

Technical Specifications for Dehydrator

Specifications for Dehydrator with tubing & Accessories for pressurization in entire RF Cable Air dielectric cable and Antenna System

1) Scope : 2 No.s of Dehydrators are required for AIR Kumbakonam- 1No. and Shimoga -1

2) TECHNICAL SPECIFICATIONS:

Sr. No.	Parameter	Specification	Tenderer's compliance (Numerical value to be given wherever applicable)
1	Dehydrator Type	Automatic	
2	Operating Voltage	Single Phase, 230V AC 50 Hz	
3	Output Capacity	0.08 litres/sec or better	
4	Output Dew Point	-40°C (-40°F) or better	
5	Output Pressure	Adjustable from 13 kPa to 50 kPa or better	
6	Maximum continuous operating	Details to be given by Tenderer	
7	Output fitting	Compatible with RF cable - Andrews HJ8-50 B cable	
8	Output air dew point	Better than -40°Cat 95% relative humidity input.	
7	Ambient Inlet Temperature	≤ 49°C	
8	Ambient Humidity	Maximum 95 %	
9	Acoustic Noise	< 50 dBA	
10	Alarm	Low Outlet Air Pressure	
11	Metering	Outlet Air Pressure	
12	Dimensions , H x WxD	Details to be given by Tenderer	
13	Net weight (Kg)	Details to be given by Tenderer	

3). ESSENTIAL FEATURES:

- a) The offered equipment should be from an internationally reputed manufacturer and the quoted model should be field proven and in use by leading broadcasters.
- b) The Dehydrator should be rugged in construction and reliable which can pressurize the Co-axial Transmission cable.
- c) The Dehydrator should include a self-contained automated air
- d) Drying system that utilizes a pressure swing moisture absorption cycle to provide pressurized dry air while continuously purging the collected moisture to the atmosphere.
- e) The offered system should be suitable for unattended operation hence maintenance free.
- f) The dew point of the output dry air should be better than -40°Cat 95% relative humidity input.
- g) The system should facilitate readjusting of the factory adjusted pressure setting to suite the field requirements. It should be capable of operating anywhere between (13kPa and 50kPa).
- h) The acoustic noise generated by the Compressor/pump of dehydrator system while functioning should be considerably less than 50 dBA.
- i) The system should facilitate alarm system to indicate performance deviation from the preset values like low pressure, power failure and etc.,
- j) There should be monitoring facility to check the output air pressure, output dry air moisture level indicator.
- k) The offered Dehydrator may either shelf mounted or 19” rack mounted.
- l) The offered Dehydrator should function on standard 230±5% V AC, 50 Hz power supply.
- m) Dehydrator with tubing & Accessories for pressurization in entire RF Cable Air dielectric cable and Antenna System
- n) **Delievery Period** : Supply should be completed within 60 days from the date of supply order
- o) **Gurantee/Warranty** : One year from the date of installation of the unit
- p) **Eligibility** : Product offered should be supplied earlier to AIR/DD network
- q). **Payment terms** : 100% payment will be made on satisfactory completion of work