



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



CORRIGENDUM

REFERENCE NO. : - P/NC/113/NCP/SO/OTE/25-26

DATE: 01/08/2025

NAME OF EQUIPMENT: "SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF FLUORIMETRIC URANIUM ANALYSER" [CPPP PORTAL TENDER ID: 2025_CSIR_240885_1].

NOTE: The Bids must be submitted in the Central Public Procurement Portal (URL: <https://etenders.gov.in/eprocure/app>) only. Manual/Offline bids shall not be accepted under any circumstances. Bidders should quote in INR only.

CONSEQUENT TO THE PRE-BID MEETING HELD ON 22/07/2025, THE REVISED TECHNICAL SPECIFICATION IS ATTACHED IN ANNEXURE- I GIVEN BELOW:-

BIDDERS SHALL ALSO NOTE THAT AS PER CLARIFICATIONS GIVEN BY DPIIT VIDE THEIR O.M. No. P-45021/2/2017-PP(BE-II)-Part (4) Vol. II dated 08th July, 2025 REGARDING EXEMPTION LIMITS OF SMALL PURCHASES MADE BY SCIENTIFIC AND RESEARCH INSTITUTIONS, THE TENDERED ITEM QUALIFIES TO FALL UNDER CATEGORY OF "**SMALL PURCHASES**". ACCORDINGLY, THE TENDERED ITEM STANDS EXEMPTED FROM THE PROVISIONS OF PUBLIC PROCUREMENT (PREFERENCE TO MAKE IN INDIA) ORDER DATED 2017 ISSUED BY THE GOVERNMENT OF INDIA. A COPY OF THE AFORESAID GOVERNMENT OF INDIA OFFICE MEMORANDUM NO. P-45021/2/2017-PP (BE-II)-Part (4) Vol. II dated 08th July, 2025 IS AVAILABLE ON THE WEBSITE OF DPIIT AT https://dpiit.gov.in/sites/default/files/ScientificResearch_Institutions_09July2025.pdf

All other Tender terms and conditions remain unchanged.


11/8/2025

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(Bodhisattwa Dhar)
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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

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Revised Technical Specification for

'Roll-to-Roll Supercapacitor Electrode Fabrication Machine'

- 1) **Machine name:** Roll-to-Roll Electrode Fabrication Machine
- 2) **MoC:** with MS/SS 304 Sq. tube (50 X 50) frame, covered with SS 304 sheet and glass wool insulation on top & both sides for preventing heat loss. Two doors with glass-fittings at the front side shall be provided for visibility of process during operation.
- 3) **Bottom support:** Coating operation shall be carried out over the polished (top-surface) SS316 support-plate [dimensions: 5000-5500 mm(L) x 350-360 mm(W) x 8-10 mm(thick)] for smooth and uniform finish. 10 mm thick Glass plates with support clamp shall be provided on the top of SS316 support-plate
- 4) **Doctors' blades:** Three two-stage doctors' blade (width: 35 mm, 50 mm, 100 mm) with micrometres shall be provided for smooth & uniform coating.
- 5) **Slurry feeder unit:** A SS pot (SS316, capacity: 3 L) coupled with motorized stirrer (from top) shall be provided for supply /distribution of coating precursor coating process.
- 6) **Winding & Un-winding facility:** Two stepper motors (capacity: 0.5 kW/220V AC each) shall be provided and fitted at both ends of coating unit for smooth un-winding of pre-coated Al-foil and winding of coated film during coating. Speed of both the motors shall be synchronised each other for smooth run.
- 7) **Speed control:** A precise speed control unit (range: 10-50 mm/min or as per requirement) shall be provided for movement of tape (aluminium foil) and it should be interlinked with HMI.
- 8) **Thickness control:** through two-stage doctor's blade with fine gap-adjusting controller for obtaining the coating (green coating) thickness of 0.10 mm – 0.75 mm shall be provided for obtaining coating thickness of 0.10 - 0.75 mm or any desired values within this range
- 9) **Drying unit:** Infrared-lamp based drying unit with Temperature controller shall be provided for drying the as-coated film at temperatures in the range of 80°C - 200°C.
- 10) **Coating Compactor unit:** Spring loaded two-roller based pressure compactors unit, coupled with a load-cell (capacity: upto 500 kg.f) shall be provided and fitted at the end of coating unit for perfect compaction of as-coated dried electrode. MoC and dimensions of rollers shall have HCHCR with 5-7 micron thick hard-chrome plating (HRc: 60-62) and 150±5 mm (dia.) x 250 mm (length) respectively. Compactor roller shall be coupled motor drive of appropriate capacity and it should be synchronized with winding /unwinding motors (as stated under point no. 6) and appropriate controller shall be provided for applying desired loads onto the compactor rollers during compaction of dried coating.

- 11) **Control panel:** HMI based control panel shall be provided for operation & control of the unit, like speed & temperature, etc. as per program.
- 12) **Schematic diagram /Engineering drawing:** Vendors shall provide schematic diagram/engineering drawing of the machine along with the technical bid thus offering to CSIR-CGCRI under this tender. For reference, a representative layout/drawing of the intended machine is given below.
- 13) **Line-supply:** Machine shall be designed for 1-phase 220V /50-60 Hz AC line-supply
- 14) **Installation & Commissioning:** Machine shall be installed & commissioned at CSIR-CGCRI, Kolkata
- 15) **Training:** Vendor shall provide adequate training to CSIR-CGCRI staff on machine operation and minimum trouble shootings while working with the machine.
- 16) **Warranty:** Vendor shall provide Warranty of **two-years** for this machine, which will be effective from the date of successful installation/commissioning at CSIR-CGCRI.

