

## TENDER &amp; SPECIFICATIONS FOR AIR-CONDITIONING WORKS AT NAGDA BRANCH &amp; E- LOBBY (UJJAIN -REGION)

TENDER & SPECIFICATIONS FOR AIR-CONDITIONING WORKS AT NAGDA BRANCH & E- LOBBY (UJJAIN -REGION)					
S. No.	Description	Unit	QTY	RATE	Amount
	<b>AIR CONDITIONERS</b>				
<b>1</b>	Supplying, erection, testing and commissioning following Inverter type Split Air conditioners ( <b>Toshiba/ Mitsubhishi/ Hitachi/ Daikin/ O-General/ Carrier</b> ) with cordless remote complete with all necessary fittings duly insulated with 9 mm thick nitrile rubber pipe insulation with ( <b>All coils – copper only</b> ), fan and fan motor, machine control panel improved Refrigerant Joints, .Air conditioners shall be fitted with hermetically sealed type suction cooled reciprocating or discharge cooled rotary compressor or scroll compressor. Compressor unit operating on R32/ R-410. All complete as per drawing, approval and instructions of the Architect/ SBI (Rates to be inclusive of Copper refrigerant pipe with insulation up to 3 Mtr length and heavy guage PVC drain pipe upto 1 metre). <b>Item to include powder coated outdoor stands as per the manufacturer specifications.</b>				
<b>a</b>	1.0 TR wall mounted split unit (Minimum 5-Star rating inverter type) including all necessary fittings and mountings as specified by the manufacture	Nos.	3.00		
<b>b</b>	1.5 TR wall mounted split unit (Minimum 5-Star rating inverter type) including all necessary fittings and mountings as specified by the manufacturer.	Nos.	1.00		
<b>c</b>	2.0 TR wall mounted split unit (Minimum 5-Star rating inverter type) including all necessary fittings and mountings as specified by the manufacturer.	Nos.	1.00		
<b>d</b>	Supply, installation, testing and commissioning of Higher Efficient models of CASSETTE TYPE AIR CONDITIONERS(Three) <b>3.0 Ton</b> Machines confirming to latest Indian Standards and suitable for operation on 415 Volts + 10 %, three Phase, 50 Hz AC supply with Scroll compressor, Refrigerant and capable to perform cooling, dehumidifying, Air Circulating, auto mode, auto swing, anti bacteria filtering, ventilation and with remote control with Cool/Fan/Dry/Auto mode, sleep mode & on/off timer with suitable thermostat. The rate should include installation charges after making appropriate changes in existing false ceiling. Heavy ready made/fabricated M S Stand to house the out door unit as per site conditions including carpentry work, minor civil work and material including copper piping of hard & prime quality of min. 22 G upto 5 metres with class "o" Nitrile insulation 12mm , cabling from indoor to outdoor unit, heavy gauge PVC drain piping with insulation as per site requirement. The copper piping, drains piping and electrical cabling should be fixed with clamps and no loose piping/cabling is allowed. The rates inclusive of all repairs of civil and carpentry work The out door unit should be anti-rust powder coated. The cost includes original fill and additional top up of refrigerant gas as per site condition. The rate inclusive of all chisel work, plastering, finishing, painting & all civil related work pertaing to mentioned work.	Nos.	2.00		

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S. No.	Description	Unit	QTY	RATE	Amount
e	Supply, installation, testing and commissioning of Higher Efficient models of CASSETTE TYPE AIR CONDITIONERS(Three) <b>4.0 Ton</b> Machines confirming to latest Indian Standards and suitable for operation on 415 Volts + 10 %, three Phase, 50 Hz AC supply with Scroll compressor, Refrigerant and capable to perform cooling, dehumidifying, Air Circulating, auto mode, auto swing, anti bacteria filtering, ventilation and with remote control with Cool/Fan/Dry/Auto mode, sleep mode & on/off timer with suitable thermostat. The rate should include installation charges after making appropriate changes in existing false ceiling. Heavy ready made/fabricated M S Stand to house the out door unit as per site conditions including carpentry work, minor civil work and material including copper piping of hard & prime quality of min. 22 G upto 5 metres with class "o" Nitrile insulation 12mm , cabling from indoor to outdoor unit, heavy gauge PVC drain piping with insulation as per site requirement. The copper piping, drains piping and electrical cabling should be fixed with clamps and no loose piping/cabling is allowed. The rates inclusive of all repairs of civil and carpentry work The out door unit should be anti-rust powder coated. The cost includes original fill and additional top up of refrigerant gas as per site condition. The rate inclusive of all chisel work, plastering, finishing, painting & all civil related work pertaining to mentioned work.	Nos.	1.00		
<b>2</b>	<b>EXTRA REFRIGERANT PIPING</b>				
a	S.I.T.C. of 19 mm dia & 16 mm dia Copper Refrigerant Pipes with Foam insulation between Indoor & Outdoor units.with breaking of wall wherever required for 3/4Tr Cassette/ Inverter Air conditioners.	Mtr.	50		
b	S.I.T.C. of 12.5 sq.mm. & 6.25 Sq.mm. dia. Copper refrigerant pipe with foam Insulation between Indoor & Outdoor units with breaking of wall for making hole wherever required For Split Air-Conditioners.	Mtr.	40		
<b>3</b>	<b>DRAIN PIPING</b>				
	Providing and fixing drain piping up to drain as directed by the engineer incharge with all accessories e.g. elbows, unions, sockets, reducers, reducing tees, nipples etc. Complete job including cutting chiseling in walls, floor and making good of all chases/ cuts etc. and discharging the drain into a floor trap/ gully as per site conditions with insulation, both as specified by the manufacturer				
a	25 mm dia PVC drain pipe for Split AC	Mtr.	35.00		
b	32 mm dia PVC drain pipe for Cassette AC	Mtr.	60.00		
<b>4</b>	Providing and fixing Stabilizer with 3 step relay and input voltage range of 140-280 V and output to be 230 V (Blue bird/ Logic state/ Inline/ V-gourd) (copper winding).				
a	3 KVA (For 1.0 TR Split AC)	Nos.	3.00		
b	4 KVA (For 1.5 TR Split AC)	Nos.	1.00		
c	5 KVA (For 2 TR Split AC)	Nos.	1.00		
<b>5</b>	Control Cable For AC - Supply & laying, testing & commissioning of following sizes of copper conductor control cables on existing tray including fixing clamps & proper connections to equipment etc complete as required.				
	4 Cx 1.5 Sqmm	Mtr.	40.00		
	4Cx2.5 sqmm	Mtr.	65.00		
<b>TOTAL FOR AIR-CONDITIONING WORK</b>					