



CONFIDENTIAL

Order No. P/NC/06/SB/DR/GTE/24-25/RE

Dated 23/03/2025

To,
M/s. JEOL ASIA PTE. LTD.,
2 Corporation Road. #01-12 Corporation Place
Singapore 618494
Tel: +65 6565 9989

Sub: Award of contract for the Supply, Installation and Commissioning of "HIGH RESOLUTION TRANSMISSION ELECTRON MICROSCOPE WITH FIELD EMISSION GUN (FEG-HRTEM) AND STEM EDS"

Ref. Your offer no. **JI/250102/T/284**, dated **02/01/2025** against our tender no. **P/NC/06/SB/DR/GTE/24-25/RE** dated **07/11/2024** (Published on CPP Portal with Tender ID. **2024_CSIR_777591_1**) opened on **05/02/2025** and all subsequent communications between CSIR-CGCRI and M/s. JEOL India Pvt. Ltd. including and up to their revised Quotation no. **JI/250102/T/284(R)**, dated **20/02/2025**

Dear Sir/Madam,

I am directed to inform you that after evaluating the bid documents submitted by you as referred above, the Director, CSIR-Central Glass & Ceramic Research Institute, Kolkata is pleased to inform you that you have been selected as the successful bidder for the supply of HIGH RESOLUTION TRANSMISSION ELECTRON MICROSCOPE WITH FIELD EMISSION GUN (FEG-HRTEM) AND STEM EDS. The total purchase price shall be **USD 12,47,800.00**, as indicated in your financial bid submitted on **02/01/2025** and your revised quotation dated **20/02/2025**, in accordance with the procedures intimated in the relevant bid documents.

Accordingly, you are requested to kindly arrange for the supply, installation and commissioning of the following goods;

| Sl. No. | Item Description | Qty. | Unit Rate (USD) | Total (USD) |
|----------------------------------|---|-------------------|-----------------|-----------------|
| 01 | JEOL make advance Multipurpose 200 KV Field Emission Transmission Electron Microscope Model: JEM-F200(CF-HR) | 01 complete unit. | 12,47,800.00 | 12,47,800.00.00 |
| Consisting of as follows: | | | | |
| 01. | Electron Microscope Basic Unit | 1 | - | Inclusive in 01 |
| 02. | Cold Field Emission Gun (High Energy resolution is obtained 0.30 eV attainable at 200kV, Zero-Loss FWHM) | 1 | - | Inclusive in 01 |
| 03. | HT Tank | 1 | - | Inclusive in 01 |
| 04. | CFEG Assembly Parts | 1 | - | Inclusive in 01 |
| 05. | HT Cable | 1 | - | Inclusive in 01 |
| 06. | High Resolution Polepiece | 1 | - | Inclusive in 01 |
| 07. | SIP-DP Vacuum Pump Unit | 1 | - | Inclusive in 01 |
| 08. | HR OL In-Gap Aperture | 1 | - | Inclusive in 01 |
| 09. | Motor Drive Quadruplet IL Aperture | 1 | - | Inclusive in 01 |
| 10. | Computer Unit | 1 | - | Inclusive in 01 |
| 11. | Main Monitor | 1 | - | Inclusive in 01 |





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|-----|---|--|---|---|-----------------|
| 12. | Lens Data | | 1 | - | Inclusive in 01 |
| 13. | Viewing Chamber CMOS Camera Unit | | 1 | - | Inclusive in 01 |
| 14. | CFEG Cover | | 1 | - | Inclusive in 01 |
| 15. | Lift Pole | | 1 | - | Inclusive in 01 |
| 16. | Stabilization Shield for Cold FEG Gun | | 1 | - | Inclusive in 01 |
| 17. | Binocular | | 1 | - | Inclusive in 01 |
| 18. | Noise Canceller | | 1 | - | Inclusive in 01 |
| 19. | Stabilization Shield for FE-TEM Column | | 1 | - | Inclusive in 01 |
| 20. | Motor Drive Faraday Cage Hard X-Ray Aperture | | 1 | - | Inclusive in 01 |
| 21. | Motor Drive High Contrast Objective Aperture | | 1 | - | Inclusive in 01 |
| 22. | Horizontal Piezo-Device movement Power Supply | | 1 | - | Inclusive in 01 |
| 23. | Beam Stopper | | 1 | - | Inclusive in 01 |
| 24. | Power Supporter | | 1 | - | Inclusive in 01 |
| 25. | WATER CHILLER | | | | |
| | Water Chiller | | 1 | - | Inclusive in 01 |
| | Anti-Contamination Device | | 1 | - | Inclusive in 01 |
| 26. | SPECIMEN HOLDERS WITH TEM | | | | |
| a. | Specimen Tilting Beryllium Holder — Double Tilt | | 2 | - | Inclusive in 01 |
| b. | High Count Analytical Tomography Holder | | 1 | - | Inclusive in 01 |
| 27. | TEM IMAGE / DATA RECORDING SYSTEM | | | | |
| | CMOS Camera | 4k X 4k High Resolution CMOS Camera of Gatan. Model Rio-16 (1816) Quoted with 200 KV JEOL FEG-TEM. | 1 | - | Inclusive in 01 |
| 28. | DIFFRACTION | | | | |
| | Diffraction Mode | DIFFPACK Software for Diffraction Studies + Diffraction simulation and analysis software with two offline licenses of lifetime validity with provision for future up-gradation | 1 | - | Inclusive in 01 |
| 29. | STEM | | | | |
| | STEM | Bright Field Image Observation Device | 1 | - | Inclusive in 01 |
| | | Bright Field Aperture | 1 | - | Inclusive in 01 |
| | | Dark Field & High-Angle Annular Dark Field | 1 | - | Inclusive in 01 |
| 30. | LN2 FREE EDS | | | | |
| | LN2 FREE EDS | JEOL make - 100 mm2 SDD LN2 Free Windowless EDS Detector. Detectable Elements: Be to U. Energy Resolution— 129 eV. Quoted with Standard Software & Digital mapping Software, TEM-EDS Connection Kit. <ul style="list-style-type: none">Quantitative elemental composition through EDS point analysis.Quantitative colour mapping of area, line-scan profile of elements. | 1 | - | Inclusive in 01 |



सूचना का अधिकार
RIGHT TO INFORMATION

दूरभाष/Phone : निदेशक/Director : +91 33 2473 5829, कार्यालय/Office : 2473 3469/76/77/96; 2483 7340-46, 2483 7349-50
DID Lines : 2483 8079/8082 फैक्स/Fax : (033) 2473 0957, 2473 6082, 2483 7339, 2483 8085 ई मेल/Email : dir_office@cgcri.res.in
वेब साइट/Website : www.cgcri.res.in



| | | | | | |
|---|--|---|---|---|---------------------|
| | | <ul style="list-style-type: none"> Drift correction for prolonged acquisition of map and line-scan Two offline licenses for all EDS data analysis with lifetime validity. | | | |
| 31. | Diffraction Simulation Software | | | | |
| | HREM Image Simulation Software + Offline Licenses | | 1 | - | Inclusive in 01 |
| 32. | Tomography | | | | |
| | Tomography System / Overseas | | 1 | - | Inclusive in 01 |
| | Image Recording Software / Overseas | | 1 | - | Inclusive in 01 |
| | STEM Image Recording Software Two offline Licenses for 3D data reconstruction and analysis software coupled with EDS for tomography. | | 1 | - | Inclusive in 01 |
| 33. | Warranty | 1 Year Standard Warranty + 3 Years Extended Warranty (Total 4Years Warranty) | 1 | - | Inclusive in 01 |
| FOB Singapore Seaport Price in USD | | | | | 12,47,800.00 |

The Purchase Order shall be governed by the General Conditions of Contract (GCC) read with the relevant Special Conditions of Contract (SCC) as stipulated in CSIR-CGCRl Tender Document P/NC/06/SB/DR/GTE/24-25/RE dated 07/11/2024 (Published on CPP Portal with Tender ID. 2024_CSIR_777591_1).

The Technical Specifications and other allied features of the ordered goods and services shall strictly conform to those specified in the aforesaid CSIR-CGCRl Tender Document and complied by Supplier in their Offer /Quotation /Bid No. JI/250102/T/284, dated 02/01/2025

The Supplier is also required to take note that provisions of the Integrity Pact shall be in operation till 10 months beyond the date when the final payment under the contract is made by the Purchaser.

Attention of the Supplier is also invited to the following conditions:

| | | |
|---|-----------------------|--|
| 1 | Price basis | FOB Singapore Seaport INCOTERMS 2020 |
| 2 | Delivery period | The delivery of all the ordered goods shall have to be completed within 11 months from the date of Letter of Credit. |
| 3 | Taxes & Duties | All import duties and taxes shall be borne by Purchaser. All taxes and duties in the country of export shall be borne by supplier. |
| 4 | Freight and Insurance | The ordered goods shall be shipped by the Supplier on freight -to-pay basis through the Purchaser's nominated forwarder, whose details shall be shared with Supplier once the ordered goods are ready for dispatch. The cargo insurance shall be arranged by Purchaser and all charges in this regard shall be borne by Purchaser. |
| 5 | Custom clearance | The import consignment shall be cleared from Indian customs by the Purchaser through their own clearing agent. In order to ensure timely |





सीएसआईआर - केन्द्रीय काँच एवं सिरामिक अनुसंधान संस्थान

196, राजा एस सी मल्लिक रोड, कोलकाता - 700 032, भारत

CSIR - CENTRAL GLASS & CERAMIC RESEARCH INSTITUTE

196, Raja S C Mullick Road, Kolkata - 700 032, India



| | | |
|---|---|---|
| | | customs clearance, Supplier shall provide the following details at least 7 days prior to arrival of vessel at destination seaport. <ol style="list-style-type: none">1. Bill of Lading No. and date.2. Voyage No. and date.3. Complete set of dispatch documents.4. Name and address of Local agent of Supplier's nominated forwarder, from whom delivery of the cargo is to be requested. |
| 6 | Installation and Commissioning | The ordered goods shall be installed and commissioned by Supplier's engineers within 60 days from the date of arrival of the consignment at final destination as defined in the SCC. Once installation is completed, necessary training shall be imparted to Purchaser's Scientists/Technical Officers etc. (3-4 personnel) for effective operation and maintenance of the equipment. /system. |
| 7 | Warranty | The ordered goods shall be covered under on-site comprehensive warranty for a period of 48 months (forty-eight months) to be effective from the date of successful installation and commissioning of the complete system. Other aspects of the warranty clause are detailed at GCC Clause 2.21 read with the relevant SCC. |
| 8 | Payment terms | An irrevocable letter of credit for USD 12,47,800.00 covering 100% FOB Singapore Seaport Price shall be established in favour of the Supplier. The payment shall be released in following manner. <ul style="list-style-type: none">• On Shipment: 80 percent (Eighty percent) of the Contract Price of all the ordered Goods shipped shall be paid upon submission of documents specified in the LC• On Acceptance: 20 percent (twenty percent) of the Contract Price of Goods received shall be paid within thirty (30) days of receipt of Goods and successful installation & commissioning upon submission of claim supported by the acceptance certificate issued by the Purchaser along with the Performance security. <p>The L/C will be confirmed at the Supplier's cost, if requested specifically by the supplier. All bank charges abroad shall be to the account of the beneficiary i.e. Supplier and all bank charges in India shall be to the account of the opener i.e. purchaser. If L/C is requested to be extended/ reinstated for reasons not attributable to the Purchaser, the charges thereof would be to the suppliers' account.</p> |
| 9 | Performance Bank Guarantee / Performance Security | Within 21 days of issue of this Purchase Order, Supplier shall furnish a Performance Security for 5% of the contract value . Other aspects of the Performance Security clause are detailed at GCC Clause 2.13 read with the relevant SCC. |



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वेब साइट/Website : www.cgcri.res.in



It is also to be noted that as per the bid under reference, the following items are to be locally supplied within INDIA by JEOL INDIA PVT. LTD at no additional costs. The delivery of these items should be planned in such a manner that the installation of the import consignment is not held up for any delay in supply of the said items.

| Sl. No. | Item Description | | Qty. |
|---------|--|--|-------------------|
| a. | Online UPS | Branded Company makes online UPS: 15 KVA Single Phase for TEM & 10 KVA 3 phases for chiller with battery backups. | 2 |
| b. | Compressor | JUN AIR make noise-free and oil-free Compressor | 1 |
| c. | SF6 Gas Cylinder with regulator | | 2 |
| d. | N2 Gas Cylinder with regulator | | 1 |
| e. | Spare - Consumables & Standards | Standard copper grids, Center- Marked Grids, 300 Mesh 3.0 mm O.D with Carbon film support: 500 Nos. Standard copper Grids, Center -Marked Grids, 300 Standard copper Grids, Center -Marked Grids, 300 Mesh, 3.0 mm O.D with Ultra-Thin Carbon film support:500 Nos 5 Post FIB M Grids: 200 Nos Vacuum tweezer — I No and titanium tweezers :5 Nos. Standards for TEM Resolution, Magnification, TEM, EDS and Rotation | As per the tender |
| f. | Additional PCs, Monitors, Colour Laser Printer | | As per the tender |

You are requested to execute the necessary agreement within fourteen days from the date of issue of this letter in the enclosed agreement form. Special adhesive stamp of ₹10 (Rupees Ten) and revenue stamp of Rupee One shall be affixed on the enclosed agreement form.

Till such time, the agreement is executed, this Purchase Order shall constitute a legally binding contract between you and the CSIR-Central Glass & Ceramic Research Institute, Kolkata, India.

You are now requested to send the Order Acknowledgement/Proforma Invoice on FOB Singapore Seaport value. The Performance Security for 5% of the contract value/FOB Singapore Seaport value is to be furnished within 21 days from the date of issue of this Purchase Order.

Yours truly,

[B Dhar]

Stores & Purchase Officer

For & on Behalf of The Council of Scientific and Industrial Research

Enclosure: Agreement Form along with the schedule of delivery

भण्डार एवं क्रय अधिकारी/Stores & Purchase Officer
सीएसआईआर - केन्द्रीय काँच एवं सिरामिक अनुसंधान संस्थान
CSIR - CENTRAL GLASS & CERAMIC RESEARCH INSTITUTE
196, राजा एस. सी. मल्लिक रोड / 196, Raja S. C. Mullick Road
कोलकाता / Kolkata- 700 032



Contract Form

Contract No. P/NC/06/SB/DR/GTE/24-25/RE

Date:23/03/2025

THIS CONTRACT AGREEMENT is made the 23th day of MARCH, 2025

BETWEEN

(1) The Council of Scientific & Industrial Research registered under the Societies Registration Act 1860 of the Government of India having its registered office at 2, Rafi Marg, New Delhi-110001, India represented by CSIR-Central Glass & Ceramic Research Institute, 196, Raja S.C. Mullick Road, Kolkata 700032, and

(2) M/s. JEOL ASIA PTE. LTD., 2 Corporation Road. #01-12 Corporation Place, Singapore 618494, a corporation incorporated under the laws of *Singapore* and having its principal place of business at *Singapore* (hereinafter called "the Supplier") being represented by M/s. JEOL INDIA PVT. LTD., Unit No. 305, 3rd Floor, ABW Elegance Tower, Jasola District Centre, New Delhi – 110 025.

WHEREAS the Purchaser invited bids for certain Goods and ancillary services, viz., *HIGH-RESOLUTION TRANSMISSION ELECTRON MICROSCOPE WITH FIELD EMISSION GUN (FEG-HRTEM) AND STEM EDS* and has accepted a Bid submitted by M/s. JEOL INDIA PVT. LTD., Unit No. 305, 3rd Floor, ABW Elegance Tower, Jasola District Centre, New Delhi – 110 025 on behalf of the Supplier for the supply of those Goods and Services in the sum of *USD 12,47,800.00 [USD TWELVE LAKH FORTY SEVEN THOUSAND AND EIGHT HUNDRED]* (hereinafter called "the Contract Price").

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

01. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.

02. The following documents shall constitute the Contract between the Purchaser and the Supplier, and each shall be read and constructed as an integral part of the Contract:

- a) This Contract Agreement
- b) Special Conditions of Contract
- c) General Conditions of Contract
- d) Technical Requirements (including Schedule of Requirements and Technical Specifications)
- e) The Supplier's Bid and original Price Schedules
- f) The Purchaser's Purchase Order no. P/NC/06/SB/DR/GTE/24-25/RE, dated 23/03/2025.

03. This Contract shall prevail over all other Contract documents. In the event of any discrepancy or inconsistency within the Contract documents, then the documents shall prevail in the order listed above.

04. In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the Goods and Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.

05. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of Union of India on the day, month and year indicated above.

For and on behalf of the Council of Scientific & Industrial Research Signed: *[insert signature]*
in the capacity of *Stores & Purchase Officer, CSIR-CGCRI, Kolkata*

in the presence of *Mr. Ashim Kr. Jha* Signed: *[insert signature]*
in the capacity of *Controller of Finance & Accounts, CSIR-CGCRI, Kolkata* in the presence of *[insert identification of official witness]*

For and on behalf of the Supplier
Signed: *[insert signature of authorized representative(s) of the Supplier]* in the capacity of *[insert title or other appropriate designation]*
in the presence of *[insert identification of official witness]*