

PROJECT- SBI BRANCH SIB GHATKOPAR MUMBAI

BILL OF QUANTITIES

PART A :- HI-SIDE

SR. NO.	DESCRIPTION	UNIT	QTY.
	VRF SYSTEM- SUPPLY VOLTAS		
	MAKES :Blue Star/Hitachi/Daikin/Mitsubisi electric/Mitsubisi Heavy/Carrier (Toshiba)		
1.0	OUTDOOR UNITS		
1.1	12 HP	Nos.	2
2.0	INDOOR UNITS		
2.1	Ceiling suspended cassette Unit with cordless remote controller.(4-Way Cassette Unit)		
2.1.1	1.0 TR CASSETTE UNIT	Nos.	1
2.1.2	2.6 TR CASSETTE UNIT	Nos.	5
2.1.3	4.0 TR CASSETTE UNIT	Nos.	2
3.0	SUPPLYING OF following CASSETTE / SPLIT (single/three phase) AIR CONDITIONERS- AIR-COOLED TYPE having ODU & Single circuits with Scroll Compressors including indoor unit with fan, fan-motor, Copper cooling coil, expansion Device, condensing unit, compressors, cond. coils, cond. Fans, safety cutouts, inbuilt control panel complete with contactors, relays, internal cabling, thermostat to control temperature & machine, having single Indoor unit & single Outdoor unit with display facility & remote control		
3.1	1.0-TR High Wall Split Unit GE rating of three STAR and above	Nos.	2
4.0	Supply & Installation of Refrigerant piping Joints for above mentined Indoor Units.	Nos.	7
	COST FOR HIGH SIDE (Rs.)		

PART B :- LOW-SIDE

SR. NO.	DESCRIPTION	UNIT	QTY.
	VRF SYSTEM-INSTALLATION, TESTING & COMMISSIONING WITH LIFTING, SHIFTING, SAFETY FASTNER & LABOUR CHARGE		
1.0	OUTDOOR UNITS		
1.1	12 HP	Nos.	2
2.0	INDOOR UNITS		
2.1	1.0 TR CASSETTE UNIT	Nos.	1
2.2	2.8/4 TR CASSETTE UNIT	Nos.	7
2.3	1.0 TR SPLIT UNIT	Nos.	2
3.0	REFRIGERENT PIPING & ACCESSORIES.FOR VRF		
	Supply, Installation & Testing of All refrigerant piping between indoor & outdoor units duly insulated. All piping inside the room shall be properly supported with hanger with making of hole and filling the hole. All piping shall be pressure tested.Make: Mandev / Nissan / Raico / Mexflow		
3.1	Copper Ref.Hard piping of the required sizes for all the units with refnets as per specs. The insulation shall be of 19mm/13mm thick Armaflex make through out the running length of Ref. piping. The piping shall be well supported at specific intervals with GI supports with insulated PUF saddles and installed on GI cable trays supported from wall / roof with anchor fasteners & C type ms angle.	Rmt.	150

3.2	Copper Ref. Soft piping of the required sizes for all the units with refnets as per specs. The insulation shall be of 19mm/13mm thick Armaflex make through out the running length of Ref. piping. The piping shall be well supported at specific intervals with GI supports with insulated PUF saddles and installed on GI cable trays supported from wall / roof with anchor fasteners & C type ms angle.	Rmt.	100
3.3	1/4" + 1/2" Refrigerant piping - For Hiwall 1.0/1.5 Tr Split AC's	Rmt.	20
4.0	POWER, CONTROL CABLING & EARTHING.		
4.1	Supply, Installation & Testing of Power Cabling from Local isolator to OD Unit		
4.1.1	4c x 10 sqmm	Rmt.	10
5.0	Supply, Installation & Testing of Power Cabling from Local isolator/ switch socket to indoor unit including supply & fixing of plug top if required to match the receptacle provided		
5	3c x 1.5sqmm	Rmt.	50
6.0	Supply, Installation & Testing of Communication cable between Indoor and Outdoor Unit.		
6	3c x 1.0sqmm shielded cable.	Rmt.	50
6	10quage Cu strip for earthing	Rmt.	20
7.0	MS STAND		
7.1	Supply & Installation of MS Structure for installing outdoor units with 2 coats of red oxide paint and black paint.	Nos	2
7.2	GI CABLE TRAY 200mm wide, 22swg	Mtr	30
7.3	M. S. Epoxy Painted Stand for Split Outdoor Unit complete with all the accessories required for the installation of out door units.	Nos	2
8.0	DRAIN PIPING		
8.1	Supply, Installation & Testing of PVC with 6 mm insulated sections and including bends, elbows, tees, tappings, wall sleeves, hangers, supports etc.		
8.1.1	25 mm dia.	Rmt.	0
8.1.2	32 mm dia.	Rmt.	50
8.1.3	40 mm dia.	Rmt.	70
8.1.4	50 mm dia.	Rmt.	0
9.0	Supply & Gas charging of Refrigerant Gas.	Kg.	30
	TOTAL AMOUNT LOW SIDE(Rs.)		
	TOTAL AMOUNT WITHOUT GST		
	GST 28 % EXTRA ON A		
	GST 18 % EXTRA ON B		
	GRAND TOTAL		