


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 blades, governing parts, Rotor etc. of turbines.		Vendor to comply in this column
2.0	Specific application:		
	Curved surface of minimum diameter=10mm, with skid or skid less.	Suitable tester to meet clause	
	Stylus for long length Deep groove measurement up to 30mm depth.	2.0	
	Surface finish of job = Ra 0.1 micron or more		
3.0	General requirements:		
	Testing equipment and method should meet ISO 4287 or any international standard.	Suitable tester to meet clause	
	Evaluation shall be on parameter Ra, Rz, Ry at least.	3.0	
	Evaluation length up to approx.15mm is desired or more can be considered.		
	Suitable attachment for cylindrical job, holes and suitable adopter for height gauge mounting.		
	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°C.		
	Extension rod shall be provided.		
	Specimen of Rz=2.5, Ra=0.4		
4.0	Accessories:		
	Necessary Cables, test supporting fixtures, guiding devices, calibration test specimen, and Carrying case should be provided.	Suitable tester to meet clause	
	Battery charger	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 trouble shooting manuals containing detailed circuit diagram.		
	The party will quote necessary spare parts / accessories items for minimum 05 years of satisfactory operation of Equipment even if not included at clause 4.0		
	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.		
	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.		
6.0	Optional Spares:		
	Cables for data transfer to computer.		
	Attachment for Cylindrical surface; attachment for height gauge mounting , deep groove long length stylus, extension rod, Detector for small holes & deep groove, standard detector.		

Kamal Sehgal
20/8/14
(KAMAL SEHGAL)
Sr Engr, QC-T

T.K. Saha
20/8/14
(T.K. Saha, DGM, QC-T)

7.0	Qualifying Conditions :	
	Only those vendors(OEMs or its authorized agencies), who have supplied and commissioned at least one number of instrument of same model within the past 10 years (on the date of opening of tenders) and the referred instrument is presently working satisfactorily for more than one year (on the date of opening of tenders) after commissioning, should quote.	
	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.	
	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.	

Kamal Sehgal
 20/8/14
 (KAMAL SEHGAL)
 Sr. Engrs, QC-T


 20/8/14
 (T. K. Saha)
 DGM, QC-T