

NAME OF WORK: CONSTRUCTION OF M/S JAIN OSWAL BOARDING AND HOSTEL, NASHIK

RECAPITULATION -SHEET

1	TOTAL OF AIR-CONDITIONING HIGH SIDE -
2	TOTAL OF AIR-CONDITIONING LOW SIDE -
Total -	
Say Amount -	

NAME OF WORK: CONSTRUCTION OF M/S JAIN OSWAL BOARDING AND HOSTEL, NASHIK						
ABSTRACT SHEET 1 - Air-Conditioning						
Sr. No.	Qty	Unit	Description	SUPPLY	INSTALLATION	Total Amount
		-	SITC OF VRF OUTDOORS			-
A		-	Supplying, erecting, testing and commissioning of VRF / VRV air conditioning system, out door unit (ODU) complying type-IV OEM standards working on HFC free refrigerant R410A or other required/suitable green equivalent refrigerant, for cooling capacity delivering 100% at 47 deg. celcius and non stop cooling even at 56 deg. celsius and coefficient of performance (COP) 3.00 to 4.00, modular type horizontal/vertical hot air discharge suitable for total piping length upto 1000 metre operation in cooling mode with inverter based VRF/VRV technology microprocessor based control compressor starter/control panel complete with scroll compressor, air cooled anti corrosive copper condenser coil of suitable shape for increasing maximum heat transfer area, built in oil separator, accumulator and oil receiver, copper tube aluminium fin air cooled condenser, condenser fan with motor suitable for 415V ± 10%, 50 Hz, 3 phase power supply, internal copper refrigerant piping, internal wiring and first charge of refrigerant, etc. all housed in powder coated weather proof cabinet on provided angle iron frame or suitable foundation connected to the system in approved manner complete.			-
1	2.00	NOS	16 HP			-

Sr. No.	Qty	Unit	Description	SUPPLY	INSTALLATION	Total Amount
		-	SITC OF FOUR WAY LARGE CASSETTE UNITS			-
B			Supply, installation, testing and commissioning of VRF/VRV based ceiling suspended 4 Way large cassette indor unit (IDU) compact size of nominal cooling capacity having EER as per BEE standards and specifications, suitable as per site requirement with swing louvers and adjustable blades from sides. Indoor Units complete with in-built drainage arrangements, fan, refrigerant liquid and refrigerant piping, cordless remote control, and fresh air port etc. IDU shall have anticorrosive coating suitable for coastal area complete in all respects, to operate on 1-phase, 230V, 50Hz, AC input supply, consisting with any additional refrigerant and oil charge as per requirement during installation and connected to the system complete.			-
1	2.00	NOS	2.5 TR			-
2	3.00	NOS	3 TR			-
3	4.00	NOS	4 TR			-
						-
C	18.00	NOS	Supplying and installation of high pressure grade required size copper connection Y or T- Joints / refnet for liquid and suction line complete erected on wall/ceiling with supports/raceways, Nitrile rubber insulation, painting etc. with brazing and testing for leakages confirming the normal operation of the VRV / VRF air conditioning system.			-
D	9.00	NOS	Supplying, erecting, testing and commissioning of corded remote for controlling the air conditioning.			-
						-
		-	TOTAL OF AIR-CONDITIONING HIGH SIDE			-

Sr. No.	Qty	Unit	Description	SUPPLY	INSTALLATION	Total Amount
E	215.00	RMT	Supply Installation Testing & Comissioning of Copper Refrigerant Piping & fitting with 19mm nitrle rubber insulation for suction line , 13mm nitrile rubber insulation for liquid line with proper support arrangement Treatment of exposed piping with Woven Glass cloth - 100 gsm, finished in U/V Treated, pigmented Epoxy for outdoor piping, as per code. Suction and Liquid lines are not considered one length.			
F			Supplu,Installation,Testing and commisisoning of Power cable for indoor and outdoor units as per following			
1	45.00		3C X 1.5 sqmm flexible copper cable idu unit supply.			
2	12.00		4C X 25 sqmm copper armoured cable for odu unit supply			
G	150.00	RMT	Communication cabling between outdoor units / indoor units, in 25mm FRLS PVC Conduits, UV stabilised.			-
						-
H			Supply, installation, commissioning & testing of PVC flexible / rigid Drain piping for the units With Insulation of Nitrile Rubber pipe section thickness of 6mm as per specification and suitable for following pipe size with required couplers, reducers, T-joints, Y-joints elbows and necessary supports etc with sealing complete			-
1	35.00	RMT	25 mm			-
2	30.00	RMT	32 mm			-
						-
I	35.00	KG OF MS	Supply, fabrication,installation M.S base frame/platform for outdoor units complete with vibration isolation pads, supports, , railing, brackets etc. Construction as approved by Architect/ Consultant. Apply finish black epoxy painting.			-
						-
J	2.00	Nos	VRF Outdoor/AHU/fans Loading on Terrace Floor			-
K			Supply and installation of toilet exhaust fans (Inline fans) as per following CFM			
1	1.00	Nos	150 CFM (ESP= 9mm)			
2	1.00	Nos	800 CFM (ESP= 15mm)			

Sr. No.	Qty	Unit	Description	SUPPLY	INSTALLATION	Total Amount
L	23.00	MTR	PVC pipe dia 150mm for toilet exhaust system with bired screen 15mm			
M	15.00	Nos	Alluminum grill 150mm dia circular grill			
N		-	CABLE TREY			-
1	52.00	RMT	Providing & erecting Hot dipped galvanized perforated type cable tray manufactured from 16 swg (1.6 mm thick) GI sheet of 150 mm width & 75 mm height complete with necessary coupler plates & hardware in approved manner			-
		-	TOTAL OF AIR-CONDITIONING LOW SIDE			-