

**SPECIFICATION FOR LASER BASED COUPLING FLATNESS MEASURING
INSTRUMENT**

INDENT NO. : C/6530/6/2663T
DATE : 17/7/06

1. The Instrument shall be used for measurement of flatness of flanges.
2. The Equipment offered shall have :
 - a) Portable laser based measurement system with safety class 2
 - b) Measurement range to cover coupling flange up to Dia 900mm
 - c) Accuracy of measurement shall be 1.0 micron or better
 - d) Software of flatness, axis alignment, straightness, square ness, parallelism, centre of circle, half bore etc. must be on Microsoft windows platform.
3. All mounting fixtures and accessories (ex. Magnetic base, connectors, extensions, cables, hand measuring tools etc.) necessary for checking rotor flange flatness up to 900 mm diameter shall be included. Safety devices like carrying case etc. also to be supplied.
4. The equipment shall be commissioned at BHEL, Hardwar works by the suppliers' representative who shall demonstrate the complete functioning of the equipment on at least two rotors.
5. Training to be provided to BHEL personnel for all functions and measurement.
6. The instrument shall be guaranteed for satisfactory working for 24 months from the date of commissioning.
7. Along with the equipment, the supplier shall give three copies of operation & maintenance manuals with complete circuit diagram of the main equipment & all its accessories.
8. Along with the offer the supplier shall give :
 - a) The details of his service network, especially in the northern region of the country
 - b) Lists of users, with name, complete address, e-mail etc.
 - c) Demonstrate the functioning of the machine on rotor and standard test sample.