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**PROJECT:**

**PROPOSED INTERIOR FOR  
BANK OF BARODA  
CHANDANAGER BRANCH  
(PHYGITAL)**

**TITLE**

**INTERIOR &  
ELECTRICAL  
LAYOUT PLAN**

**TITLE BLOCK :**

DRW.No:	BOB/PHY/SS-01
DATE:	22-01-2024
DESIGN BY :	FA
DWN BY :	ROUF
CHD BY :	FA
SCALE:	N T S

**NORTH :**

**ARCHITECT:**

**FIROZ AHMED, M.Arch.,  
H.NO-13-6-436/A/33, FLAT NO. 301,  
2nd FLOOR LAKSHMI APARTMENT,  
LAKSHMI NAGAR, PILLAR NO.68,  
MAHIDIPATNAM, HYDERABAD,  
CELL: 98481 49737.**

**OPTION-6b**



S.NO	DESCRIPTION	UNIT	QTY	Rate (Rs)	Amount(Rs)
	<b>INTERNAL ELECTRICAL WORKS</b>				
<b>E - 1</b>	<b>Lights Points(Including Circuit Wiring 2x2.5+1.5 Sqmm)</b>				
	Point Wiring for Light/ Fan/ Exhaust fan with 2runs of 650V grade 1.5 Sq.mm FRLS PVC & 1 run of 1.5 Sq.mm PVC insulated Copper wires , run in 25 mm dia heavy gauge PVC conduits concealed in wall / ceiling conforming to IS including all accessories such as junction boxes, conduit bends elbows and ceiling rose, anodised GI Switch box with modular switch and the box covered with front plate.( Point Wiring Include Circuit Wiring From Main Db to SWitch Board with 2x2.5 +1.5 Sqmm Copper fluxible wire etc)				
<b>a</b>	One Light point controlled by one 6A switch.	Nos	66		
<b>b</b>	Two Lights point controlled by one 6A switch.	Nos	26		
<b>c</b>	Exhaust fan point controlled by one switch.	Nos	7		
<b>d</b>	Ceiling fan point controlled by one switch & Electronic Step type Regulator and Concealed MS fan hook box.	Nos	6		
<b>e</b>	Supply and fixing of 6A, 3Pin Socket outlet switches of 6A rating boards for Wall Mounting Fans and (Dependant).				
<b>i</b>	Independent points	Nos	14		
<b>ii</b>	Dependent points	Nos	14		
<b>d</b>	Inverter points	Nos	26		
<b>E - 2</b>	Supply and Wiring with the following size 650V grade FR PVC insulated Copper conductor wires in suitable <b>PVC conduit</b> including end terminations with suitable lugs.				
	a)Supply and wiring of UPS Points wiring from UPS Room DB to Individual Work Stations With required all Connections and Suitable PVC Conduites. 2runs of 2.5Sq.mm PVC wires with 1run of 1.5 Sq.mm PVC Conduite for UPS out going Wirings	Rmt	178		
	b) 2runs of 4Sq.mm PVC wires with 1run of 2.5 Sq.mm PVC Conduite	Rmt	228		
	c) 2 runs of 6 Sq.mm PVC wires with 1 run of 4 Sq.mm PVC insulated Copper earth wire in PVC in conduit. For A/C Sockets	Rmt	80		
	d) 4 runs of 4 Sq.mm PVC wires with 2 runs of 4Sq.mm PVC insulated Copper earth wire in PVC conduit.	Rmt	150		
	e) 2runs of 4.0 Sq.mm PVC wires with 1run of 1.5 Sq.mm PVC wire for Name board from the 10 A DP MCB on the main board	LS	1		
<b>E - 3</b>	<b>Light / Fan Fixtures</b>				

S.NO	DESCRIPTION	UNIT	QTY	Rate (Rs)	Amount(Rs)
	Supply and Installation of following type Fluorescent/ Compact fluorescent/ Incandescent light fixtures on wall/ Ceiling including all fixing accessories such as leads,Teak wood round block etc complete as required. The Fluorescent/CFL fixtures shall be complete with Low loss copper ballast PF improvement capacitor, Bipin Rotor type lamp holder,starter, starter base, all prewired upto the terminal block. All fixtures shall be supplied with lamps. The Catalogue Numbers refers to Philips Make or equivalent approved make .				
<b>E-1</b>	a) Recess mounted <b>LED Luminaire</b> 36 x 1W Class LED, Wipro make code: LM - 036 - XXX - WH - XX.				
	Supply	Nos	38		
	Erection	Nos	38		
	Frame	Nos	38		
<b>E-2</b>	b) Recess mounted <b>LED Down lighter</b> with Pressure die cast aluminium housing (10 x 1W), Wipro make code: LD 49 - 900 - XXX - 60 - XX.				
	Supply	Nos	51		
	Erection	Nos	51		
<b>E-3</b>	c)20W <b>LED Tube light</b> fixture Wall/ Ceiling mounted (Philips Make TMS 200/140)				
	Supply	Nos	26		
	Erection	Nos	26		
<b>E - 4</b>	<b>Ceiling Fans</b>				
	Supply &Fixing of 1200 mm sweep Crompton Make High Speed Ceiling fan with standard down rod, all accessories Electrical connections. Including fixing materials required.				
	Supply	Nos	6		
	Erection	Nos	6		
<b>E - 5</b>	<b>Exhaust Fans</b>				
	Supply and Installation of heavy duty Exhaust fans with Metallic blades following size sweep with gravity louvres shutters Exhaust fans with Metallic blades of following				
	a) 300mm Sweep(Crompton make Tracent Model)				
	Supply	Nos	5		
	Erection	Nos	5		
<b>E - 6</b>	<b>MAIN DBS / SUB DBS</b>				
	Supply Installation Testing and commissioning of TPN MCB Double door Distribution boards dust and vermin protected and rated for 415V, Three Phase AC supply operation including incoming MCB/ELCB as per specifications and required capacity Neutral bar and Earth terminal complete as required and installed in flush with wall including all fixing materials required. MCBs shall conform : 8828 and ELCB /RCCB shall confirm to IS : 12640				
	a)Supply, installation, testing and commissioning of (Double door) with 8Way VTPN MCCB DPX DB with 125A 4Pole MCCB as incomer and 63A TPMCBs -2 Nos, 32A TP MCbs-2 Nos, and 12 nos10/32A SPMCBs s outgoing. (for MAIN DB)	Nos	1		

S.NO	DESCRIPTION	UNIT	QTY	Rate (Rs)	Amount(Rs)
	b)Supply, installation, testing and commissioning of (Double door) with 4Way TPN MCB DB with 63A 4Pole MCB as incomer and 12 nos10A SPMCBs s outgoing. (for LDB)	Nos	3		
	c)Supply, installation, testing and commissioning of 8way SPN MCB DB (Double door) with 32A DP MCB as incomer and 6nos. 6A/10A/16A SPMCBs as outgoing.(UPS DB)	Nos.	4		
	d)Supply and fixing of 32 A, DP MCB-1No. with encloser for UPS Incoming.	Nos	4		
	e)Supply and fixing of 63A 4 Pole Change over Switch for LDB/UPS Connections with encloser for UPS Incoming.	Nos	1		
	<b>f) Master Control DB:</b> Supply & fabrication of free standing wall mounted M V panel made out of 14SWG MS sheet after seven tank process and painting with epoxy powder coating with vertical cubicles as detailed below. CUBICLE-1: 100A,4P,25KA MCCB with vary deep extendable handle -1 no CUBICLE-2: 63A, 4P MCBs-2 Nos (Branch UPS, Sign Board and ATM) with vary deep extendable handle-1no. Note : 2 No of MCBs Connections directly from MCCB Input and Panel Install Main Entrance.	Nos	1		
<b>E - 7</b>	<b>Raw power Wiring and Sockets:</b> Supply and wiring of Raw Power Points from Main DB to Individual Work Stations With required all Connections with 2runs of 2.5Sq.mm PVC wires with 1run of 1.5 Sq.mm PVC Conduite for UPS out going Wirings and also SA Supply and fixing of 1 <b>Nos 6A</b> sockets with 1 <b>Nos 6A switch</b> of modular type with 'front plate and anodised GI box complete 'as required'.for UPS Sockets	Nos	18		
<b>E - 8</b>	Supply and fixing of 1no 16A 3pin 'socketswith 16A switch of modular type with 'front plate and anodised GI box complete 'as required'.(Raw Power )	Nos	4		
<b>E - 9</b>	<b>UPS Wiring and Sockets:</b> Supply and wiring of UPS Points from UPS Room DB to Individual Work Stations With required all Connections with 2runs of 2.5Sq.mm PVC wires with 1run of 1.5 Sq.mm PVC Conduite for UPS out going Wirings and also SA Supply and fixing of <b>3 Nos 6A</b> sockets with <b>2 Nos 6A switch</b> of modular type with 'front plate and anodised GI box complete 'as required'.for UPS Sockets. (UPS -1 conection table / counter no.1,3,5 & 7 and UPS -2 table no. 2,4,6 & 8 etc, and network rack & manager 2 UPS points from UPS-1 & UPS-2.	Nos	22		
<b>E - 10</b>	Supply and fixing of 3 Nos 16A sockets with 1 Nos 16A switch of modular type with 'front plate and anodised GI box complete 'as required'.for UPS Sockets	Nos	2		
<b>E - 11</b>	Supply installation testing and commissioning of AC Units With 2x4Sqmm+2.5Sqmm Copper Fluxible Wire From Main DB to AC Units including Legrand Make 20A Metal Clad Socket with 25/32A SP MCB set( Like Metal Clad Socket+Wiring From Db to AC Box to Stabilizer to AC Units)	No	5		

S.NO	DESCRIPTION	UNIT	QTY	Rate (Rs)	Amount(Rs)
E - 12	Supply and erecting of approved make telephone RJ 11 Jack for telephone with 2 pair .5mm Thick Telephone cable including pvc conduite with required all materials (RJ-11 Jack+ 2 pair Cable)	Nos	4		
E - 13	Supply and Laying of 10 pair .5mm Thick Telephone cable including pvc conduite with required all materials From Outside to Rack locations	Nos	1		
E - 14	Supply and fixing of 10pair Crone Connector box with 10 Pair connectors and required all connections.	Nos	1		

<b>E-15</b>	<b>PA &amp; MUSIC SYSTEM</b>				
a	S & I of point wiring for music - cum PA system comprising of 2x 1.0 sqmm stranded , copper conductor , flexible PVC insulated and PVC Sheathed wire pulled through 20 mm dia PVC heavy gauge conduits and looped from one speaker to other and to the volume control and control switch wherever applicable and finally terminated at Tag Block.	14	Pts.		
b	S & I of Philips / Bosch/Ahuja make music 6W (101.6mm Diameter) speaker flush mounted on the false ceiling with proper clamping arrangement	14	Nos.		
c	S & I of volume control - cum - ON - OFF switch flush mounted on wall along with other electrical switches .The size and plate of the regulating knob should match with other switches nearby (MK make)	2	Nos.		
d	S & I of 200 Watts BOSCH/Ahuja make Central Music System Amplifier and MP3/CD/USB Player with FM facility of make Samsung/Onida/LG	1	SET		
e	S & I of TV socket point flush mounted on wall / partition including cabling till outside the builing with connector	1	Nos.		
<b>E -16</b>	<b>MV Cables</b>				
	Supply, laying and commissioning of following size 1.1KVgrade PVC insulated armoured aluminium conductor underground cable, in built up cable trench/ 2" PVC pipe or on cable tray with all installation materials.When the cable is to be laid in ground, the same shall be laid at a depth of 750mm below ground level including excavation and refilling of earth after cables are laid,providing protection with sand and bricks at sides and topand cable route markers at 'every 15mtr. interval and also atthe turnings. The cable shall conform to IS 1554/ Part I.Cable protected in 2" Dia G.I Pipe10' long at the pole (correct measurement should be taken by the contractor before procuring the cable.				
	a) 3.5C X 50 Sq.mm	Rmt	92		
	b) 4C X16 Sq.mm Cu. Arm cable for VRV ODU	Rmt	112		
	c) 3C X 2.5 Sq.mm Cu. Arm cable for VRV ODU	Rmt	132		
<b>E-17</b>	Providing Indoor ordinary end terminations for the cable specified above with compression type steel gland, Bi-metallic lugs using crimping tool,Insulation tape,Identification tags etc., including end termination and Earthing of Gland with 8SWG 'GI Wire				
	a) 3.5C X 50 Sq.mm	No	4		
	b) 4C X 16 Sq.mm	No	4		
<b>E -18</b>	<b>Earthing</b>				

S.NO	DESCRIPTION	UNIT	QTY	Rate (Rs)	Amount(Rs)
	a) Providing G.I. Earth station, with 40mm dia 2500mm long GI pipe including construction of brick pedestal, providing meshed funnel, CI cover and other civil Engineering works, spreading a homogenous mixture of salt, charcoal around the pipe etc, completely as per IS 3043, 1987 or latest revision.	No	1		
	b) Providing Copper Earth station, with 600X600X3.15mm Copper plate at 2500mm depth including construction of brick pedestal, providing meshed funnel, CI cover and other civil Engineering works, spreading a homogenous mixture of salt, charcoal around the pipe etc, completely as per IS 3043, 1987 or latest revision.	No	1		
	c) Supply and laying of following size strips including including all necessary inter connections with earth station and equipments.				
	i) 8 SWG Copper wire	Rmt	106		
<b>19</b>	<b><u>LAN Cable</u></b>				
<b>a</b>	Supply and Laying of 4Pair CAT-6E LAN Cable with suitable PVC Conduite and Junction boxes with etc.	Pts	46		
<b>b</b>	Supply and fixing of CAT-6E Information out lets Systimax/ Amps/ D Link	Set	46		
<b>c</b>	Supply of Patch Cards 3' (Factory Crimping)	Set	46		
<b>d</b>	Supply of Patch Cards 7' (Factory Crimping)	Set	46		
<b>e</b>	Supply and fixing of 24 port Jack panel (Systimax/ amp)	Set	2		
<b>f</b>	Supply and fixing of 9U Rack encloser with accries like Self Power manager, Cable Manager, Hard Ware etc.	Set	2		
<b>g</b>	Supply and fixing of 24 ports d-link switch	Set	2		
<b>20</b>	<b>Dismantalling of old wiring &amp; Providing Temporary Connections at the time of Renovations Period.</b>	LS	1		
	c) Recess mounted LED strip light in concealed Aluminium profile / channel (15/17mm wide , with push putton, fixed at ceiling .	Rmt.	54		
	Recess mounted LED strip in concealed area, Wipro make.	Rmt.	66		
<b>TOTAL AMOUNT FOR BRANCH ELECTRICAL WORKS Rs :</b>					
	<b>Rupees .</b>				

**SUPPLY, INSTALLATION, TESTING AND COMMISSIONING (SITC) OF HVC AT PROPOSED RENOVATION OF,  
BANK OF BARODA CHANDA NAGAR HYDERABAD.**

**PRICE BID**

Sl. No.	DESCRIPTION	UNIT	QTY	SUPPLY RATE	TOTAL SUPPLY RATE
<b>A</b>	<b>PART - A: HIGH SIDE BOQ</b>				
<b>1</b>	Supply, installation, testing and commissioning of variable refrigerant volume (VRV) / variable refrigerant flow (VRF) type air conditioning system's outdoor unit capacity of 16 HP COP @ 50 percent load, should be greater than 6.9 COP, compressor should have Oli level sensor to have real time based oil recovery operation. equipped with highly efficient hermetic scroll compressor or twin rotary type compressors, equipped with inverter control capable of changing the speed in accordance to the cooling load requirement, heat exchanger, low noise condenser fan, outdoor unit multiple connecting unit, including first charge of R410a refrigerant & oil, etc. The inverter shall be IGBT type to be efficient and quiet operation. The outdoor unit shall have the multi-step of capacity control to meet load fluctuation., complete. Note: The quoted rate for this item deemed to include the cost for necessary hardware, software, gateway, interface, controller etc. with 5 years machine and 10 years compressor warranty. With 5 years machine and 10 years compressor warranty.	Nos.	1		
<b>2</b>	Supply, installation, testing and commissioning of variable refrigerant volume (VRV) / variable refrigerant flow (VRF) type air conditioning system's indoor unit of 4 way Cassette type of capacity not less than 4. TR, 1165 CFM with cordless remote for individual unit, cooling coil, expansion valve, multi speed fan, motor, high lift drain pump, power wiring from nearest power socket to indoor unit etc. The blower shall be dynamically balanced and designed for silent operation, the drain pan shall be fabricated out of heavy sheet steel with insulation, MS brackets / supports, all	Nos.	4		
	as specified and / or directed etc., complete.				-
<b>3</b>	Supply, installation, testing and commissioning of DX type air conditioning system's indoor unit of 4 way Cassette type of capacity not less than 3TR, with cordless remote for individual unit, cooling coil, expansion valve, multi speed fan, motor, high lift drain pump, etc. The blower shall be dynamically balanced and designed for silent operation, the drain pan shall be fabricated out of heavy sheet steel with insulation, MS brackets / supports, all as specified and / or directed etc., complete.	Nos.	1		
	<b>PART:A</b>				
<b>B</b>	<b>PART - B: LOW SIDE WORKS</b>				
<b>4</b>	Supply and installation of Suitable refnut joints to connect the VRF indoor units with outdoor unit.	Nos.	4		
<b>5</b>	Addition gas charging	Lot	1		
<b>6</b>	Supply and laying of Communication / Control cable connecting the Indoor units / Outdoor units / Controller of suitable size as recommended by the OEM. The external communication / control cabling shall be run in MS conduit and inside building control cabling shall be run in PVC conduit including all clamps, screws, fittings, supporting items etc., all as specified and/or directed etc., complete. Note: 1) The cost for MS and PVC conduit shall be measured and paid separately under relevant item of SOQR	Rmt	105		

Contractor Signature



7	Supply, installation, testing and commissioning of size <b>6.4 mmdia</b> refrigerant grade copper piping of 20 gauge including nitrile rubber tubular insulation with factory laminated glass cloth, adhesive tape, including all kinds of valves / joints viz., refnet joint / header, refrigerant joint / header, distribution / branch unit, tees, valves, ball valves, fittings like bends, elbow, collars, tees, reducers, flanges, supports, etc for interconnecting the liquid and suction lines between the outdoor units and the indoor units and flare connection to indoor units. Refrigerant joints supplied by OEM only shall be used. The piping shall be carried out of soft / hard drawn copper pipes brazed socket fittings. Both the suction and liquid lines shall be insulated with closed cell nitrile rubber tubular insulation of thickness as specified in tender including pressure testing and charging of refrigerant and oil. Refrigerant piping and cables in wall crossings shall be provided in suitable steel / PVC sleeve all as specified and/ or directed etc., complete. Note: 1) Only the cable tray supports provided for exposed refrigerant pipes will be measured and paid under the relevant item of SOQR.	Rmt	10		
8	Supply, installation, testing and commissioning of size <b>9.5 mmdia</b> refrigerant grade copper piping of 20 gauge including nitrile rubber tubular insulation with factory laminated glass cloth, adhesive tape, including all kinds of valves / joints viz., refnet joint / header, refrigerant joint / header, distribution / branch unit, tees, valves, ball valves, fittings like bends, elbow, collars, tees, reducers, flanges, supports, etc for interconnecting the liquid and suction lines between the outdoor units and the indoor units and flare connection to indoor units. Refrigerant joints supplied by OEM only shall be used. The piping shall be carried out of soft / hard drawn copper pipes brazed socket fittings. Both the suction and liquid lines shall be insulated with closed cell nitrile rubber tubular insulation of thickness as specified in tender including pressure testing and charging of refrigerant and oil. Refrigerant piping and cables in wall crossings shall be provided in suitable steel / PVC sleeve all as specified and/ or directed etc., complete. Note: 1) Only the cable tray supports provided for exposed refrigerant pipes will be measured and paid under the relevant item of SOQR.	Rmt	40		
9	Supply, installation, testing and commissioning of size <b>12.7 mmdia</b> refrigerant grade copper piping of 20 gauge including nitrile rubber tubular insulation with factory laminated glass cloth, adhesive tape, including all kinds of valves / joints viz., refnet joint / header, refrigerant joint / header, distribution / branch unit, tees, valves, ball valves, fittings like bends, elbow, collars, tees, reducers, flanges, supports, etc for interconnecting the liquid and suction lines between the outdoor units and the indoor units and flare connection to indoor units. Refrigerant joints supplied by OEM only shall be used. The piping shall be carried out of soft / hard drawn copper pipes brazed socket fittings. Both the suction and liquid lines shall be insulated with closed cell nitrile rubber tubular insulation of thickness as specified in tender including pressure testing and charging of refrigerant and oil. Refrigerant piping and cables in wall crossings shall be provided in suitable steel / PVC sleeve all as specified and/ or directed etc., complete. Note: 1) Only the cable tray supports provided for exposed refrigerant pipes will be measured and paid under the relevant item of SOQR.	Rmt	30		

10	Supply, installation, testing and commissioning of size <b>15.9 mmdia</b> refrigerant grade copper piping of 20 gauge including nitrile rubber tubular insulation with factory laminated glass cloth, adhesive tape, including all kinds of valves / joints viz., refnet joint / header, refrigerant joint / header, distribution / branch unit, tees, valves, ball valves, fittings like bends, elbow, collars, tees, reducers, flanges, supports, etc for interconnecting the liquid and suction lines between the outdoor units and the indoor units and flare connection to indoor units. Refrigerant joints supplied by OEM only shall be used. The piping shall be carried out of soft / hard drawn copper pipes brazed socket fittings. Both the suction and liquid lines shall be insulated with closed cell nitrile rubber tubular insulation of thickness as specified in tender including pressure testing and charging of refrigerant and oil. Refrigerant piping and cables in wall crossings shall be provided in suitable steel / PVC sleeve all as specified and/ or directed etc., complete. Note: 1) Only the cable tray supports provided for exposed refrigerant pipes will be measured and paid under the relevant item of SOQR.	Rmt	30.0		
11	Supply, installation, testing and commissioning of size <b>19.1 mmdia</b> refrigerant grade copper piping of 20 gauge including nitrile rubber tubular insulation with factory laminated glass cloth, adhesive tape, including all kinds of valves / joints viz., refnet joint / header, refrigerant joint / header, distribution / branch unit, tees, valves, ball valves, fittings like bends, elbow, collars, tees, reducers, flanges, supports, etc for interconnecting the liquid and suction lines between the outdoor units and the indoor units and flare connection to indoor units. Refrigerant joints supplied by OEM	Rmt	20.0		
	only shall be used. The piping shall be carried out of soft / hard drawn copper pipes brazed socket fittings. Both the suction and liquid lines shall be insulated with closed cell nitrile rubber tubular insulation of thickness as specified in tender including pressure testing and charging of refrigerant and oil. Refrigerant piping and cables in wall crossings shall be provided in suitable steel / PVC sleeve all as specified and/ or directed etc., complete. Note: 1) Only the cable tray supports provided for exposed refrigerant pipes will be measured and paid under the relevant item of SOQR.				
12	Supply, installation, testing and commissioning of size <b>22.2 mmdia</b> refrigerant grade copper piping of 18 gauge including nitrile rubber tubular insulation with factory laminated glass cloth, adhesive tape, including all kinds of valves / joints viz., refnet joint / header, refrigerant joint / header, distribution / branch unit, tees, valves, ball valves, fittings like bends, elbow, collars, tees, reducers, flanges, supports, etc for interconnecting the liquid and suction lines between the outdoor units and the indoor units and flare connection to indoor units. Refrigerant joints supplied by OEM only shall be used. The piping shall be carried out of soft / hard drawn copper pipes brazed socket fittings. Both the suction and liquid lines shall be insulated with closed cell nitrile rubber tubular insulation of thickness as specified in tender including pressure testing and charging of refrigerant and oil. Refrigerant piping and cables in wall crossings shall be provided in suitable steel / PVC sleeve all as specified and/ or directed etc., complete. Note: 1) Only the cable tray supports provided for exposed refrigerant pipes will be measured and paid under the relevant item of SOQR.	Rmt	8.0		

13	Supply, installation, testing and commissioning of size <b>28.6 mmdia</b> refrigerant grade copper piping of 18 gauge including nitrile rubber tubular insulation with factory laminated glass cloth, adhesive tape, including all kinds of valves / joints viz., refnet joint / header, refrigerant joint / header, distribution / branch unit, tees, valves, ball valves, fittings like bends, elbow, collars, tees, reducers, flanges, supports, etc for interconnecting the liquid and suction lines between the outdoor units and the indoor units and flare connection to indoor units. Refrigerant joints supplied by OEM only shall be used. The piping shall be carried out of soft / hard drawn copper pipes brazed socket fittings. Both the suction and liquid lines shall be insulated with closed cell nitrile rubber tubular insulation of thickness as specified in tender including pressure testing and charging of refrigerant and oil. Refrigerant piping and cables in wall crossings shall be provided in suitable steel / PVC sleeve all as specified and/ or directed etc., complete. Note: 1) Only the cable tray supports provided for exposed refrigerant pipes will be measured and paid under the relevant item of SOQR.	Rmt	20		
14	Supply, installation, testing and commissioning of cPVC (SDR11) pipes of <b>25 mmdia</b> , with 9 mm thick elastomeric nitrile rubber tubular insulation with FRP/ Glass cloth rapped over insulation for condensate water drain from the AC indoor units to nearest drain point, fittings, support including core cutting in brick/ concrete wall as required and making surface good etc. complete .	Rmt	40		
15	Supply, installation, testing and commissioning of cPVC (SDR11) pipes of <b>32 mmdia</b> , with 9 mm thick elastomeric nitrile rubber tubular insulation with FRP/ Glass cloth rapped over insulation for condensate water drain from the AC indoor units to nearest drain point, fittings, support including core cutting in brick/ concrete wall as required and making surface good etc. complete .	Rmt	50		
16	Supply, installation, testing and commissioning of initial Charge of refrigerant gas - R 410 A, Pressure testing of the entire system with Nitrogen and vaccumizing the nitrogen	HP	16		
17	<b>Associated Civil Works</b>				
	Chasing the wall openings for Copper piping & Drain openings in rooms etc as per site requirement includes closing.	Lot	1		
18	<b>MS WORK</b>				
	Detail specification, Frame work using 75x75x6mm Angles MS Trips 3mm x 20mm complete fabricated at site for mounting of ODU's, The Couple flame work shall be approved by Architect. Required Supports.	Nos.	1		
PART:B					
<b>Grand Total (PART:A + PART:B)</b>					
<b>Grand Total</b>					

**NOTE:** Above quoted amount shall be excluding GST.  
GST will be paid extra as applicable.

Contractor Signature