

BILL OF QUANTITIES FOR AIR-CONDITIONING WORKS OF SBI KOTGARH BRANCH NEW PREMISES, PHULBANI REGION.

SI No	DESCRIPTION	QTY	UNIT	RATE (in Rs)	AMOUNT (in Rs)
<u>AIR CONDITIONING WORKS</u>					
01)	Supply and installation of 4 way 4.0TR Cassette Type Air conditioner with scroll / Rotary / Twin rotary, having R32 /R37/ R410A (Eco Friendly) refrigerant including indoor unit outdoor unit, decorative grille and cordless remote and machine shall have copper condenser unit (Daikin/ Bluestar/ Carrier/ Mitsubishi/ O General/ Toshiba/ Trane & Hitachi)	3	No.s		
02)	Supply and installation of air cooled 1.5 TR HIGH WALL MOUNTED (BEE 3 STAR RATED) Type air conditioning units as specified; each unit shall comprise of separate Indoor and outdoor unit specified and as under: <u>Indoor (fan coil) unit</u> shall be Wall Mounted type and shall have proper insulated & leak proof condensate base connected. <u>The outdoor (condensing unit)</u> shall be of Corrosion resistant Galvanized powder coated or equivalent Sheet steel low vibration assembly installed on suitable vibration isolators and comprising of energy efficient Rotary compressor with copper condenser coils only. <u>The rate shall include 3.0 mtr. of refrigerant pipe & electrical cabling for each machine.</u> The above specified units shall be supplied & installed at locations as mentioned in the layout All machines shall be white in color. MACHINES SHALL HAVE LATEST STAR BAND VALIDITY (Daikin/ Bluestar/ Carrier/ Mitsubishi/ O General/ Toshiba/ Trane & Hitachi)	2	No.s		
03)	Supply and installation of air cooled 1.0 TR HIGH WALL MOUNTED (BEE 3 STAR RATED) Type air conditioning units as specified; each unit shall comprise of separate Indoor and outdoor unit specified and as under: <u>Indoor (fan coil) unit</u> shall be Wall Mounted type and shall have proper insulated & leak proof condensate base connected. <u>The outdoor (condensing unit)</u> shall be of Corrosion resistant Galvanized powder coated or equivalent Sheet steel low vibration assembly installed on suitable vibration isolators and comprising of energy efficient Rotary compressor with copper condenser coils only. <u>The rate shall include 3.0 mtr. of refrigerant pipe & electrical cabling for each machine.</u> The above specified units shall be supplied & installed at locations as mentioned in the layout All machines shall be white in color. MACHINES SHALL HAVE LATEST STAR BAND VALIDITY	3	No.s		
04)	Supply and installing timer unit for system room	1	No.s		

05)	Providing & Fixing of M.S. Stand for cassette outdoor Condensing unit. It shall be made out of heavy gauge M.S channels, angles, flats etc. of appropriate size & thicknesses duly painted with anti-corrosive paint. The entire item has to be executed as / req. of the machine & site conditions.	3	No.s		
06)	Supply and laying pvc insulated copper connecting cable for indoor and outdoor unit(for Cassette ACs)	50	Mts		
07)	Providing & Fixing of insulated PVC drain lines with Nitrile rubber insulation for various units in clamping manner above false ceiling & in concealed manner below false ceiling level. From the structural ceiling it should hanged using self threaded rods or shall be fixed on wall /beam etc. with clamps & the distance between 2 clamps shall be less than 1 meter. It shall not be placed over the false ceiling nor it shall be fixed with false ceiling members. It shall be laid required gradient for easy disposal of the drain water & testing shall be done before filling the zaries. The drain line shall not be laid in the floor (except toilets & other utility areas where there are no electrical lines in the floor). All drain pipes of split / Cassatte air-conditioners should be PVC of suitable size as recommended by manufacturing company and it	60	Mts		
08)	Providing & Fixing Refrigerant copper piping for <u>Hi-wall AC</u> and <u>Cassette AC</u> laid between indoor & outdoor unit as per OEM's specifications (<u>Beyond 3.0 R.Mtr. for each Machine (applicable for split AC only)</u>) duly insulated with Class "O" fire retardant sleeve type elastomeric nitrile rubber insulation. The item also includes copper electrical flexible cable of appropriate size. Alu. foil membrane shall be applied to provide resistance against breakdown due to UV radiation for exposed portion of the rubber insulation with Nitrogen testing (totally sealed - in case of proposed machine). It shall be in total clamping manner above false ceiling & in total concealed manner below false ceiling level. From the structural ceiling it should hanged or shall be fixed on wall / beam etc. with clamps & the distance between two clamp shall be less than 1 meter. It shall not be placed over the false ceiling nor it shall be fixed with false ceiling members. The diameter / gauge of the ref. pipe shall be as per the specifications of the Manufacturing company (OEM) only for each type of machine. The	25	Mts		
09)	Supply & installation of 5kVA voltage stabilizer of stabilizing range 130V-270V.	2	No.s		
10)	Supply & installation of 4kVA voltage stabilizer of stabilizing range 130V-270V.	3	No.s		
11)	Providing & Fixing of M.S. Stand for Split AC outdoor Condensing unit. It shall be made out of heavy gauge M.S channels, angles, flats etc. of appropriate size & thicknesses duly painted with anti-corrosive paint. The entire item has to be executed as / req. of the machine & site conditions.	5	No.s		
				TOTAL	