x 35 sq. mm cable iii) With 3.5 core x 95 sq. mm cable 5 Copper Bonded Rod Earthing. SITC 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. (Including ATM Earthing) 6 SITC of Earth distribution Box (8us Bar Station) to be installed in the branch near Main SET 7 Supply and laying of 8 SWG Cu cotton coated wire in 20 mm dia rigid PVC conduit for		approved make(for ACs)	1	Set		
4 Supplying, installation, testing & commissioning, laying, lugging,etc of PVC insulated aluminium armoured 1.1 KV grade 3.5 cored cable of following size with making proper trench/support on wall as per IS specification and complete with all respect as per the instruction of Engineer-In-Charge (E-I-C). i) With 3.5 core x 25 sq. mm cable ii) With 3.5 core x 35 sq. mm cable 5 Copper Bonded Rod Earthing, SITC 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. (Including ATM Earthing) 3 No.s 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. Mtr.	x)	LDB: Consumer unit SPN MCB DB complete with all respects and the following MCBs.				
4 Supplying, installation, testing & commissioning, laying, lugging,etc of PVC insulated aluminium armoured 1.1 KV grade 3.5 cored cable of following size with making proper trench/support on wall as per IS specification and complete with all respect as per the instruction of Engineer-In-Charge (E-I-C). i) With 3.5 core x 25 sq. mm cable ii) With 3.5 core x 25 sq. mm cable iii) With 3.5 core x 35 sq. mm cable 70 RM 5 Copper Bonded Rad Earthing, SITC 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 flectrode 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. (Including ATM Earthing) 3 No.s 6 SITC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main SET 7 Supply and laying of 8 SWG Cu cotton coated wire in 20 mm dia rigid PVC conduit for		INCOMING: 1 No. 240V 32A(10KA) (30mA-100mA) DP MCB OUTGOING: 8 Nos. 240V				
aluminium armoured 1.1 KV grade 3.5 cored cable of following size with making proper trench/support on wall as per IS specification and complete with all respect as per the instruction of Engineer-In-Charge(E-I-C). i) With 3.5 core x 25 sq. mm cable ii) With 3.5 core x 35 sq. mm cable iii) With 3.5 core x 95 sq. mm cable 5 Copper Bonded Rod Earthing. SITC 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. (Including ATM Earthing) 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. Mtr.		6A-16A (10 KA) SP MCB	2	Set		
aluminium armoured 1.1 KV grade 3.5 cored cable of following size with making proper trench/support on wall as per IS specification and complete with all respect as per the instruction of Engineer-In-Charge(E-I-C). i) With 3.5 core x 25 sq. mm cable ii) With 3.5 core x 35 sq. mm cable With 3.5 core x 95 sq. mm cable 5 Copper Bonded Rod Earthing. SITC 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. (Including ATM Earthing) 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. Mtr.		Cumplying installation testing 9 commissioning leving lugging at at DVC insulated				
proper trench/support on wall as per IS specification and complete with all respect as per the instruction of Engineer-In-Charge(E-I-C). i) With 3.5 core x 25 sq. mm cable ii) With 3.5 core x 35 sq. mm cable iii) With 3.5 core x 95 sq. mm cable 70 RM 5 Copper Bonded Rod Earthing. SITC 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. (Including ATM Earthing) 6 SITC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main SET Panel JUPS and e-lobby, comprising of a bus bar of 3x25x180mm Cu strip. Mitr.	4					
per the instruction of Engineer-In-Charge (E-I-C). i) With 3.5 core x 25 sq. mm cable ii) With 3.5 core x 35 sq. mm cable iii) With 3.5 core x 95 sq. mm cable 5 Copper Bonded Rod Earthing. SITC 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. (Including ATM Earthing) 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. Mtr. Mtr.		-				
ii) With 3.5 core x 25 sq. mm cable ii) With 3.5 core x 35 sq. mm cable iii) With 3.5 core x 95 sq. mm cable 5 Copper Bonded Rod Earthing. SITC 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. (Including ATM Earthing) 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						
iii) With 3.5 core x 35 sq. mm cable iii) With 3.5 core x 95 sq. mm cable 5 Copper Bonded Rod Earthing. SITC 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. (Including ATM Earthing) 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	:1		107			
iii) With 3.5 core x 95 sq. mm cable 70 RM 5 Copper Bonded Rod Earthing. SITC 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. (Including ATM Earthing) 3 No.s 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. Mtr.		·		1		
5 Copper Bonded Rod Earthing. SITC 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. (Including ATM Earthing) 3 No.s 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		·		RM		
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. (Including ATM Earthing) 3 No.s 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. 3 Mtr.	iii)	With 3.5 core x 95 sq. mm cable	70	RM		
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I I ALA I MIT. I		Panel, UPS and e-lobby, comprising of a bus bar of 3x25x180mm Cu strip.	3			
I I ALA I MIT. I						
earthing From the earth pit to the Main panel/UPS.	7		010	Mtr.		
		earthing From the earth pit to the Main panel/UPS.	218			

SI.No.	Description	Qty.	uom	Rate (Rs.) (Exclusive of GST on work contract)	Amount (Rs.) (Exclusive of GST on work contract)
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 opening shall be covered with blank plate and be sealed to make the box vermin proof. B48	9	No.s		
9	Raw Power 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 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 blank plate and be sealed to make the box vermin proof.848	13	No.s		
	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	110	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 complete with wiring. Suitable Top to be provided for supply to Cash Room, Record Room, Stationery Room, vault etc. 6/10 A modular socket & switch at same board	3	No.		
v)		12	No.s		
			1		
vi)	Ceiling Fan Point with electronic modular type regulator (2 module step, 120 watt rating) UPS light points (including UPS Room)	8	No.s No.		

SI.No.	Description	Qty.	UOM	Rate (Rs.) (Exclusive of GST on work contract)	Amount (Rs.) (Exclusive of GST on work contract)
	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	17	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	82	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	16	Nos		
15	Supply & fixing of 35W LED Street Light with suitable mounting pipe & CFL Lamp etc. of Make: 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 make	4	No.s		
	Supply and installation of Exhaust Fan complete with all respect .Make: crompton/bajaj/usha/havell's/Orient make	5	No.s		
	Part C- LAN CABLING WORK				
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)	625	Mtr		
20	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)	16	No.s		
21	Supply of 2 mtr. Long E-CAT 6 PATCH CHORD (Make: D-LINK, AMP, HCL, Legrand, Digisol)	16	No.s		
22	Supply & installation of 9U Rack with power supply arrangement, ventilation fan, mounting racks etc. Complete with all accessories.	1	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.	Gı			