

Spec. no. QC-1/AKS/14/001 **Perthometer(Portable Surface Roughness Tester)** Reference Spec no.:QC-TKS/13/003

| Sr.No | Description | Required | Offered |
|-------|---|------------------------------------|---------------------------------|
| 1.0 | Application: | | |
| | The Portable Surface Roughness tester is intended to be used in shop floor for checking of surface finish of Turbo generator and exciter machined components & assemblies.. | | Vendor to comply in this column |
| 2.0 | Specific application : | | |
| | Curved surface of minimum diameter=10mm, with skid or skidless. | Suitable tester to meet clause 2.0 | |
| | Stylus for long length Deep groove measurement up to 25 mm depth | | |
| | Surface finish of job = Ra 0.2 micron to 3.2 micron | | |
| 3.0 | General requirements | | |
| | Testing shall be as per ISO 4287 or any international standard. | Suitable tester to meet clause 3.0 | |
| | Evaluation shall be on parameter Ra, Rz, Ry at least. | | |
| | Evaluation length up to approx. 15mm. | | |
| | Suitable attachment for cylindrical job, holes and suitable adopter for height gauge mounting, extension rod | | |
| | Display should be on LCD or others for good visibility. | | |
| | Portable, handy and light weight. | | |
| | Rechargeable long life batteries | | |
| | Suited in working temperature of at least 05-50 deg. C | | |
| | Specimen of Rz=2.5, Ra=0.4 approximately. | | |
| 4.0 | Accessories: | | |
| | Necessary Cables, test supporting fixtures, guiding devices, calibration test specimen, Carrying case , Printer paper & Battery charger should be provided, additional one no. stylus for Ra 3.2 | Suitable tester to meet clause 4.0 | |
| 5.0 | General Conditions: | | |
| | Vendors to comply that quotation covers all the items (i.e. software, cables, Connectors, Adapters, etc.) even it is not specified in item list. The price quotation at 4.0 must be on single piece basis. | | |
| | Vendors to comply that they shall commission the instruments at our works. During commissioning Party should also demonstrate interfacing of instrument & details of software. The party will provide service in future if any problem arises during operation. | | |
| | The party will provide operation, service and troubleshooting manuals containing detailed circuit diagram. | | |
| | The party shall provide calibration certificate of instruments and explain the calibration procedures of instrument during commissioning. The party should quote for a contract of calibration in future (for reference only). | | |
| | The party can demonstrate the instrument at our works if required. | | |
| | Guarantee/Warranty period of instrument should not be less than 18 months counted from date of dispatch or 12 months counted from the date of commissioning whichever is later. | | |

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| 6.C | Qualifying Conditions : | |
| | Only those vendors, should quote, who or their principal have supplied and commissioned at least one number of the quoted within last five years (on the date of opening of Tender) and worked satisfactorily for one year or more prior to tender floating date. | |
| | The following information should be submitted by the vendor about the companies where referred instruments have been supplied. This is required from all vendors for qualification of their offer. | |
| | Name of the customer / company, where referred instrument(s) is(are) installed. | |
| | Complete postal address of the customer | |
| | Month & Year of Commissioning. | |
| | Specific application if any for which the instrument is supplied. | |
| | Name and designation of the contact person of the customer. | |
| | Phone, FAX no. and email address of the contact person of the customer. | |
| | Performance certificate from the customer regarding satisfactory performance of instruments supplied to them (original certificate or through e-mail directly from the customer). Original certificate may be returned after verification by BHEL, if required. | |
| | 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. | |

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