**Annexure-I**

**SPECIFICATION OF DRY AIR GENERATOR PLANT (HEATLESS TYPE)**

1. The dry air generator plant (heatless type) shall be of Trolley Mounted type.
2. There shall be 2 nos. air compressors of reciprocating type which will be used in combination to achieve the required capacity. The details of the said compressors shall be as below:
3. Capacity: 80 CFM(136 cubic M/hr collective if 2 compressors)
4. Type : Oil free (non lubricated)
5. Working pressure : 7kg/cm2
6. Air receiver tank : 500ltrs capacity (2nos.)
7. Outlet air pressure through Regulator : 0-1.5kg/cm2 manually regulated.
8. Particle size at Outlet : < 0.5 micron.
9. Air quality at outlet : In line with class 1.1.0 as per ISO 8573
10. The dryer system shall consist of Refrigerated dryer for initially bringing down the dew point to (+) 3 to (+) 5 degree C and the subsequent reduction in Dew point will be throught a twin column. Heatess Refrigerative dryer to attain a Dew point of minus 70 Degree C.
11. The entire unit shall be mounted on a sturdy base and provided with pneumatic wheel (min 12 inch diameter). Lifting hooks shall be provided. The unit will be provided with a roof and a weather proof encloure.
12. The Dry air generator unit shall be suitable for outdoor use. The plant shall have adequate strength and rigidity to withstand handling during normal as well as transport condition.
13. The Plant shall be equipped with all necessary instrumentation of pressure and temperature.
14. Digital online type dew point meter shall be provided with the Plant. Range (-) 100 to (+) 20 Deg C.
15. The equiptment will be provided with 1 No air hose of 25NB dia and 20 mtrs length.
16. The Plant shall be suitable for operation on 415V, 3-ph, 4 wire, 50 Hz, Ac supply.
17. The Air dryer Plant shall be provided with electrical cable of suitable size having length 20 mtrs.
18. The following mandatory spares shall be supplied along with the plants.
19. Set of gaskets and 'O' rings - 1 set
20. Switches : - 2 sets
21. Filters : - 2 sets