

BIMAL TALATI Architects & Interior Designers

304, President House, Opp. C.N.Vidhyalaya, Ambawadi, Ahmedabad - 380 006.

Bill of Quantities for : Proposed Supply & Installation of Casatte Type Air Conditioning Unit work for Chhani Branch, Vadodara for UCO Bank, Surat Zone

NO.	DESCRIPTION	QTY	UNITS	RATE	AMOUNT
A	SUPPLY / TESTING / INSTALLATION / COMMISSIONING OF Casatte AIR CONDITIONERS				
1	<p>CEILING SUSPENDED CASATTE TYPE SPLIT UNIT SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF MICROPROCESSOR BASED AIR COOLED CASSTTE TYPE AIR CONDITIONING UNITS AS SPECIFIED; EACH UNIT SHALL COMPRISE OF SEPARATE INDOOR AND OUTDOOR UNIT SPECIFIED AND AS UNDER: INDOOR (FAN COIL) UNIT SHALL BE CEILING SUSPENDED TYPE COMPRISING OF FAN,FOUR WAY AIR DISCHARGE AND 2 ROW DEEP DX COIL WITH FINNED COPPER TUBES, CENTRIFUGAL FAN UNIT WITH MOTOR; UNIT SHALL HAVE PROPER INSULATED AND LEAK PROOF CONDENSATE BASE CONNECTED TO DRAIN PIPING WITH SUITABLE TEMPERATURE CONTROLLER, FAULT INDICATOR, FAN MOTOR SPEED SELECTION , REAL TIME CLOCK , DRIECT DRIVE FAN MOTOR AND FORWARD CURVE FAN, DRAIN PUMP AND WITH MAGNATIC TYPE WATER LEVEL CONTROLLER THE OUTDOOR (CONDENSING UNIT) SHALL BE OF CORROSION RESISTANT GALVANIZED POWDER COATED OR EQUIVALENT SHEET STEEL LOW VIBRATION ASSEMBLY INSTALLED ON SUITABLE VIBRATION ISOLATORS & COMPRISING OF ENERGY EFFICIENT SCROLL / ROTARY COMPRESSOR WITH CONTROLS SUCH AS OVERLOAD PROTRACTOR, SUCTION & LIQUID VALVE & FACTORY CHARGE REFRIGENERT (R22) THE ABOVE SPECIFIED UNITS SHALL BE SUPPLIED AS PER FOLLOWING SCHEDULE INSTALLED AT LOCATIONS AS MENTIONED IN THE LAYOUT THE UNIT WILL COMPARISING OF SUITABLE ELECTRCIAL PANAL</p>				
a	2.0 TR NOMINAL CAPACITY [SINGLE CIRCUIT] 3 STAR RATING (HITACHI/BLUE STAR/CARRIER/DAIKEN/VOLTAS MAKE)	2	NOS.		
a	3.0 TR NOMINAL CAPACITY [SINGLE CIRCUIT] 3 STAR RATING (HITACHI/BLUE STAR/CARRIER/DAIKEN/VOLTAS MAKE)	0	NOS.		
TOTAL OF PART " A "				Rs.	

B Low Side work For CASSTTE unit			
01	INSTALLATION OF CASSATE TYPE SPLIT UNIT WITH SCROLL / ROTARY / RECIPROCATING COMPRESSOR INCLUDING MACHINE ERECTION, GAS CHARGING, INST. & COMM. WITH COPPER PIPING, ELE'L WIRING & HARD PVC DRAIN LINE UP TO 3.0.MTR.		
i	2.0 TR	2	NOS.
ii	3.0 TR	0	NOS.
02	P & F OF INSULATED HARD CPVC DRAIN LINES FOR VARIOUS UNIT IN TOTAL CLAMPING MANNER ABOVE FALSE CEILING & IN TOTAL CONCEALED MANNER BELOW FALSE CEILING LEVEL. THE DISTANCE BETWEEN TWO CLAMP WILL BE LESS THAN 1 METER. FROM THE CEILING IT SHOULD HANGE WITH CLAMP AND SELF THREADED RODS	50	R.MTR.
03	REFRIGERANT COPPER PIPING TO BE INSULATED WITH 13 MM ELASTOMERIC NITRITE RUBBER INSULATION. ALUMINUM FOIL MEMBRANE SHALL BE APPLIED TO PROVIDE RESISTANCE AGAINST BREAKDOWN DUE TO UV RADIATION FOR EXPOSED PORTION OF THE RUBBER INSULATION.		
a	P & F REFRIGERANT COPPER PIPE - FOR 2.0 CASSATTE UNIT (BEYOND 4.0 MTR. / UNIT FOR NEW MACHINES)	42	R.MTR.
b	P & F REFRIGERANT COPPER PIPE - FOR 3.0 TR CASSATTE UNIT (PER UNIT FOR MACHINES)	0	R.MTR.
04	SITC OF ELECTRICAL CABLING / CONTROL WIRING (APPROPRIATE FOR EACH MACHINE) FROM INDOOR TO OUT DOOR & INDOOR TO MCB (PLACED ADJOINING TO THE MACHINE INCASE OF SPLIT AC UNITS) FOR HIGH WALL CASSATTE / SPLIT.		R.MTR.
i	2.0 TR	50	R.MTR.
ii	3.0 TR	0	R.MTR.
05	P & F OF CONDENSING UNIT WITH SAFE LOCKING TYPE CAGING, <u>PLATFORM</u> FIXED TO THE OUT SIDE WALL, MADE OUT OF M.S CHANNELS, ANGLES, FLATS ETC. DULY PAINTED WITH ANTI CORROSIVE PAINT. THE RATE ALSO INCLUDES FOR LADDER AND SCAFFOLDING, INSTALLATION, RETOUCHING THE SURFACES WITH RICH PLAIN CEMENT CONCRETE ETC. COMP. THE ENTIRE ITEM HAS TO BE EXECUTED AS / REQ. OF THE MACHINE & SITE CONDITION.		

a	FOR 2.0TR/3.0 TR CASSTTE OUT DOOR UNIT PLATFORM	2	NO
6	ALL SORT OF CIVIL WORK REQUIRED TO BE EXECUTED IN ORDER TO MAKE THE A.C. SYSTEM INSTALLED & PUT IN WORKING CONDITION. THE ITEM INCLUDES, MAKING HALLS / GAPS IN WALLS, MAKING ZARIES REQUIRED FOR VARIOUS TYPES OF DRAIN, REFEREGERENT & DRAIN WATER PIPES / LINES IN WALLS, FLOOR ETC. USING CUTTER MACHINE, REFINISHING ON BOTH THE SIDE WITH RICH CEMENT MORTAR TO MATCH THE SURROUNDING SURFACES TO PUT THE ENTIRE WORK IN ORDER.	1	JOB
TOTAL OF PART " B "			Rs.
TOTAL OF PART " A "			
TOTAL OF PART " B "			
TOTAL OF PART " A " + PART " B "+			Rs.

Rupees

Name of Contractor with Seal & Signature

Date :

Place :

	SUMMARY				
A	TOTAL AMOUNT FOR CASSETTEE A.C. UNIT			Rs.	
B	TOTAL AMOUNT FOR SPLIT A.C. UNIT			Rs.	
	GRAND TOTAL FOR CASSETTE & SPLIT A.C. WORK			Rs.	
	ADD FOR GST @ ____ % ON RS. A.C. MACHINE			Rs.	
	ADD FOR GST @ ____ % ON RS. LOW SIDE WORK			Rs.	
	FINAL TOTAL OF CASSETTE & SPLIT AIR CONDITIONING WORK			Rs.	

Rupees

Name of Contractor with Seal & Signature

Date :

Place :

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**Bill of Quantities for : Proposed Supply & Installation of Split type Air Conditioning unit
work for Chhani Branch & ATM, Vadodara for Uco Bank, Surat Zone**

Sr. No	Description	Qty.	Rate	Unit	Amount
1	1.50 ton SPLIT TYPE A.C. UNIT				
	Supplying & providing 1.50 TR split A. C. with high wall mounted unit 3 STAR RATING with copper condenser & current year model & inverter type for Manager cabin & Banking Hall etc. completed as per direction. (HITACHI/DAIKEN/CARRIER/BLUE STAR/VOLTAS MAKE)	1		NO	
2	1.00 ton SPLIT TYPE A.C. UNIT				
	Supplying & providing 1.00 TR split A. C. with high wall mounted unit 3 STAR RATING with copper condenser & current year model & inverter type for Manager cabin & Banking Hall etc. completed as per direction. (HITACHI/DAIKEN/CARRIER/BLUE STAR/VOLTAS MAKE)	3		NO	
3	Installation charges for above 2.00 TR & 1.50 TR split A.C. including 3.0 RMT copper tubing per unit with proper insulation tape etc. complete as directed.	4		NO	
4	Supplying & fixing Copper tubing with proper insulation & electrical cable for outdoor unit for additional length after 3.0 RMT of standard length. (For additional length above 3.00 RMT). This item also includes making zari in wall/floor and filling the same with cement mortar and POP as per direction of Architect/ Bank.	30		RMT	
5	Supplying & fixing 15/20mm dia. U-PVC drain pipe concealed in wall, floor with necessary insulation etc.. This item also includes making zari in wall/floor and filling the same with cement mortar and POP as per direction of Architect/Bank.	30		RMT	
6	Providing & fixing powder coated L-shape stand for keeping out door unit of Split A. C. etc. complete.	3		NO	
7	Fabricating & fixing M. S. platform/stand made from Angle, Patti etc. as per design for keeping outdoor unit of split A. C. unit including cage for locking arrangement etc. complete as directed	4		NO	
8	Filling the Gap/hole of wall for A. C. copper & drain piping by cement, brick etc. with line & level etc. complete as per direction.	4		NO	
TOTAL OF AIR CONDITIONING WORK				Rs.	
ADD FOR GST @ ____ % ON RS. A.C. MACHIN		(+)	Rs.		
ADD FOR GST @ ____ % ON RS. LOW SIDE W		(+)	Rs.		
FINAL TOTAL OF AIR CONDITIONING WORK				Rs.	

Rupees

Name of Contractor with Seal & Signature

Date :

Note : 1. Above rates includes all transportation charges etc..

2. Make : Hitachi, Daiken, Blue Star, Carrier

3. THE VENDOR SHOULD MENTION THE MAKE OF A. C. UNIT CLEARLY. THE A. C. UNIT WILL HAVE 3 STAR RATING INVERTER TYPE

The vendor will give warranty for one year (1) for the entire A. C. unit and further four (4) years warranty for the compressors of the A. C. units.