STATE BANK OF INDIA -ADB BRANCH DONGARKADA (05928) AIR CONDITIONING WORKS BILL OF QUANTITIES

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

	<u> </u>						
	PART A						
<u>SR.</u> I	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						
2	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	2	Nos.				
)	1.5 TR HIGH WALL 5 STAR RATING	1	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 5 KVA, 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.				
i	3.0 KVA	2	Nos.		
ii	4.0 KVA	1	Nos.		
liii	5.0 KVA	4	Nos.		
	TOTAL PART A				
	ADD GST@28%				
	TOTAL PART A				
	PART B-LOW SIDE WORKS (I		ATION OF	HVAC SY	STEM)
	,				,
1	Installation &commissionig of AC units				
	i) 2 TR casset type unit	4	nos.		
	ii)1.5TR Hi wall high wall mounted unit	1	no.		
	ii)1.0TR Hi wall high wall mounted unit	2	nos.		
2	Installation &commissionig of Stabliser units	7	nos		
3	Fixing Stabilisers stand for 9 nos AC as mentioned above either step wise or seprate	7	nos		
4	Installation of 24 hrs user selectable timer with all accessories and wiring	1	no.		
5	ELECTRICAL CABLING				

6	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 i). Power & control cabling for 2TR (1 Phase) i). Power & control cabling for 1/1.5 TR High Wall AC 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.	65	mtrs		
	i) 2 TR casset type unit	65	mtrs		
	ii)1/1.5 TR Hi wall high wall mounted unit	20	mtrs		
	Drain water piping				
1	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	i) 25 mm/32mm. Dia 2 mm thick	75	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.				
	i) 2 TR casset type unit	4	nos.		
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	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	2	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			
	ADD GST @18%			
	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			
	ADD GST @18%			
	TOTAL OF PART C			

Α	PART 'A' TOTAL		
В	PART 'B' TOTAL		
С	PART 'C' TOTAL		
D	NET TOTAL A+B+C		
Е	Total Project Cost " D "		

NOTE:

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CONTRACTOR'S SIGNATURE & SEAL