

PRICE BID Annexure-III

BOQ for Electrical Installation Works at PBB Kishanganj Branch and E-Lobby

SI.No.	Description	UOM	Qty.	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.: 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.: 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 & other 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) spare/ATM 3 No: 32 A DP MCB for Sign Boards and others Termination-II: (Not to be connected with Change over) 1 No: 100 A 4P MCCB (36 KA) for AC VTPN MCCBs Make - Legrands/L&T/SIEMENS/ABB/Schneider Electric/Havells or equivalent .MCCBs must have thermal & magneti release, with overload and short circuit adj protection	SET	1		
i)	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:- 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. With 4 nos. 10 Sq.mm + 1 no. 6 Sq.mm. (green colour for earth) PVC insulated copper wire in MS conduit for UPS or as per site requirement.	RM	170		
	With 2 nos. 10 Sq.mm + 1 no. 6 Sq.mm. (green colour for earth) PVC insulated copper wire in MS 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 conduit for e lobby UPS. Wiring or as per site requirement.	RM RM	15		
	With 2 nos. 4 Sq.mm + 1 no. 4 Sq.mm. (green colour for earth) PVC insulated copper wire in MS conduit for AC(1.5 Tr/1.0 Tr) Wiring or as per site requirement. With 2 nos. 2.5 Sq.mm + 1 no. 1.5 Sq.mm. (green colour for earth) PVC insulated copper wire in MS conduit as per site requirement.	RM	210		

3 Supply Installation Assitting and commissioning of distribution board manufactures made since if select with the following MCBs (DB. ACS and MCCB approved make) and connecting the same to the system. McS and MCCB approved make) and connecting the same to the system. McS and MCCB approved make and connecting the same to the system. McS and MCCB approved make and connecting the same to the system. McS and MCCB approved make and the system. McS and MCCB approved make and the system. McS and MCS MCB and social system. McS and MCS MCB and social system and the system and t	SI.No.	Description	UOM	Qty.	Rate (Rs.) (Exclusive of GST on work contract)	Amount (Rs.) (Exclusive of GST on work contract)
approved make) and connecting the same to the system. Make - Legrandy/ Hovels(JAT/SEMENS)/ABB/Schneider Blechic/Hogger or aquivalent). Il Compute Ds. SPN double door with 40, 60/an-100 mA sensitivity DP RCCB as incomer as 8 nos 104 SP McCB as outgains. Il Row Rows Ds. SPN double door with 40, 60/an-100 mA sensitivity DP RCCB as 10/an-100 mA sensitivi	3	Supply ,installation ,testing and commissioning of distribution board manufactures				
Superblinks/15/85/BB/SA/BB/Sa/Brokerister (Secrification or outwident)		made sheet steel enclosure With the following MCBs (DB, MCB and MCCB				
ii) Computer DB, SPM double door with 40A (30mA-100 mA sensitivity) DP RCCB as lacement & sensitivity DP RCCB & sensitiv		approved make) and connecting the same to the system.Make - Legrands/				
ii) Computer DB, SPM double door with 40A (30mA-100 mA sensitivity) DP RCCB as lacement & sensitivity DP RCCB & sensitiv		Havells/L&T/SIEMENS/ABB/Schneider Electric/Hager or equivalent)				
III Ali UPS INCOMING DB: Supply of all required materials and fixing of input UPS box Company madely having provision of the following arrangement complete with all respects per the direction of engineer in charge, incoming: 1 No. 63A TPN No. MCR 1066ApUtaging: 3 No. 8.3 At 10 NA IPB MCB. No. 63A TPN No. 63A TP	i)					
incomer & 8 nos 10A SP MCB as outpoing. (Company mode) having provision of the following arrangement complete with all respects per the discion of engineer in charge, incoming: 1No. 53A TPN MCB (10KA)Cutgoing: 3 Nos. 63 & 10KA) DP MCB (I) SI WIS CUCKONED BIO FURS: Supply) of all required materials and fising of output UPS box (Company made) having provision of the following arrangement complete with all respects as per the discion of engineer in charge, incoming: 1 No. 53 TPN No. 53 A DP MCB (Company made) having provision of the following arrangement complete with all respects as per the discion of engineer in charge, incoming: 1 No. 5 TPN (I) SI WIS 5 A DP MCB (COMPAN) A COMPAN (I) COMPAN			No.s	3		
iii) (A) UPSINCOMINS D8: Supply of all required materials and fising at final UPS box (Company made) having provision of the following arrangement complete with all respects per the direction of engineer in charge, incoming: 1 No. 63A TPN No.5 1 N	ii)	· · · · · · · · · · · · · · · · · · ·	Nas	2		
Company model having provision of the following arrangement complete with all respects per the direction of engineer in charge, incoming: 1 No. 63.8 IPN No.5 1 NO.	iii)		NO.S	3		
all respects per the direction of engineer in charge. Incoming: 1 No. 63A 1 PN MCB (IMCA)Outglanics; 3No. 63 A (10NA DP MCB) iv) § 1 UPS OUTGOING DB for UPS: Supply of all required materials and fixing of output UPS bw (Company mode) 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. Iv) 80 with 25 A DP MCB. Outgoing: 5 No. 40A (10KA) DP MCB. Iv) 80 with 25 A DP MCCB. Southoing: 5 No. 40A (10KA) DP MCB. Iv) 190 with 25 A DP MCCB. Southoing: 5 No. 40A (10KA) DP MCB. Iv) 190 with 25 A DP MCCB. Southoing: 5 No. 40A (10KA) DP MCB. Iv) 190 with 25 A DP MCCB. Southoing: 5 No. 40A (10KA) DP MCB. Iv) 190 with 25 A DP MCCB. Southoing: 5 No. 40A (10KA) DP MCB. Iv) 190 with 25 A DP MCCB. Southoing: 5 No. 40A (10KA) DP MCB. Iv) 190 boutle Door Distribution Board with provision of fisting MCCB as incomer.having vertical fish bone busbor, with all internals such as DIN channels.neutral link/internal wiring, Itemitation of circuits complete in all respects with housing of following: 30 A PC MCCB (25KA) as incomer and .06 No. 40 A SP MCBs and 90 Nos 10 A SP MCBs.at autgaing of approved make. Iv) 191 ND Double Door Distribution Board with provision of fisting MCCB as incomer.having vertical fish bone busbor, with all internals such as DIN channels.neutral link/internal wiring, Itemitation of fisting MCCB as incomer.having vertical fish bone busbor, with all internals such as DIN channels.neutral link/internal wiring. Ammination of circuits complete in all respects with housing of following: 10A A Pcle MCCB (34kA) as incomer and .21 Nos. 40 A SP MCBs and autgaing and engineering the following MCBs. NCCBs and autgains and authoring and authorin	,					
ivi 3) UPS OUTGOING D8 for UPS: Supply of all required materials and fising of output UPS box (Company mode) having provision of the following arrangement complete with 25 AC PP MCB. Outgoings: Sho. 40A; (10KA) PP MCB. vi OPR With 25 AC DP RCCB (30mA to 100 mA). AC Socket 8 top for AC complete in all respects of the company of the co						
output 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. 33 A DP MCB. Outgoing: 5 No. 40A (10KA) DP MCB. V) De with 25 A DP KCB (30mA to 100 mA), AC Socket & Top for AC complete in all No.5. I) De with 25 A DP KCB (30mA to 100 mA), AC Socket & Top for AC complete in all No.5. I) De with 25 A DP KCB (30mA to 100 mA), AC Socket & Top for AC complete in all No.5. II) No.5. II) No.5. II) No.5. III) No.5. III) No.5. III) No.5. III) No.6. III)			No.s	1		
complete with all respects as per the direction of engineer in charge, Incoming: 1 no. 33 A DP MCS. Outgoing: Sh. 40, 40 L (XA) DP MCB. 1) DB with 25 A DP RCCB (30mA to 100 mA), AC Socket & Top for AC complete in all respect. 2) VPPN Double Door Distribution Board with provision of fising MCCB as incomer.having vertical fish bone busbar, with all internals such as DIN charnets.neutral link, internal wiring , termination or circuits complete in all respects with housing of following: 43 A 4 Fole MCCB (25kA) as incomer and .12 No. 40 ASP MCBs at outgoing of approved make VPPN Double Door Distribution Board with provision of fising 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: 63 A 4 Pole MCCB (25kA) as incomer and .06 Nos. 40 ASP MCBs and 09 Nos 10 A SP MCBs, and upon the provision of fising 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: 63 A 4 Pole MCCB (25kA) as incomer and .06 Nos. 40 ASP MCBs, and 09 Nos 10 ASP MCBs, and outgoing of approved make 2) VIPN Double Door Distribution Board with provision of fising 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: 04 A Pole MCCB (35kA) as incomer and .12 Nos. 40 ASP MCBs, and outgoing of approved make 1) Nos. 40 ASP MCBs, and outgoing of approved make 1) Nos. 40 ASP MCBs, and outgoing of approved make 1) Nos. 50 ASP	iv)					
no. 63 A DP MCB. Outgoing: S. No. 40A (DKA) DP MCB y) B8 with 25 ADP RCCB (30m No. 10 D0 mA). AC Socket & Top for AC complete in all respect vi) VTPN Double Door Distribution Board with provision of fixing MCCB as incomer.having vertical fish bone bustor, with all internals such as DIN channet.neutral link.internal wiring stermination of circuits complete in all respects with housing of following:-33 A 4 Pole MCCB (25kA) as incomer and 12 Nos. 40 AS PMCB's at outgoing of approved make VTPN Double Door Distribution Board with provision of fixing MCCB as incomer.having vertical fish bone bustoan, with all internals such as DIN channets.neutral link.internal wiring stermination of circuits complete in all respects with housing of following:-33 A 4 Pole MCCB (25kA) as incomer and .05 Nos. 40 AS PMCB's and VPN Nos 10 AS PMCB's at outgoing of approved make. VIPN Double Door Distribution Board with provision of fixing MCCB as incomer.having vertical fish bone buston, with all internals such as DIN channets.neutral link.internal wiring stemination of circuits complete in all respects with housing of following:-100 A 4 Pole MCCB (25kA) as incomer and 12 Nos. 40 AS PMCB's and outgoing of approved make. VIII DIB: Consumer unil SPN MCB DIB complete with all internals such as DIN channets.neutral link.internal wiring stemination of circuits complete in all respects with housing of following:-100 A 4 Pole MCCB (36kA) as incomer and 12 Nos. 40 AS PMCB's and outgoing of approved make. Set VIII DIB: Consumer unil SPN MCB DIB complete with all respects and the following MCB's INCOMING: 11 No 2409 32A(10kG), 30mA-100mA) DP MCB OUTGOING: 8 Nos. 240V 6A-16A (10 KA) SP MCB's All services as a set the instruction of Engineerin-Charge(E+C). With 3.5 core x 25 sq. mm cable Nos. 10 Copper bonded Rod Earthing. STC of OBO Betterman/JK/JEF eco safe/ make and the provided and provided and provided and provided and provided and provided an						
v) DB with 25 A DP RCCB (30mA to 100 mA), AC Socket 8. Top for AC complete in all respect vi) VTPN Double Door Distribution Board with provision of fixing MCCB as incomer, having vertical fish bone busbor, with all internals such as DIN channels, neutral link internal wiring _termination of circuits complete in all respects with housing of followings: 43. A Pole MCCB (2 StAI) as incomer and ,12 Nos. 40 A SP MCB's at outgoing of approved make vive in the provision of thing 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: 43. A Pole MCCB (2 StAI) as incomer and .06 Nos. 40 A SP MCB's and 99 Nos 10 A SP MCB's at outgoing of approved make Set 1 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 witing _termination of circuits complete in all respects with housing of followings: 04 A Pole MCCB (3 StAI) as incomer and .05 Nos. 400 A PM CB's at outgoing of approved make Set 1 Nos. 400 A PM CB's at outgoing of approved make Set 1 Nos. 400 A PM CB's at outgoing of approved make Set 1 Nos. 400 A PM CB's at outgoing of approved make Set 1 Nos. 400 A PM CB's at outgoing of approved make Set 2 Nos. 2400 A A-164 (10 KA) SP MCB. Set 2 Nos. 2400 A A-164 (10 KA) SP MCB. Set 2 Nos. 2400 A A-164 (10 KA) SP MCB. Set 2 Nos. 2400 A A-164 (10 KA) SP MCB. Set 2 Nos. 2400 A A-164 (10 KA) SP MCB. Set 2 Nos. 2400 A A-164 (10 KA) SP MCB. Set 2 Nos. 2400 A A-164 (10 KA) SP MCB. Set 2 Nos. 2400 A A-164 (10 KA) SP MCB. Set 2 Nos. 2400 A A-164 (10 KA) SP MCB. Set 2 Nos. 2400 A A-164 (10 KA) SP MCB. Set 2 Nos. 2400 A A-164 (10 KA) SP MCB. Set 2 Nos. 2400 A A-164 (10 KA) SP MCB. Set 2 Nos. 2400 A A-164 (10 KA) SP MCB. Set 2 Nos. 2400 A A-164 (10 KA) SP MCB. Set 2 Nos. 2400 A A-164 (10 KA) SP MCB. Set 2 Nos. 2400 A A-164 (10 KA) SP MCB. Set 2 Nos. 2400 A Nos. 2400 A Nos. 2			Nos	1		
Respect No.	v)	DB with 25 A DP RCCB (30mA to 100 mA). AC Socket & Top, for AC complete in all	NO.S	l		
incomer,having vertical fish bone busbar, with all internals such as DIN channels, neutral link internal wing, termination of circuits complete in all respects with housing of following:-83 A 4 Pole MCCB (25kA) as incomer and ,12 Nos. 40 AS P.MCBs. at outgoing of approved make 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 wing, Jermination of circuits complete in all respects with housing of following:-83 A 4 Pole MCCB (25kA) as incomer and ,06 Nos. 40 AS P.MCBs and 097 Nos 10 A 5 P.MCBs, at outgoing of approved make vii) IVIPN 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 wing, Termination of circuits complete in all respects with housing of following:-100 A 4 Pole MCCB (35kA) as incomer and ,12 Nos. 40 AS P.MCBs, at outgoing of approved make viii) IDB: Consumer unit SPN NCB DB complete with all respects and the following MCBs. INCOMING: 1 No. 2409 32A(10kA) (30mA-100mA) DP MCB OUTGOING: B Nos. 240V 6A-16A (10 KA) SP MCBs. Nos. 240V 6A-16A (10 KA) SP MCBs. Viii) IDB: Consumer unit SPN NCB DB complete with all respects and the following invested aluminishum 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). Viii) With 3.5 core x 35 sq. mm cable RM S0 Viii) With 3.5 core x 35 sq. mm cable RM S0 Sc Capper bonded Rod Earthing. SITC of OBO Betterman/JK/JEF eco safe/ make earthing system -** . UL tised Earth Electrode - Copper bonded low carbon steel electrode, coating 250 microns - Tested as per IEC 62561-7 - Q. One nos of tearth ing rod-Type 17 3000 CCER, Length - 3000 mm Outer Dia - 17.2 mm Copper bonded low carbon steel electrode with 250 microns copper bonded 4 SITC of Earth distribution Box (Bus Bar S	*,		No.s	10		
channels,neutral link,Internal writing, Jermination of circuits complete in all respects with housing of followings: 34 A Palee McCB (25kA) as incomer and 12 Nos. 40 A SP McBrs. at outgoing of approved make 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 following: 43 A 4 Pole MCCB (25kA) as incomer and ,06 Nos. 40 A SP McBrs and 09 Nos 10 A 5P McBrs, and utgoing of approved make 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 writing, Jermination of circuits complete in all respects with housing of followings: 100 A 4 Pole McCB (34kA) as incomer and 12 Nos. 40 A SP McBrs at outgoing a approved make Vii) LIDB : 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 McBs. 4 Supplying, installation, testing & commissioning,Iurging,Iurging, et of PVC insulated aluminium amouved 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 interpret as per the instruction of Engineer-In-Charge(E4-C). 1) With 3.5 core x 25 sq. mm cable S Copper bonded Rod Earthing, STC of OBO Betterman/JK/JEF eco safe/ make arthing system -*. UL tisted Earth Electrode - Copper bonded low carbon steel electrode, coating 250 microns - tested as per lic Ce2561-2 - Meets the requirement of 15 3043 and in one set if should include: a) One nos of Earthing and Type 17 3000 CCER, Length - 3000 mm Outer Dia - 17.2 mm Copper bonded low carbon steel electrode with 250 microns copper bonded. Born the submitted. 7 Supply and laying of 8 SWG Cu cotton coated wire in 20mm dia rigid PVC	vi)	VTPN Double Door Distribution Board with provision of fixing MCCB as				
respects with housing of following:-63 A 4 Pole MCCB (25KA) as incomer and .12 Nos. 40 A 5P MCBs at outlaoing of approved make Set 1 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, termination of circuits complete in all respects with housing of following:-63 A 4 Pole MCCB (25kA) as incomer and .06 Nos. 40 A 5P MCBs and 09 Nos 10 A 5P MCBs, at outgoing of approved make Set 1 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 wiring, termination of circuits complete in all respects with housing of following:-100 A 4 Pole MCCB (36kA) as incomer and .12 Nos. 40 A 5P MCBs, and outgoing of approved make Set 1 viii) LDB: Consumer unit SPM MCB DB complete with all interpals such as DIN channels, neutral link internal wiring in the spects and the following MCBs, INCOMING: 1 No. 240V 32A(10KA) (30mA-100mA) DP MCB OUTGOING: 8 Nos. 240V 6A-16A (10 KA) 5P MCB. Set 2 4 Supplying, installation, testing & commissioning.laving.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 15 specification and complete with all respect as per the instruction of Engineerin-Charge(E-I-C). With 3.5 core x 25 sq. mm cable RM With 3.5 core x 25 sq. mm cable RM So With 3.5 core x 120 sq. mm cable RM Owing the structure of Engineerin Product Certificate of Low port of the structure of Engineerin Product Certificate of Low port of the structure of Engineerin Product Certificate of Copper bonded low carbon steel electrode With 250 micros copper bonded b) One bog [10 KG] Earth Test Report to be submitted. One nos of Earth get Engore to submitted. Figure 1. Specification of Low port of Low School Product Certificate of company must be provided. Earth Test Report to be submitted.						
Nos. 40 A SP MCBs, and outgoing of approved make 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 witing, Jermination of circuits complete in all respects with housing of following: 63 A 4 Pole MCCB (25kA) as incomer and .06 Nos. 40 A SP MCBs and 09 Nos 10 A 5P MCB's, at outgoing of approved make 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 wiring, Jermination of circuits complete in all respects with housing of following: 100 A 4 Pole MCCB (36kA) as incomer and .12 Nos, 40 A SP MCBs at outgoing of approved make Viii) LDB: Consumer unit SPN MCB DB complete with all respects and the following MCBs, INCOMING: 11 No. 2404 V3A(10KA) (30mA-100mA) DP MCB OUTGOING: 8 Nos. 240V 6A-16A (10 KA) SP MCB. 4 Supplying, installation, testing & commissioning, laying, Jugging, 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 pet is specification and complete with all respect as per the instruction of Engineer-In-Charge (E+C). 3 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 - Weets 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 experience of the provided. Earth Test Report to be submitted. Nos. 2 6 SITC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main Ponel and UPs, comprising of a bus bar of 3x25x180mm Cu strip. Altr.						
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 witing, termination of circuits complete in all respects with housing of following:-63 A 4 Pole MCCB (25kA) as incomer and .06 Nos. 40 A 5P MCB's and 09 Nos 10 A 5P MCB's, at outgoing of approved make vii) 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 witing, termination of circuits complete in all respects with housing of following:-100 A 4 Pole MCCB (36kA) as incomer and .12 Nos. 40 A 5P MCB's, at outgoing of approved make viii) 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. 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). 1) With 3.5 core x 25 sq. mm cable RM 50 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 electrade, coating 250 micros - Tested as per IEC &2561-7 c) One nos of Larthing rod-Type IT 3000 CCER, Length - 3000 mm Outer Dia - 17.2 mm Copper bonded low carbon steel electrade, coating 250 micros - Tested as per IEC &2561-7 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 and UPS, comprising of a bus bar of 3x25x180mm Cu strip. 7 Supply, and laying of 8 SWG Cu cotion coated wire in 20mm dia rigid PVC				1		
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 ,06 Nos. 40 A SP MCBs and 09 Nos 10 A SP MCBs, at outgoing of approved make Set 1 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 wining ,termination of circuits complete in all respects with housing of following; 100 A 4 Pole MCCB (36kA) as incomer and ,12 Nos. 40 A SP MCBs.at outgoing of approved make Set 1 viii) 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. Set 2 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 RM 50 ii) With 3.5 core x 35 sq. mm cable RM 60 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 Larthing rod-type 17 3000 CCER, length - 3000 mm Outer Dia - 17.2 mm Copper bonded so 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. No.s. 2 6						
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 ,06 Nos. 40 A SP MCBs and 09 Nos 10 A SP MCBs, at outgoing of approved make Set 1 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 wining ,termination of circuits complete in all respects with housing of following; 100 A 4 Pole MCCB (36kA) as incomer and ,12 Nos. 40 A SP MCBs.at outgoing of approved make Set 1 viii) 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. Set 2 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 RM 50 ii) With 3.5 core x 35 sq. mm cable RM 60 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 Larthing rod-type 17 3000 CCER, length - 3000 mm Outer Dia - 17.2 mm Copper bonded so 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. No.s. 2 6		·				
respects with housing of following:-63 A 4 Pole MCCB (25kA) as incomer and .06 Nos. 40 A 5P MCB's and 09 Nos 10 A 5P MCB's, at outgoing of approved make vii) VTPN Double Door Distribution Board with provision of fishing 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:-100 A 4 Pole MCCB (36kA) as incomer and .12 Nos. 40 A 5P MCB's, at outgoing of approved make viii) IDB : 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). 1) With 3.5 core x 25 sq. mm cable RM 50 50 Copper bonded Rod Earthing, SITC of OBO Betterman/JK/JEF eco safe/ make earthing system —* .1 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 if 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, coating 250 microns - Tested as per IEC 62561-7 c) one nos of tearthing 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 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. No.s. 2 6 SITC of Earth distribution Box (Bus Bar Stafion) to be installed in the branch near Main Panel and UPS, comprising of a bus bar of 3x25x180mm Cu strip.						
Nos. 40 A SP MCB's and 09 Nos 10 A SP MCB's at outgoing of approved make 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 witing stemination of circuits complete in all respects with housing of following:-100 A 4 Pole MCCB (36kA) as incomer and 1,2 Nos. 40 A SP MCB's, at outgoing of approved make Set 1 viii) 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 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 RM 50 ii) With 3.5 core x 25 sq. mm cable RM 60 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 - 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 bag [10 KG] Earth Enhancement Compound confirming to IEC 62561-7 c) One nos of farthing rod-Type 1.7 9000 CCER, Length - 3000 mm Outer Dia - 17.2 mm Copper bonded low carbon steel Electrode WITH 250 microns copper bonded b) One has gli Di KG] Earth Enhancement Compound confirming to IEC 62561-7 c) One nos of Earthing rod-Type 1.7 9000 CCER, Length - 3000 mm Outer Dia - 17.2 mm Copper bonded low carbon steel Electrode WITH 250 microns copper bonded b) One nos of Earthing rod-Type 1.7 9000 CCER, Length - 3000 mm One nos of Earthing rod-Type 1.7 9000 CCER, Length - 3000 mm One nos 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 wiring , fermination of circuits complete in all respects with housing of following: 100 A 4 Pole MCCB (36kA) as incomer and 1,12 Nos. 40 A SP MCBs, at outgoing of approved make viii) 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. Viii) 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. Set 2 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 RM 50 ii) With 3.5 core x 25 sq. mm cable RM 60 5 Copper bonded Rod Earthing, SITC of OBO Betterman/JK/JEF eco safe/ make earthing system -* - U. Listed Earth Electrode - Copper bonded low carbon steel electrode, conting 250 micross - 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 micross 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. No.s 2 6 SITC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main Panel and UPS, comprising of a bus bar of 3x25x180mm Cu strip. Type India				1		
channels, neutral link, internal wiring , termination of circuits complete in all respects with housing of following; 1.00 A 4 Pole MCCB (36kA) as incomer and 1,12 Nos. 40 A 5P MCB's, at outgoing of approved make Set 1 viii) 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 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 RM 50 ii) With 3.5 core x 25 sq. mm cable RM 60 5 Copper bonded Rod Earthing, SITC of OBO Betterman/JK/JEF eco safe/ make earthing system = 1 - 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 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 42561-7 c) One nos of universal clamp . Product Certificate of company must be provided. Earth Test Report to be submitted. No.s 2 6 SITC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main Panel and UPS, comprising of a bus bar of 3x25x180mm Cu strip. Type IV Automotic PVC Mitr	∨ii)					
respects with housing of following:-100 A 4 Pole MCCB (36kA) as incomer and 1,12 Nos. 40 A 5P MCBs.at outgoing of approved make viii) LDB : Consumer unit \$PN 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) \$P 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 RM 50 ii) With 3.5 core x 35 sq. mm cable RM 60 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 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. No.s 2 7 Supply and laying of 8 SWG Cu cotton coated wire in 20mm dia rigid PVC		incomer,having vertical fish bone busbar, with all internals such as DIN				
12 Nos. 40 A SP MCB's.at outgoing of approved make Set 1						
Viii) LDB: Consumer unit SPN MCB DB complete with all respects and the following MCBs. INCOMING: 1 No. 240V 32A(I0KA) (30mA-100mA) DP MCB OUTGOING: 8 Nos. 240V 6A-16A (10 KA) SP MCB. Set 2				1		
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-I-C). i) With 3.5 core x 25 sq. mm cable RM 50 ii) With 3.5 core x 35 sq. mm cable RM 60 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 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. No.s 2 6 SITC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main Panel and UPS, comprising of a bus bar of 3x25x180mm Cu strip. 7 Supply and laying of 8 SWG Cu cotton coated wire in 20mm dia rigid PVC	viii)		361	<u> </u>		
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 RM 50 ii) With 3.5 core x 35 sq. mm cable RM 60 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 rod-Type I 7 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. No.s 2 6 SITC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main Panel and UPS, comprising of a bus bar of 3x25x180mm Cu strip . SET 2	·,	MCBs. INCOMING: 1 No. 240V 32A(10KA) (30mA-100mA) DP MCB OUTGOING: 8	Set	2		
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 RM 50 ii) With 3.5 core x 35 sq. mm cable RM 60 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 rod-Type I 7 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. No.s 2 6 SITC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main Panel and UPS, comprising of a bus bar of 3x25x180mm Cu strip . SET 2						
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). With 3.5 core x 25 sq. mm cable RM 50	4					
all respect as per the instruction of Engineer-In-Charge(E-I-C). i) With 3.5 core x 25 sq. mm cable RM 50 ii) With 3.5 core x 35 sq. mm cable RM 55 iii) With 3.5 core x 120 sq. mm cable RM 60 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. No.s 2 6 SITC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main Panel and UPS, comprising of a bus bar of 3x25x180mm Cu strip . SET 2						
iii) With 3.5 core x 35 sq. mm cable iii) With 3.5 core x 120 sq. mm cable RM 55 iii) With 3.5 core x 120 sq. mm cable 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. No.s 2 6 SITC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main Panel and UPS, comprising of a bus bar of 3x25x180mm Cu strip . Supply and laying of 8 SWG Cu cotton coated wire in 20mm dia rigid PVC						
ii) With 3.5 core x 35 sq. mm cable RM 55 iii) With 3.5 core x 120 sq. mm cable RM 60 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. No.s 2 6 SITC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main Panel and UPS, comprising of a bus bar of 3x25x180mm Cu strip . SET 2	i)	With 3.5 core x 25 sq. mm cable	RM	50		
iii) With 3.5 core x 120 sq. mm cable 8M 60 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. No.s 2 6 SITC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main Panel and UPS, comprising of a bus bar of 3x25x180mm Cu strip . SET 2 7 Supply and laying of 8 SWG Cu cotton coated wire in 20mm dia rigid PVC	ii)	With 3.5 core x 35 sq. mm cable	RM	55		
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. No.s 2 6 SITC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main Panel and UPS, comprising of a bus bar of 3x25x180mm Cu strip . 7 Supply and laying of 8 SWG Cu cotton coated wire in 20mm dia rigid PVC Mtr	iii)	With 3.5 core x 120 sq. mm cable				
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. No.s 2 6 SITC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main Panel and UPS, comprising of a bus bar of 3x25x180mm Cu strip . 7 Supply and laying of 8 SWG Cu cotton coated wire in 20mm dia rigid PVC Mtr						
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. No.s 2 6 SITC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main Panel and UPS, comprising of a bus bar of 3x25x180mm Cu strip . 7 Supply and laying of 8 SWG Cu cotton coated wire in 20mm dia rigid PVC	5					
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. No.s 2 6 SITC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main Panel and UPS, comprising of a bus bar of 3x25x180mm Cu strip . 7 Supply and laying of 8 SWG Cu cotton coated wire in 20mm dia rigid PVC						
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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. No.s 2 6 SITC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main Panel and UPS, comprising of a bus bar of 3x25x180mm Cu strip . 7 Supply and laying of 8 SWG Cu cotton coated wire in 20mm dia rigid PVC						
c) One nos of universal clamp . Product Certificate of company must be provided. Earth Test Report to be submitted. No.s 2 6 SITC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main Panel and UPS, comprising of a bus bar of 3x25x180mm Cu strip . 7 Supply and laying of 8 SWG Cu cotton coated wire in 20mm dia rigid PVC						
provided. Earth Test Report to be submitted. No.s 2 6 SITC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main Panel and UPS, comprising of a bus bar of 3x25x180mm Cu strip. 7 Supply and laying of 8 SWG Cu cotton coated wire in 20mm dia rigid PVC Mtr.		, ,				
6 SITC of Earth distribution Box (Bus Bar Station) to be installed in the branch near Main Panel and UPS, comprising of a bus bar of 3x25x180mm Cu strip . 7 Supply and laying of 8 SWG Cu cotton coated wire in 20mm dia rigid PVC						
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7 Supply and laying of 8 SWG Cu cotton coated wire in 20mm dia rigid PVC Mtr.	6	, ,	SET	_		
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conduit for earthing from the earth pit to the Main panel/UPs. 180			Mtr.			
		conduit for earthing from the earth pit to the Main panet/urs.		180		

SI.No.	Description	NOM	Qty.	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		10		
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.B48 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)		16		
	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.	No	5		
	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/KEl/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	No.s	87		
ii)	Wall fan point with 3 pin socket Glow sign board wiring	No.s	12		
iii)	Olow agri board willing	No.	2		

SI.No.	Description	UOM	Qty.	Rate (Rs.) (Exclusive of GST on work contract)	Amount (Rs.) (Exclusive of GST on work contract)
	$1\times16A$ 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 etc.	No.	3		
v)	6/10 A modular socket & switch at same board	No.s	8		
vi)	Ceiling Fan Point with electronic modular type regulator (2 module step, 120 watt rating)	No.s	3		
∨ii)	UPS light points(including one point in e lobby)	No.	5		
viii	Exhaust fan point	No.	6		
	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	No.s	19		
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	No.s	50		
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	Nos	16		
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	Nos	2		
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	No.s	12		
17	Supply and installation of Ceiling fan 1200 mm crompton greaves/bajaj/usha/havell's/orient make	No.s	3		
18	Supply and installation of Exhaust Fan complete with all respect .Make: crompton/bajaj/usha/havell's/Orient make Part C- LAN CABLING WORK	No.s	6		
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-L-C(Make: D-Link, AMP, HCL,DIGISOL)	Mtr	720		
	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)		22		
21	Supply of 2 mtr. Long E-CAT 6 PATCH CHORD (Make: D-LINK, AMP, HCL, Legrand, Digisol)	No.s	22		
22	Supply & installation of 9U Rack with power supply arrangement, ventilation fan, mounting racks etc. Complete with all accessories.	No.	1		
23	MAIN TPN SFU: Supply, installation, testing and commissioning (SITC) of following TPN SFU with HRC fuses in sheet steel enclosure with cable end-box on MS Angle Frame/ MS Legs/ wall with interconnection, painting and finishing complete in all respect 200 A TPN SFU with HRC fuses	No.	1		
	GST on work contract will be extra as applicable.	n work contract will be extra as applicable. Grand Total (in Rs)			