## STATE BANK OF INDIA SCHEDULE OF WORKS: ELECTRICAL & AC WORKS

HASPURA BRANCH AURANGABAD: AO GAYA RBO

NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	ELECTRICAL				
	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 (IP 42), 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 with switches 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. Name plate of Panels Danger Board, incoming and outgoing feeders with Ampere rating of switches are to be fixed up on front door above or below the respective switches. Approval of Manufacturer's drawings from E-I-C. The Panel consists of the following INCOMING:  1 No. : 415V, 125A 4P MCCB (36 KA) (ICS=ICu=100%) for Mains, 1 No. : 415V, 100A 4P MCCB (36 KA) for DG, (Ics=ICu=100%)  1 No. : 415V, 125A 4P On-Load Changeover Switch  2 No. : Digital Multi Function Meter (MFM) for Current, Voltage, Frequency, Power.  6 Nos.: LED Phase indicating lamps, 6 Nos.: Suitable CTS(200/5)  PVC sleeved TPN Tinned Copper Busbar  35mm x 6mm for phases and neutral. ( 2sets)  G.I. EARTH BUSBAR - 25mm x 3mm covering the total length of panel.  OUTGOING:  Termination I: (To be connected with C.O.)  3 No 32A DP MCB for Glow Sign Board and others, 1 No 63A 4P MCCB(25KA) for Raw Power VTPN , 1 No 63A 4P MCCB (55KA) for AC VTPN , 1 no 63A TPN spare  Termination-II: (Not to be connected with C.O.)  1 Nos. 63A 4P MCCB(25KA) for AC VTPN , 1 no 63A TPN spare	SET	1		
2.1	(A) UPS INCOMING DB: Supply of all required materials and fixing of input UPS box (Company made) having provision of the following arrangement complete with all respects per the direction of engineer in charge. Incoming: 1 No. 63A (10KA) TPN MCB Outgoing: 2 Nos. 63 A (10KA) DP MCB		1		
2.2	(B) UPS OUTGOING DB: Supply of all required materials and fixing of output UPS box (Company made) having provision of the following arrangement complete with all respects per the direction of engineer in charge. <i>Incoming:</i> 1 no. 63 A DP MCB <i>Outgoing:</i> 3 No. 40A (10KA) DP MCB	l	1		
3	SITC of following VTPN Distribution Board (HVAC DB), having vertical fishbone busbar type, factory assembled wall mounted, sheet metal fabricated, fully powder coated, having dust proof & vermin proof hinged door with all internals such as DIN channels, neutral link, internal wiring complete with double earthing lugs including DB wiring dressing with ferruling, termination of circuits with ping type copper lugs, etc. housing following switchgears. (Schneider / ABB/ Legrand / Siemens / L&T make)				
3.1	Incoming:1 no 415V ,4P,63A MCCB,25/36KA rating(L&T/ABB/SIEMENS ) outgoing:- 8 nos 40A SP MCB(10KA ), FOR RPDB/LDB/BM AC etc	SET	1		
3.2	Incoming:1 no 415V ,4P,63A MCCB,25/36KA rating(L&T/ABB/SIEMENS) outgoing:- 8 nos 40A SP MCB, FOR AC etc	SET	1		
7	RAW POWER DB/ LIGHT DB / COMPUTER DB Supply and installation of following <b>metallic double door</b> MCB Distribution Board with MCB having breaking capacity of 10 KA (minimum) complete with busbar, interconnection, painting, 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 & number of DBs are to be fixed up on front door of DBs for their identification.				
а	CDB: Consumer unit SPN MCB DB complete with busbar and the following MCBs. INCOMING: 1 No. 240V 40A (10KA) DP <b>RCBO(30mA-100mA)</b> OUTGOING: 8 Nos. 240V 10A (10 KA) SP MCB	No.	2		

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b	Double pole MCB DB in sheet steel enclosure with Incoming: 1 no. 25A DP ELCB, Outgoing: 2 no. 10A SPN MCB complete with interconnection, timer(QT-31) & contactor (2P 25A) for glow sign board and Street Light. (L&T/ABB/SCHNEIDER)	No	1	
С	LDB: Consumer unit SPN MCB DB complete with busbar and the following MCBs. INCOMING: 1 No. 415V 40A (10KA) DP MCB OUTGOING: 8 Nos. 240V 10A (10 KA) SP MCB	No.	3	
d	UPS Essential DB for CCTv, Fire Alarm Etc: Consumer unit SPN MCB DB complete with busbar and the following MCBs. INCOMING: 1 No. 240V 40A (10KA) DP <b>RCBO</b> OUTGOING: 6 Nos. 240V 10A (10 KA) SP MCB		1	
	RPDB :Consumer unit SPN MCB DB complete with busbar and the following MCBs. INCOMING : 1 No. 415V 40A (10KA) DP MCB OUTGOING : 6 Nos. 240V 10A-16A (10 KA) SP MCB	No.	2	
	Wiring flame retardant FRLS/FRLSH as mentioned in rows below in MS conduit of IS specification of proper size with all material supply installation and commissioning complete from DB .The wiring shall be carried out on surface above false ceiling, and below of false ceiling by chiseling the existing surface and plastering the same with cement etc., or as cutting of tiles(with finishing), as per site conditions after fixing the MS conduit with all accessories like saddles screws, bends T-joint etc			
а	With FRLS 2 nos. 6 Sq.mm $\pm$ 1 no. 2.5 Sq.mm. (green colour for earth) PVC insulated copper wire in ms conduit for UPS Outgoing to LDB/RPDB/CDB	Mtr	170	
b	With FRLS 4 nos. 6 Sq.mm $\pm$ 1 no. 2.5 Sq.mm. (green colour for earth) PVC insulated copper wire in ms conduit for UPS input	Mtr	50	
С	With FRLS 2 nos. 6 Sq.mm $\pm$ 1 no. 2.5 Sq.mm. (green colour for earth) PVC insulated copper wire in ms conduit for cassette AC (2 tr) as per direction of E-I-C.	Mtr	90	
d 6	With FRLS 2 nos. 4 Sq.mm $\pm$ 1 no. 2.5 Sq.mm. (green colour for earth) PVC insulated copper wire in ms conduit for AC (1.5 tr) as per direction of E-I-C.	Mtr	35	
	SUPPLY, LAYING, LUGGING, DRESSING, GLANDING, FINISHING, TESTING AND COMMISSIONING OF POWER CABLE: Following 1.1KV grade fire resistant <b>A2XFY</b> XLPE armored aluminium conductor cable with one no. <b>10 SWG GI wire</b> , laying of the cable partly on wall/column including supply and fixing with 300mm apart MS clamps/galvanized bar saddles and double compression type <b>brass</b> cable gland <b>Dowel make</b> along with rubber rings for dust and moisture proof entry of the cable and finishing the ends by crimping method. <b>(POLYCAB/FINOLEX/NICCO/UNIVERSAL)</b>			
6.1	SITC of 3.5CX 50 SQMM cable incoming cable for MAIN INCOMING & AC VTPN	Mtr	65	
6.2	SITC of 3.5CX 35 SQMM cable incoming cable for Raw Power VTPN	Mtr	35	
	(A) COMPUTER SOCKET OUTLET WITH WIRING  Computer socket outlet cluster point including supply and fixing of modular type socket outlet clusters components and its wiring from CDB, complete in all respect as detailed below. Each computer socket outlet cluster comprising the following  5. Nos. 6/16A 5 pin modular type International sockets  1. No. 16A modular type common controlling switch with indicator on table top with 2. Nos.  2.5 Sq.mm. + 1 x 1.5 Sq.mm.FRLS (green colour for earth) PVC insulated copper wire in prelaid (as per ISI) M.S. conduit including interconnection, painting etc. as required to be completed in all respect from CDB to Computer point.	No.	6	
	(B) COMPUTER SOCKET OUTLET AND ITS WIRING Computer socket outlet cluster point including supply and fixing of modular type socket outlet clusters components complete in all respect as detailed below. Each computer socket outlet cluster comprising the following  3 Nos. 6/16A 5 pin modular type International sockets  1 No. 16A modular type common controlling switch with indicator on table top with 2 Nos.  2.5 Sq.mm. + 1 x 1.5 Sq.mm. PVC insulated copper wire (1.1 KV grade FRLS/FR-LSH) in prelaid (as per ISI) M.S. conduit including interconnection, painting etc. as required to be completed in all respect from CDB to Computer point. (proper colour code must be followed)	No.	2	

	C) UPS/ RAW 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. Each computer socket outlet cluster comprising the following 2 Nos. 6A/16A 5 pin modular type International sockets. 1 No. 16/20A modular type controlling switch with 2 Nos. 2.5 Sq.mm. + 1 x 1.5 Sq.mm. (green colour for earth) PVC insulated copper wire in pre - laid (as per ISI) M.S. conduit including interconnection, painting etc. as required to be completed in all respect from RPDB to Raw Power Outlet. Proper colur code must be followed.	No.	6	
	D) UPS / RAW 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. Each computer socket outlet cluster comprising the following 1 Nos. 6A/16A 5 pin modular type International sockets with indicator 1 No. 16/20A modular type controlling switch with 2 Nos. 2.5 Sq.mm. + 1 x 1.5 Sq.mm. (green colour for earth) PVC insulated copper wire in pre - laid (as per ISI) M.S. conduit including interconnection, painting etc. as required to be completed in all respect from RPDB to Raw Power Outlet. Proper colur code must be followed.		4	
	SITC of metal clad socket MCB for AC point with controlling 32 A DP MCB with industrial top complete in all respects in suitable enclosure.	No.	5	
	. SITC of OBO Betterman 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 IEC 60364-5-54 - Tested for short circuit withstanding capacity - High tensile strength 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 (25 KG) Earth Enhancement Compound confirming to IEC 62561-7 c) One nos of universal clamp .The work shall also include required masonry work, CI cover plate & Earthing name plate. The vendor shall also submit the earth test report with required values. Pics of earthing to be shown.		2	
10.1	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	
10.2	Supply and laying of 8 SWG Cu cotton coated wire in 20mm dia rigid PVC conduit for earthing From the existing earth pit to the Main panel/UPS	Mtr.	90	
11	POINT WIRING AND CIRCUIT WIRING  Point wiring with FRLS 1100 V grade 3 nos. single core 1.5 sq.mm. and 1 for common earth by looping method) PVC insulated stranded copper conductor wire (IS:694) through suitable size M.S. conduit (ISI marked embossed on conduit surface) by thred cutting, complete with junction box, circular box, elbows, bends, couplers and other accessories on surface above false ceiling or concealed by chase cutting on wall 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 for light and fan point, 6A 2/3 pin shuttered socket outlet with switch in each switch board, 3 plate ceiling rose / angle or batten holder etc. as required. The point wiring also includes circuit wiring with FRLS 1100 V grade 2 nos. single core 2.5 sq.mm. + 1 no. single core 1.5 sq.mm. PVC insulated stranded copper conductor cable (IS:694) through suitable size M.S. conduit as described above from DB to switch board, interconnection, mending good all damages to original finish, painting etc.			

	Sheet1						
а	1 Light control by 1 switch	No.	35				
b	2 /3 Light control by 1 switch	No.	30				
С	UPS light point	No.	5				
d	Glow sign board wiring	No.	1				
е	Exhaust fan point	No.	4				
f	Ceiling fan point with supply and fixing of Electronic Regulator as required as per site conditions.	No.	6				
g	1x16A 2/3 pin modular socket with switch on separate switch board outside the Cash Room complete with wiring. Suitable Top to be provided for supply to Cash Room. /RECORD ROOM/STATIONERY ROOM	No.	4				
h	Wall fan point with socket	No.	10				
i	3 pin 6/10A modular socket with switch in board	No.	6				
12	Supply and fixing of ding-dong calling bell with complete wiring in BM's Chamber as per direction of E-I-C	No.	2				
13	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.						
	125A TPN SFU with HRC fuses	No.	1				
	PART B-SUPPLY AND FITTING OF ELECTRICAL FITTINGS						
14	Supply & Fixing of 36W-2'x2' LED Panel light recessed mounted make complete with all accessories.	No.	15				
15	Supply & Fixing of 15W LED Downlighter recessed mounted of make complete with all accessories	No.	15				
16	Supply & fixing of 20W/22W LED T5 Batten fitting complete with all respect.	No.	10				
17	Supply & fixing of 35W LED Street Light with suitable mounting pipe etc. Of complete in all respect	No.	2				
18	Supply & fixing of 450mm sweep, oscillating type, wall mounting, multi speed wall fan metal blades three pin complete with all respect as per direction of Bank/E-I-C.	No.	7				
19	SITC of 1200MM ceiling fan	No.	3				
20	SITC of 9" dia 230V,1400 rpm exhaust fan as in toilets, ups room, toilets etc.	No.	5				
	PART C- LAN CABLING WORK						
21	Supply of 1 mtr. Long E-CAT 6 PATCH CHORD  (Make: D-LINK, AMP, HCL, Legrand)	No.	12				
22	Supply of 2 mtr. Long E-CAT 6 PATCH CHORD  (Make: D-LINK, AMP, HCL, Legrand)	No.	6				
I	INTERNET SOCKET WITH DATA CABLE:: SITC of modular RJ-45 internet sockets with suitable mounting box (modular type) including all inter-connections as required with front plate D link or equivalent make approved by the bank connections etc as required along with supply, laying, concealing of CAT 6 LAN cables upto 30 metres or less or as per site conditions in rigid pvc conduit pipes complete in all respects from Data Rack to I/O points. Rates to include cost of LAN cable and its installation.	No.	12				
24	Supply & installation of 9U Rack with power supply arrangement, ventilation fan, mounting racks ect. Complete with all accessories.	No.	1				

STC of 24 poor Patch Patch Complete in all respects.  No. 1  STACO 24 poor Patch Patch Complete in all respects.  No. 1  STACO 25 poor Patch Patch Complete in all respects.  Phanages for making and submitting near and clean computational Electrical Drawings of the Standard Indicating SLO of the Branch Indicating SLO which the Patch Indicating SLO, which the Patch Indicating SLO of the Standard Indicating power flow and summitting the same.  Drawing of the Standard Indicating SLO of the Standard Indicating power flow and summitting the same.  Drawing of the Standard Indicating SLO of the Standard Indicating Down of the Standard Indicating The Standard Indicating India					
Disarge over which with suitable enclosure. Complete with all respect.  Charges for making and submitting near and of the clean computatives DS control boards, and an admitting near and of the clean computerised Electrical and Electrical Computerism of the Branch indicating Data Rack. I, an wiring to different I/O boxes etc. Branch and clean computerised lam WiRING Drawing of the Branch indicating Data Rack. I, an wiring to different I/O boxes etc. Branch and the clean computerism of the Computer State II of the Computer II o	25	SITC of 24 port Patch Panel complete in all respects.	No.	1	
browing of the Branch Indicating SLD of the Branch, indicating post of the bards, sit clang with proper numbering and indicating power flow and amount of the branch indicating power flow and standard power of the Branch Indicating Data Rack, Isin writing to different I/O boxes etc.  Supply A Installation of single color (wern white / any other approved color) flexible LED strip light for ceve including required rated driver / power supply in a multiples of I Bart are approved dialor with all necessory hardware & accessories, Rem.  Signo A Installation or single color (wern white / any other approved color) flexible LED strip light for ceve including required rated driver / power supply in an untiples of I Bart are approved dialor with all necessory hardware & accessories, Rem.  SITC of Surge Protection Device, OBO Betterman/PHOENIXIDHEN make as 1/25-BP-CG + PRDE - PS-200. Class Br.C (Lightning & Switching protection) SPD in suitable No. 1 and the protection of the prote	26			2	
brawing of the Branch Indicating Dais Rack , Ian writing to different I/O boxes etc slong with proper numbering and laminating the same.  Supply & Installation of single color (worm white / any other approved color) flexible LED strip light for cove including required reted driver / power supply in multiples of I Rintr os approved along with oil necessary hardware & accessories. Rent and training the same of the property of th	27	Drawing of the Branch indicating SLD of the Branch, indicating DB, switch boards, etc along with proper numbering and indicating power flow and		1	
flexible LED strip light for cove including required rated driver / power supply in multiples of I Rmt rat suppressed along with all necessory hardware & accessories etc. Complete as required (PHIUPS / WIPRO / CGL / GE / Baja/Syska)  SITC of Surge Protection Device , OBO Betterman/PHOENIX/DHEN make as V25-BHC 3 - NPE - FS-320. Class BHC (Lightning & Switching protection) SPD in suitable inclosure and necessary intercorrection as required.  SITC of LED SWißw light & fixture recessed type ROUND DOWNLIGHTER in gyseum cove with all interconnection and fixing arrangements as No.  Air conditioning Works  Design Sypply installation, lealing & commissioning of air-conditioning units (including MS frames/stands for standard installation of indoor and outdoor given else where in the tender. (please read before quoting)Note: The contractor will attend to all defects noticed during defect liability period. Within 24 hours from the time of complain if the contractor fails to attend to the defects within 24 hours from the time of complain if the contractor fails to attend to the defects within 24 hours more yield on to time. The Entire Job Shall be Executed in Total Co. Ordination with the Other Agencies Working on this Project more particulary with the Failse Celled. The Robert of the Shall be Executed in Total Co. Ordination with the Other Agencies Working on this Project more particulary with the Failse Celling. The quantities as mentioned of Ac are provisional may increase/decrease/withdrawn as per requirement of site or instruction of Bara thank variety / Reciprocating compressor, having R 32/R-410A economists of the contractor of the proper	28	Drawing of the Branch indicating Data Rack , lan wiring to different I/O boxes etc		1	
siTC of LED SW/6w light & fixture recessed type ROUND DOWNLIGHTER in gypsum cove with all interconnection and fixing arrangements as No.  Air conditioning Works  Design, Supply, installation, testing & commissioning of air-conditioning units (including MS frames/stands for standard installation of indoor and outdoor units) as per the details of scope of work, specifications and components given else where in the tender, (lease read before quoting)Note-The contractor will attend to all defects noticed during defect liability period Within 24 hours from the time of complain if the contractor fails to attend to the defects within 24 hours from the time of complain if the contractor fails to attend to the defects within 24 hours time these defects will be rectified by the Bank and the expenditure incurred on this account will be recovered from security deposit, or any other money due on to time. The Entire Job Shall be Executed in Total Co. Ordination with the Other Agencies Working on this Project more particulary with the False Ceiling. The quantities as mentioned of AC are provisional may increase/decrease/intractor and some project of AC are provisional may increase/decrease/intractor and some project of AC are provisional may increase/decrease/intractor and the contractor of the contractor of Bank.  High Side Items  Supply of following Ceiling Mounted 4-way Cassette type AC with scroll. Rotary / Twin rotary / Reciprocating compressor, having R 32/R-410A econtractor in the contractor of the contract	29	flexible LED strip light for cove including required rated driver / power supply in multiples of 1 Rmtr as approved along with all necessary hardware & accessories,		60	
DOWNLIGHTER in gypsum cove with all interconnection and fixing arrangements as No. 40 Required.  Air conditioning Works  Design, Supply, installation, testing & commissioning of air-conditioning units (including MS frames/stands for standard installation of indoor and outdoor units) as per the details of scope of work, specifications and components given else where in the tender, (please read before quiding)Note. The contractor will attend to all defects noticed during defect liability period. Within 24 hours from the time of complain. If the contractor fails to attend to the defects within 24 hours time these defects will be rectified by the Bank and the expenditure incurred on this account will be recovered from security tleposit, or any other money due on to time. The Entire Joh Shall be Executed in Total Co. Ordination with the Other Agencies Working on this Project more particularly with the False Celling. The quantities as mentioned of AC are provisional may increase/decrease/withdrawn as per requirement of site or instruction of Bank.  High Side Items  Supply of following Ceiling Mounted 4-way Cassette type AC with scroll. / Rotary / Twin rotary / Reciprocating compressor, having R 32/R-410A ecofriendly gas. Including indoor unit. & outdoor unit. decorative grille and cordiess remote Machine shall have copper condenser Unit. (The positions must be designed in an apt away as per site conditions).  (Make: LG/ Daikin / Carrier / Hitachi / Mitsubishi / Bluestar) For HALL AREA  Supply of single phase 2.0 TR or nearest higher rating Capacity Copper Condensor Coll and eco friendly refrigerants (R32 or R 410A). (Make: G/O Daikin / Carrier / Hitachi / Mitsubishi / Bluestar) For BM No. 4  Supply of Hi-Wall mounted Spitt AC unit complete with Indoor / Outdoor units along with cordless remote controller. (R-32/R410 A)  Supply of J.5.TR. Hi wall split Air Conditioner Unit (5 STAR inverter type Jopper), standard kit, ref pipe, cable etc & fixing accessories.  (Make: LG/ Daikin / Carrier / Hitachi / Mitsubishi / Bluest	30	SITC of Surge Protection Device , OBO Betterman/PHOENIX/DHEN make as V25-B+C/3 + NPE- FS-320, Class B+C (Lightning & Switching protection) SPD in suitable enclosure and necessary interconnection as required.	No.	1	
Design,Supply , installation, testing & commissioning of air-conditioning units (including MS frames/stands for standard installation of indoor and outdoor units) asper the details of scope of work, specifications and components given else where in the tender. (please read before quoting)Note:The contractor will attend to all defects noticed during defect liability period. Within 24 hours from the time of complain if the contractor fails to attend to the defects within 24 hours time these defects will be rectified by the Bank and the expenditure incurred on this account will be received by the Bank and the expenditure incurred on this account will be received from security deposit, or any other money due on to time. The Entire Job Shall be Executed in Total Co. Ordination with the Other Agencies Working on this Project more particularly with the False Celling. The quantities as mentioned of AC are provisional may increase/decrease/withdrawn as per requirement of site or instruction of Bank.  High Side Items  Supply of following Ceiling Mounted 4-way Cassette type AC with scroll / Rolary / Twin rotary / Reciprocating compressor, having R 32/R-410A econfriendly gas. Including indoor unit & outdoor unit. decorative grille and cordinates recording indoor unit & outdoor unit. decorative grille and cordinates recording indoor unit & outdoor unit. decorative grille and cordinates with Capper (inverter technology) Cassette type split air conditioners with Copper (Condensor Coil and eco friendly refrigerants (R32 or R 410A).  Supply of single phase 2.0 TR or nearest higher rating Capacity Copper (inverter technology) Cassette type split air conditioners with Copper (Condensor Coil and eco friendly refrigerants (R32 or R 410A).  Supply of Hi-Wall mounted Split AC unit complete with Indoor / Outdoor units along with cordiess remote controller. (R-32/R410 A)  Supply of J.5.TR. Hi wall split Air Conditioner Unit (5 STAR Inverter type copper), standard kit, ref pipe, cable etc & fixing accessories.  (Make: LG/ Daikin / Carri	31	DOWNLIGHTER in gypsum cove with all interconnection and fixing arrangements as	No.	40	
(including MS frames/stands for standard installation of indoor and outdoor units) as per the details of scope of work, specifications and components given else where in the tender. (please read before quoting)Note:The contractor will attend to all defects noticed during defect liability period. Within 24 hours from the time of complain if the contractor fails to attend to the defects within 24 hours time these defects will be rectified by the Bank and the expenditure incurred on this account will be recovered from security deposit, or any other money due on to time. The Entire Job Shall be Executed in Total Co. Ordination with the Other Agencies Working on this Project more particulary with the False Ceiling. The quantities as mentioned of AC are provisional may increase/decrease/withdrawn as per requirement of site or instruction of Bank.  High Side Items  Supply of following Ceiling Mounted 4-way Cassette type AC with scroll / Rotary / Twin rotary / Reciprocating compressor, having R 32/R-410A ecofriendly gas. Including indoor unit & outdoor unit. decorative grille and cordinates remote Machine shall have copper condenser Unit. (The positions must be designed in an apt away as per site conditions)  (Make: LG/ Daikin / Carrier / Hitachi / Mitsubishi / Bluestar)  32.1 (inverter technology) Cassette type split air conditioners with Copper Condensor Coil and eco friendly refrigerants (R32 or R 410A). (Make: LG/ Daikin / Carrier / Hitachi / Mitsubishi / Bluestar) FOR HALL AREA  Supply of Hi-Wall mounted Split AC unit complete with Indoor / Outdoor units along with cordless remote controller. (R-32/ R410 A)  Supply of Hi-Wall mounted Split AC unit complete with Indoor / Outdoor units along with cordless remote controller. (R-32/ R410 A)  Supply of Hi-Wall mounted Split AC unit complete with Indoor / Toutdoor units apply to the standard kit, ref pipe, cable etc & fixing accessories.  (Make: LG/ Daikin / Carrier / Hitachi / Mitsubishi / Bluestar) For BM chamber  Low Side Works  Refrigerant copper piping both in and		Air conditioning Works			<u> </u>
Supply of following Ceiling Mounted 4-way Cassette type AC with scroll / Rotary / Twin rotary / Reciprocating compressor, having R 32/R-410A eco friendly gas. Including indoor unit & outdoor unit. decorative grille and cordless remote Machine shall have copper condenser Unit. (The positions must be designed in an apt away as per site conditions)  (Make: LG/ Daikin / Carrier / Hitachi / Mitsubishi / Bluestar)  Supply of single phase 2.0 TR or nearest higher rating Capacity Copper (inverter technology) Cassette type split air conditioners with Copper Condensor Coil and eco friendly refrigerants (R32 or R 410A). (Make: LG/ Daikin / Carrier / Hitachi / Mitsubishi / Bluestar) FOR HALL AREA  Supply of Hi-Wall mounted Split AC unit complete with Indoor / Outdoor units along with cordless remote controller. (R-32/R410 A)  Supply of 1.5 TR. Hi wall split Air Conditioner Unit (5 STAR inverter type copper), standard kit, ref pipe, cable etc & fixing accessories. (Make: LG/ Daikin / Carrier / Hitachi / Mitsubishi / Bluestar) For BM chamber  Low Side Works  Refrigerant copper piping both in and out, laid between indoor & outdoor unit as per OEM's specifications duly insulated with Class "O" fire retardant 6 mm sleeve type elastomeric nitrite rubber insulation. It shall be in total clamping manner above false ceiling & in total concealed manner below false ceiling level. From the structural ceiling it should hang or shall be less than 1 meter. It shall not be placed over the false ceiling nor it shall be less than 1 meter. It shall not be placed over the false ceiling nor it shall be listed with false ceiling members. The diameter / gauge of the ref.pipe shall be as per the specifications of the Manufacturing company (OEM) only for each type of machine.		(including MS frames/stands for standard installation of indoor and outdoor units ) as per the details of scope of work, specifications and components given else where in the tender. (please read before quoting) Note: The contractor will attend to all defects noticed during defect liability period. Within 24 hours from the time of complain If the contractor fails to attend to the defects within 24 hours time these defects will be rectified by the Bank and the expenditure incurred on this account will be recovered from security deposit, or any other money due on to time. The Entire Job Shall be Executed in Total Co. Ordination with the Other Agencies Working on this Project more particlulary with the False Ceiling. The quantities as mentioned of AC are provisional may increase/decrease/withdrawn as per requirement			
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23.1 copper), standard kit, ref pipe, cable etc & fixing accessories.  (Make: LG/ Daikin / Carrier / Hitachi / Mitsubishi / Bluestar) For BM  Low Side Works  Refrigerant copper piping both in and out, laid between indoor & outdoor unit as per OEM's specifications duly insulated with Class "O" fire retardant 6 mm sleeve type elastomeric nitrite rubber insulation. It shall be in total clamping manner above false ceiling & in total concealed manner below false ceiling level. From the structural ceiling it should hang or shall be fixed on wall / beam etc. with clamps & the distance between two clamp shall be less than 1 meter. It shall not be placed over the false ceiling nor it shall be fixed with false ceiling members. The diameter / gauge of the ref.pipe shall be as per the specifications of the Manufacturing company (OEM) only for each type of machine.	33				
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<b>34.1</b> For Cassette AC (2.0TR) Rmt 50	34	Refrigerant copper piping both in and out, laid between indoor & outdoor unit as per OEM's specifications duly insulated with Class "O" fire retardant 6 mm sleeve type elastomeric nitrite rubber insulation. It shall be in total clamping manner above false ceiling & in total concealed manner below false ceiling level. From the structural ceiling it should hang or shall be fixed on wall / beam etc. with clamps & the distance between two clamp shall be less than 1 meter. It shall not be placed over the false ceiling nor it shall be fixed with false ceiling members. The diameter / gauge of the ref.pipe shall be as per the specifications of the Manufacturing company (OEM) only for			
	34.1	For Cassette AC (2.0TR)	Rmt	50	

Sheet1

35	Drain Piping: Insulated Condensate Water Drain piping constructed out of PVC / HDPE hard pipes, fitting, accessories, bends, elbows, tees, flanges, tappings, wall sleeves, hangers, supports, anchors Fastners.				
35.1	Drain pipe	Rmt	60		
36	SITC of Electrical Power Cabling between indoor unit &outdoor unit as per OEM's design & specifications in 25mm dia., conduits with accessories The power shall be made available at 1 place & single core wire shall not be used. It shall be in clamping manner above false ceiling & in concealed manner below false ceiling level.From structural ceiling it should hange or shall be fixed on wall/beam etc. with clamps at distance not more than 1 meter. It shall not be placed over the false ceiling nor shall be fixed with false ceiling members.				
36.1	Control cable between indoor & outdoor unit for cassette AC	Rmt	60		
37	Installation charges of the 2.0 TR/1.5TR Copper Cassette Type/ Split AC including outdoor frame / stands to withstand the full load of outdoor units and making good all the damage.		5		
	SUPPLY & INSTALLATION OF STABILISERS				
	For 2 ton cassette AC (5 KVA) stabiliser with metal body	No.	4		
	For 1.5 ton/ 1 ton Cassette AC/split stabiliser with metal body (4 KVA)	No.	1		
	All sort of Civil work required to be executed in order to make the Air- conditioning system installed & put in working condition. The item includes, making holes / gaps in walls to pass duct & pipes, making zaries required for various types of drain, refrigerant & drain water pipes / lines in walls, floor etc. using cutter machine, including core cutting, wall cutting etc as	Job	1		
		TOTAL (Rs.)			
	Grand Total				
	(GST will be extra as applicable)				
1	The rate quoted shall be firm and shall include all costs, allowances, Charges, levies, Royalties, Cess,transportation etc. but excluding GST as applicable which will be reimbursed by the Bank as per Government norms prevailing from time to time. Contractor's are advised to visit the site before quoting. The quantities are tentative may increase or decrease as per site requirement.				