AIR-CONDITIONING WORK IN SBILD (Gr AND FIRST FLOOR), Sultania Road, BHOPAL. M.P.

SI.	DESCRIPTION OF ITEMS	QTY	UNIT		AMOUNT
No.				In Figure	
1	SPLIT AC (INVERTER MODEL):- Supply installation testing and commissioning of Split type wall mounted Air Conditioning unit of following capacity including indoor, outdoor unit fitted with inverter based rotary compressor, copper condensor and first charge refrigerant R41OA. The condensing unit working range should be capable for providing cooling between +/-5deg C to 50 deg.C & heating with in O deg.C to 15 deg.C including connection of copper pipe of required size upto 3 mtr., insulation. cordless remote control, auto air swing louvers, wall stand for out door unit, conection copper lead wire, condensed water outlet pipe 2 mtr.complete etc as required. Outdoor / Indoor units should be of same make (Brand).				
	a. 1.0 TR Star Rating 5 Star	2	No		
	a 1.5 TR Star Rating 5 Star	3	No		
2	CASSAETTE AC: Supply installation testing and commissioning of Split type ceiling cassette Slim Line /Floor Standing Air Conditioning unit of capacity including indoor, outdoor unit fitted with rotary / screw compressor, copper condenser and first charge refrigerant R41OA I eco friendly green gas only, cordless remote control, auto air swing louvers. connection copper lead wire between outdoor and indoor unit, connection copper lead wire, excluding connection copper pipe of required size. insulation, floor stand for out door unit, condense water outlet complete etc as required. Outdoor / Indoor units should be of same make (Brand). A Ceiling Suspended I Mounted Cassette type 4 Way Unit with inbuilt drain pump & decorative panels a 1.8 TR I 2.0 Single Phase	7	No		
	a 1.6 TR 12.0 Single Phase		INO		
	b 2.4 TR Single Phase	2	No		
3	AC UNIT (CEILING MOUNTED ONE WAY): Supply installation testing and commissioning of Corner Cassette type Unit (One way), including indoor, outdoor unit fitted with rotary / screw compressor, copper condenser and first charge refrigerant R41OA I eco friendly green gas only, cordless remote control, auto air swing louvers. connection copper lead wire between outdoor and indoor unit, connection copper lead wire, excluding connection copper pipe of required size. insulation, floor stand for out door unit, condense water outlet complete etc as required. Outdoor / Indoor units should be of same make (Brand).	2	No		
	a 1.5 TR Single Phase	3	No		

SI.	DESCRIPTION OF ITEMS	QTY	UNIT		AMOUNT
No.	DESCRIPTION OF ITEMS	QII	OINII	In Figure	AIVIOUNT
4	Supply, Installation, testing & commissioning of suction/discharge copper pipe line in split Air Conditioning unit 1.0 /1.5 TR/2 TR /3 TR capacity including brazing, nitrile rubber insulation 6/9mm thick class 'O', etc complete as required.				
	a Copper tube 1/4"	25	Mtrs		
	b Copper tube 3/8"	25	Mtrs		
	c Copper tube 1/2"	40	Mtrs		
	d Copper tube 5/8"	40	Mtrs		
5	DRAIN PIPE : (C - PVC)				
	Providing and fixing of CPVC, 6Kg/cm2 drain water piping with fittings, support and insulated with 6 mm thick closed cell elastomeric nitile rubber insulation complete as per specification				
	a. 25 mm dia.	75	RM		
	b. 40 mm dia.	150	RM		
6	SOFT / HARD COPPER PIPING :				
	Supply,Installation, testing and commissioning of Suitable copper refrigerent piping with insulation between indoor and outdoor units.				
	a. Suitable size of Copper Refrigerent Piping for the machines.	5	Kg		
7	FABRICATED STEEL :				
	Supply & fixing of MS angle/ channel/ flat etc with require welding, one coat of red oxide and two coat black paint etc as required.	1500	Kg		
8	FRESH AIR PIPING : :				
	Supplying, and fixing of the following PVC pipe for fresh air in-take for the AC units				
	a. 100 mm dia PVC pipe suitable to AC units.	100	RM		
9	Dismentalling of existing 8.5 Tr ductable AC unit, condensor unit, copper piping etc complete as required.	1	Job		

					AC,SBI,STC,BPL
SI.	DESCRIPTION OF ITEMS	QTY	UNIT		AMOUNT
No.				In Figure	
10	Installation, testing and commissioning of the 8.5 Tr				
	ductable AC unit, condensor unit, copper piping etc				
	complete as required including gas charging.	1	Job		
11	GSS DUCTING : (ROUND / SQUARE DUCT)				
	Supply and fixing of SITE FABRICATED GI sheet metal ducts in accordance with the approved shop drawings and as required as per specifications. GI sheet will be as per IS-277. All necessary GI /MS supports using thread rods (as directed) angle, flat. and anchor bolts, food grade neoprene gaskets, food grade adhesive included in the scope.				
	a. 22 swg	22	Sq M		
	a. 22 Swg		Oq IVI		
	b 24 swg	4	Sq M		
12	DUCT INSULATION :				
	Supplying and fixing of following thickness of mat finish closed cell Nitrile rubber (class "1") insulation on existing duct after applying two coats of cold setting adhesive complete as per specifications and as required.				
	a. 12/13 mm Thick	25	Sq M		
13	ACOUSTIC LINING OF DUCT :				
	Supply, installation, testing and commissioning of Internal duct accoust1c insulation with open cell structured Class "O" fire retardent nitrile rubber with density 140 - 180 kg/m3 and specs as per RISAC Chart specfication sheet inside of the AHU supply air ducting up to 4 mtr length from AHU mouth as per the specifications . it should have antimicrobial properties.				
	a. 10 MM Thick	2	Sq M		
14	ALUMINIUM DAMPERS :				
	Supply and Installation of opposed blade aluminium				
	coller damper complete as req.	1.5	Sq M		

					AC,SBI,STC,BPL
SI.	DESCRIPTION OF ITEMS	QTY	UNIT		AMOUNT
No.				In Figure	
15	GRILLS:				
	Supply and Installation of following size EP 15 degree				
	Extruded Aluminium powder coated linear grills.				
	a. 150 mm	2	Ca M		
	a. 150 mm		Sq M		
16	Supply and fixing of fire retardent Canvass connection				
'0	complete as required.	1	Nos		
	complete ac required.		1100		
17	CONTROL CABLE :				
	Providing & fixing of control wiring/ power cabling with				
	following sizes of copper conductor cable between				
	indoor unit/outdoor unit/controllers inside / out side				
	building in Pvc conduit , on surface / existing				
	channel, cable tray i/c making connection etc. as				
	reqd.				
	a. 2 Core X 1.5 sq mm in 20 mm PVC conduit.	150	RM		
40	FIDE DAMPED .				
18	FIRE DAMPER :				
	Supply installation testing comm1ss1oning of fire				
	dampers in supply air duct I return air duct I main branch				
	of required size as and where required i/c control wiring				
	The motorised damper shall open I close on power failure				
	and restore. The system shall also function on fire signals				
	accordingly complete as required as per specification				
	a Fire damper	1	Sq M		
	b Actuators	1	Nos		
10	AC INCTALLATION				
19	AC INSTALLATION				
	Dismentalling and re-installation of split type Wall				
	Mounted Air Conditioner indoor, outdoor unit fitted with				
	rotary compressor, copper condenser and first charge				
	refrigerant R41OA, including connection of copper pipe				
	and material supplied with complete unit etc as required				
	(Excluding cost of copper pipe)	2	Nos		
TOTAL:					
				TOTAL:	