

TATA MEMORIAL CENTRE ADVANCED CENTRE FOR TREATMENT RESEARCH AND EDUCATION IN CANCER (ACTREC).

A GRANT-IN-AID INSTITUTE UNDER DEPARTMENT OF ATOMIC ENERGY, GOVERNMENT OF INDIA

Tender No:	TMC/ACTREC/Engg/SP/ET-02/ARC for Mechanical Maintenace Work/2020		
Tender Name:	Item rate Contract for Mechanical maintenace work & repair of referigerator, deep freezer, cold rooms etc. for the year 2020-21 at ACTREC.		
	NAME OF THE AGENCY		
ITEM CODE	DESCRIPTION	UNIT	NET RATE
TIENI CODE	Supplying, fixing, testing and commissioning of condenser water	Oitii	METRATE
1	pipes of following sizes of MS 'C' class along with necessary clamps, vibration isolators and fittings such as bends,tees etc.but excluding valves, strainers, gauges etc. adequately supported on rigid supports duly painted/buried in ground excavation and refilling etc. as per specification and as required complete in all respect.	Mtr	0.00
1.01	300mm dia.	Mtr	5787.00
1.02	250 mm dia	Mtr	4833.00
1.03	200mm dia.	Mtr	4069.00
1.04	150mm dia.	Mtr	2620.00
1.05	125mm dia.	Mtr	2290.00
1.06	100mm dia.	Mtr	1960.00
1.07	80mm dia.	Mtr	1418.00
1.08	65mm dia.	Mtr	1222.00
1.09	50mm dia	Mtr	979.00
1.1	40mm dia	Mtr	808.00
1.11	32mm dia	Mtr	661.00
1.12	25mm dia	Mtr	578.00
2	Supplying, fixing, testing and commissioning of following valves, gauges and strainers for condenser water circulation as per specifications and as required complete in all respect.	Each	0.00
2.1	BUTTERFLY VALVE (MANUAL) with C I body SS disc nitrile sheet & O - ring & PN 16 pressure rating as specified.	Each	0.00
2.1.1	200mm dia.	Each	10295.54
2.1.2	150mm dia.	Each	4858.93
2.1.3	125mm dia.	Each	4283.04
2.1.4	100mm dia.	Each	3678.57
2.1.5	80mm dia.	Each	2691.96
2.1.6	65mm dia.	Each	2533.04
2.1.7	50mm dia	Each	2271.43
2.1.8	40mm dia	Each	2129.46
2.2	NON - RETURN VALVE with dual plate of C I body SS plates vulcanized NBR seal flanged end & PN 16 pressure rating as specified	Each	0.00
2.2.1	200mm dia.	Each	10875.89
2.2.2	150mm dia.	Each	6402.68

2.2.3	125mm dia.	Each	5488.39
2.2.4	100mm dia.	Each	4090.18
2.2.5	80mm dia.	Each	2802.68
2.2.6	65mm dia.	Each	2569.64
2.3	Supply, Installation, Testing and Commissioning of following sizes electronic, self-balancing, pressure independent type dynamic balancing valve with integrated 2 way/3 way modualating control valve in a single body. The actuator shall be capable of accepting upto 10V DC and upto 20mA electric signal and shall provide similar transduced feedback output to control system. Maximum close off pressure shall not be less than 6 Bar for upto 50 mm valves and 7 Bar for 65 mm & above. Valves should have pressure rating of 25 Bar minimum	Each	0.00
2.3.1	150mm dia.	Each	135163.39
2.3.2	125mm dia.	Each	123058.93
2.3.3	100mm dia.	Each	96833.93
2.3.4	80mm dia.	Each	57277.68
2.3.5	65mm dia.	Each	45004.46
2.3.6	50mm dia	Each	29150.89
2.3.7	40mm dia	Each	26593.75
2.3.8	32mm dia	Each	14319.64
2.3.9	25mm dia	Each	13467.86
2.3.10	20mm dia	Each	9818.75
	Y - STRAINER of Ductile CI Body flanged ends with stainless steel		
2.4	strainer for chilled / hot water circulation including insulation as	Each	0.00
	specified		
2.4.1	200mm dia.	Each	25778.57
2.4.2	150mm dia.	Each	13176.79
2.4.3	125mm dia.	Each	12421.43
2.4.4	100mm dia.	Each	8768.75
2.4.5	80mm dia.	Each	6359.82
2.4.6	65mm dia.	Each	5541.96
2.4.7	50mm dia	Each	4493.75
2.4.8	40mm dia	Each	3183.04
2.5	BALANCING VALVE WITH BUILT IN MEASURING FACILITY with C I body flanged construction with EPDM coated disc with long pitch with protected out pipe insulation & PN 16 pressure rating for chilled / hot water circulation as specified	Each	0.00
2.5.1	200mm dia.	Each	46995.54
2.5.2	150mm dia.	Each	23750.00
2.5.3	125mm dia.	Each	17853.57
2.5.4	100mm dia.	Each	13591.96
2.5.5	80mm dia.	Each	9250.00
2.5.6	65mm dia.	Each	8087.50
2.5.7	50mm dia	Each	6588.39
2.5.8	40mm dia	Each	4037.50
2.6	Providing and fixing in position the industrial type pressure gauges with gun metal / brass valves complete as required	Each	976.79
2.7	Providing & fixing in position the mercury in glass industrial type thermometers./Dial type thermometer with thermowell	Each	854.46
2.8	Foot Valves (Double flap type) (New)Supply, installation, testing & commissioning of following items as per instruction of Engineering In-charge.(installtion with all new consumable item i.e. nut, bolts, washers etc require for foot valves.)	Each	0.00

2.8.1	150mm dia.	Each	10400.00
2.8.2	125mm dia.	Each	7600.00
2.8.3	80mm dia.	Each	5200.00
2.8.4	50mm dia	Each	3090.00
3	Repair of Foot Valves Removing, repairing & Installation of existing Foot valves of following sizes	Each	0.00
3.1	150mm dia.	Each	1500.00
3.2	125mm dia.	Each	1500.00
3.3	80mm dia.	Each	900.00
3.4	50mm dia	Each	700.00
4	Repairing of Valves Removing, repairing, reinstallation, testing & commissioning of existing butterfly / globe / three way / non-return / gate / air vent valves of any sizes. The maintenance includes complete overhauling, replacement of flange gaskets on both flange sides of pipe, new nut bolts washers, greasing of spindle, gland packing replacement & any another damaged components etc up to smooth functioning of valve as per instruction & satisfaction of Engineering In charge.	Each	600.00
5	Painting of Ms Pipe, Supports etc. with one coat Epoxy mastica primer and two coat PU paint after thoroughly scrapping the existing paint as per technical specification & instruction of Engineer in Charger.	Sqm	250.00
6	Supply, installation, balancing and commissioning of factory fabricated GSS sheet metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as required	sqm	0.00
6.1	24 SWG	sqm	841.07
6.2	22 SWG	sqm	985.71
6.3	20SWG	sqm	1301.79
6.4	18 SWG	sqm	1441.96
7	Supply, installation, testing and commissioning of GI volume control duct damper complete with neoprene rubber gaskets, nuts, bolts, screws linkages, flanges etc, as per specifications	sqm	5803.57
8	Supplying & fixing of powder coated extruded aluminium Supply Air Grills with aluminium volume control dampers as per specifications	sqm	7571.43
9	Supplying & fixing of powder coated extruded aluminium Return Air Grills with louvers but without volume control dampers complete as required	sqm	4916.96
10	Supplying, fixing testing commissioning of supply air diffusers of powder coated aluminium with aluminium volume control dampers with anti smudge ring & removable core.	sqm	10145.54
11	Supplying, fixing testing commissioning of Return air diffusers of powder coated aluminium without volume control dampers with anti smudge ring & removable core.	sqm	6749.11
12	Supply, installation, testing & commissioning of thermal insulated flexible duct of following sizes duly supported at regular interval as per site requirement etc. complete as required as per specifications.	mtr	0.00
12.1	200mm dia.	mtr	480.36

13	Supplying and fixing of following thickness duly laminated aluminum foil of mat finish closed cell Nitrile rubber (Class "O") insulation on existing duct after applying suitable adhesive for Nitrile rubber. The joints shall be sealed with 50 mm wide and 3 mm thick self adhesive nitrile rubber tape insulation complete as per specifications and as required	sqm	0.00
12.1		cam	622.22
13.1	19mm	sqm	622.32
13.2	25mm dia Canvas :Supply & fixing of Fire retardant synthetic canvass connection with a	sqm	800.00
14	provision to measure the canvass temperature at the mouth of package units & prenum with all fixing arrangement, nut bolts, hardware's etc. as per instruction of Engineer-in-charge.	Set	2400.00
15	Fall Ceiling & ducting dismantling: Removing, stacking and fixing of Aluminium Fall ceiling in good condition and dismantling the existing GSS ducting etc. to install fabricated GSS ducting as per instruction of Engineer-in-charge.	sqm	750.00
16	Supply , fabrication, welding and installation of MS structure with one coat primer and one coat final paint as per requirement and as instructed by Engineer Incharge	kg	130.00
17	Pump	Each	0.00
17.1	Replacement of coupling: General servicing, pump overhauling, installation of new couplings, gland packing, bearings, alignment and all other necessary hardware of all types of following pump i.e. centrifugal, split casing, monoblock etc as per instruction and as directed by the OIC-ES.	Each	0.00
17.1.1	60 HP	Each	19600.00
17.1.2	20HP	Each	10000.00
17.1.3	5HP	Each	2500.00
17.2	Replacement of shaft: General servicing, pump overhauling, installation of new shaft, gland packing, bearings, alignment and all other necessary hardware of all types of following pump i.e. centrifugal, split casing, monoblock etc as per instruction and as directed by the OIC-ES.	Each	0.00
17.2.1	60 HP	Each	42000.00
17.2.2	20HP	Each	13000.00
17.2.3	5HP	Each	3000.00
17.3	Replacement of Gland packing of pump	Rmt	250.00
18	REFRIGERATORS	Each	0.00
18.1	Supply, installation, testing & commissioning of new original compressor after removing existing defective compressor under buy-back scheme, along with gas charging with prior approval. It also includes servicing, house keeping & any repairing of body as per instruction of Engineer In charge. The contractor shall give one-year guarantee for the compressors. All components shall be of approved make.	Each	0.00
18.1.1	90 liters (Single Compressor)	Each	6000.00
18.1.2	165 liters. (Single Compressor)	Each	7000.00
18.1.3	200 liters. (Single Compressor)	Each	7500.00
18.1.4	300 liters. (Single Compressor)	Each	8000.00
18.1.5	400 liters. (Single Compressor)	Each	10200.00
18.1.6	500 liters (Single Compressor)	Each	12000.00
18.1.7	65/80 liters (Single Compressor)	Each	5500.00
18.2	Supply, installation, testing & Commissioning of following components for refrigerators of different capacities as per Indian standard. Approval shall be obtained before using the material.	Each	0.00

18.2.01			
	Thermostat	Each	700.00
18.2.02	Relay	Each	450.00
18.2.03	Capacitor	Each	180.00
18.2.04	Strainer/Drier	Each	190.00
18.2.05	Painting of body & doors repairs, etc.	Each	2000.00
18.2.06	Condenser coil	Each	2550.00
18.2.07	Capillary	Each	190.00
18.2.08	Freezer coil	Each	2550.00
18.2.09	Freezer door	Each	1000.00
18.2.10	PCB	Each	3000.00
18.2.11	Sensor	Each	450.00
18.2.12	heater	Each	400.00
18.2.13	bi-metallic thermostat	Each	1200.00
18.2.14	fan motor	Each	1100.00
18.2.15	fan blade	Each	350.00
18.2.16	bulb	Each	100.00
18.2.17	Timer	Each	650.00
18.2.18	Drainage tray	Each	450.00
18.2.19	Limit switch for bulb/door push button	Each	150.00
18.2.20	Gas charging	Each	2300.00
19	Deep Freezers	Each	0.00
19.1	Supply, installation, testing & commissioning of new original compressor after removing existing defective compressor under buy-back scheme, along with gas charging with prior approval. It also includes servicing, house keeping & any repairing of body as per instruction of Engineer In charge. The contractor shall give one-year guarantee for the compressors. All components shall be of	Each	0.00
	approved make.		
19.1.1		Each	9500.00
19.1.1 19.1.2	approved make.	Each Each	
	approved make. 165 liters.		11500.00
19.1.2	approved make. 165 liters. 200 ltrs. /220 liters.	Each	11500.00 12000.00
19.1.2 19.1.3	approved make. 165 liters. 200 ltrs. /220 liters. 360 Ltrs 400 Ltrs Supply, installation, testing & commissioning of following components as per	Each Each	11500.00 12000.00 13000.00
19.1.2 19.1.3 19.1.4 19.2	approved make. 165 liters. 200 ltrs. /220 liters. 360 Ltrs 400 Ltrs Supply, installation, testing & commissioning of following components as per Indian standard for deep freezers (165 / 200 /220 liters capacity).	Each Each Each	11500.00 12000.00 13000.00 0.00
19.1.2 19.1.3 19.1.4 19.2 19.2.01	approved make. 165 liters. 200 ltrs. /220 liters. 360 Ltrs 400 Ltrs Supply, installation, testing & commissioning of following components as per Indian standard for deep freezers (165 / 200 /220 liters capacity). Thermostat of approved make Danfoss	Each Each Each Each Each	11500.00 12000.00 13000.00 0.00
19.1.2 19.1.3 19.1.4 19.2 19.2.01 19.2.02	approved make. 165 liters. 200 ltrs. /220 liters. 360 Ltrs 400 Ltrs Supply, installation, testing & commissioning of following components as per Indian standard for deep freezers (165 / 200 /220 liters capacity). Thermostat of approved make Danfoss Relay	Each Each Each Each Each Each	11500.00 12000.00 13000.00 0.00 1050.00 730.00
19.1.2 19.1.3 19.1.4 19.2 19.2.01 19.2.02 19.2.03	approved make. 165 liters. 200 ltrs. /220 liters. 360 Ltrs 400 Ltrs Supply, installation, testing & commissioning of following components as per Indian standard for deep freezers (165 / 200 /220 liters capacity). Thermostat of approved make Danfoss Relay Capacitor	Each Each Each Each Each Each Each	11500.00 12000.00 13000.00 0.00 1050.00 730.00 200.00
19.1.2 19.1.3 19.1.4 19.2 19.2.01 19.2.02 19.2.03 19.2.04	approved make. 165 liters. 200 ltrs. /220 liters. 360 Ltrs 400 Ltrs Supply, installation, testing & commissioning of following components as per Indian standard for deep freezers (165 / 200 /220 liters capacity). Thermostat of approved make Danfoss Relay Capacitor Strainer/Drier	Each Each Each Each Each Each Each Each	11500.00 12000.00 13000.00 0.00 1050.00 730.00 200.00 190.00
19.1.2 19.1.3 19.1.4 19.2 19.2.01 19.2.02 19.2.03 19.2.04 19.2.05	approved make. 165 liters. 200 ltrs. /220 liters. 360 Ltrs 400 Ltrs Supply, installation, testing & commissioning of following components as per Indian standard for deep freezers (165 / 200 /220 liters capacity). Thermostat of approved make Danfoss Relay Capacitor Strainer/Drier Bulb	Each Each Each Each Each Each Each Each	9500.00 11500.00 12000.00 13000.00 0.00 1050.00 730.00 200.00 190.00 80.00
19.1.2 19.1.3 19.1.4 19.2 19.2.01 19.2.02 19.2.03 19.2.04 19.2.05 19.2.06	approved make. 165 liters. 200 ltrs. /220 liters. 360 Ltrs 400 Ltrs Supply, installation, testing & commissioning of following components as per Indian standard for deep freezers (165 / 200 /220 liters capacity). Thermostat of approved make Danfoss Relay Capacitor Strainer/Drier Bulb Spray Painting of body & doors repairs, etc.	Each Each Each Each Each Each Each Each	11500.00 12000.00 13000.00 0.00 1050.00 730.00 200.00 190.00 80.00 2500.00
19.1.2 19.1.3 19.1.4 19.2 19.2.01 19.2.02 19.2.03 19.2.04 19.2.05 19.2.06 19.2.07	approved make. 165 liters. 200 ltrs. /220 liters. 360 Ltrs 400 Ltrs Supply, installation, testing & commissioning of following components as per Indian standard for deep freezers (165 / 200 /220 liters capacity). Thermostat of approved make Danfoss Relay Capacitor Strainer/Drier Bulb Spray Painting of body & doors repairs, etc. Condenser coil	Each Each Each Each Each Each Each Each	11500.00 12000.00 13000.00 0.00 1050.00 730.00 200.00 190.00 80.00 2500.00
19.1.2 19.1.3 19.1.4 19.2 19.2.01 19.2.02 19.2.03 19.2.04 19.2.05 19.2.06 19.2.07 19.2.08	approved make. 165 liters. 200 ltrs. /220 liters. 360 Ltrs 400 Ltrs Supply, installation, testing & commissioning of following components as per Indian standard for deep freezers (165 / 200 /220 liters capacity). Thermostat of approved make Danfoss Relay Capacitor Strainer/Drier Bulb Spray Painting of body & doors repairs, etc. Condenser coil Capillary	Each Each Each Each Each Each Each Each	11500.00 12000.00 13000.00 0.00 1050.00 730.00 200.00 190.00 2500.00 2800.00
19.1.2 19.1.3 19.1.4 19.2 19.2.01 19.2.02 19.2.03 19.2.04 19.2.05 19.2.06 19.2.07 19.2.08 19.2.09	approved make. 165 liters. 200 ltrs. /220 liters. 360 Ltrs 400 Ltrs Supply, installation, testing & commissioning of following components as per Indian standard for deep freezers (165 / 200 /220 liters capacity). Thermostat of approved make Danfoss Relay Capacitor Strainer/Drier Bulb Spray Painting of body & doors repairs, etc. Condenser coil Capillary Condenser fan with motor	Each Each Each Each Each Each Each Each	11500.00 12000.00 13000.00 0.00 1050.00 730.00 200.00 190.00 2500.00 2800.00 190.00
19.1.2 19.1.3 19.1.4 19.2 19.2.01 19.2.02 19.2.03 19.2.04 19.2.05 19.2.06 19.2.07 19.2.08 19.2.09 19.2.10	approved make. 165 liters. 200 ltrs. /220 liters. 360 Ltrs 400 Ltrs Supply, installation, testing & commissioning of following components as per Indian standard for deep freezers (165 / 200 /220 liters capacity). Thermostat of approved make Danfoss Relay Capacitor Strainer/Drier Bulb Spray Painting of body & doors repairs, etc. Condenser coil Capillary Condenser fan with motor Door gasket of good quality	Each Each Each Each Each Each Each Each	11500.00 12000.00 13000.00 0.00 1050.00 730.00 200.00 190.00 2500.00 2800.00 190.00 1700.00 600.00
19.1.2 19.1.3 19.1.4 19.2 19.2.01 19.2.02 19.2.03 19.2.04 19.2.05 19.2.06 19.2.07 19.2.08 19.2.09 19.2.10 19.2.11	approved make. 165 liters. 200 ltrs. /220 liters. 360 Ltrs 400 Ltrs Supply, installation, testing & commissioning of following components as per Indian standard for deep freezers (165 / 200 /220 liters capacity). Thermostat of approved make Danfoss Relay Capacitor Strainer/Drier Bulb Spray Painting of body & doors repairs, etc. Condenser coil Capillary Condenser fan with motor Door gasket of good quality Dial type thermometer	Each Each Each Each Each Each Each Each	11500.00 12000.00 13000.00 0.00 1050.00 730.00 200.00 190.00 2500.00 2800.00 190.00 1700.00 600.00
19.1.2 19.1.3 19.1.4 19.2 19.2.01 19.2.02 19.2.03 19.2.04 19.2.05 19.2.06 19.2.07 19.2.08 19.2.09 19.2.10 19.2.11 19.2.12	approved make. 165 liters. 200 ltrs. /220 liters. 360 Ltrs 400 Ltrs Supply, installation, testing & commissioning of following components as per Indian standard for deep freezers (165 / 200 /220 liters capacity). Thermostat of approved make Danfoss Relay Capacitor Strainer/Drier Bulb Spray Painting of body & doors repairs, etc. Condenser coil Capillary Condenser fan with motor Door gasket of good quality Dial type thermometer Electronic digital type temperature indicator.	Each Each Each Each Each Each Each Each	11500.00 12000.00 13000.00 0.00 1050.00 730.00 200.00 190.00 2800.00 190.00 1700.00 600.00 1750.00
19.1.2 19.1.3 19.1.4 19.2 19.2.01 19.2.02 19.2.03 19.2.04 19.2.05 19.2.06 19.2.07 19.2.08 19.2.09 19.2.10 19.2.11 19.2.12 19.2.13	approved make. 165 liters. 200 ltrs. /220 liters. 360 Ltrs 400 Ltrs Supply, installation, testing & commissioning of following components as per Indian standard for deep freezers (165 / 200 /220 liters capacity). Thermostat of approved make Danfoss Relay Capacitor Strainer/Drier Bulb Spray Painting of body & doors repairs, etc. Condenser coil Capillary Condenser fan with motor Door gasket of good quality Dial type thermometer Electronic digital type temperature indicator. clamp/bush	Each Each Each Each Each Each Each Each	11500.00 12000.00 13000.00 0.00 1050.00 730.00 200.00 190.00 2800.00 1700.00 600.00 1750.00 2400.00
19.1.2 19.1.3 19.1.4 19.2 19.2.01 19.2.02 19.2.03 19.2.04 19.2.05 19.2.06 19.2.07 19.2.08 19.2.09 19.2.10 19.2.11 19.2.12 19.2.13 19.2.14	approved make. 165 liters. 200 ltrs. /220 liters. 360 Ltrs 400 Ltrs Supply, installation, testing & commissioning of following components as per Indian standard for deep freezers (165 / 200 /220 liters capacity). Thermostat of approved make Danfoss Relay Capacitor Strainer/Drier Bulb Spray Painting of body & doors repairs, etc. Condenser coil Capillary Condenser fan with motor Door gasket of good quality Dial type thermometer Electronic digital type temperature indicator. clamp/bush PCB	Each Each Each Each Each Each Each Each	11500.00 12000.00 13000.00 0.00 1050.00 730.00 200.00 190.00 2500.00 2800.00 1700.00 600.00 1750.00 2400.00 2550.00
19.1.2 19.1.3 19.1.4 19.2 19.2.01 19.2.02 19.2.03 19.2.04 19.2.05 19.2.06 19.2.07 19.2.08 19.2.09 19.2.10 19.2.11 19.2.12 19.2.13 19.2.14 19.2.15	approved make. 165 liters. 200 ltrs. /220 liters. 360 Ltrs 400 Ltrs Supply, installation, testing & commissioning of following components as per Indian standard for deep freezers (165 / 200 /220 liters capacity). Thermostat of approved make Danfoss Relay Capacitor Strainer/Drier Bulb Spray Painting of body & doors repairs, etc. Condenser coil Capillary Condenser fan with motor Door gasket of good quality Dial type thermometer Electronic digital type temperature indicator. clamp/bush PCB fan motor	Each Each Each Each Each Each Each Each	11500.00 12000.00 13000.00 0.00 1050.00 730.00 200.00 190.00 2500.00 2800.00 1700.00 600.00 1750.00 2400.00 1750.00 2550.00
19.1.2 19.1.3 19.1.4 19.2 19.2.01 19.2.02 19.2.03 19.2.04 19.2.05 19.2.06 19.2.07 19.2.08 19.2.10 19.2.11 19.2.12 19.2.13 19.2.14 19.2.15 19.2.16	approved make. 165 liters. 200 ltrs. /220 liters. 360 Ltrs 400 Ltrs Supply, installation, testing & commissioning of following components as per Indian standard for deep freezers (165 / 200 /220 liters capacity). Thermostat of approved make Danfoss Relay Capacitor Strainer/Drier Bulb Spray Painting of body & doors repairs, etc. Condenser coil Capillary Condenser fan with motor Door gasket of good quality Dial type thermometer Electronic digital type temperature indicator. clamp/bush PCB fan motor fan blade	Each Each Each Each Each Each Each Each	11500.00 12000.00 13000.00 13000.00 0.00 1050.00 730.00 200.00 190.00 2500.00 1700.00 600.00 1750.00 2400.00 190.00 1750.00 320.00
19.1.2 19.1.3 19.1.4 19.2 19.2.01 19.2.02 19.2.03 19.2.04 19.2.05 19.2.06 19.2.07 19.2.08 19.2.09 19.2.10 19.2.11 19.2.12 19.2.13 19.2.14 19.2.15 19.2.16 19.2.17	approved make. 165 liters. 200 ltrs. /220 liters. 360 Ltrs 400 Ltrs Supply, installation, testing & commissioning of following components as per Indian standard for deep freezers (165 / 200 /220 liters capacity). Thermostat of approved make Danfoss Relay Capacitor Strainer/Drier Bulb Spray Painting of body & doors repairs, etc. Condenser coil Capillary Condenser fan with motor Door gasket of good quality Dial type thermometer Electronic digital type temperature indicator. clamp/bush PCB fan motor fan blade Gas charging	Each Each Each Each Each Each Each Each	11500.00 12000.00 13000.00 0.00 1050.00 730.00 200.00 190.00 2800.00 1750.00 2400.00 1750.00 2550.00 1750.00 2500.00 2500.00
19.1.2 19.1.3 19.1.4 19.2 19.2.01 19.2.02 19.2.03 19.2.04 19.2.05 19.2.06 19.2.07 19.2.08 19.2.10 19.2.11 19.2.12 19.2.13 19.2.14 19.2.15 19.2.16	approved make. 165 liters. 200 ltrs. /220 liters. 360 Ltrs 400 Ltrs Supply, installation, testing & commissioning of following components as per Indian standard for deep freezers (165 / 200 /220 liters capacity). Thermostat of approved make Danfoss Relay Capacitor Strainer/Drier Bulb Spray Painting of body & doors repairs, etc. Condenser coil Capillary Condenser fan with motor Door gasket of good quality Dial type thermometer Electronic digital type temperature indicator. clamp/bush PCB fan motor fan blade	Each Each Each Each Each Each Each Each	11500.00 12000.00 13000.00 0.00 1050.00 730.00 200.00 190.00 2500.00 2800.00 1700.00 600.00 1750.00 2400.00 1750.00 2550.00

20.1	Supply, installation, testing & commissioning of new original compressor after removing existing defective compressor under buy-back scheme, along with gas charging with prior approval. It also includes servicing, house keeping & any repairing of body as per instruction of Engineer In charge. The contractor shall give one-year guarantee for the compressors. All components shall be of approved make.	Each	18000.00
20.1.01	Thermostat of approved make Danfoss (differential thermostat)	Each	1200.00
20.1.02	Relay	Each	1100.00
20.1.03	Capacitor	Each	350.00
20.1.04	Strainer/Drier	Each	300.00
20.1.05	Bulb	Each	80.00
20.1.06	Spray Painting of body & doors repairs, etc.	Each	4000.00
20.1.07	Condenser coil	Each	6200.00
20.1.08	Capillary	Each	320.00
20.1.09	Condenser fan with motor	Each	3300.00
20.1.10	Dial type thermometer	Each	1750.00
20.1.11	Electronic digital type temperature indicator.	Each	1500.00
20.1.12	clamp/bush	Each	220.00
20.1.13	PCB	Each	3000.00
20.1.14	fan motor	Each	2200.00
20.1.15	fan blade	Each	520.00
20.1.16	Door gasket of good quality	Rmt	700.00
	Door lock	Each	1200.00
20.1.18	Condenser coil	Each	2500.00
20.1.19	Evaporator coil	Each	2800.00
20.1.20	Gas charging	Each	3800.00
20.1.21	PT100/ PT 1000 sensor	Each	1100.00
20.1.22	Door hinges	Each	850.00
20.1.23	Door handle	Each	1000.00
21	Water Coolers	Each	0.00
21.1	Supply, installation, testing & Commissioning of following components of water cooler of different capacities as per Indian standard. Approval shall be obtained before using the material.	Each	0.00
	Thermostat of approved make Danfoss (differential thermostat)	Each	1200.00
	Relay	Each	500.00
	Capacitor	Each	350.00
	Strainer/Drier	Each	300.00
	Bulb	Each	80.00
21.1.06	Spray Painting of body & doors repairs, etc.	Each	2500.00
21.1.07	Condenser coil	Each	2500.00
21.1.08	Capillary	Each	320.00
21.1.09	Condenser fan with motor	Each	3300.00
21.1.10	Dial type thermometer	Each	1750.00
21.1.11	Electronic digital type temperature indicator.	Each	1500.00
21.1.12	clamp/bush	Each	220.00
21.1.13	PCB	Each	3000.00
21.1.14	fan motor	Each	2200.00
21.1.15	fan blade	Each	520.00
21.1.16	Door gasket of good quality	Rmt	600.00
21.1.17	Condenser coil	Each	2500.00
21.1.18	Evaporator coil	Each	2800.00
21.1.19	Gas charging	Each	3800.00
21.1.20	PT100/ PT 1000 sensor	Each	1100.00
21.1.21	Door hinges	Each	850.00

21.1.22	Float valve	Each	1000.00
21.2	Supply, installation, testing & commissioning of new original compressor after removing existing defective compressor under buy-back scheme, along with gas charging with prior approval. It also includes servicing, house keeping & any repairing of body as per instruction of Engineer In charge. The contractor shall give one-year guarantee for the compressors. All components shall be of approved make.	Each	0.00
21.2.1	80 ltr storage/ 60 ltr /40 ltr hour capacity unit	Each	8500.00
21.2.2	30 ltr storage/ 20ltr/15 ltr / hour capacity unit	Each	5500.00
22	Supply , installtion , fabrication of M.S structure work as per the requirement and coating of 250 micron epoxy paint as per instruction and as directed by OIC-ES.	Kg	130.00
	Here by agree with		

Here by agree with	
The rate given in shedule of rate will be plus/minus in percentage (%) and same will be valid for period of one year.	

1	Material shall be procured according to the specifications as mentioned in the schedule. In case, make of the material is not mentioned in the Item, Prior approval shall be obtained from Engineer-in-Charge before procuring alternate make for any kind of Item/Material.
2	The rate shall be basic and GST as applicable.
3	Deviation may be informed on separate page at the time of tendering only.
4	Catalogs, drawings, test reports & other relevant documents shall be submitted time to time before settlement of bill.
5	All the material delivered by the contractor shall be at the risk of the contractor
6	Rate will be executed for each work as and when required.
7	In event of failure to supply and completion of work within the stipulated time period, the Engineering dept reserves the right to levy liquidated damages @ 1.5% per month of delay to be computed on per day basis
8	Material shall be delivered within 1 day of contact through e-mail or telephone.
9	New compressor shall have minimum one Year and repaired compressor have 6 months guarantee.
13	Payment will be made against the bill along with delivery challan duly endorsed at security gate on
14	Agency may visit the site to know actual scope of work.