



जवाहरलाल नेहरू एल्युमीनियम अनुसंधान विकास एवं अभिकल्प केन्द्र नागपुर

JNARDDC

JAWAHARLAL NEHRU ALUMINIUM RESEARCH DEVELOPMENT & DESIGN CENTRE, NAGPUR

Autonomous Body, Ministry of Mines, Govt of India



Amravati Road, Wadi, Nagpur 440023, INDIA | Phone: 91-7104-220701 / 220476 / 220017

Email: aao@jnarddc.gov.in / director@jnarddc.gov.in | Website: www.jnarddc.gov.in

An ISO/IEC-17025:2017 & ISO-17034:2016 NABL accredited lab

Ref No. 30/JNARDDC/S&P/2026-27/S-29(I)

Date: 21/08/2026

To,

For JNARDDC Registered Vendor under Civil Construction Category only

Subject: Invitation of Bid in sealed envelope

Dear Sir/Madam,

JNARDDC invites bids from **JNARDDC Registered Vendor under Civil Construction Category only** under limited tender enquiry in **Single Bid System**. The Tender Terms & Conditions and Scope of Work are given attached **Annexure-1**.

Description of Item	Details
Construction of foundation-Hydraulic stretching machine at JNARDDC, Nagpur	As per Annexure 1 attached

You are therefore requested to submit your **competitive offer in a sealed envelope** in the Tender Box kept at the Security Room, JNARDDC, **on or before 05/09/2026, Saturday up to 18:00 Hrs.**

Opening Date: 07th September 2026 (15.00 Hrs) by purchase committee of JNARDDC

The tender in the prescribed format shall be submitted offline in the Tender Box only. No bid shall be accepted through e-mail or any other mode. The tender document is also available on the JNARDDC website: <http://www.jnarddc.gov.in>

EMD: **Not applicable**

The tender shall be submitted in a sealed envelope, duly signed and rubber-stamped on each page.

For any queries/clarifications, please contact us at:

Email: purchasejnarddcnagpur@gmail.com / purchase@jnarddc.gov.in

सधन्यवाद,

आपका आभारी,
(अक्षय कांबळे)

S/d
सं. सलाहकार (प्रशासनिक)



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Annexure -1

Standard Terms and Conditions

1. **Bid Submission:** Bid shall be submitted offline in a sealed envelope on the bidder's letterhead. All pages shall be serially numbered, signed and stamped by the authorised signatory.
2. **Vendor Registration:** The bidder must be a registered vendor of JNARDDC. Bids from unregistered vendors shall be rejected.
3. **Taxes & Rates:** Only GST, as applicable, shall be paid extra. Rates shall be inclusive of all other charges, including material, labour, royalty, insurance, machinery/tools, transportation, freight and other incidental expenses.
4. **Bid Validity:** The bid shall remain valid for a minimum of 90 days from the date of opening of the price bid.
5. **Completion Period:** The work shall be completed within 30 days from the date of issue of the Work Order.
6. **Liquidated Damages:** LD @ 0.5% per week of delay shall be applicable for delayed completion, subject to the applicable maximum limit.
7. **Warranty:** The work shall carry a 01-year warranty from the date of successful completion and acceptance.
8. **Inclusive Rates:** The quoted rates shall include all costs required for satisfactory completion of the work. No additional charges, other than applicable GST, shall be payable by JNARDDC.
9. **Price Bid:** Price shall be quoted only in the prescribed Price Bid Format. Disclosure of prices/financial details anywhere else shall render the bid liable for rejection.
10. **Failure of L-1:** If the L-1 bidder fails/refuses to accept the Work Order, JNARDDC may offer the work to L-2 at the negotiated L-1 rate and same terms & conditions.
11. **Dispute & Jurisdiction:** Disputes shall be subject to the jurisdiction of competent courts at Nagpur, Maharashtra. The decision of the Director, JNARDDC, shall be final, subject to applicable rules and law.
12. **Quantity Variation:** JNARDDC reserves the right to increase or decrease the estimated quantities as required. Payment shall be made based on the actual quantity executed and accepted.
13. **Right to Cancel:** JNARDDC reserves the right to accept/reject any or all bids or cancel the tender at any stage, subject to applicable rules.
14. **Queries:** For tender-related queries, contact:
Email: purchasejnarddcnagpur@gmail.com / purchase@jnarddc.gov.in



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Tender specifications-Construction of foundation-Hydraulic stretching machine

1. Scope of work

1. The scope of work includes dismantling existing RCC flooring, excavation/preparation, laying Plain Cement Concrete (PCC), structural reinforcement, cast-in-situ M-25 grade concrete for foundation beams, and fabrication/fixing of Mild Steel (M.S.) base plates. All work shall comply with relevant Indian Standards and standard engineering practices.
2. The scope covers neat wall opening cutting to exact dimensions, structural lintel/support provision (if required), supplying and installing a custom steel flush door with frame, hardware fixing, and civil touch-up/finishing works.

3. Technical specifications

S. No.	Scope of work	Bill of Quantity (BOQ)	Description of work	Yes/No Compliance
Item 1: Dismantling RCC Floor and Debris Disposal				
i.	Careful dismantling/breaking of the existing RCC floor slab in the designated extrusion press shed area up to the required depth.	4.8m³ Length 12m, width 1m and height 0.4 m	✓ Saw cutting along the boundary perimeter prior to breaking to prevent damage to adjoining operational floor areas. ✓ Complete removal of broken concrete pieces and rebar encasements. ✓ Immediate loading, transportation, and safe disposal of all unusable debris and unserviceable material to a designated dumping yard outside the factory premises or as instructed by the in-charge. ✓ Work must be executed to minimize dust generation and operational disruption to the extrusion press line. ✓	



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Item 2: Plain Cement Concrete (PCC 1:3:6) Levelling Layer

	Providing, placing, compacting, and curing a sub-base layer of Plain Cement Concrete (PCC) mixed in a 1:3:6 ratio (1 Part Cement: 3 Parts Coarse Sand: 6 Parts Graded Stone Aggregate, 20 mm nominal size).	1.2 m³ Length 12m, width 1m and height 0.1 m	✓ Sub-grade beneath the dismantled floor must be thoroughly compacted and levelled before laying PCC. ✓ Mixing: Mechanical drum mixer or ready-mix concrete; manual mixing is strictly prohibited unless authorized for tiny patches. ✓ Laying: PCC shall be placed evenly across the base to achieve a smooth, level bed for the foundation beam. ✓ Curing: Continuous wet curing for a minimum of 7 days using ponding or wet gunny bags.	
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Item 3: Reinforcement Steel for Foundation Beam

ii.	Work Scope: Supplying, cutting, bending, binding, and positioning High-Yield Strength Deformed (HYSD / TMT) steel reinforcement bars (Fe-500 grade conforming to IS 1786) for the foundation beam.	200kg	✓ Steel bars must be clean, free from heavy rust, oil, paint, or loose mill scale before placement. ✓ Binding shall be carried out using 18-gauge annealed binding wire. ✓ Standard cover blocks (minimum 40 mm cover for beams contacting earth/PCC) must be used to maintain clear distance. ✓ Reinforcement cages must be rigidly tied and supported to withstand concrete vibration without displacement. ✓ Measurement and payment will be based on standard linear weights per meter derived from IS standards.	
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Item 4: M-25 Grade Concrete for Foundation Beam

iii.	Work Scope: Providing, placing, vibrating, finishing, and curing M-25 Grade Reinforced Cement Concrete (RCC) for the foundation beams.	3.6m³ Length 12m, width 1m and height 3.0 m	✓ Grade & Mix: M-25 grade concrete (minimum compressive strength of 20 N/mm² at 28 days conforming to IS 456). ✓ Formwork: Rigid, leak-proof steel or plywood formwork securely struted to prevent bulging or slurry leakage during pour. ✓ Compaction: Concrete must be thoroughly compacted using mechanical needle vibrators (30 mm/40 mm needle size) to eliminate honeycombing and air pockets. ✓ Levelling: Top surface of the beam concrete must be accurately levelled according to machine installation drawings, leaving appropriate space for base plate bedding/grouting if specified. ✓ Curing: Continuous curing for a minimum of 10 days by keeping surfaces saturated.	
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Item 5: Fabrication, Fixing, and Positioning of M.S. Base Plates

iv.	Work Scope: Supply, fabrication, shop painting/primer coating, placing, alignment, and secure anchorage of Mild Steel (M.S.) base plates for anchoring the stretching machine.	170kg (650 mmX300 mmX10 mm)	✓ Fabrication: Plates shall be cut cleanly to required drawing dimensions, drilled for anchor bolts/grout holes, and deburred. ✓ Positioning: Base plates must be set accurately in position, orientation, elevation, and plumb line using precision optical levels. Tolerance on alignment and levels shall not exceed ± 1mm. ✓ Fixing: Plates to be anchored securely into the concrete structure or welded into	
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			reinforcement prior to or during concreting as required by the equipment manufacturer's layout. ✓ Surface Treatment: Cleaned of rust and painted with one shop coat of red oxide zinc chromate primer before embedment (except surfaces coming directly into contact with structural welds or precision grouting).	
Item 6: Wall Cutting & Installation of Single-Side Operated Metal Door				
v.	Neat saw cutting of existing masonry wall to required dimensions, lintel provision (if required), supplying, fabricating, fixing, and finishing a metal flush door with frame, internal locking system, and civil touch-ups	1 (7ft height x 3ft Width)	✓ Wall Cutting: Opening to be created using diamond-wheel wall cutters along marked perimeter lines on both sides to achieve clean, straight edges without causing structural cracks or damage to adjacent plaster. ✓ Door Frame & Leaf: Frame made of 16 Gauge pressed galvanized steel (GI) sheet. Door leaf to be 40-45mm thick hollow metal flush shutter using 1.2mm (18 Gauge) GI sheets with a rigid honeycomb or PUF core. ✓ Locks & Exterior Finish: The exterior (outside) face shall remain completely plain and flush with no handles, keyholes, or exposed hardware. Internal face shall be equipped with a heavy-duty lock & handel. ✓ Fixing & Grouting: Stainless steel (SS 304) heavy-duty butt hinges (minimum 3 nos. per leaf) or continuous piano hinge. Frame to be anchored	



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			into wall using heavy-duty expansion bolts or steel holdfasts. Gaps around the frame to be densely packed with non-shrink mortar/polyurethane sealant. ✓ Civil Finishing & Painting: Damaged wall edges, jambs, and reveals to be re-plastered smooth in 1:4 cement mortar to match existing wall texture. Metal surfaces cleaned, primed, and factory powder-coated or finished with polyurethane paint.	
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4. General Terms & Site Conditions

- **Working Environment:** Work takes place inside an operational Extrusion Press Shed. The contractor must follow all plant safety guidelines, hot work permits, and wear standard PPE (hard hats, safety shoes, reflective vests).
- **Quality Control:** Concrete cubes (150 mm) shall be cast and tested for 7-day and 28-day compressive strength as per IS 516 guidelines for the M-25 pour.
- **Tolerances:** Critical machine centreline and embedment plate tolerances must strictly match machine OEM foundation layout guidelines.

5. Payment

The Payment will be released within 15 days from the date of satisfactory Completion of work.



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Price Bid Format

Sr. No.	Description of Work	Total Qty.	Unit	Rate per Unit (₹)	Total Amount (₹)
1	Item 1: Dismantling of RCC Floor and Disposal of Debris	4.8	m ³		
2	Item 2: Plain Cement Concrete (PCC 1:3:6) – Levelling Layer	1.2	m ³		
3	Item 3: Reinforcement Steel for Foundation Beam	200	kg		
4	Item 4: M-25 Grade Concrete for Foundation Beam	3.6	m ³		
5	Item 5: Fabrication, Fixing and Positioning of M.S. Base Plates	170	kg		
6	Item 6: Wall Cutting and Installation of Single-Side Operated Metal Door	1	No.		
Sub-Total					
GST @ 18%					
Grand Total (Including GST)				₹	₹

Note: The bidder shall quote the **unit rate and total amount for each item**. The quoted rates shall be inclusive of all applicable costs, including labour, materials, tools, transportation, loading/unloading, installation, debris disposal and other incidental charges, **excluding GST**, unless otherwise specified.