TABLE -- 1

MAXIMUM CAPACITY OF CONDUITS FOR DRAWING OF <u>PVC INSULATED 650/1100V GRADE CABLES</u>

			T		<u> </u>				
SI. No.	Nominal area of	Approximate overall	Size of conduits						
	conductorin sq.mm.	Diameter of cable sq.mm.	20 mm	25mm	32mm	40mm	50mm		
1	1.0	2.8	5		13	r <u> </u>			
2	1.5	3.1	4		10	<u> </u>			
3	2.5	3.8	3	6	8		<u> </u>		
4	4	4.4		4	5	5	<u> </u>		
_ 5	6	5.3		3	. 4	<u> </u>			
6	10	6.8		2					
7	16	8.2				3			
8	25	10.0				3	5		
9	35	<u> </u>			<u>-</u>		5		
10		13.5							
<u> </u>				-	-	-	2		

The table applies to all types of conduits irrespective of whether they are light gauge or heavy gauge.



<u>GENERAL SUMMARY</u>

NOTE :

Rates to include any incidental expenses incurred on account of dismantling, handling, temporary stacking / storing and removal of existing partitions, grilles, furnture/electrical items etc. necessary for the work.

ECTION NO.	DESCRIPTION	FOLIO NO.	AMOUNT Rs.	AMOUNT Rs.
t	INTERIOR WORK	SCH-INT/5		
lī	FURNITURE WORK	SCH-FUR/2		
	ELECTRICAL WORK	SCH-E/1	- ``	. •
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		TOTAL :		



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SECTION - I INTERIOR_WORK

SL. NO,		UNIT	ατγ.	RATE (Rs.)	AMOUNT (Rs.)
1	Providing and fixing In position gypboard false celling in two levels as per design, with 12 mm thick gypsum board, including necessary framework of galvanized steel members, complete with recommended fillers, paper tapes and two coats of acrylic emulsion painting of approved shade and brand over two coats of primer of approved quality. Rates to include cost of making openings for celling mounted electrical/ air- conditioning accessories as per instructions.Frame work to be used in the work should be "Gypsteel" with hologram. (The york is to be carried out through authorized applicators of M/s.(SAINT- GOBAIN) Gyproc.)	Sqm.	62.00	1	
2	Supplying & fixing of approved mineral fibre false celling system on 15mm flange stitched suspension Silhouette black reveal grid system having maintee 3000 mm. long X 42 mm, web height X 15mm wide tee sections. The Main Runner is to be fixed with 2mm thick pre-stretched G.I. wire with solfit cleat & G.I. Rawl Plug Inserted on the main roof to be fixed at 1200mm C/C. The last hanger at the end of each main runner should not be greater than 450mm from the adjacent wall. The Main Runner will be at the distance of 1200mm C/C. The flush fitting 1200mm X 42mm X 15mm wide Cross Tee sections, with precision stub end is to be click fit in between the Main tee at a distance of 600mm to make a module of 1200mm X 400mm. Another cross tee with precision stub end of size 600mm X 42mm X 15mm is to be click fitted at 1200mm sections parallel to Main tee at 600mm centre to make a square grid of 600mm X 600mm.		. •		-
	All base frame material clip end should be made of cold rolled steel components & coated with hot dip galvanized steet. It should have a capping of material coated with baked polyester paint. The perimeter trim(shadow moulding) of dimension 3000 mm X 19mm X7mmX 7mm X 14mm, white colour secured at 450mm C/C. Silhouette main runners and cross tee to have mitred ends and "birdsmouth" notches to provide mitred cruciform junctions. Prima Dune Premier 99 of M/s. Armstrong or similar equivalent, pre-painted microlook edged tiles 15mm thick suitable for 600mm X 600mm grid to be placed on grid. Tiles should have NRC of 0.50, having light reflection of 85% and themail conductivity K-0.052-0.057 W/M degrees centigrade and weight of 3.90 kg/sq.mt. The Fire rating of tile should be class 0 for fire propogation & Class 1 for spread of flames as per BS-476, & having humidity resistance of For A.C. Grills & Light fixtures, additional members if required is to be provided into the grid system. The work has to be done as per the direction 8 supervision of Architect/Manufacturer's representative.	r F F	17.00	•	•
3	Providing and fixing 125 mm, while and 12 mm, thick BWR grade plyboard to be fixed on the wall at the junction of horizontal and vertical surface, the plyboard to be finished at he top up to 75 mm, depth with blue laminate shee and remaining portion with red laminate sheet of approved quality. Free edges of plyboard are to be provided with polished 6 mm, thick wood lipping, al	5 5	40.00		
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_	ITEM DESCRIPTION	UNIT	Ω ΤΥ.	RATE (Rs.)	AMOUNT (Rs.)
_	BROUGHT FORWARD :				<u> </u>
	Supplying and erecting full height opaque partitions (upto 3000 mm. high) as per drawing and conforming to the following specifications : <u>basic frame work</u> : well seasoned Malayasian sal wood sections, treated with two coats of wood preservatives, 60 mm wide x 40 mm (minimum) at maximum 600mm horizontal or vertical spacings as per site conditions. Vertical members shall be suitably extended upto, anchored and cross-tied at ceiling level.		. •		
	skin membrane : Single layer 6 mm thick MR grade plyboard on each face as per drawing/instructions.				
	finishing : One side finished with 1 mm thick laminate sheet of same or combination shadgs as per instruction and other side finished with two coats of synthetic enamel paint of approved shade and quality over a coat of approved primer on sigle layer MR grade plyboard. Quoted rates shall include all necessary materials, accessories and labour and		•	ŀ	
	also allow provisions for electrical/telephone/computer whing conduits and switch boxes, etc (Materials for whing conduits and switch boxes shall be separately paid for.)	Sqm.	42.00		
5	Supplying and erecting full height partly glazed partitions (upto 3000 mm. high) as per drawing and conforming to the following specifications: <u>basic frame work</u> : Well seasoned Malayasian sal wood sections, treated with two coals of wood preservatives, 60 mm wide \times 40 mm (minimum) at maximum 600mm horizontal or vertical spacings as per site conditions. Vertical members shall suitably with extended upto, anchored and cross-tied at ceiling level.		. -		
	Exposed frame members in the glazed portions shall have wider spacings (max. 1600 mm.clear) as per instructions. <u>skin membrane</u> : Opaque portion at top and bollom and exposed frame members in the glazed portions shall have single tayer 6 mm. thick MR grade plyboard on each face, as per drawing/instructions.		•	t	
	finishing : 1 mm thick laminate sheet of same or combination shades as per instructions <u>glazing</u> : 8 mm, thick clear float glass fixed with continuous teak wood glazing beads of approved shape (from 35 x 25 mm) all round , polished and coated with				-
	melamine lacquer finish. Quoted rates shall include all necessary materials, accessories and labour and also allow provisions for electrical/telephone/computer wiring conduits and switch boxes, etc (Materials for wiring conduits and switch boxes shall be		40.00		
	separately paid for.)	oqui			
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SL. NO.		UNIT	ατγ.	RATE (Rs.)	AMOUNT (Rs.)
	BROUGHT FORWARD :				!
6	Supplying and erecting low holight opaque partitions (uplo max. 1200 mm. high) as per drawing and conforming to the following specifications: <u>basic frame work</u> : well seasoned Malayasian sal wood sections, treated with two coats of wood preservatives, 60 mm wide x 40 mm(minimum) at maximum 600 mm horizontal or vertical spacings as per site conditions.				
	skin membrane Single layer 6 mm thick MR grade plyboard on each face, as per drawing/instructions. <u>finishing</u> : 1 mm thick laminate sheet of same or combination shades as per instructions.				
	<u>edge moulds</u> : All free top/end surfaces shall have polished teak wood moulds of approved shape of size 80 mm x 20 mm with melamine lacquer in mat satin finish.			,	•
	Quoted rates shall include all necessary materials, accessories and labour and also allow provisions for electrical/telephone/computer wiring conduits and switch boxes, etc (Materials for wiring conduits and switch boxes shall be separately paid for.)	Sqm.	6.00		-
7	Supplying and erecting wall/column panelling/single skin full height opaque partitions as per drawing and conforming to the following specifications :				
	Framework of aluminium sections (minimum 50 x 25 mm.) at horizontal and vertical spacings not exceeding 600 mm. c/c. Aluminium sections shall be suitable treated with appropriate wood preservatives. Single layer 6 mm thick MR grade plyboard as per drawing/instructions. 1 mm thick laminate sheet of same or combination shades as per instructions		. •		
	Quoted rates shall include all necessary materials, accessories and labour and also allow provisions for electrical/telephone/computer wiring conduits and switch boxes, etc (Materials for wiring conduits and switch boxes shall be separately paid for).	Sqm.	5.00		
8	Providing and fooing 12 mm thick clear float glass, machine polished along all free edges.	Sqm.	2,00		
9	Providing and erecting in position, Cash Workstation comprising of the basic workstation and a side - top unit conforming to relevant drawings and following specifications: <u>Basic workstation</u> Approximate overall size 1500mm. long, 850 mm. wide and 750 mm. high. The workstation shall include a customer - top of approx. overall size 1500 mm.		•	ı	
	long, 300 mm. wide and 1050 mm. high (finished size) The workstation shall be made of 19 mm thick, BWR grade blockboards, suitably supported on the peripheral parillion system. The workstation shall also include a cash - drawer unit of approx, overall size 400 mm. wide, 500 mm. deep and 725 mm, high comprising of one tea - tray		·		
	and three cash drawers of equal depth. It shall be made of 19mm. thick BWR grade blockboards and 12 mm, thick BWR grade plywoods for drawers. The customer side of the drawer unit shall be protected with a lining of 14G MS sheet over the entire area. The metal surfaces shall be finished with two coats of synthetic enamel paint over a coat of approved primer.		-		
	The customer - top shall be made of 19 mm, thick BWR grade blockboards with the writing surface finished with mirror polished granile stab of approved shade and quality (single plece upto 1500 mm, length and 300 mm, wide) fixed with approved chemical adhesive. The work shall also include necessary edge mouldings of the stone in approved profile.			· .	
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A box - band of 'U' profile made of 19 mm, thick BWR grade blockboards of approx, overall size 1500 mm, long, 300 mm, wide and max, 650 mm high shall be erected at height of approx. 1050 mm, above the customer top level. The box- band shall be supported on the peripheral partition system and shall be finished with 1 mm. thick laminate sheet of approved shade over an additional layer of minimum 5.5 mm, thick MDF board in grooved patiem.

The vertical gap between the customer - top and the box - band (approx, 1050 mm.) shall have 12 mm clear float glazing in two pieces (1 No. 1500 mm. x 300 mm. and 1 No. 1500 mm. x 550 mm. approx.) as per drawing / instructions. Glass edges shall have machine polished finish. Fixing arrangements of glazings shall be with SS glazing cleats and supporting angles of approved quality at both ends.

All blockboard surfaces shall be finished with 1 mm, thick laminate sheet of approved shade or combination of shades as per instructions. Inner faces of workstation including cabinets and drawers shall have polished finish. Blockboard edges shall have polished lippings of approved quality wood. Lamination of the apron part shall be on an additional layer of 4 mm, thick BWR grade plywood laid in grooved pattern.

Basic side - top unit

Approx, overall size 1200 mm, long, 400 mm, deep and 725 mm, high. The side top shall also include a drawer unit of approx, overall size 400 mm, wide, 400 mm deep and 700 mm-high comprising of one ordinary drawer (approx. 100 mm. clear height) and one shuttered cabinet below.

The side - top unit shall be made of 19 mm thick BWR grade blockboards and 12 mm, thick BWR grade plywood for drawers. It shall be suitably supported from the peripheral partition system and the workstalion structure.

All blockboard surfaces shall be finished with 1 mm thick laminate sheet of approved shade or combination of shades as per instructions. Inner faces of workstation including cabinets and drawers shall have polished finish. Blockboard edges shall have polished lippings of approved quality wood.

Accessories

accessories: Readymade metal keyboard drawer (INNOFITT/ IS KD 510 M or similar approved)

Readymade CPU Trolly (INNOFITT / IS CPU TR)

Approved quality drawer slides (25 kg) (EGL / GLYDO)

Approved quality concealed type auto - closing shutter hinges

Approved quality shutter / drawer locks with keys in duplicate.

Approved quality SS cabinet / drawer handles in matt satin finish.

Approved quality wire managers (plastic).

Rates to include all necessary allied works. Partition system shall be separately paid for.

Supplying and fixing in position well seasoned teak wood scantling to door 10 frame as directed and specified. Exposed surfaces are to be polished in approved colour and finished with melamine lacquer in mat satin finish.

Supplying and fixing in position 37 mm thick party glazed door shutter made 11 of 15 mm thick well seasoned second class teak wood planks with double layer (6 mm + 4 mm thick) commercial plywood finished with 1.00 mm thick laminate sheet (without joints) of approved quality on both sides of the door shutler upto 900 mm from floor level. The upper portion of the shutler is to be provided with 6 mm thick clear float glass fixed with polished steam beech wood glazing beads of approved design, complete as per drawing. Rate to include cost of hardware fittings e.g.mortice locks, brass hinges etc. of approved make and quality.

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SL. NO.	ITEM DESCRIPTION	UNIT	Ω ΤΥ.	RATE (Rş.)	AMOUNT (Rs.)
	BROUGHT FORWARD :				
12	Supplying and fixing in position overall 32 mm thick solid core hot pressed phenol formaldehyde bonded approved flush door shutter finished with 1.0 mm thick laminate sheet (without joints) of approved shade and quality on both sides of the door shutter including cost of hardware fittings e.g.brass hinges, Mortice lock sets with handles etc.of approved make and quality.	Sqm.	13,00		-
13	Providing and fixing slim - stille door made of 50 mm thick well seasoned first class leak wood of special design for stiles and ralls, with 8 mm thick dear float glass, necessary hardware fixtures of approved make and design, viz., brass flush bolt, stainless steel decorative tubular handle (Dorset or equivalent approx. 600 mm long) on both faces, including floor spring complete as per Instructions. Wooden surfaces shall be polished in approved shade melamione lacquer in mat satin finish.		2.20		
14	Providing and fixing etching films (frosted) of approved quality on glass surfaces of approved graphical design in patterns of strips as directed.	Sqm.	25.00		
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TOTAL CARRIED TO GENERAL SUMMARY :				
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<u>SECTION - II</u> <u>FURNITURE_WORK</u>

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sl. No.		UNIT	QTY.	RATE (Rs.)	AMOUNT (Rs.)
1.	Providing and erecting in position, free - standing table as per drawing and conforming to the following specifications : basic structure of 19 mm thick BWR grade block board for sides, top and modesty panel, finished with 1.00 mm thick laminate sheet of approved shade and make including inner faces. The laminate on the front face of modesty panel shall be on an additional single layer of 4 mm BWR plyboard forming 4 x 4 mm groove pattern. drawer-cum-cabinet unit of approximate overall size of 400 x 500 x 725 mm (w x d x h) of 19 mm thick BWR grade block board and 12/6 mm thick BWR grade plywood. The drawer unit shall comprise of one readymade drawer manager of engineering plastic (DM BG 1416/ INNOFITT SYSTEMS or similar) with laminated block board facia, one ordinary drawer and one cabinet with inner faces polished in approved shade. The drawer unit shall be finished with 1.00 mm thick laminate sheet of approved shade including inner faces of cabinet shutters.				
i) ii)	Readymade keyboard drawer of engineering plastic (KD 575. P.MT / INNOFITT SYSTEMS or similar) and all necessary accessories , suitably susppended below table top; Readymade CPU holder with swivel facility (CPU HL SW / INNOFITT SYSTEMS or similar) Quoted rates shall also include cost of polished teak wood moulding (finished 40x20 mm and 20 x 20 mm sections) to edges; polished teak wood lipping (6mm thick) to free edges of block board /plywood surfaces ; approved drawer- slides , concealed type auto - closing shutter hinges and locks with keys in duplicate; other necessary hardware and accessories including satin finish S.S handles and plastic wire - managers etc. of approved quality. Approx. size 1800 x 900 x 750 mm Approx, size 1500 x 750 x 750 mm	Each Each	- 1 2		
11) 2	Supplying and erecting in position running tables of approx. overall size 750			•	
	mm. deep and 750 mm. high conforming to the following specifications : Basic structure of 19 mm. thick BWR grade blockboard with one drawer unit per each length of maximum 1200 mm. The drawer unit shall comprise of one tea - tray, one ordinary drawer(approx. 125 mm. high) and one cabinet below.	÷	-		
	Blockboard surfaces shall be finished with 1 mm. thick laminate of approved shade. Inner faces of tables, cabinets and drawers shall be polish finished. Free blockboard/plywood edges shall have polished approved quality wood lippings.				
	The work shall also include the following accessories : Readymade metal keyboard drawer (INNOFITT / IS KD 510 M or similar Readymade CPU Trolly (INNOFITT / IS CPU TR)				
	Approved quality drawer slides (25 kg) (EGL / GLYDO) Approved quality conceated type auto - closing shutter hinges Approved quality shutter / drawer locks with keys in duplicate. Approved quality SS cabinet / drawer handles in malt satin finish.				
	Approved quality wire managers (plastic).	Mir.	. 2,00		
3	Providing free standing Daptari table of approx. overall size 900 mm x 600 mm x 750 mm high, made of well seasoned malaysian sal wood support of 50 mm x 50 mm and 19 mm. thick block board on top finished with 1.0 mm thick laminate sheet of approved shade and quality. The exposed edges of	· ·	. <i>.</i>	· · ·	
	block board shall be provided with 6 mm, thick teak wood lipping. All the exposed timber surfaces are to be polished in approved colour.	Each	1		
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SL. NO.	ITEM DESCRIPTION	דואט	Q ΤΥ.	RATE (Rs.)	AMOUNT (Rs.)
	BROUGHT FORWARD :				
4	Providing and erecting in position side / back cabinet units with sliding shutters of approx. size of 450 mm deep x 725 mm high made of 19mm thick BWR grade blockboards including intermediate shelves as per drawing <i>l</i> instructions. The rear faces shall be of 6 mm thick BWR grade plyboard. Exposed blockboard surfaces shall be finished with 1.00 mm laminate sheet of approved shade and make . Inner faces shall be polished in approved shade. Free edges of blockboard shall have polished approved quality wood lipping. Quoted rates shall include cost of necessary hardware, viz., SS flush handles, locks with keys in duplicate and approved sliding channels etc.	. · · Mtr.	4.00		
5	Supplying and fixing free-standing customer writing ladge/suggestions box/Cheque drop box/writing ledge of overall size 450 mm long x 300 mm deep x 900 mm high made of 19 mm thick phenol formaldehyde block board, all as in drawing, complete with hardware fittings and fixtures of old materials of existing Branch. On top 18 mm thick single piece granite of approved shade and quality including moulding piece, all complete as in drawing.	- - -	•		
	All exposed surfaces of block board are to be finished with 1mm thick laminate sheet of approved shade and quality. Inner faces of block board surfaces are to be finished with minimum two coats of synthetic enamal paint of approved shade and quality over a coat of approved primer.	Eách	1		
6	Providing and fixing in position notice board as per drawing and conforming to the following specifications <u>basic frame work</u> : well seasoned Malayasian sal wood sections, treated with two coats of wood preservatives, minimum 50 x 25 mm, at suitable horizontal / vertical spacings not exceeding 600 mm c/c. <u>skin membrane</u> : 1 x 4 mm. thick BWR grade plywood over which 12 mm thick approved quality soft board cladded with fabric of approved shade and quality.	-	-		·
•	edge moulding : All free edges shall have polished 2nd class teak wood moulds of approved shape (finished 50 x 25 mm sectons) with melamine lacquer in mat finish.	. Sqm	2,00	•	
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ELECTRICAL SUMMARY OF COST

IMPORTANT NOTE :

- i) Megger test of the newly installed electrical system shall be mandatory.
- ii) Bidders shall make themselves familiar with actual site conditions before submitting their rates.
- Iii) The successful bidder assigned to execute the work shall make necessary arrangements to dismantle the existing wiring system, electrical fittings, A.C. wirings, UPS & LAN in a phased manner and also temporarily re- install the same to facilitate normal functioning of the Branch/Office according to actual site conditions. The quoted rates shall have to be accordingly worked out by the bidders and no separate claims on these accounts shall be entertained.
- iv) During the execution period, the contractors shall ensure presence of a competent electrician in order to maintain normal office activities.

NO.	DESCRIPTION	FOLIO NO.	Amount Rs.
A	DB'S,CABLING AND WIRING WORK	SCH-E/6	
в	SUPPLY OF LIGHT FITTINGS & FANS	SCH-E/7	
с	COMPUTER POWER WIRING	SCH-E/9	
	·	•	
	TOTAL CARRIED TO GENERAL SUMMARY	:	_ <u></u>



SCH-E/1

A. DB's, CABLING AND WIRING WORK

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	SL. NO,	ITEM DESCRIPTION	UNIT	QTY.	RATE (Rs.)	AMOUNT (Rs.)

1.1 MAIN SWITCH

Supply and fixing of Switch Fuse Unit (SFU) with HRC fuse in sheet steel enclosure on M.S. angle frame / M.S. legs on wall complete with interconnection, mending good damages to original finish, painting, etc. as required.

1) 100 A TPN SFU with HRC fuses.

ii) 63 A TPN SFU with HRC fuses.

1.2 CHANGE OVER SWITCH (COS)

Supply, installation, testing and commissioning of 63A 4P On load front operated change over switch in sheet steel enclousure on M.S legs on wall complete with interconnection, mending good damages to original finish, painting etc. as required.

1.3 MCB DISTRIBUTION BOARD

Supply, installation, testing and commissioning of following MCB Distribution Board In sheet steel enclosure with double door and suitable for mounting on wall by chase cutting and flushed with finished level to the position shown in the Electrical Layout complete in all respect, mending good all damages to the original finish, painting, interconnection, etc. as required. Short circuit 1.C. of all MCBs should be 10 KA (minimum) and RCBO should have earth leakage, overload and short circuit protection. Name plate of DB's to be fixed / written on front door alongwith switch board numbers / DB's at the outgoing.

a) MAIN DISTRIBUTION BOARD (MDB)

TPN 6 way vertical type MCB DB complete with busbar and the following MCBs : Incoming 1 no. : 63A 4P MCB iso.

Oulgoing : 1 no. : 415V,32A TP, MCB 6 nos. : 240V, 20-25A SP MCB 3 nos. : 240V,16A SP MCB ⁻

Complete board as above

b) Lighting Distribution Board (LDB)

TPN 4 way vertical type MCB DB complete with busbar and the following MCBs :

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Incoming 1 no. : 40A FP MCB

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Each.

Each

Each.

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SL. OX ITEM DESCRIPTION UNIT QTV. PATE (Rs.) AMOUNT (Rs.) BRQUGHT FORWARD : D BRQUGHT FORWARD : D Contd D Guidolina : C (Rs.) AMOUNT (Rs.) b) Contd Complete Subsci : 25A TP MCB 2X32A DPMCB Each. 1 complete board is above Each. 1 c) 12 way Horizontal type SPN DB Incoming: 1 No. 32 A DB MCB (20 KA) Quidoing i 10x6/10a SPMCB Each. 1 d) MCB FOR GLOW SIGNBOARD Supply and fixing of 20A SPN MCB & 20A timmer with 40A DP contractor subable enclosure on wall for enclosure on wall for Glow Sign board connection. Each. 1 14 DISTRIBUTION CABLE : Supplying of 1.1 KV grade following PVC insulated and PVC sheathed armoured aluminium conductor cables conforming of IS:1554 (Part-) : Mir. 45.00 45.00 b) 3.5 core 35 Sq.mm. B) Mir. 45.00 45.00 Supplying of 1.1 KV grade following PVC insulated and PVC sheathed armoured aluminium conductor cables conforming of IS:1554 (Part-) : Mir. 45.00 5.000 b) 3.5 core 35 Sq.mm. B) Mir. 45.00 45.00 Supplying and fining of Cashe and mending good damages or parkify through pre-lial pipe. B) Supplying and fining of compression type brass cable gland alongwith rubber nigs for duat and medisture prof or minding mutering in table and fining the end by crimping method holiding supplying and fining of compression type brass cable gland alongwith rubber nigs for duat and medisture prof or min				INDIAI	N BANK - KES	HOPUR BRANC
b) Contd Outgoins : 3 Nos : 25A TP MCB 2X:32A DPMCB Each. Complete board as above Each. c) 12 way Horizontal type SPN DB Incoming : 1 No. 32 A DB MCB (20 KA) Outgoing : 1 No. 33 Core 35 Sq.mm. 1 A core 16 Sq.m		ITEM DESCRIPTION	UNIT	Ω ΤΥ.		1
Outgoins : 3 Nos. : 25A TP NCB 2X32A DPMCB Each. 1 Complete board is above Each. 1 c) 12 way Horizontal type SPN DB Incoming: 1 incoming: 1 No. 32 A DB MCB (20 KA) Outgoing: Each 1 d) MCB FOR GLOW SIGN BOARD Each 1 Supply and fixing of 20 A SPN MCB & 20A Himmer with 40A DP contractor subtable enclosure on wall for enclosure on wall for Glow Sign board connection. Each 1 d) MCB FOR GLOW SIGN BOARD Each 1 Supply and fixing of 20 A SPN MCB & 20A Himmer with 40A DP contractor subtable enclosure on wall for enclosure on wall for Glow Sign board connection. Each 1 d) MCB FOR GLOW SIGN BOARD Each 1 Supplying of 1.1 KV grade following PVC insubated and PVC sheathied armoured aluminium conductor cables conforming of IS:1554 (Part-1) : Mfr. 45.00 h 3.5 core 35 Sq.mm. Mfr. 50.00 b LAYING OF CABLE Image: Sq.mm. Mfr. l) 3.5 core 35 Sq.mm. Mfr. 50.00 g) 3.5 core 35 Sq.mm. Mfr. 50.00 g) CABLE GLAND AND FINISHING THE END Supplying and fixing of compression		BROUGHT FORWARD :		•	<u> </u>	<u> </u>
3 Nos. : 25A TP MCB 2X32A DPMCB Complete board is above Each. 1 c) 12 way Horizontal type SPN DB Incoming : 1 No.3 2A DB MCB (20 KA) Outlobing: 10x3010a SPMCB Each 1 d) MCB FOR GLOW SIGN BOARD Supply and fixing of 20A SPN MCB & 20A timmer with 40A DP contractor suitable endosure on wall for endosure on wall for Glow Sign board connection. Each 1 d) MCB FOR GLOW SIGN BOARD Supply and fixing of 20A SPN MCB & 20A timmer with 40A DP contractor suitable endosure on wall for endosure on wall for Glow Sign board connection. 1 d) MITRIBUTION CABLE: Supplying of 1.1 KV grade following PVC insulated and PVC sheathed amounted aluminium conductor cables conforming of IS:1554 (Part-): Mtr. 45.00 h 3.5 core 35 Sq.mm. Mtr. 45.00 h 4 core 16 Sq.mm. Mtr. 45.00 b) LAYING OF CABLE Mtr. 45.00 Laying of above cable from metre to MDB on wall/column/as per side condition including supply and fixing of M.S. ctamps/galvanies of addles & 300 mm apart, making holes and mending good damages or parity through pre-lold pipe. Mtr. 45.00 i) 3.5 core 35 Sq.mm. Mtr. 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 <td>b)</td> <td>Contd</td> <td></td> <td></td> <td></td> <td></td>	b)	Contd				
 Complete total of source c) 12 way Horizontal type SPN DB Inconting: 1 No. 32 A DB MCB (20 KA) Outgoing: Oxfito SPMCB Each 1 MCB FOR GLOW SIGN BOARD Supply and fixing of 20A SPN MCB & 20A timmer with 40A DP contractor suitable enclosure on wall for enclosure on wall for Glow Sign board connection. DISTRIBUTION CABLE : SUPPLYING OF CABLE : Supplying of 1.1 KV grade following PVC insulated and PVC sheathed armoured aluminium conductor cables conforming of IS:1554 (Part-I): i) 3.5 core 35 Sq.mm. ii 4 core 16 Sq.mm. iii 4 core 16 Sq.mm. iiii 4 core 16 Sq.mm. iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii		3 Nos. : 25A TP MCB		, ^{, ,}		
Incomina: 1 No. 32 A DB MCB (20 KA) Oulidation: 10x/0103 SPMCB Each 1 0 MCB FOR GLOW SIGN BOARD Supply and fixing of 20A SPN MCB & 20A timmer with 40A DP contractor suitable enclosure on wall for enclosure on wall for Glow Sign board connection. Each 1 1.4 DISTRIBUTION CABLE: . 1 a) SUPPLYING OF CABLE: . 1 a) SUPPLYING OF CABLE: . . a) SUPPLYING OF CABLE: . . b) 3.5 core 35 Sq.mm. Mtr. 45.00 mound aluminium conductor cables conforming of IS:1554 (Part-I): . . i) 3.5 core 35 Sq.mm. Mtr. 45.00 b) LAYING OF CABLE . . Laying of above cable from metre to MOB on wall/column/as per skide condition including supply and finding of M.S. champs/galvanised bar saddles @ 300 mm apart, making holes and mending good damages or partly through pre-laid pipe. . b) 3.5 core 35 Sq.mm. Mtr. 45.00 ii) 4 core 16 Sq.mm. Mtr. 50.00 c) CABLE GLAND AND FINISHING THE END . . Supplying and fixing of compre		Complete board as above	Each.	1	_	
1 No. 32 A DB MCB (20 KA) Outpoing : 10 KV10a SPMCB Each 1 9) MCB FOR GLOW SIGN BOARD Supply and fixing of 20A SPM MCB & 20A limmer with 40A DP contractor suitable enclosure on wall for enclosure on wall for Glow Sign board connection. Each 1 1.4 DISTRIBUTION CABLE : Supplying of 1.1 KV grade following PVC insulated and PVC sheathed armoured aluminium conductor cables conforming of IS:1554 (Part-I) : Mir. 45.00 1) 3.5 core 35 Sq.mm. Mir. 45.00 b) LAVING OF CABLE Laying of above cable from metre to MDB on wall/column/as per side condition including supply and fixing of M.S. champs/galvanised bar saddles @ 300 nm apart, making holes and mending good damages or pathy through pre-laid pipe. Mir. 45.00 Mir. 1) 3.5 core 35 Sq.mm. Mir. 45.00 Mir. 50.00 2) CABLE CLAND AND FINISHING THE END Supplying and fixing of compression type brass cable gtand alongwith nubber rings for dust and molisture proof entry of following 1.1 KV grade aluminium conductor PVC insulated and PVC sheathed armoured cable and finishing the end by crimping method including supply and fixing of "Dowell make soldeness socket, tapes and jointing materials as required to be completed in all respect. Set 2 0) 3.5 core 35 Sq.mm. Set 2	C)	12 way Horizontal type SPN DB		•		
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Supply and fixing of 20A SPN MCB & 20A timmer with 40A DP contractor suitable enclosure on wall for enclosure on wall for Glow Sign board connection. Each. 1 1.4 DISTRIBUTION CABLE :			Euon			
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Supplying of 1.1 KV grade following PVC insulated and PVC sheathed amoured aluminium conductor cables conforming of IS:1554 (Part-I): I) 3.5 core 35 Sq.mm. ii) 4 core 16 Sq.mm. ii) 4 core 16 Sq.mm. b) LAYING OF CABLE Laying of above cable from metre to MDB on wall/column/as per side condition including supply and fixing of M.S. clamps/galvanised bar saddles @ 300 mm apart, making holes and mending good damages or partly through pre-laid pipe. i) 3.5 core 35 Sq.mm. ii) 4 core 16 Sq.mm. ii) 3.5 core 35 Sq.mm. iii) 4 core 16 Sq.mm. iii) 3.5 core 35 Sq.mm. iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	1.4	DISTRIBUTION CABLE :	,	•		
 armoured aluminium conductor cables conforming of IS:1554 (Part-I): i) 3.5 core 35 Sq.mm. ii) 4 core 16 Sq.mm. iii) A core 16 Sq.mm. iiiiiiiiiii including supply and fixing of M.S. clamps/galvanised bar saddles @ 300 mm apart, making holes and mending good damages or partly through pre-laid pipe. i) 3.5 core 35 Sq.mm. ii) 4 core 16 Sq.mm. iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	a)	SUPPLYING OF CABLE :				
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condition including supply and fixing of M.S. clamps/galvanised bar saddles @ 300 mm apart, making holes and mending good damages or partly through pre-laid pipe. Mir. 45.00 i) 3.5 core 35 Sq.mm. Mir. 50.00 ii) 4 core 16 Sq.mm. Mir. 50.00 c) CABLE GLAND AND FINISHING THE END Mir. 50.00 Supplying and fixing of compression type brass cable gland alongwith rubber rings for dust and molsture proof entry of following 1.1 KV grade aluminium conductor PVC insulated and PVC sheathed armoured cable and finishing the end by crimping method including supply and fixing of "Dowell" make solderless socket, tapes and jointing materials as required to be completed in all respect. Set 2 i) 3.5 core 35 Sq.mm. Set 2	b)				•	
 i) 3.5 core 35 Sq.mm. ii) 4 core 16 Sq.mm. iii) 4 core 16 Sq.mm. iii) 4 core 16 Sq.mm. iii) CABLE GLAND AND FINISHING THE END Supplying and fixing of compression type brass cable gland alongwith rubber rings for dust and moisture proof entry of following 1.1 KV grade aluminium conductor PVC insulated and PVC sheathed armoured cable and finishing the end by crimping method including supply and fixing of "Dowell" make solderless socket, tapes and jointing materials as required to be completed in all respect. i) 3.5 core 35 Sq.mm. 		condition including supply and fixing of M.S. clamps/galvanised bar saddles @ 300 mm apart, making holes and mending good damages or	•			
Supplying and fixing of compression type brass cable gland alongwillh rubber rings for dust and molsture proof entry of following 1.1 KV grade aluminium conductor PVC insulated and PVC sheathed armoured cable and finishing the end by crimping method including supply and fixing of "Dowell" make solderless socket, tapes and jointing materials as required to be completed in all respect.) 3.5 core 35 Sq.mm. Set 2					•	
rubber rings for dust and molsture proof entry of following 1.1 KV grade aluminium conductor PVC insulated and PVC sheathed armoured cable and finishing the end by crimping method including supply and fixing of "Dowell" make solderless socket, tapes and jointing materials as required to be completed in all respect. i) 3.5 core 35 Sq.mm.	c) .	CABLE GLAND AND FINISHING THE END				
i) 3.5 cole 35 Schmur		rubber rings for dust and moisture proof entry of following 1.1 KV grade aluminium conductor PVC insulated and PVC sheathed armoured cable and finishing the end by crimping method including supply and fixing of "Dowell" make soldeness socket, tapes and jointing materials as required	•	·	•.	
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SL, NO,		UNIT	QTY.	RATE (Rs.)	AMOUNT (Rs.)
	BROUGHT FORWARD :				
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1.5 SUBMAIN WIRING

Submain wiring with following sizes 1100 V grade, single core, PVC insulated flexible FRLS copper conductor wire (IS:694) through suitable size PVC, conduit (ISI marked embossed on conduit surface)/ flexible PVC conduit complete with junction box, circular box, elbows, bends and other accessories on surface above false ceiling or concealed by chase cutting on wall/in wooden furnitures, as per site condition, mending good all damages to original finish, interconnection, painting etc. as required to be completed in all respect. All connections of wires to be done by means of "Wago" type connectors:

i) With 2 Nos. 6 Sq. mm + 1 No. 2.5 Sq. mm (green colour for earth) PVC Insulated Copper wire.(For Glow Sign Board)

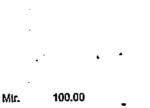
1.6 AC POINT WIRING (UPTO 2.0 TON.)

I) A.C. power point wiring from Main DB to A.C. Power points with 1100 volt grade following rating (Green colour for earthing) PVC insulated flexible FR copper conductor cable through suitable size PVC conduit (ISI marked embossed on conduit surface) complete with Junction box, circular box, elbows, bends, couplers and other accessories surfaced on wall above false celling or concealed by chase cutting on brick / wooden wall. The work includes supply & fixing by chase cutting on wall, 'North-West' make A.C. power unit having suitable rating socket with plug,plugtop & starter in sheet steel enclosure complete with interconnection, mending good all damages to original finish, painting etc. as required. All connections of wires to be done by means of 'Wago' type connectors.

With 2 nos. 4 sq.mm. + 1 no. 2.5 sq.mm. (green colour for earth) PVC Insulated copper wire in 25 mm dia PVC conduit / casing caping. (for AC unit)

1.7 6/16A SOCKET OUTLET POINT WIRING

Power point wining for 6 pln 6/16 A shuttered socket outle wining with controlling switch from DB with 1100 volt grade 2 Nos. single core 2.5 sq.mm. + 1 No. 1.5 sq.mm. (Green colour for earthing) PVC insulated flexible FRLS copper conductor wife (IS:694) through suitable size PVC. conduit (ISI marked embossed on conduit surface) complete with junction box, circular box, elbows, bends, couplers and other accessories on surface above false celling or concealed by chase cutting on wall. The work Includes supply & fixing of modular type 6/16A 6 pin shuttered socket outlet with controlling switch, suitable size mounting box and front plate for socket outlet flushed with finished wall, mending good all damages to original finish, interconnection, painting, etc. as required to be completed in all respect. All connections of wires to be done by means of Wago' type connectors.



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Each.

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CARRIED OVER :



SCH-E/4

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SL. NO.	ITEM DESCRIPTION	UNIT	Ω ΤΥ.	RATE (Ŗs.)	AMOUNT (Rs.)
	 BROUGHT FORWARD :				

1.8 POINT WIRING

Point wiring with 1100 V grade 3 nos, single core 1.5 sq.mm. (1 for phase, 1 (black colour) for common neutral by looping method and 1 (green colour) for common earth by looping method) PVC insulated flexible FRLS copper conductor cable (IS:694) through suitable size PVC. conduit (ISI marked embossed on conduit surface) complete with junction box, circular box, elbows, bends, couplers and other accessories on surface above false ceiling or concealed by chase cutting on walt from light & fan switch board to light, fan & 6A socket outlet on the same switch board or separately mounted switch board. The work Includes supply and fixing of all materials such as modular type 6A switch, 3 plate ceiling rose / angle or batten holder etc. as required.

The point wiring also includes circuit wiring with 1100 V grade 2 nos. single core 2.5 sq.mm. (1 for phase and 1 (Black colour) for neutral) + 1 no. single core 1.5 sq.mm. (Green colour for earth) PVC insulated fiexible (FRLS) copper conductor cable (IS:694) through suitable size PVC. conduit as described above from DB to switch board, Interconnection, mending good all damages to original finish, painting etc. as required to be completed in all respect. All connections of wires to be done by means of "Wage" type connectors. (All wiring in strong room, locker room, records & stationery room will be of surface conduit type).

I) 1 light control by 1 switch.

ii) 2 light control by 1 switch.

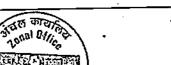
- (ii) Walt Bracket fan point with 2/3 pin socket to be installed at fan height and switch at the switch board
- iv) Exhaust fan point

v) Call bell point with bell push

- vi) Red light & incandescent light point
- vii) 1x6A 2/3 pin shuttered socket with switch on separate switch board other than light / fan switch board
- viii) 2/3 pin 6A switch shuttered socket outlet with switch on light and fan switch board.
- Ceiling fan point with supply and fixing of 2 module step Regulator 280 W min

x) UPS power point

भागलपुर Bhagalout 111



CARRIED OVER :

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Each

Each.

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SL. NO.	ITEM DESCRIPTION	UNIT	QTY.	RATE (Rs.)	AMOUNT (Rs.)
	BROUGHT FORWARD :	:			
1.9	Connecting the main switch to MCB DB by supply and fixing of 6 SWG G.I. wire along the cable with G.I. staples, bolts, nuts, washers, etc. and mending good all damages to original finish.	Mtr.	60.00		
1.10	Supply and fixing of 16A modular type master controlling switch with indicator in mounting box and front plate on wall for controlling external light fittings including interconnection, etc. as required.	Each	1		
1.11	- Earthing (General)	•			
•	Earthing the installation as per I.E Rules conforming to I.S : 3043 - 1987 or its latest ammendment by making earth sation with 3 meter long 50 mm dia G.I earth Pipe (Partly Perforated) to be installed such that its top end shall be at 300 mm below ground level after preparation of ground with charcoal & Salt and connecting with 25 mm x 6 mm G.I earth lead-in-strip upto 10 metre length by bolting and then brazing, complete with nut, bolt, washer etc. as required. The earthing station shall be provided with 300 mm x 300 mm x 300 mm inside dimension masonry inspection Pit with C.I. hinged cover.	Each			
1.12	Extra for earth lead-in-strip exceeding 10 meter as mentioned in above item with supply and fixing of 25mm x 6mm G.I Strip to be fixed on wall or directly buried in ground including connection complete.	Mir	20.00	•	
1,13	Supplying and fixing of 16 A plug top with 1100 V grade 3 core 2.5 sq. mm PVC insulated copper cable of 1.5 mtr. length one metre to be permanently fixed to the Switch Board of Locker Room, complete in all respects.	Each	1		
1 .1 4	Supply & fixing of 415V,40A 4P MCB in suitable size M.S. Box same for Light cut off switch in Main Gate.	Each	1		
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TOTAL CARRIED TO ELECTRICAL SUMMARY :



B. SUPPLY OF LIGHT FITTINGS & FANS

SL. NO.	ITEM DESCRIPTION	UNIT	QTY.	RATE (Rs.)	AMOUNT (Rs.)
Α	Supply of light and electrical fittings including lamp and all neces accessories :	ssary	r •	·	
1	Surface mounted / Suspended luminaries		•		
i)	1x22 watt LED Light fittings (Philips or similar approved make) .	Each	12		
2	Recessed mounted luminaries				
i)	LED based luminaries 1x34 watt LED based square light fittings.	Each	10		
ii)	Down lighter 1x15 W LED down lighter fittings.	Each	10		
3	Supply of fan fittings with all necessary accessories, but except regulator.		· .		
i)	<u>Ceiling fan</u> 1200mm dia.	. Each	- 1		
. ii)	Wall bracket fan 400 mm dia.	Each	11		
· iii)	Exhaust Fan 300 mm dia without mounting ring & louvre complete	Each	3		
4	SUPPLY & FIXING OF CALL BELLS				
	Supplying and fixing on wall call bell buzzer (approved by Consulta suitable for 240 volt single phase A.C. supply including interconnection,	etc.	•••		
	as required.	Each.	. 1		
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	TOTAL CARRIED TO ELECTRICAL SUMMARY :	· · · ·	···-		
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C. COMPUTER POWER WIRING

		<u> </u>		RATE	AMOUNT
SL.	DESCRIPTION OF ITEM	UNIT	QTY.	(Rs.)	(Rs.)
NO.					<u> </u>
3.1	INDUSTRIAL TYPE SOCKET AND PLUG DB	. •			
	Supply and installation of following Legrand make universal mounting DB with Industrial type socket and match plug for UPS incoming & outgoing only :				
i)	32A, 3P+N+E, 5 pin industrial type socket with matching plug and 25A, TP MCB control including Interconnection. (for UPS incoming)	Each	2		
ii)	32A, 2P+E, 3 pin industrial type socket with matching plug and 25A, DP MCB control including interconnection. (for UPS outgoing)	Each	2	-	
lii)	Supply and installation of 2 no 32A 4P on load cannge over switch,100A copper busber, 2 nos 32A SP MCBs etc. in sheet steel enclosure for computer distribution system.	Each	1	•	
3.2	COMPUTER DISTRIBUTION BOARD (CDB)				
•	Supply and installation of following MDS make metallic double door MCB Distribution Board with MCB having short circuit breaking capacity of 10 KA (minimum) and RCBO of 300 mA sensitivity having overload, short circuit and earth leakage protection complete with busbar, interconnection, mounted on flat iron frame on wall/flushed with finished wall by chase cutting, mending good to original finish, painting, etc. as required. Name plate of DB is to be fixed up on front door of DB for Its identification.				· · ·
	SPN 12 way SPN MCB DB complete with busbar and the following MCBs./ RCBO:				
	INCOMING : 1 No. 240 V 25A DP MCB	•	٠	•	
• .	OUTGOING : 10 Nos. 240 V 6A SP MCB	Each	2		
. 3.3	COMPUTER SOCKET OUTLET CLUSTER POINT WIRING	:		•	
•	Computer socket outlet cluster point wiring with 1100 V grade 3 nos. single core (1 for earth, green colour) 2.5 sq.mm. PVC insulated flexible FRLS copper conductor cable conforming to IS : 694 through suitable size PVC.conduit (IS1 mark embossed on conduit surface) and conduit accessories partly concealed in wall/ embedded in floor, partly on surface above false ceiling and partly through partition or through flexible conduit from DB to computer socket outlet cluster as detailed below and upto connection of 2 nos. socket clusters in 1 (one) circuit connecting by looping method. The work includes supply and fixing of socket outlet clusters component/ sets as			•	
i)	Each computer socket outlet cluster comprising the following : 2 nos. 6A 5 pin modular type shuttered socket. (below table) 2 no. 6/16A 6 pin modular type shuttered socket. (below table) 2 no. 16A modular type controlling switch with indicator. (above table) 1 no. Front Plate of suitable size.				
	1 no. Mounting box of suitable size.	Each	11	-	•
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SL. NO.	DESCRIPTION OF ITEM	UNIT	QTY.	RATE (Rs.)	AMOUNT (Rs.)
	BROUGHT FORWARD :	1			

3.4 SUBMAIN WIRING :

Submain wiring with following size 1100 V grade, single core, PVC insulated flexible copper conductor cable conforming to IS : 694 through PVC.conduit (ISI mark embossed on conduit surface) and conduit accessories partly on surface (above false ceiling) with M.S. bar saddles, partly through partition and partly concealed in wall / embedded in floor by chase cutting, mending good all damages, painting, etc. as required to be completed in all respect.

- From Main DB to UPS incoming and UPS outgoing to CDB with 2 nos. 6 Sq.mm. + 1 no, 2.5 Sq.mm. (Green colour for earth) PVC insulated flexible concer conductor cable in 25 mm dia. M.S.conduit
- With 2 nos. 2.5 sq.mm. + 1 no. 1.5 sq.mm. (green colour for earth) PVC insulated copper wire in 20 mm dia PVC conduit / casing caping. (for each computer power point)

Mtr 120.00 . , , .

3.5 EARTHING (COMPUTER)

Earthing the installation as per I.E. rules conforming to IS:3043-1987 or its latest amendment by making earth station with 450mm x 450mm x 6mm (minimum) thick copper plate electrode to be installed such that its top edge shall be at a minimum depth of 3.0 metre below ground level after preparation of ground with charcoal and salt and connecting the earth lead-inwire by bolting and then brazing to the copper plate complete with copper bolts of suitable length double nuts and washers, copper lugs including supply and fixing of 50mm dia. partly perforated G.I. pipe with funnel for watering arrangement.

i) The earthing installation should be provided with 300mm x 300mm and 300mm depth inside dimension masonry inspection pit with C.I. hinged cover having locking arrangement and restoring the surfaces duly rammed.

Each

Mtr.

Each

Mtr.

ii) Supplying and fixing of 1 x 10 Sq.mm PVC insulated copper wire through suitable size PVC conduit to be fixed on wall surface with bar saddles / cldmps at an interval of 300mm etc. as required to be completed in all respect. The underground portion of earth lead-in-wire to be laid at an average depth of 500 mm below ground level.

3.6 COMPUTER DATA SOCKET

Supply and fixing on wall / furniture / partition recessed type D - Link make Computer data socket (RJ 45) with mounting box & front plate as shown in the drawing complete with chase cutting, mending good etc. as required.

3.7 COMPUTER DATA_WIRING

Supplying and laying of CAT – 6 cables through pre-laid rigid PVC conduit as shown in the drawing or otherwise as directed by the consultant from server to Computer Data Socket (through HUB, if required) including interconnection mending good, etc. as required to be completed in all respect.

450.00

15.00

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TOTAL CARRIED TO ELECTRICAL SUMMARY :



SCH-E/9

LIST OF APPROVED MATERIALS

INTERIOR & FURNITURE WORKS

SL. <u>N</u> O.	MATERIAL	BRAND/MANUFACTURER
1.	GYPBOARD FALSE CEILING	- SAINT GOBAIN 'GYPROC'
2.	MINERAL FIBRE FALSE CEILING	- ARMSTRONG - DAIKEN
3.	MR/BWR GRADE BLOCK BOARD, PLY BOARD AND FLUSH DOOR SHUTTER	- GREEN - SATABDI - ASIAN PLY - GLOBE - SYLVAN
4	LAMINATES	- GREEN MICA - AICA - ARCHID - INTIM - MERINOLAM
5.	GLAZING	- MODI FLOAT - ST. GOBAIN
6.	SYNTHETIC ENAMEL PAINT	 "LUXOL HIGLOSS" (BERGER) DULUX 'VELVET TOUCH' ENAMEL (ICI) ASIAN
7.	WHITE CEMENT PUTTY	- Birla White - J.K White - Myk - Laticrete
8.	ACRYLIC EMULSION PAINT	- ASIAN PAINT - BERGER
9.	CABINET /DRAWER LOCKS, DRAWER SLIDES, AUTO- HINGES, KEYBOARD TRAYS	- DORSET - GODREJ - EBCO
10.	DOOR LOCKS AND HANDLES	- DORSET - DORMA (XL) - OZONE



LIST OF APPROVED MATERIALS ELECTRICAL WORKS

SL, NO,	ITEM -	ITEM DETAIL	APPROVED BRAND / MANUFACTURER
1.	CONDUITS	I) M.S.(BLACK STOVE ENAMELED)	- B.E.C. - NIC - AKG - SENCO
	-	II) PVC RIGID	- B.E.C. - AKG - PRECISION
		111) G.I. FLEXIBLE	- B.E.C. - PRECISION - AKG - ATUL
•	-	IV) GALVANISED STEEL	- B.E.C. - PRECISION - AKG - ATUL
		V) PVC CASING -CAPPING	- PRECISION - PRESTO-PLUS
2.	CABLES & WIRES	I) 11 KV ALUMINUM	- POLYCAB - FINOLEX - HAVELS - MESCAB
		II) 1100 V GRADE PVC / XLPE INSULATED STEEL ARMORED AND OVER ALL PVC SHEATHED	- FINOLEX - POLYCAB - HAVELS - MESCAB
•		III) PVC INSULATED STRANDED/FLEXIBLE COPPER CONDUCTOR WIRE WITH SIZE IN SQMM. EMBOSSED ON CABLE SURFACE (FOR INTERNAL WIRING)	- FINOLEX - POLYCAB - HAVELS - MESCAB
	; _	IV) LAN	- Finolex - Lucent - D-Link/Amp/Molex
		V) TELEPHONE	- FINOLEX - DELTON
		VI) TV ANTENNA	- FINOLEX - POLYCAB - ORBIT - KEI - MESCAB



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SL.	ITEM	ITEM DETAIL	APPROVED BRAND /
• NO.	11 5/91		MANUFACTURER
3.	PROTECTIVE DEVICE	I) TPN & SPN SWITCH FUSE UNIT WITH HRC FUSE	- SIEMĘNS - L&T - SCHNEIDER - ABB - INDO ASIAN - NORTH WEST
		II) MCCB, MCB, MCB-DB, RCBO, RCCB, ACB & ELCB	-SIEMENS -L&T - SCHNEIDER - ABB - HAVELS - PHILIPS
		III) MANUAL CHANGEOVER SWITCH/AUTO CHANGE OVER SWITCH	- L&T - LEGRAND, -HAGER
	·	IV) DOL STRATER	- SIEMENS - LARSEN & TOUBRO - INDO ASIAN
	-	V) CURRENT TRANSFORMER	- L & T, - KAYCCE - KUPPA/AE/IMP - INDO ASIAN
4.	SWITCHES & SOCKET SWITCH FRONT PLATE AND MOUNTING BOX (MODULAR TYPE)	I) 6A / 16A SWITCH, SOCKET, TELEPHONE SOCKET (RJ-11) LAN SOCKET(RJ-45), ELECTRONIC REGULATOR/DIMMER	 MK(WRAPAROUND PLUS) Anchor(Roma) Legrand(Myrius)
		II) ON/OFF / SELECTOR SWITCH	- SIEMENS - LARSEN & TUBRO - INDO ASIAN
		III) METAL CLAD SOCKET & PLUG HAVING SCRAPING EARTH ARRANGEMENT	- SIEMENS - LEGRAND - HAGER
· 5.	BELL	BUZZER BELL/CALL BELL, BUZZER INDICATOR (LUMINOUS TYPE)	- BAJAJ - ANCHOR
6	INSTRUMENT -	INDICATING INSTRUMENT/ MEASURING INSTRUMENT	- AE - IMP - L&T - GE
7.	LUMINARIES	I) LED LIGHT FITTINGS	- Philips - Wipro - Havells - Bajaj
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SL, NO.	ITEM	ITEM DETAIL	APPROVED BRAND / MANUFACTURER
8.	FAN FITTINGS	I) CEILING FAN	- HAVELLS - BAJAJ - CROMPTON - USHA - ORIENT
	-	II) WALL MOUNTING / PEDESTAL FAN	- HAVELLS - BAJAJ - CROMPTON - USHA - ORIENT
- -		III)EXHAUST FAN	- HAVELLS - BAJAJ - CROMPTON - USHA - ORIENT
9.	AIR-CONDITIONERS (3 STAR OR EQUIVALENT)	WINDOW TYPE HI-WALL SPLIT TYPE DUCTABLE SPLIT TYPE	- VOLTAS - CARRIER - HITACHI - BLUE-STAR
10.	STARTER	LIGHT-STARTER	-SIEMENS -L&T - SCHNEIDER
11.	REGULATOR	CEILING FAN-REGULATOR	-ANCHOR -LEGRAND -CLIPSAL
12.	RELAY	-	-L &T -ABB -SIEMENS -INDO ASIAN

Note :

All other items not covered above, as per sample approved by employer/consultant.

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