



National Federation of Farmer's Procurement Processing & Retailing Cooperatives of India Ltd. (NACOF)
A Multi-State Co-Operative Federation Registered under the Ministry of Cooperation, Government of India

No-NACOF/OD/2026-27/204

Date- **12.06.2026**

SHORT TENDER CALL NOTICE

Sealed Tender in two cover bid systems are hereby invited from the intending individual contractors/firms/company for "Installation, Commissioning and O&M of IoT-Based Integrated Mini Water Treatment Plants (3,000 LPH) in 3GP Villages Rekhideipur, Endalaba, Raichanda of Dharamshala Blocks under DMF Jajpur" as per the terms and conditions. The Tender shall be submitted in prescribed form to the undersigned on or before **23.06.2026 by 1.00 P.M.** Only. The tender documents will be available on the website <http://www.nacof.in>. Contractors duly empaneled with NACOF and other contractors/firms having valid registration, GST, PAN, and other statutory clearances are also eligible to participate in the tender. The work shall be completed within 60 days from the date of issuing the work order. The Defect liability period shall be as per agreement conditions. Sealed tender should be reached at the office of the undersigned on or before of the scheduled time through speed post/courier/ by person. Office of the undersigned is not responsible for any kind of delay in receiving the tender.

Sl. No.	Name of the project	Quantity	Period of completion
1	Installation, Commissioning and O&M of IoT-Based Integrated Mini Water Treatment Plants (3,000 LPH) in 3GP Villages Rekhideipur, Endalaba, Raichanda of Dharamshala Blocks under DMF Jajpur District	03 no	60 Days

1. Eligibility Criteria

- Registered suppliers/vendors contractors with valid statutory registrations Contractors must have valid Registration certificate in the State of Orissa.
- Experience in Installation, Commissioning and O&M of IoT-Based Integrated Mini Water Treatment
- Copy of income Tax Return
- Copy of the Turn over Certificate
- Bidder must have submitted an undertaking regarding the Blacklisting as annexed in **Schedule-1**
- Bidder must have submit the No relationship certificates as annexed in the **Schedule-2**
- Legal status and details of Contractor must have to submit as attached in **Schedule-3**
- **Letter head of the Applicant** for Financial bid of Contractor must have to submit as attached in **Schedule-4**
- Check list details of Contractor must have to submit as attached in **Schedule-5**

2. Cost of Tender Paper & EMD

- Tender Paper Cost-Rs5000.00(non-refundable) deposit in shape of cash or demand draft drawn in favour of **National FED Farmers procurement proc & retail coop Ind ltd.**, Bhubaneswar from any nationalized scheduled bank
- Earnest Money Deposit (EMD: NIL -For the Empanelled bidder of NACOF. Others bidders are to be deposited EMD @ 1% of their quoted value in shape of DD/TDR in favour of the undersigned. The Bidders who are registered under MSME in can avail the EMD exemption against submission of the Udyam/MSME Registration Copy. Non submission of EMD/ Exemption of EMD certificates, the bid of such bidders are liable for rejection

3. Tender Submission

The tender shall be submitted in a **sealed cover** superscribing the name of the work and must include:

- Filled all tender documents
- Cover-1 as Technical Bid as per the required documents.
- Cover-2 as the Financial BID.

4. Evaluation of Tender

The tender will be evaluated based on:

- Eligibility criteria
 - Experience and past performance
 - Quoted rates
- NACOF reserves the right to negotiate with the lowest bidder (L1)

5. Scope Work:

(A) Civil Works and Site Development

- Site survey, ground levelling, and preparation of reinforced concrete platform for plant installation
- Borewell drilling up to 300 feet, 6.5-inch PVC casing (40 ft), submersible pump set (SS 304, 6 m³/hr), electrical starter panel, HDPE delivery pipeline, fittings, testing and full commissioning
- Protective fencing (solar grid / barbed wire with entry gate) around the plant boundary
- Drainage arrangement for rejecting water disposal to designated drain
- Cvered shed for EV charging unit and solar system enclosure
- Access road preparation and all pipeline connectivity up to the plant structure

(B) Water Station Cabin

- Fabrication and erection of Water Station Cabin: 30 ft × 20 ft × 12 ft height (or 25 ft × 20 ft × 12 ft as per site)
- Construction: 50 mm thick PUF panel with PPGI sheets (0.45 mm inner and outer), OR equivalent PEB structure with hollow MS sections and PPGI color-coated sheets
- Sliding door, hinged door, windows, and weather-protected enclosure for all equipment

(C) Pre-Treatment System

- Chemical dosing — 2 Nos. electronic diaphragm pumps (0–4 LPH at 3 KSC), 50-litre chemical tank, suction filter, injector
- Static Mixer (SS 304) and Flash Mixer / Coagulation Chamber (High Speed Electric Driven, SS 304)
- Lamellar Clari flocculator — Vertical, conical bottom; Dia. 1.8 m × Height 2.0 m
- Clarified Water Storage Tank — HDPE, Vertical Cylindrical (Sintex / equivalent)
- Clarified Water Pumps — 2 Nos. (1W + 1S); Centrifugal Monoblock; 6 m³/hr @ 30 MWC; SS 304; 2.0 HP Single Phase
- Multi-Media Filter — 1 No.; 30" × 72" FRP/PE vertical pressure vessel; graded media; PP Multi-port valve
- Activated Carbon Filter — 1 No.; 24" × 72" FRP/PE vertical pressure vessel; crushed activated carbon (mesh 8×16); PP Multi-port valve
- Primary Micron Filters — 2 Nos. (10 micron); Big Blue 20"; Spun bonded PP cartridge
- Secondary Micron Filters — 2 Nos. (5 micron); Big Blue 20"; Spun bonded PP cartridge

(D) Reverse Osmosis Treatment System

- Anticalin Dosing Pump — Electronic Diaphragm; 0–4 LPH @ 4 bar
- RO High-Pressure Pump — 3.0 m³/hr @ 100 MWC; 3 HP; Single Phase Vertical Inline
- 2 Sets of RO Pressure Vessels — 8", 300 PSI, end ports; 2 Nos. 8" CPA2-8040 Hydranautics membranes per vessel
- Ion Exchange Polishing Unit — 8" × 35" FRP/PE vessel; Ion Exchange Resin; PP Multi-port valve
- UV Sterilizer — 32W; 3,000 LPH; SS 304 EP body
- Product Water Storage Tank — Vertical, Cylindrical SS 304 with dished ends; GI frame with ladder
- Product Water Transfer Pumps — 2 Nos. (1W + 1S); 3,000–4,000 LPH @ 10 MWC

(€) IoT-Based Monitoring and RFID Dispensing

- RFID card-operated Auto Dispensing Unit — SS 304 panel; RFID reader with display; motorized faucet with flow sensor; manual bypass valve; IoT-integrated control software
- IoT platform for real-time monitoring of plant performance, water quality parameters, operational status, and system alerts
- Centralized MIS dashboard — accessible to NACOF, DMF Jaipur, and District Administration
- Transaction logs with household-wise daily dispensing records and RFID card management
- CCTV surveillance system at plant and dispensing point
- PLC-based pre-wired electrical control panel; membrane keypad; semi-automatic operation

(F) Solar Power System — 15 KW Off-Grid

- 15 KW MPPT Off-Grid Solar Power System — Indian Made
- Solar PV Modules: 730 Wp × 21 Nos. per plant; 30-year linear performance warranty
- Power Conditioning Unit: MPPT Off-Grid PCU — 12 KVA / 240 VDC Single Phase; 5-year on-site warranty
- Battery Bank: Lithium Ion — 100 Ah, 240 V; solar-application specific; 5-year warranty
- Complete accessories: GI Mounting Structure, Battery Stand, DC UV-Protected Cables, AC Cables, MC4 Connectors, ACDB, DCDB, Lightning Arrester, 3 Nos. Earthing's, Conduit Pipes and all standard accessories

(G) Operation and Maintenance — 5 Years

- Deployment of trained plant operator at each location for day-to-day management
- Routine inspection, preventive maintenance, and troubleshooting
- Replacement of all consumables — micron filter cartridges, UV lamps, filter media, RO membranes — at no additional cost to NACOF / DMF
- Chemical procurement, dosing management (coagulant, Antiscalant, pH correction)
- Calibration of IoT sensors; maintenance of monitoring systems and dashboard

- Regular water quality testing to ensure continuous BIS 10500:2012 compliance
- Monthly progress reports and water quality test reports to NACOF / DMF, Jajpur
- Handover of all operation manuals, technical drawings, and IoT access credentials upon commissioning

6. General Terms & Conditions.

- i) NACOF reserves the right to accept or reject any or all tenders without assigning any reason
- ii) The contractor shall follow all relevant CPWD/OPWD specifications and standards
- iii) The successful bidder should deposits 10% of Contract Value as a Performance Security in shape of Bank Guarantee PBG should be valid for a period 60 months contract period
- iv) Quality of work must be maintained as per approved specifications
- v) Any deviation from the specification shall lead to rejection of work
- vi) Contractor responsible for site safety
- vii) No escalation unless specified
- viii) Quality control mandatory
- ix) All applicable taxes shall be borne by the contractor
- x) Defective work to be rectified at contractor's cost
- xi) The contractor shall be responsible for safety and security at site
- xii) Payment shall be made as per measurement and progress of work
- xiii) The contractor must deploy adequate manpower and machinery
- xiv) Any defect during warranty must be rectified within [48/72 hours]
- xv) NACOF reserves the right to accept or reject any or all quotations without assigning any reason

xvi) Conditional or incomplete quotations shall be rejected

7. Financial Bid

A) Name of Work- Installation, Commissioning and O&M of IoT-Based Integrated Mini Water Treatment Plants (3,000 LPH) in 3GP Villages Rekhidipur, Endalaba, Raichanda of Dharamshala Blocks under DMF Jajpur District

Sl no	Item of work	Unit	Qty	Quoted Rate	
				Rate in figure	Rate in word
1	Borewell System — Drilling (up to 300 ft), casing, submersible pump, electrical starter, HDPE pipeline, fittings, testing and commissioning	Per Unit	3		
2	Civil Infrastructure and Site Development Platform, fencing, protective enclosure, solar shed, pipeline connectivity	Per Unit	3		
3	Water Station Building — Fabricated PUF/PEB structure (30 ft × 20 ft × 12 ft) with doors, windows, weather-protected enclosure	Per Unit	3		

4	Pre-Treatment Unit — Chemical dosing, flash mixer, Clari flocculator, clarified water tank, transfer pumps	Per Unit	3		
5	Reverse Osmosis Treatment System — MMF, ACF, micron filters, RO membranes, high-pressure pumps, ion exchange, UV sterilizer, RFID dispensing, IoT integration	Per Unit	3		
6	Remote Dispensing Unit (RDU) — Water kiosk structure with 2,000-litre SS storage tank for controlled community distribution	Per Unit	3		
7	Solar Power System with Battery Backup — 15 KW off-grid MPPT system with Lithium battery bank (100 Ah, 240 V)	Per Unit	3		
8	RFID User Management Software, IoT-Based MIS, CCTV Surveillance, Installation, Testing & Commissioning (All 4 Units)	Lump Sum	3		
9	Operation and Maintenance (5 Years) — Manpower, chemicals, spares, consumables, servicing, preventive maintenance	Per Unit	3		
10	AMC for Solar Power System (5 Years) Preventive maintenance, sensor calibration, battery servicing	Per Unit	3		

**Dy.General Manager(T),
NACOF, Bhubaneswar.**

Memo No-NACOF/OD/2026-7/ 205 Date- 12.02.2026

Copy submitted to the Accountant, State Manger, Admin Mananger & MIS (NACOF, BBSR)/ Head Office Delhi NACOF /Pa to Chairman NACOF/ to DMF Jajpur for kind information.

**Dy.General Manager(T),
NACOF, Bhubaneswar.**

PRICE BID

Tender Inviting Authority: National Federation of Farmer's Procurement Processing
& Retailing Cooperatives of India Ltd. (NACOF)

Name of the Principal : DMF Jajpur.

B) Name of Work :- Installation, Commissioning and O&M of IoT-Based Integrated Mini Water Treatment Plants (3,000 LPH) in 3GP Villages Rekhideipur, Endalaba, Raichanda of Dharamshala Blocks under DMF Jajpur District

Name of the Bidder : _____.

GST No of Bidder : _____.

Address of Bidder : _____.

Rate Offer

Sl no	Item of work	Unit	Qty	Quoted Rate	
				Rate in figure	Rate in word
1	Borewell System — Drilling (up to 300 ft), casing, submersible pump, electrical starter, HDPE pipeline, fittings, testing and commissioning	Per Unit	3		
2	Civil Infrastructure and Site Development Platform, fencing, protective enclosure, solar shed, pipeline connectivity	Per Unit	3		
3	Water Station Building — Fabricated PUF/PEB structure (30 ft × 20 ft × 12 ft) with doors, windows, weather-protected enclosure	Per Unit	3		
4	Pre-Treatment Unit — Chemical dosing, flash mixer, Clari flocculator, clarified water tank, transfer pumps	Per Unit	3		
5	Reverse Osmosis Treatment System — MMF, ACF, micron filters, RO membranes, high-pressure pumps, ion exchange, UV sterilizer, RFID dispensing, IoT integration	Per Unit	3		
6	Remote Dispensing Unit (RDU) — Water kiosk structure with 2,000-litre SS storage tank for controlled community distribution	Per Unit	3		
7	Solar Power System with Battery Backup — 15 KW off-grid MPPT system with Lithium battery bank (100 Ah, 240 V)	Per Unit	3		
8	RFID User Management Software, IoT-Based MIS, CCTV Surveillance, Installation, Testing & Commissioning (All 4 Units)	Lump Sum	3		

9	Operation and Maintenance (5 Years) — Manpower, chemicals, spares, consumables, servicing, preventive maintenance	Per Unit	3		
10	AMC for Solar Power System (5 Years) Preventive maintenance, sensor calibration, battery servicing	Per Unit	3		

(Above Price is inclusive of NACOF Service Charge @ 3% & 18% GST on Service Charge).

Signature of the Bidder

Date :

**Dy. General Manager (T)
NACOF, Bhubaneswar.**

Schedule -1

Self Declaration For Non-Blacklisting And Authenticity Of Documents

I/We hereby declare that our firm/company has not been blacklisted or debarred by any Central/State Government, PSU, Autonomous Body, Municipality/NAC or any statutory authority & submitted all the relevant documents & statements are true and correct as on the date of submission of this RFP.

Seal & Signature.

Date :

Schedule -2

Certificate Of No Relationship

I/We hereby certify that I/We am/are **related/not related** to any officer of P.W.D of the rank of Assistant Engineer & above and any officer of the rank of Assistant / Under Secretary and above of the Works Department, Govt. of Odisha I/We am/are aware that, if the facts subsequently proved to be false, my/our contract will be rescinded with forfeiture of E.M.D and security deposit and I/We shall be liable to make good the loss or damage resulting from such cancellation. I//We also note that, non-submission of this certificate will render my / our tender liable for rejection

Seal & Signature.

Date :

Legal Status of the Bidder

1. Name of the Bidder/Firm: _____.

2. Name of the Owner/Promoter: _____.

3. Address of the Bidder: _____.

_____.

_____.

4. Constitution of Firm: _____.

5. Contact No: _____.

6. Mail ID: _____.

7. GST No: _____.

8. Pan No: _____.

9. Registration No: _____.

10. Bank Mandate :

i. Bank Name : _____.

ii. Account No : _____.

iii. Branch Name : _____.

iv. IFSC Code : _____.

Seal & Signature.

Date :

Schedule -4

(On the Letter head of the Applicant/Bidder)

To

The Dy. General Manager (T),
NACOF, Bhubaneswar.
Plot No.- 60, 2nd Floor,
Prachi Enclave, Chandrasekharapur,
Bhubaneswar – 751016, Odisha.

Sub:Submission **Financial Bid** for the work “Installation, Commissioning and O&M of IoT-Based Integrated Mini Water Treatment Plants (3,000 LPH) in 3GP Villages Rekhideipur, Endalaba, Raichanda of Dharamshala Blocks under DMF Jajpur District

Ref -TCN No.- NACOF/OD/2026-27/204, Date –12.06.2026

Dear Sir,

I/we, the undersigned, am/are pleased to provide our financial proposal /Price Bid in respect to the above subjected work as provided in your **TCN No.- NACOF/OD/2026-27/204**, Date –12.06.2026 Having gone through the TCN and having fully understood the Scope of Work with Terms and Conditions for the rates & contracts as described. We are pleased to quote the amount against the proposed assignment as per the attached price schedule.

Thanking You

Seal & Signature of the Bidder :

Name :

Date :

Place :

Schedule -5**CHECK LIST TO BE FILLED UP BY THE BIDDER**

SL No	Required Documents	Whether Furnish		Page No
		Yes	No	
1.	Registration certificate in the State of Orissa			
2.	Valid class of Licence.			
3.	Exprience in execution of Govt. Projects			
	a) Year of Exprience			
	b) Similar Nature of work			
	c) Executed High Value Projects			
4.	GST registration			
5.	Pan Card			
6.	Income Tax Return			
7.	Balance Sheet/Turn Over Certificates			
8.	undertaking of Blacklisting (Schedule-1)			
9.	No relationship certificates (Schedule-2)			
10.	Legal Status of Bidder (Schedule-3)			
11.	Bid Submission Letter (Schedule-4 I & II)			
12.	Understanding of TOR			
13.	Work Plan			
14.	Approach & Methodology			
15.	Acceptance by Signing all page of TCN.			

Seal & Signature of the Bidder :

Name :

Date :

Place :

