	BILL OF QUANTITIES FOR ELECTRICAL & ALLIED WORKS	S AT S	BI SME	CCC, DEHR	ADUN
S.No.	DESCRIPTION OF WORKS	UNIT	QTY	RATE	AMOUNT
1	Wiring for light point/ fan point/ wall fan point/ exhaust fan/ light sockets etc. with 1.5 sq.mm. PVC insulated 1100 V Grade copper conductor (FRLS) wires & 1.5 sq.mm. copper earth wire in concealed/ surface using 16 SWG MS conduits, accessories such as bends, tees, saddles, draw boxes, mounting boxes, inner plates, cover plates, ceiling rose etc (whereever required) and chromium plates brass screws/ rowel plug etc. The circuit wiring starting from DB to point control box/ switch box using 2 X 2.5 sq.mm PVC insulated 1100 V grade multi- stranded copper conductor wire & 2.5 sq.mm. PVC insulated earth wire (color code to be used). (Flexible conduit/ elbow not allowed). The conduit to be laid in ceiling with proper clamps/ wall/ floor and filing the chase with cement mortar and finishing the same in original form/ wooden partition/ above false ceiling with proper clamps etc. all complete.				
	(Wherever required as per standard specifications).				
	i) Each circuit shall have independent earth wire.				
	ii) Each point shall be earthed.				
	iii) Circuit wiring is to be included in point wiring rates.				
i	One light points controlled by one 6 amp. Modular switch	Nos.	10		
ii	Two light points controlled by one 6 amp. Modular switch	Nos.	37		
	Three light points controlled by one 6 amp. Modular switch	Nos.	24		
	Four light points controlled by one 6 amp. Modular switch	Nos.	11		
v	One call bell point with ceiling rose/ 6amp. 3 pin socket controlled by one 6 amp. Push Modular switch. With call bell	Nos.	2		
vi	One wall fan/ exhaust fan point controlled by one 6 amp. Modular switch. The switch should be at switchboard level	Nos.	29		
	One E nin seellet controlled by one 6 amp. Medular switch complete				
	One 5 pin socket controlled by one 6 amp. Modular switch complete assembly includes plate box etc.				
a	Dependent	Nos.	2		
viii	One ceiling fan point with step type regulator	Nos.	1		
	Same as serial no 1 but using $2*2.5 + 1*2.5$ Sqmm Copper Conductor FRLS wires from DB to first 6A, 5 Pin modular socket controlled by one 6A switch and looped to the nearest second point with same $2*2.5 + 1*2.5$ Sqmm copper conductor wires FRLS insulated 1100V grade.				
а	Primary	Nos.	32		
b	Secondary	Nos.	19		
	Same as serial no 1 but using 2*2.5 + 1*2.5 Sqmm Copper Conductor FRLS wires from DB to first 16 Amp MCB two Nos. , for Glow sign Board.				
а	Primary Point	Nos.	2		
-		-			
2	POWER POINTS				

-		-		
	Same as serial no.1, but wiring for 16 Amp, 6-pin sockets by using 2*4 sq.mm. PVC insulated 1100 V grade copper conductor wire with independent 1* 4.0 sq.mm earth wire from D.B. to first point 1 st socket and 1 st to 2 nd , socket with 2*2.5 sq.mm. and 1*2.5 earth wire including providing and fixing of 16 Amp, 6 –pin socket with 16 Amp. Switch. (Modular type switch/ socket/ plate etc. complete assembly).			
a)	Primary point	Nos.	30	
b)	Secondary point	Nos.	15	
	Same as serial no.1, but wiring for A/C socket by using 2*4 sq.mm. PVC insulated 1100 V grade copper conductor wire and earthing with 1*4.0 sq.mm. PVC insulated 1100 V grade copper conductor wire with modular type AC box (tiny trip type) with socket complete in all			
	respects controlled by 25/32 A SP MCB to be provided near indoor unit. The point starts from DB to stabilizer to the point near the indoor unit including top.		8	
	Same as serial no.1, but wiring for A/C socket by using 4*6 sq.mm. PVC insulated 1100 V grade copper conductor wire and earthing with 1*6.0 sq.mm. PVC insulated 1100 V grade copper conductor wire and weather proof type 4 way SPN DB complete in all respects controlled by with 32 Amp TPN (10 KA) MCB to be provided near outdoor unit. The point starts from DB to the point near the outdoor unit (includes wires for terminal connection of outdoor unit from TPN) including wiring to the terminals of the outdoor unit from weather proof box. Item to also include termination lid between MCB and outdoor unit.		3	
	COMPLETED DOINTS			
	COMPUTER POINTS Wiring with 2x2.5 sq.mm. + 1x2.5 sq.mm. PVC insulated 1100 V grade multi stranded copper conductor wires in 2 mm thick PVC conduit from UPS DB to computer point. Each point to have 3 nos. 6 amps. 5 pin modular type sockets, one 6 amps modular swtich with all accessories, inner/ outer plates, metal box etc. and to be fixed on wooden partitions/ by grouting on wall etc. as per requirement at site. The switch should be fixed above the top of counter with indicator and sockets under the counter.			
	Primary	Nos.	30	
	Secondary Wiring with 2x2.5 sq.mm + 1x2.5 sq.mm PVC insulated 1100 V grade multi stranded copper conductor wires in 2 mm thick PVC conduit from UPS DB to computer point. Each point to have 1 nos. 16 amps 5 pin modular type sockets, 1 No's 16 amps modular swtich with all accessories, inner/ outer plates, metal box etc and to be fixed		25	
	on wooden partitions/ by grouting on wall etc as per requirement at site. The switch should be fixed above the top of counter and sockets under the counter. or as directed by the engineer incharge for the Fire, Token Vending .			
	site. The switch should be fixed above the top of counter and sockets under the counter. or as directed by the engineer incharge for the Fire, Token Vending .		2	
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В.	site. The switch should be fixed above the top of counter and sockets under the counter. or as directed by the engineer incharge for the Fire, Token Vending . Primary Secondary CONDUITING FOR TELEPHONE, COMPUTER & CONDUITING ,	Nos. Nos.		

Wiring for VOICE from Jack Panel in data rack to computer Nos. A workstation with Cat-6 voice cable in PVC conduits of size 20/25 mm. A eds including providing ferules at both ends and termination at both ends including providing a fixing frame for telephone socket with shutter, RJ 47 outlet, faceplate and mounting box complete of modular type. This work includes supply and laying of CAT-6 cable in PVC conduits throughout the lenght, from the I/O hub to the point. A 2 COMPUTER NETWORKING A A 2.1 Wiring for computer networking from Jack Panel in data rack to nos. Nos. A cize 720/25 mm. including providing & fixing frame for Cat-6 with shutter, RJ 45 outlet, faceplate and mounting box complete of modular type. This work includes supply and laying of CAT-6 cable in PVC conduits throughout the lenght, from the I/O hub to the point. 1 A 2.3 Supplying and fixing 12U (Rack with glass door, opening in the front Nos. 1 1 2.4 Supplying and fixing Patch Card-2 Meter (DBPS Mounting Cord) Nos. 47 2.5 Supplying and fixing Patch Card-2 Meter (DBPS Mounting Cord) Nos. 47 2.5 Supplying all materials and laying/ pulling 1100 voits grade PVC insulated copper conductor wires (REIS) in MS conduit with all fixing a recessories after cutting the floor, wall and the like etc. and replateing the floor level to original. Conduit with all fixing a recessories after cutting the floor, wall and the l			- , -		
2.1 Wiring for computer networking from Jack Panel in data rack to Nos. Computer workstation with Cat-6 computer cable in PVC conduits of size 207 25 mm including providing ferrules at both ends and termination at both ends including providing a fixing frame for Cat-6 with shutter, RI 45 outlet, facelapte and mounting box complete of modular type. This work includes supply and laying of CAT-6 cable in PVC conduits throughout the lenght, from the I/O hub to the point. 55 2.2 Supplying and fixing 12U (Rack with glass door, opening in the front power panel 1 (horizontal), cable manager 1 lock & key). 1 2.3 Supplying and fixing Patch Cord-2 Meter- (DBPS Mounting Cord) Nos. 1 2.4 Supplying and fixing Patch Cord-1 Meter- Nos. 55 2.5 Supplying all materials and laying/ pulling 1100 volts grade PVC insulated copper conductor wires (FRLS) in MS conduit with all fixing accessories after cutting the floor, wall and the like etc. and replastering the floor level to original. Conduit must be 30 mm below the floor finish level. RM 70 i 2 X 4 sg.mm. + 1 X 4 sg.mm. RM 50 150 3 Supplying, laying, testing & commissioning of 4 C X 16 sg.mm. at 1100 volts grade PVC insulated aluminium conductor armoured cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs, Glands, termination acessories, Clamps etc. as required as per specification (LIGHT DB, POWER DB, UPS Room). 50 3 Supplying, laying, testing & commissioning of 3.5 C X 95 sg.mm. a		workstation with Cat-6 voice cable in PVC conduits of size 20/ 25 mm including providing ferrules at both ends and termination at both ends including providing & fixing frame for telephone socket with shutter, RJ 47 outlet, faceplate and mounting box complete of modular type. This work includes supply and laying of CAT-6 cable in		46	
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power panel 1 (horizontal), cable manager 1 lock & key). 1 2.3 Supply, Installation, Testing & Commissioning of 24 port Jack Panel. Nos. 3 2.4 Supplying and fixing Patch Cord-2 Meter- (DBPS Mounting Cord) Nos. 47 2.5 Supplying and fixing Patch Cord-1 Meter- Nos. 55 C CABLES, MAINS & SUBMAINS Supplying all materials and laying/ pulling 1100 volts grade PVC insulated copper conductor wires (FRLS) in MS conduit with all fixing accessories after cutting the floor, wall and the like etc. and replastering the floor level to original. Conduit must be 30 mm below the floor finish level. Nos. 1 i 2 X 6 sq.mm. + 1 X 6 sq.mm. RM 70 1 ii 2 X 4 sq.mm. + 1 X 4 sq.mm. RM 50 1 2 Supplying, laying, testing & commissioning of 4 C X 16 sq.mm. at 1100 volts grade PVC insulated aluminium conductor armoured cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs, Glands, termination acessories, Clamps etc. as required as per specification (LIGHT DB, POWER DB, UPS Room). 150 3 Supplying, laying, testing & commissioning of 4 C X 35sq.mm. at 1100 volts grade PVC insulated aluminum conductor armoured cable with 10 gauge earth copper wire including cables end termination using appropriate Lugs, Glands, termination acessories, Clamps etc. as required as per specification (LIGHT DB, POWER DB, UPS Room). 50	2.1	Wiring for computer networking from Jack Panel in data rack to computer workstation with Cat-6 computer cable in PVC conduits of size 20/ 25 mm including providing ferrules at both ends and termination at both ends including providing & fixing frame for Cat-6 with shutter, RJ 45 outlet, faceplate and mounting box complete of modular type, This work includes supply and laying of CAT-6 cable in PVC conduits throughout the lenght, from the I/O hub to the point.		55	
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	4	1100 volts grade PVC insulated aluminum conductor armoured cable including cables end termination using appropriate Lugs, Glands, termination acessories, Clamps etc. as required as per specification		15	
D. DISTRIBUTION BOARD					

		-		
	Supplying, installing, testing & commissiong of surface/ recessed mountings, Double door 415 volts TPN MCB distribution board of steel steel, 1.6mm thick dust phosphatized and painted, inclusive of 100 amps, tinned copper busbars, earthbar, common neutral link, din bar for mounting of MCB's detachable gland/ knock out plate & with built in loose wire boxl, and superior make terminal connectors for all incoming and outgoing circuits duly prewired with adequate size of PVC insulated copper wires between the bus bars and the MCB's as well as the incomer and upto the terminal connectors/ neutral link and ready for installation of following ways as required.			
	Use 'B' curve MCB's for lighting & small power circuits, 'C' curve for motor duty i.e. for pumps, AC motors, window and split AC's etc. & 'D' curve for UPS DB's i.e. for computers/ PC's circuit. Main incomer & outgoing circuit MCB's shall be selected accordingly i.e. type B,C & D. Contractor to select the MCB's accordingly as per the nature of the circuit/ load.			
	Each DB shall have separate neutral links of rating not less than 100A for each phase. The main incoming neutral link shall be in addition to three outgoing neutral links and shall be of 125 A.			
	UPS DB's shall have a dedicated Earthing link fixed on insulated supports, which will be in addition to body earth link.			
	All internal inter connecting wiring with in the DB's shall be PVC insulated flexible copper conductor wires of adequate capacity as per the current rating.			
	Inside each DB, a DB chart is to be fixed.			
1	6-way TPN DB (LIGHT DB & 6A RAW)	No.	2	
	Incomer:-			
	1 No. 40 Amp TPN (10 KA) MCB with 40 A DP RCCB (100 MA) each phase			
	Outgoing:-			
	16 Nos.10/20 Amp (10 KA) SP MCB			
1	4-way TPN DB (LIGHT DB & 6A RAW)	No.	0	
	Incomer:-			
	1 No. 40 Amp TPN (10 KA) MCB with 40 A DP RCCB (100 MA) each phase			
	Outgoing:-			
	10 Nos.10/20 Amp (10 KA) SP MCB			
	6-way TPN DB (16A RAW POWER & AC Indoor DB)	No.	1	
	Incomer:-			
	1 No. 63 Amp TPN (10 KA) MCB with 63 A DP RCCB (100 MA) each phase			
	Outgoing:-			
┝──┤	16 Nos.16/25 Amp (10 KA) SP MCB			
			2	
	8-way SPN DB (For UPS INPUT)	No.	2	
	Incomer:-	INO.		
	Incomer:- 1 No. 63 Amp TPN 4 Pole (10KA) MCB	NO.		
	Incomer:- 1 No. 63 Amp TPN 4 Pole (10KA) MCB Outgoing:-			
	Incomer:- 1 No. 63 Amp TPN 4 Pole (10KA) MCB			
	Incomer:- 1 No. 63 Amp TPN 4 Pole (10KA) MCB Outgoing:-	NO.	1	

	Incomer:-			
	1 No. 63 Amp TPN 4 Pole (16KA) MCCB			
	Outgoing:-			
	2 Nos. 32 Amp (10 KA) TP MCB			
	12 Nos. 25/32 Amp (10 KA) SP MCB			
5	2-way SPN DB with 40 A DP MCB (For UPS Input / output)	No.	2	
6	12-way SPN DB (For UPS OUTPUT)	No.	3	
	Incomer:-			
	1 No. 40 Amp DP (10 KA) MCB with 40 A DP RCCB (100 MA)			
	Outgoing:-			
	10 Nos.6/10/16 Amp (10 KA) SP MCB			
E	(LIGHT FITTINGS & ACCESSORIES)			
	Supplying, installation with hanging support, testing and commissioning of following light fixtures with electronic Ballasts, Tubes, lamps, all fixing materials including connecting wires etc. all complete as per the directions of Engineer-in-charge (All LED Light Fixures should be covered with minimum 1 Years onsite replacement warranty).			
	Supplying, fixing, testing and commissioning of 2'x2' 32 W LED, As specified in tender document or approved by SBI.	Nos.	60	
2	Supplying, fixing, testing and commissioning of 18 W LED commercial type down lighter of make As specified in tender document or approved by SBI/ Architect.		68	
3	Supplying, fixing, testing and commissioning of 12 W LED commercial type down lighter of make As specified in tender document or approved by SBI/ Architect.		32	
	LED Strip for cove lighting 15 W per 5 M with driver and necessary installation supporting fittings of Led strip light (5 mtr.) make as specified in tender document or approved by SBI/ Architect.		17	
	Wall mounted fans 400/450 mm dia. make As specified in tender document or approved by SBI/ Architect. (METAL BODY)	Nos.	25	
7	Ceiling fans 1200 mm dia. make As specified in tender document or approved by SBI/ Architect.	Nos.	3	
8	Supply & fixing of 230 mm exhaust fan with louvers and plastic body with all accessories etc. complete of make As specified in tender document or approved by SBI/ Architect.Item also includes making of hole for fixing exhaust in exsisting brickwall and its repairing.		4	
9	LED 1200MM SUSPENDED LINEAR LIGHT with all accessories.make As specified in tender document or approved by bank	Nos.	18	
10	LED 10 watt Mirror Light with all accessories.make As specified in tender document or approved by bank.	Nos.	4	
F .	EARTHING SYSTEM			

 Supply, Installation, Testing and Commissioning of Maintenace Free Nos Earthing system made up of copper-bonded rod of 10 feet length,23 mm dia. (Minimum copper bonding shall be 0.25mm) along with Rod-to-Conductor connectors, Earth enhancement material, Pit Cover and other accessories as required and as per specification and other applicable codes (include chamber for earthing, Earthing certificate to be submitted along with the bill). 	
 Supply, Installation, Testing and Commissioning of Maintenace Free Nos Earthing system made up of copper-bonded rod of 10 feet length, 17.2 mm dia. (Minimum copper bonding shall be 0.25 mm) along with Rod-to-Conductor connectors, Earth enhancement material, Pit Cover and other accessories as required and as per specification and other applicable codes (include chamber for earthing, Earthing certificate to be submitted along with the bill). 	
 Providing and fixing of Copper/ GI strips in surface or in recess for loop earthing etc. as required. 	
Providing and fixing 2 X 8 SWG dia. Cu earth wire in PVC conduit on RM surface or in recess for loop earthing along with the existing surface/ recess cable as required eith using of copper lug at end termination 50	
G. MAIN PANEL AND METER BOARD	
 Designing, fabrication, supply, installation, testing and commissionings of front operated cubicle type compartmentalised, front access, free standing on 75MM "[" MS channel, dust and vermin proof (IP 42 degree protection) panel suitable for use at 415V, 3 phase, 4-wire 50Hz system suitable for fault level of required value symmetrical at 415V fabricated from 2mm thick CRCA MS sheets with hinged, gasketted (Metal based neoprene) locable doors having structural reinforcement including 3mm thick gland plates on top and bottom, lifting hooks, GI earth strip of required size with 2 nos earth terminals, 2 nos 230V AC operated 250mm X 250mm size axial fans for exhaust of heat with On-Off toggle switches including 2 coated primer and 2 power coated paint fnish of approved shade over metal surface cleaned and treated with seven tank process complete with interconnections etc as per specifications as required.main panel board of approved make (BCH /SUPER TECH POWER CONTROL/R-FLEX/APPLICATION CONTROL Approval as instructed by the SBI/Architect)as per the following specifications, 	
All live accessible parts shall be shrouded and all equipment shall be finger touch proof. The busbars insulation shall be withheat shrinkable sleeves SMC/ DMC shrouds and busbar supports shall be used. Padlocking facility shall be provided on all outgoing feeders doors and switch handles shall be locable in OFF position.	
Suitable arrangement shall be made for termination of multiple incoming cables.	

	(i) 1 No. FP 160 amp , 25 KA MCCB with thermal magnetic trip unit WTH Digital, Energymeter, Voltmeter & Digital Ammeter, RYB indicators sutiable size of CTS, selector switches, MS Stand etc. & connected with outgoing copper bus bar of 200 amp with 1 nos160 amp TP MCCB, . Connected with Main Raw Power (II) 1 No. FP 100 amp , 25 KA MCCB with thermal magnetic trip unit WTH Digital, Energymeter, Voltmeter & Digital Ammeter, RYB indicators, sutiable size of CTS, selector switches etc. & connected with outgoing copper bus bar of 150 amp. Connected with DG supply (Note:- Before Placing the Panel order, firstly it Passed by The Bank Authority, otherwise it will not considered)			
	OUTGOINGS:-			
	1 Nos 63A TPN MCCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars.			
	1 Nos 100A TPN MCCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. For (FOR VRF PANEL)			
	1 Nos 63A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars.			
	2 No 32A TPN MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For E Lobby, UPS)			
	2 Nos 32A DP MCB (10 kA) terminals suitable to receive cable on one side and wire connection to Bus bars. (For Maintenance & SIGNAGE)			
	The electrical panel as described above and specifications complete.	Set	1	
	PUBLIC ADDRESS SYSTEM			
1	Supply and laying Wiring of 1.5 sq mm twin core shelded type of speaker cable with Providing and fixing in position the following FRLS PVC conduits including all accessories concealed/exposed in F.Ceiling/Wall complete as required including 1.6/2.0 mm thick PVC junction or pull boxes with 3mm thick perspex sheet cover plate complete with 1.6 mm dia G.I. pull wires in the length of conduit including all accessaries.		15	
2	Supply, installation, testing and commissioning of following Philips (BOSCH) make Music Accessories / Equipments.			
a.	Ceiling Speaker Unit 6 Watts	Nos.	15	
	Power Amplifier, min 70 Watts with output transformer etc. complete. Plena Range/ Ahuja or as approved by the Bank capable of taking Inputs from USB Also.		1	
I	AIR CONDITIONING WORKS			
	Dismantling of existing high wall split ACs provided by the Bank (Indoor, outdoor) from present location in branch and reinstallation to new location as per layout, including testing & commissioning, refrigerant gas filling, servicing, cleaning, capacitor change etc., as per drg. or as directed by the engineer incharge: 1.5/2.0 TR Split type AC.		8	
2	Supplying and laying of Extra copper refrigerant piping with nitrile rubber pipe insulation, both of size as specified by the manufacturer suitable for split and Cassette AC - From Indoor to outdoor Units (make as approved by Architect/ Bank			

	For 1.5 TR/ 2.0 TR Split AC as specified by the manufacturer	RM	100	
	For 3.0/4.0 TR Cassette as specified by the manufacturer	RM	45	
3	DRAIN PIPING			
ა 				
	Providing and fixing drain piping up to drain as directed by the engineer incharge with all accessories e.g. elbows, unions, sockets, reducers, reducing tees, nipples etc. Complete job including cutting chiseling in walls, floor and making good of all chases/ cuts etc. and discharging the drain into a floor trap/ gully as per site conditions with insulation, both as specified by the manufacturer (make as approved by Architect/ Bank).			
a	25 mm dia PVC drain pipe for Split AC	Mtr.	80	
b	32 mm dia PVC drain pipe for Cassette AC	Mtr.	50	
	Supplying and laying of Extra Electrical interconnecting control cable from indoor to outdoor of size as specified by the manufacturer suitable for 1.5/2.0 TR Split type AC (make as approved by Architect/ Bank).		110	
	Supplying and laying of Extra Electrical interconnecting control cables from indoor to outdoor of size as specified by the manufacturer suitable for 3.0/4.0 TR Cassette type AC (make as approved by Architect/ Bank).		50	
	TOTAL FOR ELECTRICAL & ALLIED WORKS			