

SCOPE OF WORK

The Scope Of work For Comprehensive Annual Maintenance contract of 250 Ton Chillers of following Make with VFD Qty-03 Nos.

Details of Chiller

Make	M/s Voltas Ltd- QTY -2Nos	M/s Daikin Air Conditioning India PVT Ltd- QTY -1 no.
Model	ACEGWFXVXR2501MCP2	PFS245-1DBRYV
Type	Flooded	Flooded
Sr. No	D000014 & D000015	0000101
Capacity	250 TR	237.4 TR
Compressor make and Model	HANBELL/Screw Compressor VLX 830	Mono screw Daikin
VFD Make	Schneider Electric	Danfoss
Date of commissioning	March 2018	March 2017

1. Any failure in the VFD panel including all hardware PCBs Display board, semiconductor Fuses and Electrical work etc (VFD Panel as a whole unit) to be repaired/replaced within a 15days.
2. Failure of compressor and motor as a whole unit to be repaired/replaced within 15 days.
3. All peripheral spares in the chiller system to be replaced/repared within 15 days.
4. Checking lubrication oil for discoloration or contamination and the top up or replacement if required full quantity of lubrication oil to be supplied and filled as and when required.
5. Check through liquid sight glasses to determine for refrigerant, full quantity of Gas including supply and Filling as and when required).
6. Inspecting the unit for leaks with a soap solution.
7. Inspect entire system for any unusual condition such as noise vibration etc.
8. Check the system operating pressure and temperature to ensure proper operating conditions.
9. Check evaporator and condenser working temperature/condition if any regarding scaling effects.
10. Check chilled water flow by checking pressure draw across the chiller.
11. Compare the chilled water temperature at full load with the chilled water temperature control Compare the condenser water flow is it as per the set value.
12. Inspect all safety controls and electrical controls in VFD adjust if required.
13. VFD cubical (panel to be open every quarter cycle and all electrical terminations to be tightened and any abnormality to be rectified / reported to be open the compressor panel and check all electrical terminations and Hardware/software PCB panel and microprocessor if required including supply installation testing and commission of spares / repair complete.
14. Inspect all operating control and sequence of operation.
15. Descaling of condenser by manual brushing of tubes once in period of contract.
16. Descaling of evaporator by manual brushing of tubes once in period of contract.
17. Review daily operating log maintained by operating personal / status in software and advise any operation improvement to operating Engineer Report in writing on any detected deficiencies.
18. Check the motor insulation and terminations and if required tightened yearly adjustments of controls if required.
19. Oil flow switch/ Solenoid valves, etc in the system if needed to be supplied and replaced
20. Water Flow switch (evaporator and condenser) etc in the system if needed to be supplied and replaced.
21. High pressure and low pressure cut-outs if any needed to be supplied and replaced.
22. Thermostatic expansion valve which controls liquid flow to compressor.
23. Any breakdown call to be attended for maintenance and repair work during regular working hours, 7Days per week, Holidays and weekend accepted.
24. Optimum working performance of chiller in all seasons (summer, monsoon, winter) to be monitor and to be documented for future..
25. Ensure availability of Required Software and genuine spares, testing equipments, etc of Voltas and Daikin chiller of 250 Ton.
Note: Any Break down the complete chiller system to be put through within 15 days. Any delay in repair will be charged on the basis of 0.5% per week AMC cost as penalty.

NOTE: Bidders are Requested to visit the site and go through the centralised Air conditioning water cooled plant and its associated parts before quoting/participating.

Hemanth
13/11/2023
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