

Digital Strain Indicator

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	NOTE:-	
A	The "VENDOR TO CONFIRM/SPECIFY" column of this format shall be filled in by the Vendor and submitted along with the offer. Inadequate / incomplete, ambiguous, or unsustainable information against any of the clauses of the specifications/requirements shall be treated as non-compliance.	
B	The offer and all documents enclosed with offer should be in English language only.	
C	Any deviation may be clearly mentioned	
D	Vendor should furnish required information/confirmation against each and every clause of this technical specification. This complete specification is a CHECKLIST for evaluation purpose. Therefore, leaving any clause as blank or without complete information will lead to non-compliance.	
E	Meeting the qualification requirement as per clause 11 is very important for the vendor. This should be strictly adhered .	
F	Our requirement is of a Digital Strain Indicator. Vendor to offer in line with the same.	
G	Vendor has to submit technical data sheets/documents of the model offered with these technical specifications.	
	SCOPE: SUPPLY & COMMISSIONING OF DIGITAL STRAIN INDICATOR COMPLYING WITH SPECIFICATIONS AS BELOW:	
Sl. NO.	CFFP/BHEL,HARDWAR REQUIREMENT	VENDOR TO CONFIRM/ TO SPECIFY
1	Scope: This specification deals with the supply & commissioning of Digital Strain Indicator with necessary accessories .	
2	Objective: Digital Strain Indicator required for measurement of residual strain released during residual stress measurement of forgings.	
3	Technical Specifications:	
3.1	3 ½ Digit LED/ LCD Display	
3.2	Minimum Channels: Four	
3.3	Range: \pm 1999 Microstrains (Minimum)	
3.4	Resolution: \pm 1 Microstrains or better	
3.5	Accuracy: \pm 1% of the readings <i>ng</i>	
3.6	Bridge Configurations: Quarter, Half & Full bridge circuits	
3.7	Acceptable Gauge Resistance: 120 Ω , 350 Ω and 1000 Ω	
3.7	Input Supply: 230V,50Hz,Single phase	
3.8	Bridge Balance:Auto/Manual	
4	Calibration/ Standardization	

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	Instrument shall be calibrated and Vendor shall give complete details of calibration/standardization procedure.	
6	General Requirements :	
6.1	Supplier shall demonstrate the complete functionality of the instrument, while supply/Installation.	
7	Documentation and manuals	
7.1	Two sets of documents for detailed operation, maintenance and servicing manuals of equipment and other accessories to be provided in English language only.	
7.2	Each document for operation, maintenance & service manual should be given on soft copy also.	
8	Installation of instrument	
8.1	The supplier should take full responsibility for carry-out the commissioning of instrument and all its accessories at BHEL free of cost. All capabilities of the instrument will have to be demonstrated to the satisfaction of the user.	
9	Acceptance Norms	
9.1	Demonstration of all features of the instrument, all supplied attachments & accessories to their full capacity and to the satisfaction of BHEL for their efficient and effective use.	
9.2	Original manufacturer's Calibration/test certificates are required alongwith dispatch documents.	
9.3	CFFP/BHEL reserves the right to pre inspect the instrument and supplied attachments & accessories at vendor's premises before dispatch.	
10	Guarantee :	
10.1	The supplier shall provide full and complete guarantee for trouble free performance for at least one year from the date of commissioning. If instrument remains out of order during this period, guarantee period will stand extended for the corresponding period.If any manufacturing defect is noticed during guarantee period, it will be rectified free of cost even after completion of guarantee period.	
11	Qualifying criteria	

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11.1	Only those Vendors who have supplied and commissioned at least one similar instrument or higher capacity in the last five years (on the date of opening of tender) to any Government/Semi Government/PSU organisation and such instrument is presently working satisfactory for more than one year after commissioning (on the date of opening of tender) and have Performance Certificate of the same from the above mentioned customers, should quote. The following information should be submitted by the Vendor about the company (s) where similar instruments have been supplied. This is required from all the vendors for qualification of their offer.	
11.1.1	Name of the customer/ company where similar instrument is installed.	
11.1.2	Complete postal address of the customer.	
11.1.3	Month & year of commissioning.	
11.1.4	Broad specification of the instrument (s).	
11.1.5	Name and designation of the contact person of the customer.	
11.1.6	Phone, FAX no. and e-mail address of the contact person of the customer.	
11.2	Supplier should be either manufacturer of instruments or authorised dealer of OEM, having authorisation letter.	
11.3	Vendor should either source these instruments from overseas supplier or should have authorisation from above OEM to manufacturer in India or elsewhere.	
11.4	BHEL reserves the right to verify information submitted by Vendor. In case the information is found to be false/ incorrect, the offer shall be rejected.	
11.5	Company must have Service Centre in India.	