



365-147/B
31.08.16

BHEL – Tiruchirappalli – 620014,
India

Valves Engineering and R&D

PURCHASE SPECIFICATION

DOC No: **SPEC: OF:123** Rev: **00**

Effective Date: **30/03/2022**

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Product: Digital Thermo Hygrometer

Revision Record:

Rev. No	Date	Details of Revision
00	30 March 2022	Initial Release

Sl. No.	PARAMETER	DETAILS
1.0		DESIGN SPECIFICATION
1.1	Scope	The scope of this specification is to manufacture, test, pack and dispatch of Digital Thermo Hygrometer.
1.2	Temperature Range	0 to +50 °C
1.3	Resolution:	Temperature: 0.1 °C Humidity : 0.1
1.4	Accuracy	Temperature: ±0.5 °C Humidity: ±2%
1.5	Humidity Range	15% to 90% RH
1.6	Temperature and Humidity Display	1. Digital Display 2. Separate Readings: Each for Temperature & Humidity 3. Bright and Large Backlight display for a clear view
1.7	Buzzer, preferred	In addition, a buzzer will sound if the set limits are reached, optional
1.8	Humidity & Temperature Memory for buzzer	MAX/MIN
1.9	Warranty	01 year minimum
1.10	Power Supply	<ul style="list-style-type: none">Battery operated and 230 +/- 10 V / 50 Hz AC Power cable with plug to suit Indian socket12 VDC Input with minimum of 2 Amp current rating. Adaptor provided along with.One piece 1.5V Battery (AAA Size) - preferred
1.11	Cable length of Sensor	Min. length 2 meter, if part of the design
1.12	Calibration	Calibration certificate to be provided having validity minimum for 12 months, traceable to national standards. (NABL)
1.13	BHEL Material Code	As per Enquiry / Purchase Order (P.O.)
2.0		INSPECTION & TESTING SPECIFICATION
2.1	Marking	Tag the following details as a minimum: <ul style="list-style-type: none">Manufacturer's name or markMM/YY (Month/Year of acceptance)
3.0		STORAGE & HANDLING SPECIFICATION
3.1	Packing & Shipping requirements	It shall be protected from damage during shipping & storage by adding proper environmental friendly cushioning material. Package shall be labelled with following details as a minimum (a) BHEL Material Code (b) Purchase Order No.



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		(c) Batch Number (e) Any other relevant details specified in the Purchase Order Each item shall be supplied in sturdy boxes to protect against damages during handling and transportation.
4.0	GENERAL DOCUMENTATION REQUIREMENTS	
4.1	All documents & literatures shall be in English language	
5.0	PQR	
5.1	Bidder shall submit the supply records for items :	To fulfil this criteria, Bidder shall submit previous PO of same or identical items not more than 5 years old from date of part 1 bid opening.
5.2	Bidders to submit a valid certificate of ISO 9001.	
5.3	Bidders to provide a Conformance to the requirements of this specification	To fulfil this criteria, Bidder to Confirm compliance to all the requirements mentioned in this purchase specification
5.4	Bidders are requested to detail out the deviations from this specification while submitting the offer. Even If no deviation is taken, vendor shall explicitly mention "No Deviation".	
5.5	Authorised Resellers / Distributors to submit "Authorised Reseller / Distributor certificate" mandatorily.	
6.0	DOCUMENTATION REQUIREMENTS – ALONG WITH OFFER	
6.1	Latest catalogues offered and their model number	
6.2	GA Drawing with Weight, Overall dimensions and Material of Construction	
6.3	Sample Calibration certificate provided along with traceable to National Standards (NABL Accredited Lab)	
7.0	DOCUMENTATION REQUIREMENTS – ALONG WITH EQUIPMENT	
7.1	Compliance Certificate to meet all the requirements mentioned in this purchase specification	
7.2	Warranty certificates to be provided along with supply.	
7.3	Certification & reports for Precision Test , Accuracy Test to be furnished to along with Supply of item.	
7.4	Calibration certificate provided along with traceable to National Standards (NABL Accredited Lab)	

Signature			
Name	Mohit Choudhary	Arunkumar P	S Madhulingam
Designation	Sr. Engineer	Dy. Manager	Manager
Action	Prepared By	Checked & Reviewed By	Approved By