STATE BANK OF INDIA -RAJURI VES BRANCH BEED AIR CONDITIONING WORKS BILL OF QUANTITIES

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

	Series, NoCarrier Midea Series)								
		PART A							
SR.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT				
1	Supply of 2 TR Casset type (1 phase) air conditioning 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 shoud have following specification. i)Condensing unit should be equiped with copper tubing ii) Compressor Type- Hermetic Rotary DC invertor iv)Refrigerant - R290 or R410A	17	Nos.						
2	Supplyof following rated High wall mounted type air conditioning units comprising of indoor unit, outdoor unit, 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 R410A								
а	1.0 TR HIGH WALL 5 STAR RATING	2	Nos.						
b	1.5 TR HIGH WALL 5 STAR RATING	4	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)	1	no.	
4	Providing and fixing Stabilisers for AC with 3 step relay and TDR with Input Voltage range: 160V-280V and Output : 230 V.			
i	3.0 KVA	2	Nos.	
ii	4.0 KVA	4	Nos.	
iii	5.0 KVA	17	Nos.	
	SUB TOTALPART A			
	add			
	TOTAL PART A			
	PART B-LOW SIDE WORKS			SYSTEM)
1	Installation &commissionig of AC units			
	i) 2 TR casset type unit	17	nos.	
	ii)1.5TR Hi wall high wall mounted unit	4	no.	
	ii)1.0TR Hi wall high wall mounted unit	2	nos.	
2	Installation &commissionig of Stabliser units	23	nos	
3	Providing and fixing Stabilisers stand for 10 nos AC as mentioned above either step wise or seprate	23	nos	
4	Installation of24 hrs user selectable timer with all accessories and wiring	1	no.	
5	ELECTRICAL CABLING			

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	Providing and laying power & control			
	cabling required from indoor unit to			
	outdoor unit. Power supply will be			
	made available near the indoor unit			
	only. makes : Polycab,Finolex,			
	Flameguard,Polyplast			
	i). Power & control cabling for 2TR (1	225	mtrs	
	Phase)			
	i). Power & control cabling for 1/1.5 TR	25	mtrs	
	High 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.			
$\left -\right $		22F	mtra	
	i) 2 TR casset type unit	225	mtrs	
	ii)1/1.5 TR Hi wall high wall mounted	25	mtrs	
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 nom. Dia 2 mm thick	250	mtrs	
	European and a			
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			
1	primer & 2 coats of anticorrosive paint.			
	i) 2 TR casset type unit ii)1 /1.5TR Hi wall high wall mounted	17	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.			
Removing &shifting and reinstallation of old high wall 1.0/1.5 TR AC unit from old/existing branch premises.Rates are inclusive of reinsallation of the same indoor &outdoor unit at diffrent location with frame and refilling of gas,necessary related hardwares including all accessories.New copper tubing &power cabling will be paid extra as per tender rates.	8	nos.	
SUBTOTAL PART B			
ADD GST @18%			
TOTAL OF PART B			

PART C-COMPREHENSIVE ANNUAL MAINTANANCE CONTRACT AFTER COMPREHENSIVE PRODUCT WARRANTY OF ONE YEAR FOR i).1/1.5 TR High Wall Split AC - 5nos ii).2TR Cassets AC-8nos iii) Votlage Stabilisers 3/4/5KVA-6nos			
, 3			
FIRST YEAR	1	JOB	
SECOND YEAR	1	JOB	
THIRD YEAR	1	JOB	
FOURTH YEAR	1	JOB	
FIFTH YEAR	1	JOB	
SUBTOTAL PART C			
ADD GST18%			
TOTAL OF PART C			
PART 'A' TOTAL			
PART 'B' TOTAL			
PART 'C' TOTAL			
 NET TOTAL A+B+C			

NOTE:

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

1.Supplied AC's shall have Copper Evaporator & Condenser coils.

2.Evaporator & Condenser coils fins should have formal portative coating (blue coating)

3. The entire job shall be executed in total co-ordination with the other agencies working on this project more particularly with the false ceiling and electrical work. IF THECONTRACTOR HAS NOT CARRIED OUT AIR CONDITIONING WORK AS PER STANDARD SPECIFICATION THEN CONTRACTOR IS LIABLE TO REMOVE AND REWORK AS PER STANDARD SPECIFICATION AND WHATEVER THE DAMAGE IN CONNECTION WITH CIVIL/ FURNITURE/ ELECTRICAL WORK WILL BE BEAR BY CONTRACTOR. IF CONTRACTOR WILL NOT DONE REWORK THEN WHATEVER BEEN THE COST FOR REWORK WILL BE DEDUCTED FROM CONTRACTOR'S BILL.

4.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.

CONTRACTOR'S SIGNATURE & SEAL