

**Name of work : Providing,Erecting and Testing HVAC System in Orthopedic Department 4th Floor in Radiotherapy Building at G.G.Hospital Building at Jamnagar.**

**SCHEDULE - B**

ITEM NO	SOR 2026-27	Qty.	Description	Unit	Estimated Rates		AMOUNT
					In Figure Rs. Ps.	In Words	
1	2	3	4	5	6	7	8
1	8-6-2.	5.00	Supply, installation, testing and commissioning of following minimum capacity 4-way/2 way/radial flow as per approval VRV Cassette Type Indoor ceiling mounted unit equipped with synthetic washable media pre-filter, fan section with low noise fan/dynamically balanced blower, multispeed motor, coil section with DX Copper coil, electronic expansion valve, outer cabinet, drain pump, grill, necessary supports, vibration isolation, cord less remote control etc., suitable for operation on single phase 230 V $\pm$ 10%, 50Hz AC supply, max noise level 60dB @ 400 cfm per TR(minimum) complete, as required. The unit shall have automatic force shut down provision in case of fire on receiving signal from BMS System. The cooling capacity of indoor unit will be at air inlet conditions of 27 Degree C DB and 19 Degree C WB temperature fresh air provision compatible for Remote Operation System (C) 1.2 TR	Ea	30576.74	Rupees Thirty Thousand Five Hundred Seventy Six and Paisa Seventy Four Only	152883.70
2	8-6-2.	2.00	Supply, installation, testing and commissioning of following minimum capacity 4-way/2 way/radial flow as per approval VRV Cassette Type Indoor ceiling mounted unit equipped with synthetic washable media pre-filter, fan section with low noise fan/dynamically balanced blower, multispeed motor, coil section with DX Copper coil, electronic expansion valve, outer cabinet, drain pump, grill, necessary supports, vibration isolation, cord less remote control etc., suitable for operation on single phase 230 V $\pm$ 10%, 50Hz AC supply, max noise level 60dB @ 400 cfm per TR(minimum) complete, as required. The unit shall have automatic force shut down provision in case of fire on receiving signal from BMS System. The cooling capacity of indoor unit will be at air inlet conditions of 27 Degree C DB and 19 Degree C WB temperature fresh air provision compatible for Remote Operation System (D) 1.6 TR	Ea	31409.99	Rupees Thirty One Thousand Four Hundred Nine and Paisa Ninety Nine Only	62819.98

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					In Figure Rs. Ps.	In Words	
1	2	3	4	5	6	7	8
3	8-6-2.	1.00	Supply, installation, testing and commissioning of following minimum capacity 4-way/2 way/radial flow as per approval VRV Cassette Type Indoor ceiling mounted unit equipped with synthetic washable media pre-filter, fan section with low noise fan/dynamically balanced blower, multispeed motor, coil section with DX Copper coil, electronic expansion valve, outer cabinet, drain pump, grill, necessary supports, vibration isolation, cord less remote control etc., suitable for operation on single phase 230 V $\pm$ 10%, 50Hz AC supply, max noise level 60dB @ 400 cfm per TR(minimum) complete, as required. The unit shall have automatic force shut down provision in case of fire on receiving signal from BMS System. The cooling capacity of indoor unit will be at air inlet conditions of 27 Degree C DB and 19 Degree C WB temperature fresh air provision compatible for Remote Operation System (H) 3.2 TR	Ea	33842.07	Rupees Thirty Three Thousand Eight Hundred Fourty Two and Paisa Seven Only	33842.07
4	8-6-1.	16.00	Supply Installation, Testing & Commissioning of modular type Variable Refrigerant Volume air cooled Outdoor units suitable for cooling and heating, having all hermetically sealed inverter type Scroll Compressor(s), microprocessor based Controller, top discharge type condensing unit(s), with R410 A Refrigerant (Or Eco Friendly Green Gas if any), vibration isolators, with suitable foundation, MS Stand for Unit with necessary paint etc. complete as required. The unit shall deliver the rated capacity at AHRI Conditions and work even at 50°C ambient temperature without tripping. The unit shall be suitable to work on 400V +/- 10%, 3 Phase, 50Hz AC power supply. The unit shall be filled with first charge of the refrigerant and ready for use as required. The COP at AHRI conditions shall not be less than 3.1 and IEER not less than 6.5. (Design should be got approval before execution from engineer in charge)	Per Hp	24456.14	Rupees Twenty Four Thousand Four Hundred Fifty Six and Paisa Fourteen Only	391298.24

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1	2	3	4	5	6	7	8
5	8-6-5.	72.00	Supply, Installation, testing and commissioning including vaccumiazation and Nitrogen testing of following nominal sizes of soft/hard drawn copper refrigerant piping for VRV system, complete with fittings, with suitable adjustable ring type hanger supports, jointing/brazing including accessories, insulated with XPLE Class-0 tubular insulation/with Class-0 closed cell elastometric nitrile rubber tubular sleeves sections of specified thickness as given below for Suction and Liquid lines, all accessories as per specifications etc with necessary refrigerant joint as required : <b>(A) 6.4 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation</b>	Mtr	324.21	Rupees Three Hundred Twenty Four and Paisa Twenty One Only	23343.12
6	8-6-5.	22.00	(B) 9.5 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation	Mtr	444.40	Rupees Four Hundred Forty Four and Paisa Fourty Only	9776.80
7	8-6-5.	135.00	(C.) 12.7 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation	Mtr	614.08	Rupees Six Hundred Fourteen and Paisa Eight Only	82900.80
8	8-6-5.	23.00	(D) 15.86 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation	Mtr	796.89	Rupees Seven Hundred Ninety Six and Paisa Eighty Nine Only	18328.47
9	8-6-5.	28.00	(E) 19 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm with 19 mm thick insulation	Mtr	940.31	Rupees Nine Hundred Forty and Paisa Thirty One Only	26328.68
10	8-6-5.	35.00	(F) 22.2 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm with 19 mm thick insulation	Mtr	1155.44	Rupees One Thousand One Hundred Fifty Five and Paisa Fourty Four Only	40440.40
11	8-6-5.	72.00	(H) 28.58 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm with 19 mm thick insulation	Mtr	1444.30	Rupees One Thousand Four Hundred Fourty Four and Paisa Thirty Only	103989.60
12	8-6-6.	250.00	Supply installation testing commissioning Shielded Shielded Control Cables for VRV System with necessary ISI mark Medium class rigid PVC pipes with necessary accessories with termination in machine and	Mtr	143.42	Rupees One Hundred Forty Three and Paisa Fourty Two Only	35855.00
13	8-8-4.	60.00	Rigid UPVC drain pipe of 10 Kg/cm2. rating with 9 mm thick.nitrile rubber insulation. (C.) 32mm dia.	Mtr	105.04	Rupees One Hundred Five and Paisa Four Only	6302.40
14	8-8-4.	40.00	(B) 40 mm dia.	Mtr	130.29	Rupees One Hundred Thirty and Paisa Twenty Nine Only	5211.60

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1	2	3	4	5	6	7	8
15	8-6-7.	8.00	Central Control System (A) Cord type remote control with thermostat, LED Display and internal wiring for Cassette, FCU & CSU	Nos	1854.36	Rupees One Thousand Eight Hundred Fifty Four and Paisa Thirty Six Only	14834.88
16	8-12-2.	3.00	carry out RCC Core cutting- up to 100 mm dia./200mm thick Wall/beam/slab with providing PVC pipe of 3 mm thick inside and necessary finishing on both ends of wall .	Job	1199.88	Rupees One Thousand One Hundred Ninety Nine and Paisa Eighty Eight Only	3599.64
17	8-7-2	35.00	Supplying colourless non inflammable refrigerant Gas R-410	Kg.	925.16	Rupees Nine Hundred Twenty Five and Paisa Sixteen Only	32380.60
18	3-10-5.	2.00	Providing & erecting 415 V MCB Four Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity (c)63 Amp. Cat.III	Ea	811.03	Rupees Eight Hundred Eleven and Paisa Three Only	1622.06
19	3-11-3.	2.00	Plastic enclosure fitted with DIN rail suitable for incorporating Three /Four nos. MCB	Ea	108.07	Rupees One Hundred Eight and Paisa Seven Only	216.14
20	4-4-5.	120.00	Providing and erecting FRLS-XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Copper conductor for 1.1 kV. to be laid on wall with necessary clamps or in existing trench / pipe at road crossing or floor of following size of cables.(A) 4 core 10 Sq. mm	Mtr	846.38	Rupees Eight Hundred Fourty Six and Paisa Thirty Eight Only	101565.60
21	4-7-2.	8.00	Solder less crimping type Copper lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (B) 10 Sq.mm	Ea	10.10	Rupees Ten and Paisa Ten Only	80.80

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1	2	3	4	5	6	7	8
22	3-16-4-A	70.00	Providing , erecting , fabricating the M.S. structure as per requirement on site incorporating proper size of M.S. angles,square,round, flats, bars, channels, sections complete with cutting, welding, grinding & finishing duly painted with one coat of red oxide with erection on site as per direction of engineer in charge with necessary grouting, cementing, plastering & finishing complete.	Kg.	77.77	Rupees Seventy Seven and Paisa Seventy Seven Only	5443.90
Total Amount in Rs.							1153064.48

I / We am /are willing to carryout the all or any items of this A.R.C.  
at \_\_\_\_\_% below /above + / - \_\_\_\_\_% (should be  
written in figure and words).

**Note-1** All work shall be carried out as per specification attached and relevant I.S. standards or as directed.

**Note-2** All the columns in schedule should be filled in by ball pan or ink and the total of the entries in the last column should be stated by the contractor under his signature.

**Note-3** Rates quoted include clearance of site (Prior to commencement of work and at its closure) in all respects and held good for the work under all conditions, site, moisture, weather etc.

**Note-4** To be continued on additional sheets, if found necessary.

Signature of Contractor with seal

Signature of the Contracting Authority with seal :

Asst. Engineer (Ele.)  
P.I.U. Jamnagar

Dy. Executive Engineer (Ele.)  
P.I.U. Jamnagar

Executive Engineer (Ele.)  
P.I.U. Zone I Rajkot