

TECHNICAL SPECIFICATIONS AND OTHER ALLIED REQUIREMENTS

| SI No. | Description of items | Quantity |
|--------------------------|--|----------|
| PUR/513/ADA/AP/P/2020-21 | | |
| 1. | HIGH PRECISION METROLOGY FRAME (Details specifications are as per ANNEXURE-I) | 01 No. |

1. QUALIFICATION CRITERION

1.1 N/A

2. INSTALLATION/COMMISSIONING

2.1. The ordered goods are to be delivered & installed at CSIR-CMERI, Durgapur, West Bengal within 15 weeks from the receipt of Purchase Order.

3. WARRANTY

3.1. 01 (ONE) year warranty will be provided by the supplier from the date of satisfactory installation and acceptance of ordered goods.

Annexure-I

1. **End Use:** In the development of Ultra-precision Coordinate Measuring Machine (UCMM) with sub-micron range uncertainty.

2. Details Specifications:

(a) Material: Granite

(b) Flatness of top surface of

- Top plate (range: ≤ 5 micron)
- Bottom plate (range: ≤ 5 micron)

(c) Parallelism of

- Top plate with respect to bottom plate in the area of mounting of truncated balls (range: ≤ 10 micron)
- Top and bottom face of the pillars (range: ≤ 10 micron)

| Sl. No. | Item | Quantity |
|---------|--|----------|
| 1. | Granite bottom plate, finish size: 740 x 600 x 80 mm | 01 no. |
| 2. | Granite pillars, finish size: 265 x 200 x 60 mm | 03 nos. |
| 3. | Granite top plate with hexagonal shaped central hole, finish size: 740 x 600 x 60 mm | 01 no. |
| 4. | Truncated ball with counter bored hole (Part no.: 750-TBR-CB) | 06 nos. |
| 5. | Vee Block surface mount (Part no.: VB-75-SM) | 06 nos. |

3. Acceptance test

Accuracy of Flatness of Individual Granite Plates, Parallelism in the assembled components are to be in the range as mentioned in detailed specifications

Signature
01/03/2021