

SCHEDULE OF RATES

SCHEDULE OF RATES [UN-PRICED BID]

BIDDER TO MENTION AS “QUOTED” IN UN-PRICED SOR

ANNUAL MAINTENANCE ESTIMATE SOR FOR AMC OF SPLIT A/Cs, TOWER A/Cs, WATER COOLERS & REFRIGERATORS INSTALLED AT BCPL PLANT OF LEPETKATA/DULIAJAN & BCPL TOWNSHIP FOR A PERIOD OF TWO YEARS

TENDER NO: BCPL/C&P/ LE16W107AS

SL No.	Description of Items (Model)	Unit	Qty.	Unit Rate (Rs.) (In figure)	Unit Rate (Rs.) (In words)	Total Amount (Rs.) (In figure)	Total Amount (Rs.) (In words)
		A	B	C	D	E=(BXC)	
AMC OF 1.5/2.0 TR SPLIT A/Cs and 4.0 TR Tower A/Cs							
1.0	Replacement of compressor including supply of R-22 Gas and charging in case of failure with the compressor of 1.5 TR split air conditioners the work includes replacement of faulty compressor , installation of new compressor in the equipment, brazing it to copper piping connections only, the compressor supply in the scope of BCPL .	EA	2	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
1.1	Replacement of compressor including supply of R-22 Gas and charging in case of failure with the compressor of 2.0 TR split air conditioners the work includes replacement of faulty compressor , installation of new compressor in the equipment, brazing it to copper piping connections only, the compressor supply in the scope of BCPL .	EA	2	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
1.2	Replacement of compressor including supply of R-22 Gas and charging in case of failure with the compressor of 4.0 TR Tower air conditioners the work includes replacement of faulty compressor , installation of new compressor in the equipment, brazing it to copper piping connections only, the compressor supply in the scope of BCPL .	EA	1	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
1.3	Supply & installation of new compressor including supply of R-22 Gas and charging in case of failure with the compressor of 1.5 TR split air conditioners the work includes replacement of faulty compressor, installation of new compressor in the equipment, brazing it to copper piping connections, the same make new compressor supply in the scope of Vendor .	EA	10	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
1.4	Supply & installation of new compressor including supply of R-22 Gas and charging in case of failure with the compressor of 2.0 TR split air conditioners the work includes replacement of faulty compressor, installation of new compressor in the equipment, brazing it to copper piping connections, the same make new compressor supply in the scope of Vendor .	EA	5	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
1.5	Supply & installation of new compressor including supply of R-22 Gas and charging in case of failure with the compressor of 4.0 TR Tower air conditioners the work	EA	2	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE

	includes replacement of faulty compressor, installation of new compressor in the equipment, brazing it to copper piping connections, the same make new compressor supply in the scope of Vendor .						
1.6	Supply & installation of 1.5 Ton complete Body Kit of Split Air Conditioner without compressor	EA	5	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
1.7	Supply & installation of 2.0 Ton complete Body Kit of Split Air Conditioner without compressor	EA	3	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
1.8	Supply & installation of 4.0 Ton complete Body Kit of Tower Air Conditioner without compressor	EA	2	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
1.9	Supply & charging of R-22 refrigerant gas in case of low pressure & leakage of refrigerant gas in 1.5/2.0 TR split air conditioners and 4.0 TR Tower air conditioners. This work shall have guarantee for six months followed by a leak test.	Kg	50	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
2.0	Attending & rectifying the problem including attending all complaints of the 1.5/2.0 TR split air conditioners and 4.0 TR Tower A/Cs and rectifying it . During the maintenance the air filter shall be cleaned .	EA	100	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
2.1	Dry Cleaning of 1.5/ 2.0TR Split Air conditioners and 4.0 TR Tower Air Conditioners including filter with cooling and condenser coils.	EA	120	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
2.2	Overhauling/ wet servicing the work includes complete overhauling of the 1.5/2.0 TR split air conditioners and 4.0 TR Tower A/Cs during the maintenance the unit shall be thoroughly cleaned with water & detergents. All power and control circuit wiring shall be checked.	EA	120	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
2.3	Installation of 1.5/2.0 Ton split air conditioners and 4.0 TR Tower Air Conditioners: The work includes lifting & shifting, installation at it's existing foundation, fixing of out door and indoor unit, leak testing, Pipe brazing, gas charging & testing of 1.5 TR split A/C to restore it in normal working condition. Foundation shall be prepared by the BCPL. Also battery trolley shall be provided.	EA	6	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
2.4	Supply & replacement of faulty parts in case of failure with new one for 1.5/2.0 TR split air conditioners and 4.0 TR Tower Air Conditioners. The work includes replacement of faulty parts, installation of new parts & testing of air conditioners.	EA	---	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
2.4.1	Starting Capacitor 80-100 MFD	EA	10	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
2.4.2	Running Capacitor 36-80 MFD	EA	10	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
2.4.3	Starting Relay	EA	5	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
2.4.4	Thermostat	EA	5	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
2.4.5	Overload Relay	EA	5	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
2.4.6	Out door fan motor of split A/C	EA	5	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE

2.4.7	Out door fan blade of split A/C	EA	5	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
2.4.8	In door fan/blower motor of split A/C	EA	5	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
2.4.9	In door blower of split A/C	EA	5	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
2.4.10	Air filter of split A/C	EA	7	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
2.4.11	Control PCB of split A/C	EA	7	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
2.4.12	Remote control of split A/C	EA	4	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
2.4.13	Front grill of split A/C	EA	3	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
2.4.14	Fan motor rubber pad	EA	3	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
2.4.15	Compressor rubber pad	EA	4	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
2.4.16	Gas filter	EA	4	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
2.4.17	Drain Pipe	EA	10	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
2.4.18	Capillary tubes	M	20	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
2.4.19	Copper tubes 1/4"DIA	M	25	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
2.4.20	Copper tubes 3/8"DIA	M	25	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
2.4.21	Copper tubes 1/2"DIA	M	25	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
2.4.22	Copper tubes 5/8"DIA	M	25	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
2.4.23	Split A/Cs piping insulation cover of In-door and Out door unit pipes	M	25	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
2.4.24	Multi unit split A/Cs change over unit in case of one indoor unit failures	EA	10	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
ANNUAL MAINTENANCE ESTIMATE SOR FOR AMC OF PACKAGED A/Cs INSTALLED AT BCPL PLANT							
3.1	Quarterly PM of Package Air Conditioner Units at various locations job includes but not limited to attending complaints & rectifying the problems, checking of interlock of safety/ control device, checking of all electrical connections in unit, cleaning of coils with water/ Chemicals / recommended solutions, air pressure etc. as per direction of	EA	---	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE

	EIC.						
3.1.1	QPM of of the package AC Units as per existing make and ratings, ranging from 5.0 TR to 9.0TR	EA	10	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.1.2	QPM of of the package AC Units as per existing make and ratings, ranging from 9.0TR to 17.5 TR	EA	10	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.2	Attending & rectifying the problems as and when requirement basis, the work includes attending all complaints of Package Air Conditioner Units at various locations, job includes but not limited to attending all complaints & rectifying the problems, checking of interlock of safety/ control device, checking of all electrical connections in unit, if required cleaning to be done of coils with water and air pressure etc or as per direction of EIC.	EA	10	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.3	Complete overhauling of Package Air Conditioner Units at various locations job includes but not limited to attending all complaints & rectifying the problems, checking of interlock of safety/ control device, checking of all electrical connections in unit, cleaning of coils with water/ chemicals / recommended solutions, air pressure etc along with denting/painting works as when required basis or as per direction of EIC.	EA	---	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.3.1	Overhauling of the package AC Units as per existing make and ratings, ranging from 5.0 TR to 9.0TR	EA	5	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.3.2	Overhauling of the package AC Units as per existing make and ratings, ranging from 9.0TR to 17.5 TR	EA	5	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.4	Supply and recharging of refrigerant as per direction of EIC, brazing it to copper piping connections. Leak test to be carried out to detect any leakage in the system by nitrogen pressure. Vacuumize the system and charging with R-22/R-134A refrigerant (recommended gas as per manufacture) as per required and direction of EIC. The job also includes supply of the required refrigerant for filling and all other consumable required to complete the job and this work valid for six months followed by a leak test etc.	kg	50	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.5	Supply and replacement of the condenser /evaporator unit of the package AC in case of failure and not repairable with the new condenser /evaporator unit of package air conditioner unit raging from 5.0 TR to 16.5 TR. The work includes supply of recommended refrigerant, installation, testing and commissioning of supplied new condenser / evaporator unit in the equipment after leak testing, brazing it to copper piping connections, leak test to be carried out to detect any leakage in the Units and rectifying it vacuumized the system and charging with R-22 / R-134A Refrigerant (Gas as recommended by the manufacturer) as per requirement and direction of EIC. The work also includes supply of all others consumables required to complete the work. The faulty /Damage condenser/ evaporator unit will be the property of BCPL and to be shifted at designated BCPL Store.	EA	---	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.5.1	Supply and replacement of condenser unit of the package AC Units as per existing make and ratings, ranging from 5.0 TR to 9.0TR	EA	2	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE

3.5.2	Supply and replacement of condenser unit of the package AC Units as per existing make and ratings, ranging from 9.0TR to 16.5 TR	EA	2	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.5.3	Supply and replacement of evaporator unit of the package AC Units as per existing make and ratings, ranging from 5.0 TR to 16.5 TR	EA	2	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.5.4	Supply and replacement of evaporator unit of the package AC Units as per existing make and ratings, ranging from 9.0 TR to 16.5 TR	EA	2	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.6	Supply and replacement of below mentioned compressor in case failure with the new compressor for Package Air Conditioner Units ranging from 5.0 TR to 16.5 TR. The works includes but not limited to Supply of new compressor as per actual installed Make, Model and Rating (Range 5.0 TR to 16.5 TR) replacement of faulty compressor, installation & commissioning of new compressor in the equipment including supply & filling of recommended refrigerant gas after the leak test, brazing it to copper piping connection, leak test to be carried out to detect any leakage in the system and rectifying it. Vacuumized the systems and charging with R-22 OR R-134A Refrigerant OR Gas as recommended by the manufacturer as per requirement and direction of EIC. The works also includes supply /Charging of refrigerant gas and all other consumables required to the complete works. The faulty /Damage compressors will be the property of BCPL and to be shifted at designated BCPL Store and also the agency shall cover the supplied new compressor under the guaranty certificate period issued / covered by the manufacture .	EA	---	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.6.1	Compressor 5.0 TR to 9.0 TR Capacity (5.0, 5.5, 7.5, 8.5 & 9.0 TR)	EA	2	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.6.2	Compressor 11 TR to 16.5 TR Capacity (11 & 16.5 TR)	EA	2	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.7	Supply and replacement of the following accessories for the package air conditioner units ranging from 5.0 TR to 16.5 TR. If any fault/ abnormality is detected in it, the same shall be covered under the defect liability period as per SCC Part-B (Six month from date of installation) and the faulty /Damage materials will be the property of BCPL and to be shifted at designated BCPL Store.	EA	---	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.7.1	Thermostat	EA	4	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.7.2	Over load relay	EA	4	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.7.3	Blower motor	EA	3	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.7.4	Fan blade of blower motor	EA	3	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.7.5	Selector switch/rotary switch	EA	3	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.7.6	Knob for selector/rotary switch	EA	3	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE

3.7.7	Copper Tube 11/8, 5/8, 1/2 etc.	M	10	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.7.8	Bend/ Elbow 11/8, 5/8, 1/2 etc.	EA	10	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.7.9	LP/HP Cut Off Switch for 5.0/5.5/7.5/8.5/9.0/11.0/16.5 TR	EA	5	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.7.10	Expansion valve for 5.0/5.5/7.5/8.5/9.0/11.0/16.5 TR	EA	5	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.7.11	Dryer Filter to 5.0/5.5/7.5/8.5/9.0/11.0/16.5 TR Unit	EA	5	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.7.12	V-Belt size A-23 to A-41, B-32	EA	10	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.7.13	Hand set-up Valves 5/8", 3/8"	EA	8	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.7.14	Fan Blade for condenser blade	EA	3	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.7.15	Crankcase heater for compressor	EA	5	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.7.16	Compressor Contactor ranging from 5.0/5.5/7.5/8.5/9.0/11.0/16.5 TR	EA	2	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.7.17	Package unit blower motor Contactor ranging from 5.0/5.5/7.5/8.5/9.0/11.0/16.5 TR	EA	2	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.7.18	Package unit control relay ranging from 5.0/5.5/7.5/8.5/9.0/11.0/16.5 TR	EA	2	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.7.19	O/L Relay for compressor ranging from 5.0/5.5/7.5/8.5/9.0/11.0/16.5 TR	EA	2	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.7.20	O/L Relay for Package Unite Blower Motor for 5.0/5.5/7.5/8.5/9.0/11.0/16.5 TR	EA	2	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.7.21	Compressor Oil for R-22 or R-134A	L	10	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.8	Healthiness Checking of Package Air Conditioner Units by OEM and identification of faults at BCPL Plant	EA	6	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
4	AMC FOR DIRECT COOL REFRIGERATORS						
4.1	Supply & installation of new compressor including supply of R-12/134 Gas and charging for 60-180 ltrs in case of failure of the compressor of refrigerators capacity ranging from 60 -180 ltr the work includes replacement of faulty compressor, installation of new compressor.	EA	3	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
4.2	Supply & installation of new compressor including supply of R-12/134 Gas and charging for 181-210 ltrs in case of failure of the compressor of refrigerators capacity ranging from 181 -210 ltr the work includes replacement of faulty compressor, installation of new compressor.	EA	3	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE

4.3	Refurbishment of Refrigeration 60 to 210 Ltr with supply of all required consumable parts / materials, R-12/R-134A Refrigerant gas etc. the work includes but not limited to denting painting, welding, gas charging replacement of faulty compressor, installation and complete testing of Refrigeration etc,	EA	5	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
4.4	Supply and charging of R-12/R-134A Refrigerant gas in case of low pressure & leakage of refrigerant gas in refrigerators capacity ranging from 60-210 ltr. This work valid for six months followed by a leak test.	Kg	5	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
4.5	Attending & rectifying the problem the work includes attending all complaints of refrigerators capacity ranging from 60-210 ltr and rectifying it. during the maintenance all power and control circuit wiring shall be check.	EA	5	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
4.6	Overhauling / wet servicing the work includes complete overhauling of refrigerators capacity ranging from 60ltr upto 210 ltr during the maintenance the unit shall be thoroughly cleaned with water & detergents. All power and control circuit wiring shall be check	EA	5	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
4.7	Installation of refrigerator the work includes lifting & shifting , installation at its place & testing of refrigerator capacity ranging from 60-210 ltr to restore it in normal working	EA	5	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
4.8	Supply & replacement of faulty parts in case of failure with new one of refrigerator capacity ranging from 60 - 210 ltr the work includes replacement of faulty parts, installation of new parts & testing of refrigerator.	EA	---	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
4.8.1	Capacitor 3-5 MFD	EA	2	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
4.8.2	Starting relay	EA	2	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
4.8.3	Thermostat	EA	2	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
4.8.4	Overload relay	EA	2	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
4.8.5	Freezer	EA	1	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
4.8.6	Door gasket	M	2	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
4.8.7	Capillary tubes	M	4	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
4.8.8	Gas filter	EA	4	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
4.8.9	Freezer inner door	EA	1	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
4.8.10	Selector / rotary switch	EA	2	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
4.8.11	Knob for Selector / rotary switch	EA	2	DO NOT	DO NOT	DO NOT	DO NOT

				QUOTE	QUOTE	QUOTE	QUOTE
4.8.12	Condenser for refrigerator	EA	2	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
5.0	AMC FOR FROST FREEZE REFRIGERATORS						
5.1	Supply & installation of new compressor including supply of R-12/134 Gas and charging for 300-450 ltrs in case of failure of the compressor of refrigerators capacity ranging from 300-450 ltr the work includes replacement of faulty compressor, installation of new compressor.	EA	2	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
5.2	Supply & installation of new compressor including supply of R-12/134 Gas and charging for 470-530 ltrs in case of failure of the compressor of refrigerators capacity ranging from 181 -210 ltr the work includes replacement of faulty compressor, installation of new compressor.	EA	2	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
5.3	Refurbishment of Refrigeration 300 to 530 Ltr with supply of all required consumable parts / materials, R-12/R-134A Refrigerant gas etc. the work includes but not limited to denting painting, welding, gas charging replacement of faulty compressor, installation and complete testing of Refrigeration etc,	EA	7	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
5.4	Supply and charging of R-12/R-134A Refrigerant gas in case of low pressure & leakage of refrigerant gas in refrigerators capacity ranging from 300-530 ltr. This work valid for six months followed by a leak test.	KG	7	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
5.5	Attending & rectifying the problem the work includes attending all complaints of refrigerators capacity ranging from 300-530 ltr and rectifying it. During the maintenance all power and control circuit wiring shall be checked.	EA	7	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
5.6	Overhauling / wet servicing the work includes complete overhauling of refrigerators capacity ranging from 300-530 ltr during the maintenance the unit shall be thoroughly cleaned with water & detergents. All power and control circuit wiring shall be check	EA	7	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
5.7	Installation of refrigerator the work includes lifting & shifting , installation at its place & testing of refrigerator capacity ranging from 300-530 ltr to restore it in normal working	EA	7	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
5.8	Supply & replacement of faulty parts in case of failure with new one of refrigerator capacity ranging from 300-530 ltr the work includes replacement of faulty parts, installation of new parts & testing of refrigerator.	EA	---	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
5.8.1	Capacitor 5-10 MFD	EA	2	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
5.8.2	Starting relay	EA	2	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
5.8.3	Thermostat	EA	2	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
5.8.4	Overload relay	EA	2	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
5.8.5	Bimetal thermostat	EA	1	DO NOT	DO NOT	DO NOT	DO NOT

				QUOTE	QUOTE	QUOTE	QUOTE
5.8.6	Freezer cooling fan motor	EA	1	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
5.8.7	Freezer cooling fan blade	EA	1	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
5.8.8	Condenser	EA	1	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
5.8.9	Door gasket	EA	3	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
5.8.10	Capillary tubes	M	5	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
5.8.11	Gas filter	EA	4	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
5.8.12	Selector / rotary switch	EA	3	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
5.8.13	Knob for Selector / rotary switch	EA	3	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
5.8.14	Timer for refrigeration	EA	2	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
6	AMC FOR WATER COOLERS OF 20 TO 80 LTRS						
6.1	Supply & installation of new compressor of 20 lts including supply of R-21/134 Gas and charging in case of failure with the new compressor of water coolers. The work includes replacement of faulty compressor, installation of new compressor in the equipment, brazing it to be cooper pipe connections & leak test .	EA	3	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
6.2	Supply & installation of new compressor of 40 lts including supply of R-21/134 Gas and charging in case of failure with the new compressor of water coolers. The work includes replacement of faulty compressor, installation of new compressor in the equipment, brazing it to be cooper pipe connections & leak test.	EA	2	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
6.3	Supply & installation of new compressor of 80 lts including supply of R-21/134 Gas and charging in case of failure with the new compressor of water coolers. The work includes replacement of faulty compressor, installation of new compressor in the equipment, brazing it to be cooper pipe connections & leak test .	EA	3	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
6.4	Refurbishment of water cooler with supply of all required consumable parts / materials, R-12/R-134A Refrigerant gas etc. the work includes but not limited to denting painting, welding, gas charging replacement of faulty compressor, installation complete testing of Refrigeration etc, Only compressor supply in the scope of BCPL.	EA	6	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
6.5	Replacement of condenser fan motor in case of failure with the repaired motor of water cooler. The repaired motor shall be supplied by Vendor. The work includes dismantling of faulty motor, installation of repaired motor.	EA	4	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
6.6	Supply & charging of R-12/ R-134A refrigerant gas in case of low pressure or leakage	Kg	6	DO NOT	DO NOT	DO NOT	DO NOT

	of refrigerant gas with the new gas in water coolers. This work valid for six months followed by a leak test.			QUOTE	QUOTE	QUOTE	QUOTE
6.7	Attending & rectifying the problem the work includes attending all complaints of the water coolers and rectifying it. During the maintenance all power and defective component shall be replaced with new one which shall be paid separately.	EA	10	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
6.8	Overhauling / wet servicing the work includes complete overhauling of the water cooler. During the maintenance the unit shall be thoroughly cleaned with water & detergents .all power and control circuit wiring shall be checked	EA	20	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
6.9	Dry servicing the work includes complete cheking of the water cooler. During the dry servicing the unit shall be thoroughly cleaned with water & detergents .all power and control circuit wiring shall be checked	EA	20	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
7	Installation of water cooler the work includes lifting & shifting, installation at place & testing water coolers to be restore it normal working condition	EA	3	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
7.1	Supply & replacement of faulty parts in case of failure with the new one of water coolers. The work includes replacement of faulty parts, installation of new parts & testing of water coolers to be restore it in normal working	EA	---	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
7.1.1	Fan capacitor 2.5 MFD	EA	6	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
7.1.2	Running capacitor 10-20 MFD	EA	3	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
7.1.3	Starting capacitor 40-60 MFD	EA	3	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
7.1.4	Starting relay	EA	4	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
7.1.5	Thermostat	EA	4	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
7.1.6	Overload relay	EA	4	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
7.1.7	Door gasket	EA	4	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
7.1.8	Float valve	EA	4	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
7.1.9	Drain tap	EA	3	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
7.1.10	Drain tray	EA	3	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
7.1.11	Drain pipe	M	3	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
7.1.12	Condenser fan motor	EA	3	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
7.1.13	Condenser fan blade	EA	3	DO NOT	DO NOT	DO NOT	DO NOT

				QUOTE	QUOTE	QUOTE	QUOTE
7.1.14	Condenser Coil	EA	3	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
7.1.15	Capillary tubes	M	4	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
7.1.16	Gas filter	EA	4	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
ANNUAL MAINTENANCE ESTIMATE SOR FOR AMC OF EXPLOSION PROOF HVAC SYSTEMS INSTALLED AT DIFFERENT ANALYZER ROOMS OF BCPL PLANT							
Details	Power supply : 415 V ac , 50Hz, 3Ph.						
	Make : EXACSYS (Axis Engineering Pvt Ltd) , Qty -12 nos & Custom Control Company , Qty-01 no.						
	Capacity : 5 Ton (02 nos) , 4 Ton (07 nos) , 3 Ton (03 nos) , 2 ton (01 no).						
	Refrigerant : R134a (12 nos) , R410a (01 no) .						
	Area Classification: Zone 2, Gas Gr. IIA, IIB						
AMC OF HVAC SYSTEMS:							
1.0	Replacement of compressor including supply of R-134a/R-410a Gas and charging in case of failure with the compressor of 2.0 TR TO 3.0 TR HVAC SYSTEM the work includes replacement of faulty compressor , installation of new compressor in the equipment, brazing it to copper piping connections only, the compressor supply in the scope of BCPL .	EA	1	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
2.0	Replacement of compressor including supply of R-134a/R-410a Gas and charging in case of failure with the compressor of 4.0 TR TO 5.0 TR HVAC SYSTEM the work includes replacement of faulty compressor , installation of new compressor in the equipment, brazing it to copper piping connections only, the compressor supply in the scope of BCPL .	EA	1	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
3.0	Supply & charging of R-134a/R-410a refrigerant gas in case of low pressure & leakage of refrigerant gas in HVAC SYSTEMS. This work shall have guarantee for six months followed by a leak test.	Kg	20	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
4.0	Attending & rectifying the problem including attending all complaints of the HVAC SYSTEMS and rectifying it . During the maintenance the air filter shall be cleaned.	EA	10	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
5.0	Dry Cleaning of HVAC SYSTEMS including filter with cooling and condenser coils.	EA	10	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
6.0	Overhauling / wet servicing the work includes complete overhauling of the HVAC SYSTEMS during the maintenance the unit shall be thoroughly cleaned with water & detergents. All power and control circuit wiring shall be checked.	EA	10	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE	DO NOT QUOTE
GRAND TOTAL:							DO NOT QUOTE

SERVICE TAX = _____ DO NOT QUOTE

GRAND TOTAL IN WORDS- DO NOT QUOTE

Note :

1. Quoted rates should be as per Scope of Work.
2. Bidders are required to quote the rates strictly as per the above SOR and not to use any other format.
3. Rates should be quoted including all taxes & duties except Service tax. Service tax shall be quoted separately as per Format.
4. Quantities shown in the SOR is tentative which may increase or decrease.
5. Bidders are advised not to mention rebate/ discount separately, either in the SOR format or anywhere else in the offer. In case bidder(s) intend to offer any rebate / discount, they should include the same in the item rate(s) itself under the "SCHEDULE OF RATES (SOR)" and indicate the discounted unit rate(s) only.
6. In case, it is observed that any of the bidder(s) has/have mentioned discount/ rebate separately, the same shall not be considered for evaluation. However, in the event of the bidder emerging as the lowest bidder, the discount/ rebate offered by the bidder shall be considered for award of work and the same will be conclusive and binding on the bidder.

Date:

*Name of authorized person submitting the tender on behalf
of the Bidder :*

Designation of authorized person:

Name of firm / Contractor:

Address of firm / Contractor:

Date:

SCHEDULE OF RATES [PRICED BID]

BIDDER TO MENTION PRICE IN PRICED SOR

**ANNUAL MAINTENANCE ESTIMATE SOR FOR AMC OF SPLIT A/Cs, TOWER A/Cs,
WATER COOLERS & REFRIGERATORS INSTALLED AT BCPL PLANT OF
LEPETKATA/DULIAJAN & BCPL TOWNSHIP FOR A PERIOD OF TWO YEARS**

TENDER NO: BCPL/C&P/ LE16W107AS

SL No.	Description of Items (Model)	Unit	Qty.	Unit Rate (Rs.) (In figure)	Unit Rate (Rs.) (In words)	Total Amount (Rs.) (In figure)	Total Amount (Rs.) (In words)
		A	B	C	D	E=(BXC)	
AMC OF 1.5/2.0 TR SPLIT A/Cs and 4.0 TR Tower A/Cs							
1.0	Replacement of compressor including supply of R-22 Gas and charging in case of failure with the compressor of 1.5 TR split air conditioners the work includes replacement of faulty compressor , installation of new compressor in the equipment, brazing it to copper piping connections only, the compressor supply in the scope of BCPL .	EA	2				
1.1	Replacement of compressor including supply of R-22 Gas and charging in case of failure with the compressor of 2.0 TR split air conditioners the work includes replacement of faulty compressor , installation of new compressor in the equipment, brazing it to copper piping connections only, the compressor supply in the scope of BCPL .	EA	2				
1.2	Replacement of compressor including supply of R-22 Gas and charging in case of failure with the compressor of 4.0 TR Tower air conditioners the work includes replacement of faulty compressor , installation of new compressor in the equipment, brazing it to copper piping connections only, the compressor supply in the scope of BCPL .	EA	1				
1.3	Supply & installation of new compressor including supply of R-22 Gas and charging in case of failure with the compressor of 1.5 TR split air conditioners the work includes replacement of faulty compressor, installation of new compressor in the equipment, brazing it to copper piping connections, the same make new compressor supply in the scope of Vendor .	EA	10				
1.4	Supply & installation of new compressor including supply of R-22 Gas and charging in case of failure with the compressor of 2.0 TR split air conditioners the work includes replacement of faulty compressor, installation of new compressor in the equipment, brazing it to copper piping connections, the same make new compressor supply in the scope of Vendor .	EA	5				
1.5	Supply & installation of new compressor including supply of R-22 Gas and charging in case of failure with the compressor of 4.0 TR Tower air conditioners the work	EA	2				

	includes replacement of faulty compressor, installation of new compressor in the equipment, brazing it to copper piping connections, the same make new compressor supply in the scope of Vendor .						
1.6	Supply & installation of 1.5 Ton complete Body Kit of Split Air Conditioner without compressor	EA	5				
1.7	Supply & installation of 2.0 Ton complete Body Kit of Split Air Conditioner without compressor	EA	3				
1.8	Supply & installation of 4.0 Ton complete Body Kit of Tower Air Conditioner without compressor	EA	2				
1.9	Supply & charging of R-22 refrigerant gas in case of low pressure & leakage of refrigerant gas in 1.5/2.0 TR split air conditioners and 4.0 TR Tower air conditioners. This work shall have guarantee for six months followed by a leak test.	Kg	50				
2.0	Attending & rectifying the problem including attending all complaints of the 1.5/2.0 TR split air conditioners and 4.0 TR Tower A/Cs and rectifying it . During the maintenance the air filter shall be cleaned .	EA	100				
2.1	Dry Cleaning of 1.5/ 2.0TR Split Air conditioners and 4.0 TR Tower Air Conditioners including filter with cooling and condenser coils.	EA	120				
2.2	Overhauling/ wet servicing the work includes complete overhauling of the 1.5/2.0 TR split air conditioners and 4.0 TR Tower A/Cs during the maintenance the unit shall be thoroughly cleaned with water & detergents. All power and control circuit wiring shall be checked.	EA	120				
2.3	Installation of 1.5/2.0 Ton split air conditioners and 4.0 TR Tower Air Conditioners: The work includes lifting & shifting, installation at it's existing foundation, fixing of out door and indoor unit, leak testing, Pipe brazing, gas charging & testing of 1.5 TR split A/C to restore it in normal working condition. Foundation shall be prepared by the BCPL. Also battery trolley shall be provided.	EA	6				
2.4	Supply & replacement of faulty parts in case of failure with new one for 1.5/2.0 TR split air conditioners and 4.0 TR Tower Air Conditioners. The work includes replacement of faulty parts, installation of new parts & testing of air conditioners.	EA	---				
2.4.1	Starting Capacitor 80-100 MFD	EA	10				
2.4.2	Running Capacitor 36-80 MFD	EA	10				
2.4.3	Starting Relay	EA	5				
2.4.4	Thermostat	EA	5				
2.4.5	Overload Relay	EA	5				
2.4.6	Out door fan motor of split A/C	EA	5				
2.4.7	Out door fan blade of split A/C	EA	5				
2.4.8	In door fan/blower motor of split A/C	EA	5				
2.4.9	In door blower of split A/C	EA	5				

2.4.10	Air filter of split A/C	EA	7				
2.4.11	Control PCB of split A/C	EA	7				
2.4.12	Remote control of split A/C	EA	4				
2.4.13	Front grill of split A/C	EA	3				
2.4.14	Fan motor rubber pad	EA	3				
2.4.15	Compressor rubber pad	EA	4				
2.4.16	Gas filter	EA	4				
2.4.17	Drain Pipe	EA	10				
2.4.18	Capillary tubes	M	20				
2.4.19	Copper tubes 1/4"DIA	M	25				
2.4.20	Copper tubes 3/8"DIA	M	25				
2.4.21	Copper tubes 1/2"DIA	M	25				
2.4.22	Copper tubes 5/8"DIA	M	25				
2.4.23	Split A/Cs piping insulation cover of In-door and Out door unit pipes	M	25				
2.4.24	Multi unit split A/Cs change over unit in case of one indoor unit failures	EA	10				
ANNUAL MAINTENANCE ESTIMATE SOR FOR AMC OF PACKAGED A/Cs INSTALLED AT BCPL PLANT							
3.1	Quarterly PM of Package Air Conditioner Units at various locations job includes but not limited to attending complaints & rectifying the problems, checking of interlock of safety/ control device, checking of all electrical connections in unit, cleaning of coils with water/ Chemicals / recommended solutions, air pressure etc. as per direction of EIC.	EA	---				
3.1.1	QPM of the package AC Units as per existing make and ratings, ranging from 5.0 TR to 9.0TR	EA	10				
3.1.2	QPM of the package AC Units as per existing make and ratings, ranging from 9.0TR to 17.5 TR	EA	10				
3.2	Attending & rectifying the problems as and when requirement basis, the work includes attending all complaints of Package Air Conditioner Units at various locations, job includes but not limited to attending all complaints & rectifying the problems, checking of interlock of safety/ control device, checking of all electrical connections in unit, if required cleaning to be done of coils with water and air pressure etc or as per direction of EIC.	EA	10				
3.3	Complete overhauling of Package Air Conditioner Units at various locations job includes but not limited to attending all complaints & rectifying the problems, checking of interlock of safety/ control device, checking of all electrical connections in unit, cleaning of coils with water/ chemicals / recommended solutions, air pressure etc along with denting/ painting works as when required basis or as per direction of EIC.	EA	---				

3.3.1	Overhauling of the package AC Units as per existing make and ratings, ranging from 5.0 TR to 9.0TR	EA	5				
3.3.2	Overhauling of the package AC Units as per existing make and ratings, ranging from 9.0TR to 17.5 TR	EA	5				
3.4	Supply and recharging of refrigerant as per direction of EIC, brazing it to copper piping connections. Leak test to be carried out to detect any leakage in the system by nitrogen pressure. Vacuumize the system and charging with R-22/R-134A refrigerant (recommended gas as per manufacture) as per required and direction of EIC. The job also includes supply of the required refrigerant for filling and all other consumable required to complete the job and this work valid for six months followed by a leak test etc.	kg	50				
3.5	Supply and replacement of the condenser /evaporator unit of the package AC in case of failure and not repairable with the new condenser /evaporator unit of package air conditioner unit ranging from 5.0 TR to 16.5 TR. The work includes supply of recommended refrigerant, installation, testing and commissioning of supplied new condenser / evaporator unit in the equipment after leak testing, brazing it to copper piping connections, leak test to be carried out to detect any leakage in the Units and rectifying it vacuumized the system and charging with R-22 / R-134A Refrigerant (Gas as recommended by the manufacturer) as per requirement and direction of EIC. The work also includes supply of all others consumables required to complete the work. The faulty /Damage condenser/ evaporator unit will be the property of BCPL and to be shifted at designated BCPL Store.	EA	---				
3.5.1	Supply and replacement of condenser unit of the package AC Units as per existing make and ratings, ranging from 5.0 TR to 9.0TR	EA	2				
3.5.2	Supply and replacement of condenser unit of the package AC Units as per existing make and ratings, ranging from 9.0TR to 16.5 TR	EA	2				
3.5.3	Supply and replacement of evaporator unit of the package AC Units as per existing make and ratings, ranging from 5.0 TR to 16.5 TR	EA	2				
3.5.4	Supply and replacement of evaporator unit of the package AC Units as per existing make and ratings, ranging from 9.0 TR to 16.5 TR	EA	2				
3.6	Supply and replacement of below mentioned compressor in case failure with the new compressor for Package Air Conditioner Units ranging from 5.0 TR to 16.5 TR. The works includes but not limited to Supply of new compressor as per actual installed Make, Model and Rating (Range 5.0 TR to 16.5 TR) replacement of faulty compressor, installation & commissioning of new compressor in the equipment including supply & filling of recommended refrigerant gas after the leak test, brazing it to copper piping connection, leak test to be carried out to detect any leakage in the system and rectifying it. Vacuumized the systems and charging with R-22 OR R-134A Refrigerant OR Gas as recommended by the manufacturer as per requirement and direction of EIC. The works also includes supply /Charging of refrigerant gas and all	EA	---				

	other consumables required to the complete works. The faulty /Damage compressors will be the property of BCPL and to be shifted at designated BCPL Store and also the agency shall cover the supplied new compressor under the guaranty certificate period issued / covered by the manufacture.						
3.6.1	Compressor 5.0 TR to 9.0 TR Capacity (5.0, 5.5, 7.5, 8.5 & 9.0 TR)	EA	2				
3.6.2	Compressor 11 TR to 16.5 TR Capacity (11 & 16.5 TR)	EA	2				
3.7	Supply and replacement of the following accessories for the package air conditioner units ranging from 5.0 TR to 16.5 TR. If any fault/ abnormality is detected in it, the same shall be covered under the defect liability period as per SCC Part-B (Six month from date of installation) and the faulty /Damage materials will be the property of BCPL and to be shifted at designated BCPL Store.	EA	---				
3.7.1	Thermostat	EA	4				
3.7.2	Over load relay	EA	4				
3.7.3	Blower motor	EA	3				
3.7.4	Fan blade of blower motor	EA	3				
3.7.5	Selector switch/rotary switch	EA	3				
3.7.6	Knob for selector/rotary switch	EA	3				
3.7.7	Copper Tube 11/8, 5/8, 1/2 etc.	M	10				
3.7.8	Bend/ Elbow 11/8, 5/8, 1/2 etc.	EA	10				
3.7.9	LP/HP Cut Off Switch for 5.0/5.5/7.5/8.5/9.0/11.0/16.5 TR	EA	5				
3.7.10	Expansion valve for 5.0/5.5/7.5/8.5/9.0/11.0/16.5 TR	EA	5				
3.7.11	Dryer Filter to 5.0/5.5/7.5/8.5/9.0/11.0/16.5 TR Unit	EA	5				
3.7.12	V-Belt size A-23 to A-41, B-32	EA	10				
3.7.13	Hand set-up Valves 5/8", 3/8"	EA	8				
3.7.14	Fan Blade for condenser blade	EA	3				
3.7.15	Crankcase heater for compressor	EA	5				
3.7.16	Compressor Contactor ranging from 5.0/5.5/7.5/8.5/9.0/11.0/16.5 TR	EA	2				
3.7.17	Package unit blower motor Contactor ranging from 5.0/5.5/7.5/8.5/9.0/11.0/16.5 TR	EA	2				
3.7.18	Package unit control relay ranging from 5.0/5.5/7.5/8.5/9.0/11.0/16.5 TR	EA	2				
3.7.19	O/L Relay for compressor ranging from 5.0/5.5/7.5/8.5/9.0/11.0/16.5 TR	EA	2				
3.7.20	O/L Relay for Package Unite Blower Motor for 5.0/5.5/7.5/8.5/9.0/11.0/16.5 TR	EA	2				
3.7.21	Compressor Oil for R-22 or R-134A	L	10				
3.8	Healthiness Checking of Package Air Conditioner Units by OEM and identification of faults at BCPL Plant	EA	6				
4	AMC FOR DIRECT COOL REFRIGERATORS						

4.1	Supply & installation of new compressor including supply of R-12/134 Gas and charging for 60-180 ltrs in case of failure of the compressor of refrigerators capacity ranging from 60 -180 ltr the work includes replacement of faulty compressor, installation of new compressor.	EA	3				
4.2	Supply & installation of new compressor including supply of R-12/134 Gas and charging for 181-210 ltrs in case of failure of the compressor of refrigerators capacity ranging from 181 -210 ltr the work includes replacement of faulty compressor, installation of new compressor.	EA	3				
4.3	Refurbishment of Refrigeration 60 to 210 Ltr with supply of all required consumable parts / materials, R-12/R-134A Refrigerant gas etc. the work includes but not limited to denting painting, welding, gas charging replacement of faulty compressor, installation and complete testing of Refrigeration etc,	EA	5				
4.4	Supply and charging of R-12/R-134A Refrigerant gas in case of low pressure & leakage of refrigerant gas in refrigerators capacity ranging from 60-210 ltr. This work valid for six months followed by a leak test.	Kg	5				
4.5	Attending & rectifying the problem the work includes attending all complaints of refrigerators capacity ranging from 60-210 ltr and rectifying it. During the maintenance all power and control circuit wiring shall be check.	EA	5				
4.6	Overhauling / wet servicing the work includes complete overhauling of refrigerators capacity ranging from 60ltr upto 210 ltr during the maintenance the unit shall be thoroughly cleaned with water & detergents. All power and control circuit wiring shall be check	EA	5				
4.7	Installation of refrigerator the work includes lifting & shifting , installation at its place & testing of refrigerator capacity ranging from 60-210 ltr to restore it in normal working	EA	5				
4.8	Supply & replacement of faulty parts in case of failure with new one of refrigerator capacity ranging from 60 - 210 ltr the work includes replacement of faulty parts, installation of new parts & testing of refrigerator.	EA	---				
4.8.1	Capacitor 3-5 MFD	EA	2				
4.8.2	Starting relay	EA	2				
4.8.3	Thermostat	EA	2				
4.8.4	Overload relay	EA	2				
4.8.5	Freezer	EA	1				
4.8.6	Door gasket	M	2				
4.8.7	Capillary tubes	M	4				
4.8.8	Gas filter	EA	4				
4.8.9	Freezer inner door	EA	1				
4.8.10	Selector / rotary switch	EA	2				

4.8.11	Knob for Selector / rotary switch	EA	2				
4.8.12	Condenser for refrigerator	EA	2				
5.0	AMC FOR FROST FREEZE REFRIGERATORS						
5.1	Supply & installation of new compressor including supply of R-12/134 Gas and charging for 300-450 ltrs in case of failure of the compressor of refrigerators capacity ranging from 300-450 ltr the work includes replacement of faulty compressor, installation of new compressor.	EA	2				
5.2	Supply & installation of new compressor including supply of R-12/134 Gas and charging for 470-530 ltrs in case of failure of the compressor of refrigerators capacity ranging from 181 -210 ltr the work includes replacement of faulty compressor, installation of new compressor.	EA	2				
5.3	Refurbishment of Refrigeration 300 to 530 Ltr with supply of all required consumable parts / materials, R-12/R-134A Refrigerant gas etc. the work includes but not limited to denting painting, welding, gas charging replacement of faulty compressor, installation and complete testing of Refrigeration etc,	EA	7				
5.4	Supply and charging of R-12/R-134A Refrigerant gas in case of low pressure & leakage of refrigerant gas in refrigerators capacity ranging from 300-530 ltr. This work valid for six months followed by a leak test.	KG	7				
5.5	Attending & rectifying the problem the work includes attending all complaints of refrigerators capacity ranging from 300-530 ltr and rectifying it. During the maintenance all power and control circuit wiring shall be checked.	EA	7				
5.6	Overhauling / wet servicing the work includes complete overhauling of refrigerators capacity ranging from 300-530 ltr during the maintenance the unit shall be thoroughly cleaned with water & detergents. All power and control circuit wiring shall be check	EA	7				
5.7	Installation of refrigerator the work includes lifting & shifting , installation at its place & testing of refrigerator capacity ranging from 300-530 ltr to restore it in normal working	EA	7				
5.8	Supply & replacement of faulty parts in case of failure with new one of refrigerator capacity ranging from 300-530 ltr the work includes replacement of faulty parts, installation of new parts & testing of refrigerator.	EA	---				
5.8.1	Capacitor 5-10 MFD	EA	2				
5.8.2	Starting relay	EA	2				
5.8.3	Thermostat	EA	2				
5.8.4	Overload relay	EA	2				
5.8.5	Bimetal thermostat	EA	1				
5.8.6	Freezer cooling fan motor	EA	1				
5.8.7	Freezer cooling fan blade	EA	1				
5.8.8	Condenser	EA	1				

5.8.9	Door gasket	EA	3				
5.8.10	Capillary tubes	M	5				
5.8.11	Gas filter	EA	4				
5.8.12	Selector / rotary switch	EA	3				
5.8.13	Knob for Selector / rotary switch	EA	3				
5.8.14	Timer for refrigeration	EA	2				
6	AMC FOR WATER COOLERS OF 20 TO 80 LTRS						
6.1	Supply & installation of new compressor of 20lts including supply of R-21/134 Gas and charging in case of failure with the new compressor of water coolers. The work includes replacement of faulty compressor, installation of new compressor in the equipment, brazing it to be cooper pipe connections & leak test .	EA	3				
6.2	Supply & installation of new compressor of 40lts including supply of R-21/134 Gas and charging in case of failure with the new compressor of water coolers. The work includes replacement of faulty compressor, installation of new compressor in the equipment, brazing it to be cooper pipe connections & leak test .	EA	2				
6.3	Supply & installation of new compressor of 80lts including supply of R-21/134 Gas and charging in case of failure with the new compressor of water coolers. The work includes replacement of faulty compressor, installation of new compressor in the equipment, brazing it to be cooper pipe connections & leak test .	EA	3				
6.4	Refurbishment of water cooler with supply of all required consumable parts / materials, R-12/R-134A Refrigerant gas etc. the work includes but not limited to denting painting, welding, gas charging replacement of faulty compressor, installation complete testing of Refrigeration etc, Only compressor supply in the scope of BCPL.	EA	6				
6.5	Replacement of condenser fan motor in case of failure with the repaired motor of water cooler. The repaired motor shall be supplied by Vendor. The work includes dismantling of faulty motor, installation of repaired motor.	EA	4				
6.6	Supply & charging of R-12/ R-134A refrigerant gas in case of low pressure or leakage of refrigerant gas with the new gas in water coolers. This work valid for six months followed by a leak test.	Kg	6				
6.7	Attending & rectifying the problem the work includes attending all complaints of the water coolers and rectifying it. During the maintenance all power and defective component shall be replaced with new one which shall be paid separately.	EA	10				
6.8	Overhauling / wet servicing the work includes complete overhauling of the water cooler. During the maintenance the unit shall be thoroughly cleaned with water & detergents .all power and control circuit wiring shall be checked	EA	20				
6.9	Dry servicing the work includes complete cheking of the water cooler. During the dry servicing the unit shall be thoroughly cleaned with water & detergents .all power and control circuit wiring shall be checked	EA	20				

7	Installation of water cooler the work includes lifting & shifting, installation at place & testing water coolers to be restore it normal working condition	EA	3				
7.1	Supply & replacement of faulty parts in case of failure with the new one of water coolers. The work includes replacement of faulty parts, installation of new parts & testing of water coolers to be restore it in normal working	EA	---				
7.1.1	Fan capacitor 2.5 MFD	EA	6				
7.1.2	Running capacitor 10-20 MFD	EA	3				
7.1.3	Starting capacitor 40-60 MFD	EA	3				
7.1.4	Starting relay	EA	4				
7.1.5	Thermostat	EA	4				
7.1.6	Overload relay	EA	4				
7.1.7	Door gasket	EA	4				
7.1.8	Float valve	EA	4				
7.1.9	Drain tap	EA	3				
7.1.10	Drain tray	EA	3				
7.1.11	Drain pipe	M	3				
7.1.12	Condenser fan motor	EA	3				
7.1.13	Condenser fan blade	EA	3				
7.1.14	Condenser Coil	EA	3				
7.1.15	Capillary tubes	M	4				
7.1.16	Gas filter	EA	4				

ANNUAL MAINTENANCE ESTIMATE SOR FOR AMC OF EXPLOSION PROOF HVAC SYSTEMS INSTALLED AT DIFFERENT ANALYZER ROOMS OF BCPL PLANT

Details	Power supply : 415 V ac, 50Hz, 3Ph. Make : EXACSYS (Axis Engineering Pvt Ltd) , Qty -12 nos & Custom Control Company , Qty-01 no. Capacity : 5 Ton (02 nos) , 4 Ton (07 nos) , 3 Ton (03 nos) , 2 ton (01 no). Refrigerant : R134a (12 nos) , R410a (01 no) . Area Classification: Zone 2, Gas Gr. IIA, IIB
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AMC OF HVAC SYSTEMS:

1.0	Replacement of compressor including supply of R-134a/R-410a Gas and charging in case of failure with the compressor of 2.0 TR TO 3.0 TR HVAC SYSTEM the work includes replacement of faulty compressor , installation of new compressor in the equipment, brazing it to copper piping connections only, the compressor supply in the scope of BCPL .	EA	1				
2.0	Replacement of compressor including supply of R-134a/R-410a Gas and charging in case of failure with the compressor of 4.0 TR TO 5.0 TR HVAC SYSTEM the work	EA	1				

	includes replacement of faulty compressor , installation of new compressor in the equipment, brazing it to copper piping connections only, the compressor supply in the scope of BCPL .						
3.0	Supply & charging of R-134a/R-410a refrigerant gas in case of low pressure & leakage of refrigerant gas in HVAC SYSTEMS . This work shall have guarantee for six months followed by a leak test.	Kg	20				
4.0	Attending & rectifying the problem including attending all complaints of the HVAC SYSTEMS and rectifying it . During the maintenance the air filter shall be cleaned.	EA	10				
5.0	Dry Cleaning of HVAC SYSTEMS including filter with cooling and condenser coils.	EA	10				
6.0	Overhauling / wet servicing the work includes complete overhauling of the HVAC SYSTEMS during the maintenance the unit shall be thoroughly cleaned with water & detergents. All power and control circuit wiring shall be checked.	EA	10				
GRAND TOTAL:							

SERVICE TAX = _____

GRAND TOTAL IN WORDS-

Note :

1. Quoted rates should be as per Scope of Work.
2. Bidders are required to quote the rates strictly as per the above SOR and not to use any other format.
3. Rates should be quoted including all taxes & duties except Service tax. Service tax shall be quoted separately as per Format.
4. Quantities shown in the SOR is tentative which may increase or decrease.
5. Bidders are advised not to mention rebate/ discount separately, either in the SOR format or anywhere else in the offer. In case bidder(s) intend to offer any rebate / discount, they should include the same in the item rate(s) itself under the "SCHEDULE OF RATES (SOR)" and indicate the discounted unit rate(s) only.
6. In case, it is observed that any of the bidder(s) has/have mentioned discount/rebate separately, the same shall not be considered for evaluation. However, in the event of the bidder emerging as the lowest bidder, the discount/ rebate offered by the bidder shall be considered for award of work and the same will be conclusive and binding on the bidder.

Date:

*Name of authorized person submitting the tender on behalf
of the Bidder :*

Designation of authorized person:

Name of firm/ Contractor:

Address of firm/ Contractor:

Date:
