

ADDENDUM

EMD Rs. 1,26,000/-

Tender Enquiry No. 3(1)/2014-Pur

Technical Specification for two axis rate table

1. **Type:** Two- Axis Rate Table to calibrate inertial sensors in different axes.
2. **Rate Measurement Range:**
For inner axis at least ± 1000 deg/ sec
For outer axis at least ± 500 deg/ sec
3. **Pay Load**
: **Diameter**-200mm or more
: **Height**-240 mm or more diameter
: **Weight capacity**-20 kg or more
4. **Motion:** Unconstrained with slip ring configuration with following lines
 - a) atleast 2 lines @ 5A
 - b) atleast 10 single lines
 - c) atleast 10 twisted shielded pair
 - d) atleast one [MIL-STD-1553 data bus connector](#)
5. **Position accuracy** : ± 10 arcsec_{RSS} or better
6. **Position repeatability** : ± 5 arcsec_{RSS} or better
7. **Control interface** : Dedicated computer workstation with pre-installed software and hardware for control of rate table.
8. **Rate stability** : 0.001% or better over 360 deg at peak rate
9. **Axis Wobble** : ± 5 arcsec or better
10. **Axis Orthogonality or better** : ± 5 arcsec or better
11. All **essential accessories** to make the system fully functional must be quoted.
12. **Training:**

Training to be provided for 5 working days at CSIO by the authorized personnel in

- Usage of the rate table
- Preventive Maintenance
- Software

13. Warranty

- Entire machine inclusive of all systems / accessories should be warranted for 12 months from the date of installation / commissioning against all the design, material, and manufacturing defects. Free on-site maintenance for one year and availability of spares for next two years to be ensured by the supplier.

- A follow-up training after six months to be imparted. Training cost, if any should be mentioned explicitly. The PBG submitted shall bear a confirmation to the above.
- Annual maintenance contract charges must be quoted separately after expiry of the free maintenance period/ warranty period.

14. Installation and commissioning

- Detailed drawing of the foundation and power supply requirement are to be supplied after the order is placed.
- Requirements like vibration criteria, air conditioning, and flooring, if any are to be specified post order placement
- Installation & commissioning of the machine to be done by the supplier.

15. Custom duty exemption certificate:

For all specific components that need to be imported for functioning of this system, requires custom duty exemption certificate (CDEC), needs to be mentioned separately along with the quote.

16. The supplier should calibrate the system onsite fulfilling all the standard/requisite parameters.

17. Manuals / Documentation

- Supplier should supply printed catalogue
- Supplier should supply test report of the machine

Three sets of the following documents are to be supplied with the machine during delivery

- Operators Manual
- Spare part list
- Maintenance manual
- Electrical wiring diagram
- Preventive maintenance check list, troubleshooting charts and their guidelines
- All the above documents are to be supplied in ENGLISH