

CSIR - NATIONAL PHYSICAL LABORATORY

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From: Director, CSIR-NPL

Tender No. 14-VI/SK(1164)23PB/T-48

Dated: 27.08.2024

**CORRIGENDUM**

With reference to NPL's Global Tender ID: 2024\_CSIR\_765955\_1 for "Polishing Machine". Some changes have been made in the technical specification of captioned tender. Revised specifications are as follows:

Fully automatic polishing machine (Vibratory polisher) required for AFM, EBSD and optical microscopic sample preparation to distinguish two or more different phases, suitable for all kind of materials (soft, hard and brittle), as per below specifications:

**Specifications:**

1. Horizontal motion with variable vibration speed control and frequency control
2. Variable amplitude drive system
3. Polishing must be done using high quality micro-cloth suitable for polishing with 7 to 0.02  $\mu\text{m}$  particle sizes of alumina powder/suspensions and colloidal silica suspensions
4. Must have minimum 12 inch diameter of corrosion resistant polishing cabinet or bowl in which atleast 15 specimen can be easily mounted and prepared simultaneously, also specimen holders must cover entire polishing bowl area during motion
5. Detachable bowl for easy cleaning and easy to fix
6. Covered with high quality transparent lid for protection of micro-cloth and specimen from contamination and dust
7. Electronic control panel and can display vibration frequency
8. Specimen holders of different sizes, 1 inch (6 Nos.), 1.5 inch (6 Nos.) and 2 inch (3 Nos.) alongwith loading fixtures and weights shall be provided
9. 20 Nos. of 12 inch diameter micro-cloths/micro-pads, 2 kg alumina powder or 2 L alumina suspension (particle size: 1-2  $\mu\text{m}$ ), 2 kg alumina powder or 2 L alumina suspension (particle size: 0.5-0.6  $\mu\text{m}$ ), 2 kg alumina powder or 2 L alumina suspension (particle size: 0.05-0.06  $\mu\text{m}$ ), 2 L silica suspension (particle size: 0.02-0.05  $\mu\text{m}$ ), one leveling plate suitable for specimen of diameter 25 -50 mm shall be provided with the machine
10. There should be in-built or provision to create programs/ reciepes for polishing different materials
11. Power requirement: 220 Volts and 50 Hz
12. Assurance for providing spares/ accessories and support services to carry out repairs at user's site for at least 10 years from the date of installation
13. One year of warranty from date of installation
14. Onsite installation, commissioning and training to users should be provided only by company's trained engineer
15. Supplier must have supplied atleast 4 number of same machine to the Government or private sectors (India) or global reputed customers in last five years

Therefore, following extension in due date of submission & date of opening of the said tender may be read exactly as follows:

**Due date & time of tender submission**

For : 27.08.2024 up to 3:00 PM (IST)

Read as: 17.09.2024 up to 3:00 PM (IST)

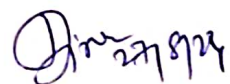
**Date & Time of Tender Opening**

For : 28.08.2024 at 3:00 PM (IST)

Read as: 18.09.2024 at 3:00 PM (IST)

All other terms & conditions of said tender will remain the same.

  
Sr. Controller of Stores & Purchase



FORM TO BE USED BY TSC FOR FINALISING PRE-BID MINUTES

File No.: 14-VI/SK(1164)23PB/T-48

Date: 27-8-2024

TSC Minutes

Based on the Pre-bid meeting and recommendation of I/O, following changes have been made in the specifications:

Original Specifications	Final Specifications
<b>S.No. 9:</b> 20 Nos. of 12 inch diameter micro-cloths, 2 kg alumina powder (particle size: ~0.05 µm), 2 kg alumina powder (particle size: ~0.5 µm), 2 kg/ 2 L alumina powder/suspension (particle size: ~0.05 µm), 2 L liquid silica suspension (particle size: 0.02 µm), one levelling plate suitable for specimen of diameter 25 -50 mm shall be provided with the machine	<b>S.No. 9:</b> 20 Nos. of 12 inch diameter micro-cloths/micro-pads, 2 kg alumina powder or 2 L alumina suspension (particle size: 1-2 µm), 2 kg alumina powder or 2 L alumina suspension (particle size: 0.5-0.6 µm), 2 kg alumina powder or 2 L alumina suspension (particle size: 0.05-0.06 µm), 2 L silica suspension (particle size: 0.02-0.05 µm), one leveling plate suitable for specimen of diameter 25 - 50 mm shall be provided with the machine
<b>S.No. 10:</b> There should be programs/ reciepes for polishing different materials	<b>S.No. 10:</b> There should be in-built or provision to create programs/ reciepes for polishing different materials
<b>S.No. 15:</b> Supplier must have supplied atleast 4 number of same machine to the Government or private sectors in last five years	<b>S.No. 15:</b> Supplier must have supplied atleast 4 number of same machine to the Government or private sectors (India) or global reputed customers in last five years

The file is forwarded to Purchase Section for uploading the final specifications and TSC minutes on the website and CPPP Portal.

Declaration: We hereby declare that we have no conflict of interest with any of the bidder in this tender