STATE BANK OF INDIA -RACC, JALNA AIR CONDITIONING WORKS BILL OF QUANTITIES

MAKE:Hitachi/Carrier/Daikin/ Toshiba/Bluestar /Mitshibushi Make (No Hitachi Logicool Series , NoCarrier Midea Series)

	PART A						
SR.	DESCRIPTION Supply of 2 TR INVERTER CASSETTE AC (1)	QTY	UNIT Nos.	RATE	AMOUNT		
	phase) units comprising of indoor unit, outdoor unit, first fill of refrigerant gas, thermostatic control, safety cut outs, cord less remote for unit operation, isolating valves, thermostatic control, safety cutouts, (condensor mounting stand excluded) and vibration isolation pads. The unit should have following specification. i) Condensing unit should be equiped with copper tubing /Anodised with 5 yrs gurantee ii) Compressor Type- Hermetic Rotary DC invertor iv) Refrigerant - R290 or R410A or ECHO FRIENDLY GREEN GAS						
0	Supplyof following rated High wall mountedSplit air conditioning units with BEE rated 5 star inverter technology with full function wireless remote and auto restart feature, with indoor/outdoor unit, Copper condenser coils and first fill of refrigerant gas, thermostatic control, safety cut outs, cordless remote for unit operation, isolating valves, (condensor mounting stand excluded) and vibration isolation pads. i)5 STAR RATING ii)Condensing unit should be equiped with copper tubing iii) Compressor Type- Hermetic Rotary DC invertor iv)Refrigerant - R290 or R410Aor ECHO FRIENDLY GREEN GAS						
а	1.0 TR HIGH WALL 5 STAR RATING	1	Nos.				
)	1.5 TR HIGH WALL 5 STAR RATING	3	Nos.				
3	TIMER						

	Providing & fixing timer switch for switching power alternatively between two ACs, Timer will be Analogue dial type adjustable TIMER switch which is adjustable over 24 hrs with 4-6-8 hours intervals & is to have 1 NO+1NC (20A) contact. Timer will have its own backup battery & will be enclosed in 16 gauge MS box with acrylic lid together with suitable connector block. (ABB/ MDS / L&T)		no.		
4	Supply of following rated, wall mounted hi lo cut off stabiliser with TDR, voltage range 140-280V, complete in all respects. Stabilizer: Servel/ V Gaurd/ Marc/Sen & Pandit/ Stambh/ Inmag/Microtek Input Voltage range: 160V-280V and Output : 230 V.				
 -	3.0 KVA	1	Nos.		
ii	4.0 KVA	3	Nos.		
iii	5.0 KVA	6	Nos.		
-	0.0 10070		1403.		
	TOTAL PART A				
	PART B-LOW SIDE WORKS (I	NSTALL	ATION OI	HVAC SY	STEM)
1	Installation &commissionig of AC units				
	i) 2 TR casset type unit	6	nos.		
	ii)1.5TR Hi wall high wall mounted unit	3	no.		
	ii)1.0TR Hi wall high wall mounted unit	1	nos.		
2	Installation &commissionig of Stabliser units	6	nos		
3	Fixing Stabilisers stand for 9 nos AC as mentioned above either step wise or seprate	1	Job		
4	Installation of24 hrs user selectable timer with all accessories and wiring	0	no.		
5	ELECTRICAL CABLING				

	Droviding and loving nower 9 central achling		1	<u> </u>	<u> </u>
	Providing and laying power & control cabling				
	required from indoor unit to outdoor unit.				
	(Power supply will be made available near the				
	outdoor unit only) . makes				
	: Polycab,Finolex, Flameguard,Polyplast				
	") D		_		
	i). Power & control cabling for 2TR (1 Phase)	98	mtrs		
	i). Power & control cabling for 1/1.5 TR High	15	mtrs		
	Wall AC				
6	Copper Refrigerant Piping				
	Supply & installation fo additional hilton				
	insulated hard/soft copper refrigerant piping				
	complete with fittings, elbows, bends,				
	supporting arrangement on walls, cable trays.				
	(separate for each unit) Hot side + cold side				
	piping will be measured as one length existing				
	copper, drain piping and cabling shall be used				
	int he new system.				
	int he new system.				
	i) 2 TR casset type unit	98	mtrs		
	ii)1/1.5 TR Hi wall high wall mounted unit	15	mtrs		
		13	IIIIIS		
7	Drain water piping				
	Drain water piping work out of PVC/HDPE				
	hard pipes covered with hitlon insulations,				
	compelte with fittings, bends, elbows, tees				
	flanges, tappings, wall sleeves, hangers,				
	supports, anchors				
	i) 25 mm/32mm. Dia 2 mm thick	80	mtrs		
8	Frame work				
	Supply, fabrication & installatioonf MS base				
	frame for outdoor units complete with epoxy				
	painting, vibrantion isolating pads, supports,				
	hangers, railing, branckets etc. suitable for the				
	above AC units. Note: Apply 2 coats of				
	epoxy primer & 2 coats of anticorrosive paint.				
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		Ī	I		
	i) 2 TR casset type unit	6	nos.		
	i) 2 TR casset type unit ii)1 /1.5TR Hi wall high wall mounted unit	6 3	nos.		

	Note: The rates quoted above shall include the cost of indoor units, mounting brackets, first charge of gas. Materials like fittings, clamps, supports, U trap in drain piping with necessary slope etc., minor civil work like opening in the walls for piping and cables and finishing the same. pipes & cables between through wall shall be taken through sleeves and plugged to avoid leakages, condenser mounting with all accessories vibration mounting pads etc., piping and cabling connections at indoor. Note-In case of High wall split type AC (1/1.5 TR) unit, the 5.0 RMT of Electrical cabling, Copper Refrigerant Piping and Drain water piping shall not be considered in the measurement.			
8	Removing, Servicing, re-installation and	0	nos.	
	Commissioning of existing split AC units of 1TR/1.5 TR/ 2TR from the existing branch			
	premises to new premises including gas			
	charging if required . Rates are inclusive of			
	New Copper pipe, Drainage Pipe & cables pipe			
	dismantled from branch.			
	TOTAL OF PART B			
	PART C-COMPREHENSIVE ANNUAL MAINTANANCE CONTRACT above			
	mentioned units of ACs and stabliser AFTER COMPREHENSIVE PRODUCT			
	WARRANTY OF ONE YEAR			
	FIRST YEAR	11.5	TR	
	SECOND YEAR	11.5	TR	
	THIRD YEAR	11.5	TR	
	FOURTH YEAR	11.5	TR	
	FIFTH YEAR	11.5	TR	
	TOTAL OF PART C			
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Α	PART 'A' TOTAL			

В	PART 'B' TOTAL		
С	PART 'C' TOTAL		
D	NET TOTAL A+B+C		
Е	Total Project Cost " D "		
	Note:- GST will be paid additionally as		
	applicable on work contract		

NOTE:

 $\label{lem:make} MAKE: Hitachi/Carrier/Daikin/Toshiba/Bluestar/Mitshibushi Make (No Hitachi Logicool Series, No Carrier Midea Series)$

CONTRACTOR'S SIGNATURE & SEAL