

# MAGIC ITI

## NOTICE INVITING TENDER

for the Supply, Installation, Testing & Commissioning of

### Water Filtration Unit

|                                 |                                                                        |
|---------------------------------|------------------------------------------------------------------------|
| Tender Reference No.            | MAGIC ITI-Jalna/Capex/2026-27/003                                      |
| Name of Work                    | Supply, Installation, Testing & Commissioning of Water Filtration Unit |
| Issuing Authority               | Director, MAGIC                                                        |
| Date of Issue                   | 10 / 06 / 2026                                                         |
| Last Date of Submission         | 26 / 06 / 2026 (up to 3:00 PM)                                         |
| Date of Opening of Envelope- I  | 26 / 06 / 2026 (at 4:30 PM)                                            |
| Date of Opening of Envelope- II | 30 / 06 / 2026 (at 4:00 PM)                                            |

*Sealed tenders are invited from reputed manufacturers / authorised dealers having experience in supply of industrial training equipment for the above-mentioned item.*

## **SECTION 1: NOTICE INVITING TENDER (NIT)**

The Director, MAGIC (hereinafter referred to as the "Purchaser") invites sealed tenders from eligible, experienced, and reputed manufacturers or their authorised dealers/distributors for the Supply, Installation, Testing, and Commissioning of ONE (01) Water Filtration Unit as per the technical specifications laid down in this document.

### **1.1 Scope of Tender**

The scope of this tender covers the following activities:

- (a) Design, manufacture/procure, and supply of one (01) Water Filtration Unit complete in all respects.
- (b) Delivery at the MAGIC ITI premises, including unloading and placement at the designated location.
- (c) Installation, alignment, and commissioning of the equipment.
- (d) Performance testing and demonstration to the satisfaction of the Purchaser.
- (e) Training to staff/instructors on safe operation and routine maintenance.
- (f) Supply of Operation & Maintenance Manual (2 hard copies + 1 soft copy on USB drive).

### **1.2 Funding**

The procurement is funded from the government grant earmarked for Capital Expenditure for setting up Prototyping Facility at MAGIC ITI-Jalna Incubation Center under DPDC scheme. The Purchaser reserves the right to cancel or modify the tender at any stage without assigning any reason.

### **1.3 Tender Documents**

The complete tender document (NIT, technical specifications, terms & conditions, price bid format, and declaration forms) is available on the website of MAGIC ([www.magicincubation.com](http://www.magicincubation.com)) for download.

## **SECTION 2: INSTRUCTIONS TO BIDDERS (ITB)**

### **2.1 Eligibility Criteria**

1. The bidder shall be a manufacturer of Water Filtration Unit systems/test benches OR an authorised dealer/distributor of such equipment with a valid dealership/authorisation certificate from the OEM.
2. The bidder shall have successfully supplied and commissioned at least THREE (03) Water Filtration Unit Test Benches of similar or higher capacity to reputed educational institutions, PSUs, or industries during the last THREE (03) years. Documentary evidence (purchase orders + satisfactory performance certificates) must be enclosed.
3. The bidder shall possess a valid GST Registration Certificate.
4. The bidder shall not be blacklisted / debarred by any State or Central Government department or PSU at the time of submission of the bid. A self-declaration to this effect must be submitted.

### **2.2 Two-Bid System**

5. The tender shall be submitted in a TWO-BID system comprising: (a) Technical Bid (Envelope-I) and (b) Financial / Price Bid (Envelope-II), both sealed separately and placed together in a single outer sealed envelope.
6. Envelope-I (Technical Bid) shall contain: eligibility documents, technical compliance statement, manufacturer's authorisation (if applicable), ISO/BIS certificates, and all other supporting documents.
7. Envelope-II (Price Bid) shall contain ONLY the Price Bid Form (Schedule of Quantities) duly filled, signed, and stamped. No price indication of any kind shall appear in Envelope-I.
8. Price bids of only those bidders whose technical bids are found compliant shall be opened.

### **2.3 Bid Submission**

9. Sealed bids shall be submitted to the Center Head, MAGIC ITI-Jalna Incubation Center, Govt. ITI Campus, Chandanzira, Jalna on or before the last date and time mentioned on the cover page. Bids received after the stipulated time shall be summarily rejected.
10. Bids shall be submitted in person or by registered/speed post. Bids sent by courier/email/or any other means shall NOT be accepted.
11. The outer envelope shall be superscribed: "TENDER FOR WATER FILTRATION UNIT- Tender Ref. No. MAGIC ITI-Jalna/Capex/2026-27/003 - DO NOT OPEN BEFORE <sup>26</sup>/<sub>6</sub>/2026 (<sup>4:30</sup>~~3:30~~ PM)".
12. The bidder or their authorised representative may be present during bid opening.

### **2.4 Bid Validity**

13. Bids shall remain valid for a period of 120 (One Hundred Twenty) days from the date of opening of the Technical Bid.
14. In exceptional circumstances, the Purchaser may request an extension of bid validity. Bidders may submit their extension at their discretion.

## **2.5 Amendment of Tender Documents**

15. The Purchaser reserves the right to amend the tender documents at any time prior to the last date of submission. All amendments shall be communicated to all prospective bidders who have obtained the tender document and shall be binding on them.
16. To provide adequate time for bidders to incorporate amendments, the Purchaser may, at its discretion, extend the deadline for submission.

## **2.6 Clarifications**

17. Bidders requiring any clarification on the tender document may submit written queries to [ceo@magicincubation.com](mailto:ceo@magicincubation.com) at least 07 (seven) working days before the last date of submission. Clarifications will be issued by email to all bidders.



### SECTION 3: TECHNICAL SPECIFICATIONS

The Water Filtration Unit to be supplied shall conform to, or exceed, the following technical specifications. Compliance to each parameter is MANDATORY. The bidder shall submit a point-by-point compliance statement cross-referencing their offered model.

#### 3.1 System Overview and Key Parameters

| Parameter                  | Specification / Value                                                                                                        |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------|
| System                     | Industrial Water Filtration and Recirculation System for training / demonstration – complete integrated plant                |
| Design Filtration Capacity | 5 M3/hr (Five Cubic Metres per Hour)                                                                                         |
| Application                | Removal of suspended solids, turbidity, scale, and particulates from process / cooling water for ITI training demonstrations |

#### 3.2 FRP (Fibre Reinforced Plastic) Cooling Tower

| Parameter        | Specification / Value                                                 |
|------------------|-----------------------------------------------------------------------|
| Type             | Induced draft / forced draft counter-flow or cross-flow cooling tower |
| Capacity         | 5 M3/hr water circulation rate                                        |
| Material         | FRP (Fibre Reinforced Plastic) – corrosion resistant, UV stabilised   |
| Fill Media       | PVC splash-type or film-type fill                                     |
| Fan              | Aerofoil blade, FRP, direct drive or belt drive motor                 |
| Fan Motor        | Minimum 0.37 kW (0.5 HP), 3-phase or single-phase, as applicable      |
| Nozzles          | ABS / HDPE distribution nozzles – even water distribution across fill |
| Drift Eliminator | PVC drift eliminator to minimise water carry-over                     |
| Basin            | Integral sump/basin with overflow, drain, and makeup connection       |
| Fittings         | Inlet, outlet, overflow, drain – all with isolation valves            |
| Capacity Plate   | Nameplate with capacity, model, serial number affixed                 |

#### 3.3 Fabricated Scale Pit Tank

| Parameter | Specification / Value                                                                          |
|-----------|------------------------------------------------------------------------------------------------|
| Type      | MS fabricated tank with epoxy / coal tar epoxy lining, or HDPE moulded tank                    |
| Capacity  | As required for 5 M3/hr system (minimum 500 litres recommended)                                |
| Function  | Collection of scale, sludge, and heavy particulates; gravity settling                          |
| Features  | Inlet baffle, sludge drain valve (minimum 1.5" BSP), overflow connection, access manhole, vent |
| Supports  | Structural MS supports with anti-corrosion paint; floor mounting                               |

### 3.4 Clarifier Tank

| Parameter        | Specification / Value                                                           |
|------------------|---------------------------------------------------------------------------------|
| Type             | Upflow clarifier / lamella clarifier / conventional settling tank as per design |
| Capacity         | Sized for 5 M3/hr flow with adequate HRT (Hydraulic Retention Time)             |
| Material         | MS fabricated with epoxy lining; or FRP; or RCC lined (as per design)           |
| Function         | Removal of fine suspended solids, chemical floc / coagulated matter             |
| Inlet / Outlet   | With baffles / weirs for uniform distribution                                   |
| Sludge Drain     | Sloped bottom with sludge drain valve (minimum 1.5" BSP)                        |
| Dosing Provision | Inlet port for chemical dosing (coagulant / flocculant)                         |

### 3.5 Cooling Tower Tank (Make-up / Sump Tank)

| Parameter | Specification / Value                                                    |
|-----------|--------------------------------------------------------------------------|
| Type      | MS fabricated with epoxy lining or HDPE / FRP tank                       |
| Capacity  | Sized for 5 M3/hr system operation (minimum 500 litres recommended)      |
| Function  | Holding tank for treated / make-up water for cooling tower recirculation |
| Features  | Float valve / level sensor for automatic make-up, overflow, drain, vent  |

### 3.6 Pressure Sand Filter (PSF)

| Parameter        | Specification / Value                                                                                                |
|------------------|----------------------------------------------------------------------------------------------------------------------|
| Type             | Vertical pressure vessel, MS / FRP construction                                                                      |
| Design Flow Rate | 5 M3/hr                                                                                                              |
| Vessel Rating    | Minimum 6 bar working pressure; design pressure 10 bar                                                               |
| Filter Media     | Graded quartz / silica sand; effective size 0.4–0.6 mm; uniformity coefficient $\leq 1.6$ ; bed depth minimum 600 mm |
| Support Gravel   | Graded gravel layers below sand bed; 4 grades                                                                        |
| Underdrain       | Hub and lateral / nozzle type stainless steel / UPVC                                                                 |
| Inlet / Outlet   | Flanged / screwed connections, with isolation valves                                                                 |
| Backwash         | Manual or automatic backwash provision; backwash rate minimum 20 m3/m2/hr                                            |
| Pressure Gauges  | Differential pressure gauge / gauge before and after filter; 0–6 bar                                                 |
| Inspection Port  | Top manhole / inspection port for media access                                                                       |
| Certificates     | Vessel design / inspection certificate as applicable                                                                 |

### 3.7 Monoblock Pump Set

| Parameter | Specification / Value |
|-----------|-----------------------|
|-----------|-----------------------|



|            |                                                                              |
|------------|------------------------------------------------------------------------------|
| Type       | Centrifugal monoblock pump set                                               |
| Capacity   | 5 M3/hr at adequate head to overcome system resistance (minimum 20 m head)   |
| Quantity   | Minimum 2 Nos. (1 Duty + 1 Standby or as per system design)                  |
| Motor      | 3-phase, 415 V $\pm$ 10%, 50 Hz; power as per pump duty point; IP-55 minimum |
| Casing     | Cast iron or SS-304 impeller; mechanical seal                                |
| Flanges    | Suction and discharge flanges with isolation gate valves and NRVs            |
| Base Plate | Common MS base plate, grouted to floor                                       |

### 3.8 Piping, Valves, and Instrumentation

| Parameter         | Specification / Value                                                                    |
|-------------------|------------------------------------------------------------------------------------------|
| Piping Material   | UPVC / CPVC / GI / MS as per service; minimum 1.5" diameter for main lines               |
| Pipe Fittings     | Flanged or screwed connections; isolation valves on all equipment in/out                 |
| Control Valves    | Manual gate / butterfly valves at key locations for flow isolation and control           |
| Non-Return Valves | On pump discharge lines – swing type or spring-loaded                                    |
| Flow Meter        | Rotameter or electromagnetic flow meter, 0–10 M3/hr, in-line                             |
| Pressure Gauges   | At pump suction, pump discharge, filter inlet and outlet; Bourdon type, glycerine-filled |
| Level Indicators  | On tanks – PVC/glass tube level indicators or ultrasonic level sensors                   |
| Sample Ports      | At inlet, between stages, and outlet – for turbidity / quality monitoring                |

### 3.9 Electrical and Control Panel

| Parameter | Specification / Value                                                                                                             |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------|
| Panel     | Powder-coated steel enclosure; DOL / star-delta starters for pumps and cooling tower fan motor; overload relays; MCBs; indicators |
| Wiring    | Colour-coded wiring to IS:694 / IS:1554; cable trays / conduit where applicable                                                   |
| E-Stop    | Emergency stop accessible from working area                                                                                       |
| Earthing  | All metallic parts to be earthed as per IE Rules                                                                                  |

### 3.10 Additional Requirements

18. The entire system shall be supplied as an integrated, interconnected plant mounted on a common structural frame / skid (portable / modular preferred) for ease of demonstration.
19. A laminated Process Flow Diagram (PFD) and Piping & Instrumentation Diagram (P&ID) shall be affixed on the unit.
20. The system shall be pre-assembled and pre-tested at the supplier's works before dispatch.

21. All materials of construction in contact with water shall be corrosion-resistant and food-safe (or suitable for industrial water).
22. The system shall be designed for easy maintenance and replacement of filter media.

### 3.11 Compliance Statement Requirement

The bidder shall provide a Compliance Statement in the following format for each parameter listed in Section 3. Any deviation – whether major or minor – shall be clearly stated. Unstated deviations discovered after award shall render the contract liable for cancellation.

| Sr.No. | Specified Parameter | Offered Specification | Compliant<br>(Yes/No/Deviation) |
|--------|---------------------|-----------------------|---------------------------------|
| 1      |                     |                       |                                 |
| 2      |                     |                       |                                 |
| 3      |                     |                       |                                 |
| 4      |                     |                       |                                 |
| 5      |                     |                       |                                 |



## **SECTION 4: TERMS AND CONDITIONS**

### **4.1 Delivery Terms**

23. Delivery shall be F.O.R. (Free on Road) destination, i.e., at MAGIC ITI-Jalna premises, inclusive of all packing, forwarding, freight, and insurance charges.
24. The required delivery period is SIXTY (60) days from the date of issuance of the Purchase Order (PO). Time shall be of the essence of the contract.
25. The supplier shall intimate the Purchaser at least 07 days in advance of the expected delivery date.
26. The equipment shall be delivered in completely factory-assembled condition unless otherwise specified. Field assembly shall require prior written approval.
27. All supplies shall be accompanied by: (a) Packing list, (b) Delivery challan, (c) Manufacturer's test certificate, (d) Guarantee / warranty certificate.

### **4.2 Installation and Commissioning**

28. The supplier shall complete installation and commissioning of the equipment within FIFTEEN (15) days of delivery at no additional cost to the Purchaser.
29. Commissioning shall be deemed complete only after the equipment demonstrates performance at all specified parameters under full load conditions and to the satisfaction of the Purchaser's representative / inspection committee.
30. The supplier shall provide hands-on training to the staff members on operation, preventive maintenance, and troubleshooting, for a minimum of TWO (02) working days.
31. A Commissioning Report signed by both parties shall be prepared upon successful commissioning.

### **4.3 Warranty**

32. The equipment shall be warranted against manufacturing defects, faulty materials, and poor workmanship for a period of TWENTY-FOUR (24) months from the date of successful commissioning or TWENTY-SEVEN (27) months from the date of dispatch, whichever is earlier.
33. The warranty shall be comprehensive, covering all parts and labour. The supplier shall rectify/replace any defective part within SEVEN (07) working days of receipt of a written complaint.
34. If the downtime of the equipment exceeds FIFTEEN (15) consecutive working days during the warranty period due to the supplier's fault, the warranty period shall be extended by an equivalent number of days.
35. Consumables (Water Filtration Unit oil, filter elements, O-rings, seals, belts) are excluded from warranty coverage unless failure is due to manufacturing defect.
36. The Purchaser shall not be liable for any costs incurred by the supplier's personnel for travel, boarding, or lodging during warranty visits.

### **4.4 Post-Warranty Annual Maintenance Contract (AMC)**

The supplier shall, at the time of bidding, provide a quote for post-warranty AMC (Comprehensive) for a period of THREE (03) years (Year 3 to Year 5) after the warranty period. The AMC cost is for

evaluation purposes and shall be included in the price bid. The Purchaser is not bound to award the AMC to the same supplier.

#### **4.5 Payment Terms**

37. Twenty percent (20%) of the contract value shall be paid with the Purchase Order against submission of Irrevocable Bank Guarantee of the equivalent amount from the Nationalised Bank. The Bank Guarantee will be encashed if the successful bidder fails to supply the equipment within the stipulated period.
38. Sixty percent (60%) of the contract value shall be paid against proforma invoice and despatch documents.
39. Ten percent (10%) shall be released within THIRTY (30) days of successful commissioning, submission of the signed Commissioning Report, O&M manuals, and training completion certificate.
40. All payments shall be made by RTGS / NEFT / Account Payee Cheque.
41. Taxes and duties shall be paid as applicable. The invoice shall clearly indicate HSN/SAC code, GST rate, and GST amount separately. Input Tax Credit (ITC) compliant invoices are mandatory.
42. Payment shall be subject to deduction of applicable TDS as per prevailing Income Tax provisions.

#### **4.6 Performance Security (Security Deposit)**

43. Ten percent (10%) of the contract value shall be retained for the warranty period plus sixty (60) days.
44. The Performance Security shall be returned within SIXTY (60) days of satisfactory completion of the warranty period.

#### **4.7 Liquidated Damages (LD) for Delay**

45. If the supplier fails to deliver and commission the equipment within the stipulated delivery period (including any approved extension), Liquidated Damages (LD) shall be levied at the rate of HALF percent (0.5%) of the contract value per week of delay, subject to a maximum of TEN percent (10%) of the contract value.
46. LD shall be recovered by deduction from the payment due or from the Performance Security. Levy of LD does not relieve the supplier from the obligation to complete the supply and commissioning.
47. In cases where delay is attributable solely to the Purchaser (e.g., site not ready), the delivery period shall be extended accordingly.

#### **4.8 Inspection and Acceptance**

48. The Purchaser reserves the right to inspect the equipment at the supplier's works prior to dispatch. The supplier shall provide at least TEN (10) days advance notice before dispatch.
49. Inspection at the supplier's works shall not relieve the supplier of responsibility to supply equipment conforming to the specifications.
50. A Joint Inspection Committee (JIC) constituted by the Purchaser shall carry out final acceptance testing at the MAGIC premises. The supplier's representative shall be present during acceptance testing.
51. Equipment not meeting specifications shall be rejected and the supplier shall replace it at their own cost within THIRTY (30) days.



#### **4.9 Force Majeure**

Neither party shall be liable for delay or failure in performance resulting from causes beyond their reasonable control ("Force Majeure"), including natural disasters, acts of God, war, riots, strikes, or government actions. The affected party shall notify the other in writing within SEVEN (07) days of the occurrence. If Force Majeure conditions persist for more than SIXTY (60) days, either party may terminate the contract without penalty.

#### **4.10 Sub-Contracting**

The supplier shall not sub-contract the whole of the work. Sub-contracting of specific components is permissible only with prior written approval of the Purchaser. The supplier remains solely responsible for the performance of the sub-contracted work.

#### **4.11 Intellectual Property**

All manuals, drawings, and documentation supplied with the equipment shall become the property of the Purchaser. The Purchaser shall be free to reproduce such documents for internal training and maintenance purposes.

#### **4.12 Governing Law and Dispute Resolution**

- 52. This contract shall be governed by the laws of India and the jurisdiction of the courts at the location of MAGIC ITI-Jalna Incubation Center.
- 53. Any dispute arising out of or relating to this contract shall first be resolved amicably through mutual negotiation within THIRTY (30) days of written notice of the dispute.

#### **4.13 General Conditions**

- 54. The Purchaser reserves the right to accept or reject any or all bids without assigning any reason.
- 55. The Purchaser reserves the right to split the order, reduce or increase quantities, or cancel the tender at any stage.
- 56. Canvassing in any form by the bidder or their representatives shall result in disqualification.
- 57. The bidder shall bear all costs associated with preparation and submission of the bid.
- 58. Any information furnished in the bid shall be treated as confidential by the Purchaser.
- 59. The specifications given in this tender are the minimum requirements. Suppliers are encouraged to offer equipment with higher specifications / additional features at the same or lower price.
- 60. All goods supplied shall be new, unused, of latest design, and of good quality.
- 61. The equipment shall comply with all applicable safety norms and electrical regulations in force in India.



## SECTION 5: PRICE BID FORMAT (SCHEDULE OF QUANTITIES)

To be submitted separately in sealed Envelope-II. The bidder shall quote for each line item. Rates shall be inclusive of all costs up to destination (F.O.R. MAGIC ITI-Jalna Incubation Center) but EXCLUSIVE of GST. GST shall be indicated separately.

| Sr. | Description                          | Qty. | Unit | Unit Price<br>(Ex-GST)<br>(Rs.) | GST<br>Rate (%) | GST Amt.<br>(Rs.) | Total Price<br>(Incl. GST)<br>(Rs.) |
|-----|--------------------------------------|------|------|---------------------------------|-----------------|-------------------|-------------------------------------|
| 1   | Water Filtration Unit(as per spec)   | 01   | No.  |                                 |                 |                   |                                     |
| 2   | Installation & Commissioning Charges | 01   | Lot  |                                 |                 |                   |                                     |
| 3   | Training Charges (2 days, 4 persons) | 01   | Lot  |                                 |                 |                   |                                     |
| 4   | O&M Manual (2 hard + 1 soft copy)    | 01   | Set  |                                 |                 |                   |                                     |
| 5   | AMC (Comprehensive) Year 3           | 01   | Year |                                 |                 |                   |                                     |
| 6   | AMC (Comprehensive) Year 4           | 01   | Year |                                 |                 |                   |                                     |
| 7   | AMC (Comprehensive) Year 5           | 01   | Year |                                 |                 |                   |                                     |
|     | GRAND TOTAL (Items 1 to 4)           |      |      |                                 |                 |                   |                                     |

*Note: (i) Grand Total (Items 1 to 4) shall be used for evaluation of bids. (ii) AMC quotes (Items 5-7) are indicative and not included in comparative evaluation. (iii) Quote in Indian Rupees only. Prices once quoted shall be FIRM and not subject to any price escalation for any reason whatsoever during the contract period.*

## SECTION 6: BID SUBMISSION CHECKLIST AND DECLARATION

### 6.1 Checklist of Documents to be Submitted in Envelope-I (Technical Bid)

- GST Registration Certificate
- PAN Card copy
- Manufacturer's Certificate / Dealership Authorisation Letter (if dealer)
- Audited Balance Sheets for last 3 financial years (or CA certificate of turnover)
- Copies of at least 3 purchase orders for similar equipment (last 5 years)
- Satisfactory performance/completion certificates from end-users for above orders
- Technical literature / catalogue of the offered equipment
- Technical Compliance Statement (point-by-point against Section 3.1 specifications)
- List of after-sales service centres and contact details
- Details of service engineers available in the region
- Undertaking that the firm is not blacklisted / debarred by any government body
- Any other relevant document

### 6.2 Declaration by Bidder

I / We, the undersigned, having carefully read and understood all the terms, conditions, and specifications contained in this tender document, hereby offer to supply, install, test, and commission the Water Filtration Units specified therein, at the prices quoted in the Price Bid (Envelope-II), which are firm and final.

I / We confirm that all information and documents furnished in this bid are true and correct to the best of our knowledge. I / We understand that any misrepresentation will result in disqualification.

I / We agree to abide by all the terms and conditions of this tender document and the contract that may be awarded as a result of this tender.

|                               |                  |
|-------------------------------|------------------|
| Name of Authorised Signatory: | makrand Kulkarni |
| Designation:                  | CEO              |
| Company Name and Address:     | MAGSE ITI Jalga  |

Date: 10.6.2020

Signature with Seal: \_\_\_\_\_



— END OF TENDER DOCUMENT —