



भारतीय राष्ट्रीय उपभोक्ता सहकारी संघ मर्यादित

National Cooperative Consumers' Federation of India Ltd.

(Under Ministry of Consumer Affairs, Food & Public Distribution, Govt. of India)

Opp. Speaker House, 320AD, Indira Nagar, Kanke Road, Ranchi – 834008

Phone No. – 9835568568 Email: nccfindia.ran@gmail.com Website: nccfindia.com

NCCF/Ranchi/Buss/2026-27/256

Date :- 15/06/2026

TENDER NOTICE

Introduction

National Cooperative Consumers' Federation of India Ltd. (NCCF), Ranchi Branch, invites sealed tenders from eligible and qualified empaneled/non-empaneled business associates for rate contract for Supply, Installation, Commissioning and Maintenance of 5 HP Solar Photo Voltaic (PV) Water Pumping System for Solar Lift Irrigation Units & Comprehensive Maintenance for Five (5) Years as per the specifications and requirements finalized by NCCF / department, in accordance with **General Financial Rules (GFR), 2017** and other applicable rules.

Note:

1. NCCF Ranchi reserves the right to reject all or any of the applications submitted in response to this tender at any stage without assigning any reasons whatsoever.
2. NCCF Ranchi reserves the right to modify, cancel, suspend, change or supplement this Tender at any stage.
3. Any change to this tender document shall be uploaded on NCCF website <https://www.nccfindia.com/> applicants are advised to keep viewing the NCCF website for any corrigendum/ change.

1. Scope of work

- The broad scope of the work includes design, supply, installation, testing commissioning, warranty and operation & maintenance of 5 HP Solar Photo Voltaic Water Pumping Systems for Solar Lift Irrigation including all accessories on turn key basis.
- The installation of solar pumps is required in close proximity to natural surface water sources that have not experienced drying in the past five years and are projected to remain unaffected by water extraction for irrigation purposes. Consequently, the pumps should possess the capability to draw water from these surface water sources.
- Successful bidders' responsibilities include survey of all sites, successful implementation of the projects including supply, installation, training of operators/beneficiaries and other activities as mentioned in the respective RFP.

- Supply of the complete systems, including all necessary components, sub-components, spares, tools & tackles etc. as per technical specifications given in this document including packing, forwarding, safe storage, handling, commissioning, trial and performance testing and handing over, insurance coverage, operation & maintenance.
- Erection and commissioning of the supplied systems without any impairment of the local area.
- The successful bidder will need to establish necessary RCC structures (matrix of stay / leg / beams), steel framework to support the structure, and provide user manuals and warranty cards to beneficiaries.
- Unconditional onsite warranty for manufacturing defects for five years faultless operation.
- Creating a process for selection and training/internship/apprenticeship of pool of 100 resource persons (students from polytechnic, ITI, RSETI and skill development agencies) interested in learning operation and maintenance of these assets from beginning year of installation of these assets and providing reorientation to these resource persons from time to time.
- Training of at least two persons nominated by user, for handling and operation after commissioning of the system and providing routine/refresher training to the beneficiaries by creating training modules and plans based on seasonal usage of assets (especially summers and rainy seasons).
- The successful bidder shall install the system within the stipulated time frame and shall closely monitor the performance of the system, establishing a system for monitoring and regularly sharing reports with the District Agriculture Officer.
- The successful bidder will need to provide operation and maintenance of the installed assets for a period of 5 years from the date of actual commissioning of Solar Lift Irrigation infrastructure and submission of user manuals in Hindi & English.
- It is mandatory for the bidder to successfully carry out the survey process before the erection of the solar LI system, including estimation of water availability, submission of water availability report, and layout plan.

2. Key Project Information /

- **Issuing Authority:** NCCF Ranchi
- **RFP Issue Date:** 12-06-2026.
- **Project Location:** In Jharkhand.
- **Period of Execution :** Completion within 90 days from the issue of the work order.
- **Maintenance:** 5-year comprehensive warranty and Operation & Maintenance (O&M).

3. Tender Schedule (Fact Sheet)

- **Document Availability:** Download from nccfindia.com
- **Proposal Submission Deadline:** 22-06-2026 by 1:00 PM.
- **Submission Address:** 320 AD, Indira Nagar, Kanke Road, Ranchi
- **Tender Opening:** 22-06-2026 by 3:00PM

3. Financial Requirements



- **Bid Processing Fee:** INR 5,000 (Non-refundable) via Demand Draft.
- **Earnest Money Deposit (EMD):** INR 3.00 Lakh through Demand Draft
- **Security Deposit:** 5% of the contract value approx Rs. 1.20 Crore. The bidder which will be awarded the work needs to submit the BG in the form of DD from Nationalized Bank.

Bank Details :

Name of Account Holder	IFSC No.	A/c No.	Bank Name
National Cooperative Consumers Federation of India Ltd.	CBIN0283072	1844240526	Central Bank of India Kanke Road Branch Ranchi - 834008

4. Terms and Conditions:

1. Selection of the bidder will be made on the basis of maximum margin offered for NCCF and lowest rate quoted.
2. NCCF Shall be at liberty to distribute 40 % of the total tendered quantity of materials amongst other than L1 bidders subject to acceptance of L1 rates by other than L1 bidders and fulfillment of eligibility criteria by them. The Distribution is solely the discretion of NCCF.
3. NCCF shall terminate the empanelment of a Business Associate if they have competed against NCCF in any bid either individually, as a partner or in a Joint Venture.
4. EMD of unsuccessful tender will be refund. No interest will be paid on it.
5. Tender Forms – envelope – A Technical Bid and envelope – B shall be submitted in separate sealed envelope.
6. First preference shall be given to the empaneled Business Associate of Tendering Branch of NCCF. Second preference (in case of absence of valid Business Associate of Tendering Branch) shall be given to Empaneled Business Associate of other NCCF Branches and Third preference shall be given to Non-Empaneled business Associate.
7. The payment shall be made only after payment being received by NCCF from the concerned department. This is a mandatory and non-negotiable conditions.
8. Supply must be completed within the stipulated period. Delay will attract liquidated damages and plenty.
9. Any rejection at inspection or non-conformance to technical specifications will be replaced by the vendor within 07 days at their own cost.
10. The vendor shall not sub-contract, assign, or transfer the supply order in whole or part.
11. The vendor shall indemnify NCCF against any financial, legal, or reputational loss arising out of non-compliance.
12. NCCF reserves the right to postpone/cancel the tender and accept or reject any bid without assigning any reason.



5. Required Documents:

1. Valid GST Registration
2. PAN no with last 03 years ITR
3. Last three months GSTR 3-B
4. Last three years Audited balance sheet with UDIN No. and minimum turnover Rs. 2 Crore with positive net worth .
5. Vendor must not be blacklisted/debarred by any Government/PSU/Autonomous body, etc (affidavit required Rs. 100 stamp paper).
6. Vendor shall not be under a declaration of ineligibility for corrupt and fraudulent practices issued by the Government of Jharkhand.
7. Work experience certificate or work order of Solar PV Water Pumping System
8. Service Support in District – Bidder must have separate service team along with toll free number and services complain registering system in Garhwa District (Jharkhand). Toll Free number to register complain and address proof of local service office in Garhwa must be submitted with the bid.
9. Authorization Certificate – If the bidder is the dealer / distributor of the list of items / technical specification then it will need to provide a relevant authorization certificate from the manufacture of the components.
10. Quality Assurance – Bidder as a manufacturer or dealer will need to submit an ISO certificate.
11. The vendor must submit all the relevant and material documents in support of their eligibility.

6. Bid Submission Instructions

1. Bid shall be submitted [online/physical] on or before 22/06/2026 at 1.00 p.m.
2. Bids received after specified date and time shall be rejected.
3. Late bids shall not be considered under any circumstances.
4. Bidder shall ensure all documents are clear, legible, and properly arranged.
5. Incomplete bids or bids without Bid Security shall be treated as invalid.
6. All pages of tender documents shall be initialed by authorized signatory.
7. Tender documents should bear seal/stamp of firm/organization.
8. Bids with interlineations or alterations should bear initials of authorized signatory.
9. Tender without EMD, shall not be accepted.
10. EMD deposited by the successful bidder may also be treated/considered as security deposit.
11. Such a security deposit shall be refunded interest free after successful execution of the order.
12. If the supplier fails to supply the quantity as per Order & Tender conditions, the security deposit shall be liable to be forfeited and the supplier will be blacklisted.
13. All the data, record, etc should be maintained with confidentiality. There should be no breach of obligation on the part of firm. In case of breach of obligation, appropriate action will be taken against the party, in accordance with law.



14. The supplier shall not sublet the work to any third party without written consent of the NCCF.
15. At any stage, if it is found that the business associate/proprietor, etc has given incorrect and misleading certificate/information/document(s), NCCF shall free to take suitable action including cancellation of contract, blacklisting of the applicant, etc.
16. Quantity of the items mentioned above may vary depending upon the requirement.
17. In case of any ambiguity/ dispute in the interpretation of any of the clauses in this tender document, NCCF's interpretation of the clauses shall be final and binding on all applicants/parties.

7. Bid Validity and Responsiveness

1. The bidder quoting the lowest rate (L1) will be awarded the tendered quantity as per the terms and conditions of this tender.
2. Only technically compliant bids will be considered for price evaluation.
3. Bid shall remain valid for minimum 90 days from bid opening date
4. Bids not meeting technical and mandatory requirements shall be treated as non-responsive and rejected
5. Procuring authority shall not waive responsiveness requirements
6. Deviation from tender specifications shall result in bid rejection
7. The proposal submitted by the bidder must valid for 180 days from date of issue.

8. Eligibility Criteria

1. Empanelled bidders with NCCF may participate; **non-empanelled bidders are also eligible** subject to fulfilment of eligibility and evaluation criteria.
2. Be a legally registered entity (Proprietorship/Partnership/LLP/Company/Cooperative).
3. Have minimum 02 years of experience in supply/manufacture of Solar PV Water Pumping system or similar items any Central Government/State Govt./Autonomous Bodies/PSU/any other Central/State Govt. agencies, etc.
4. Audited balance sheet for the last three financial years (2022–23, 2023–24 ,2024–25) duly signed with UDIN.
5. Should have minimum annual turnover of Rs 02 crore in last 03 years (certified by Chartered Accountant with valid UDIN)
6. Valid GST, PAN, and statutory registrations are mandatory.
7. Vendor must not be blacklisted/debarred by any Government/PSU/Autonomous body, etc (affidavit required).
8. Vendor shall not be under a declaration of ineligibility for corrupt and fraudulent practices issued by the Government of Jharkhand.
9. The vendor must submit all the relevant and material documents in support of their eligibility.

9. Price & Financial Terms

- Prices must be **firm and inclusive** of all taxes, NCCF Margin, duties, freight, insurance, packing, transportation unless specified otherwise.
- GST shall be quoted separately as applicable.
- No escalation in price shall be allowed during the contract period.



Payment Terms

- 1) Payment shall be released to the successful vendor only after NCCF receives the corresponding payment from the concerned client department for the respective quantity supplied. NCCF will not be liable to make any payment if not received from the department for what so ever reason.
- 2) No advance payment shall be made by NCCF under any circumstances.
- 3) All payments shall be subject to applicable statutory deductions and NCCF's approved service margin.
- 4) Vendor must submit:
 1. Original GST invoice in the name of NCCF Ranchi Branch;
 2. Proof of uploading invoice on GST portal (screenshot/ARN/IRN);
 3. Bank details & PAN copy.
- 5) NCCF shall release payment within 15 working days of receiving payment from the Department, subject to verification. Payment shall be made after inspection, and acceptance of goods, subject to submission of proper invoice and complete documents.
- 6) GST component will be released only if invoice is uploaded correctly and ITC is available.
- 7) Any denial/reversal of ITC due to vendor fault shall be recovered from the vendor's bills/security.
- 8) Final payment subject to reconciliation and fulfilment of replacement/warranty obligations.
- 9) NCCF reserves the right to deduct penalties, damages, replacement costs, or extra procurement costs due to the vendor's default.
- 10) NCCF reserves the right to withhold payment in case of non-compliance or defective supplies.

10. Delivery Schedule

1. The supply must be completed within 30 days of issue of work order or as specified by NCCF/Concerned department. Delay in supply will attract liquidated damages imposed by the NCCF.
2. The terms, conditions, supply schedule, and technical specifications of the product shall be as finalized and adopted by NCCF for this procurement, which shall be acceptable to the bidder.
3. The vendor shall not assign, transfer, or sublet the work, in full or part, without prior written consent of NCCF.
4. In case of delay, non-supply, or rejection during inspection, the vendor shall be liable to bear the penalty and replacement costs as imposed by NCCF during that time as per the contract value . The penalty may be _____ % of the contract value or as deemed fit to NCCF. Any penalty or deduction imposed on NCCF by the client department due to the vendor's default shall be fully recoverable from the vendor's payment, EMD, or performance security.



11. Warranty

The complete system should be warranted against any manufacturing defect or bad workmanship at least for a period of 5 (Five) years from the date of commissioning of the systems. Warranty Certificate to the above effect must be furnished along with the Commissioning Reports. Any defect noticed during warranty period should be rectified/replaced by the supplier free of cost upon due written intimation by District Agriculture Officer Office.

12. Inspection

- Inspection of Solar PV water pumping systems and other major components will be carried out by official of NCCF or District Agriculture office at the place of delivery/site.
- Officers authorized by NCCF / District Agriculture Officer shall be entitled at all reasonable times to inspect and supervise and test during erection and commissioning.
- NCCF/ District Agriculture Officer shall have the right to have the tests carried out at its own cost by an independent agency at any point of time.

Force Majeure

- **Neither party shall be liable for forfeiture of performance due to causes such as natural calamity, riots, war, or any event beyond reasonable control of the parties.**
- **The affected party must notify the other party in writing within 7 days of such circumstances.**

ARBITRATION

Disputes or differences, if any, arising under the contract, shall be referred to the arbitration of sole-arbitrator to be appointed by the mutual consent of both the parties. The arbitration proceedings shall be conducted in accordance with the Arbitration and Conciliation Act, 1996 (as amended from time to time). The venue and seat of arbitration shall be Ranchi, Jharkhand, India, and the language of arbitration shall be English.

NCCF's Rights

NCCF reserves the right to:-

- Reject all or any bids without assigning any reason.
- To modify, suspend, change or supplement this tender at any stage. Any change to this tender document shall be uploaded on NCCF website <http://nccfindia.com>.
- In case of any ambiguity/ dispute in the interpretation of any of the clauses in this Tender Document, NCCF's interpretation of the clauses shall be final and binding on all applicants/parties.
- At any stage, if it is found that the vendor (Proprietorship, Partnership, Private Limited Company, etc) has given incorrect and misleading certificate/information/document(s), NCCF shall free to take suitable action including cancellation of contract, forfeiture of security / Tender security amount, blacklisting of the applicant, etc.
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- All for any additional information/documents from experienced firm (Proprietorship, Partnership, Private Limited Company, etc) and same shall be submitted by them to NCCF within given time period.
- It may kindly be noted that Government of India or any State Government in India shall not be a party to this transaction.
- NCCF shall be at liberty to postpone / cancel the tender and accept or reject any bid without giving any reason whatsoever.
- NCCF shall terminate the empanelment of a Business Associate if they have competed against NCCF in any bid either individually, as a partner or in a Joint Venture.
- Violation of any terms & conditions of this tender may lead to termination/blacklisting/penalty.

Subletting

- The vendor shall not sublet, subcontract, or assign the contract to any third party, without the written consent of NCCF.
- Any attempt to subletting without written consent of NCCF shall lead to termination, blacklisting and forfeiture of Security Amount.

Blacklisting

NCCF reserves the right to blacklist the agency for upto 5 years for:-

- Fraudulent documents
- Non-compliance with laws
- Corruption or unethical practices.
- Breach of confidentiality, etc.

Corrupt or Fraudulent Practices.

- It is expected that the vendors who wish to apply for this tender have highest standards of ethics.
- NCCF will reject tender if it determines that the vendor recommended for award has engaged in corrupt or fraudulent practices while competing for this tender.
- NCCF may declare vendor ineligible, either indefinitely or for a stated duration, to be awarded or contact if it at any time determines that the vendor has engaged in corrupt and fraudulent practices during the execution of contact.

General Clause

- Misuse of NCCF name, logo or letter head, etc shall lead to blacklisting including forfeiture of EMD but not limited initiation of legal proceedings.

Integrity & Anti Corruption Clause:

The supplier shall not engage in any corrupt, fraudulent, collusive, or coercive practices. If such activities are detected, NCCF may cancel the contract immediately and may blacklist the supplier, impose penalty and take legal action as per applicable laws.



Legal & Audit Protection Clause

Submission of false, misleading, fabricated, or suppressed information at any stage of the tender process shall result in one or more of the following actions, at the sole discretion of NCCF:

- Rejection of the bid;
- Termination of the contract, if already awarded;
- Forfeiture of Earnest Money Deposit / Performance Security;
- Blacklisting / debarring of the bidder;
- Recovery of losses or damages suffered by NCCF;
- Initiation of appropriate legal action as per applicable laws.

Such action shall be without prejudice to NCCF's other contractual and statutory rights.

Termination for Default

a) NCCF may terminate the contract, in whole or in part, by issuing a written notice to the supplier, in the event of:

- Persistent delay in supply;
- Repeated quality failures;
- Breach of any term or condition;
- Insolvency, liquidation, or cessation of business by the supplier.

b). Termination under this clause shall be without prejudice to NCCF's right to recover losses or damages.

Penalty

The systems shall be designed, supplied, installed, tested and commissioned within the scheduled time. If the supplier fails to adhere to the schedule, the Branch Manager, NCCF, Ranchi shall without prejudices to its other remedies under the contract deduct from the contract price as liquidated damages a sum equivalent to 0.5% of the delivery price of the delayed goods or unperformed services for each week of delay until actual delivery or installation / commissioning. Once the maximum is reached (i.e. 10 weeks of delay) NCCF may consider termination of the contract and forfeit the security deposit without prejudice to the other remedies of the contract.

The system shall be designed, supplied, installed, tested and commissioned within the scheduled time. IF the supplier

Termination for Convenience

NCCF reserves the right to terminate the contract at its discretion, in whole or in part, by giving reasonable written notice, without assigning any reason and without incurring any liability, other than payment for goods duly supplied and accepted up to the date of termination.



Prince K.
15/06/26

Branch Manager

Performance Security Format

(To be submitted on Vendor's Letterhead along with DD/FDR)

PERFORMANCE SECURITY UNDERTAKING

To

The Branch Manager
National Cooperative Consumers' Federation of India Ltd. (NCCF)
Ranchi Branch

**Subject: Performance Security for Tender No. NCCF/Ranchi/2026-27/___ dated
12/06/2026**

Sir,

In consideration of the NCCF having agreed to award the supply order for [Name of Work] to us, we hereby deposit a Performance Security of 3% of the total bid value (RS ___) in the form of [Demand Draft/FDR No. ___ dated ___ drawn on ___ Bank] in favour of National Cooperative Consumers' Federation of India Ltd., payable at Ranchi.

We understand and agree that:

1. This Performance Security shall be valid until completion of warranty period as per the terms of both NCCF and Concerned department.
2. NCCF shall have the absolute right to forfeit this security, in full or part, for any delay, non-compliance, or quality defect attributable to us.
3. This security is in addition to the Earnest Money Deposit (EMD).

Yours faithfully,

[Name & Signature of Authorized Signatory]

[Firm Name]

[Date]

[Seal]

Technical Specification to be met during supply and installation

- The general scope under this contract for the installation of 5 HP Solar Photovoltaic water pumping system includes design, testing, inspection, packing and forwarding, transportation up to project site, loading and unloading, storage in safe custody, erection, carrying out preliminary tests at site, commissioning, performance testing, operation and maintenance for 5 years & handing over of Solar Photovoltaic water pumping system with all the associated equipment's at the site as per the contract to the District Agriculture Officer Office. The illustrative Schedule of requirements is in accordance with the specifications contained in this document as mentioned hereunder:
- All the items against which no make has been mentioned must confirm to ISI standards.
- Technical Specifications Required

5 HP Solar AC Surface Pump Irrigation Schemes with its accessories for each scheme

Sl. No.	Name of the Items	Estimated Quantity	Specifications
1	5 HP power AC surface water pump	1 No.	<ul style="list-style-type: none"> 5 HP AC surface solar water pumping system The installation of solar pumps is required in close proximity to natural surface water sources that have not experienced drying in the past five years and are projected to remain unaffected by water extraction for irrigation purposes. Consequently, the pumps should possess the capability to draw water from these surface water success. ISI Mark 5 star grade menoblock surface pump with insulation class -A having 10vLPs discharge up to 30-meter head adhering to ISI and MNRF approved. Suction / Delivery size: 65/50 mm upto 50 meter, 2' suction pipe, 2' GI bend, 2' nipple, 2' clamp, 2.5' GI Nipple.
2	Solar PV Modules	1 Set	<ul style="list-style-type: none"> Solar Modules Polycrystalline 330 Wp X 16 No(s) OR Solar Module Monocrystalline 540 Wp X 10 No(s) <p>Modules would be complied to following features:</p> <ul style="list-style-type: none"> SPV water pumping systems should have certificate

			<p>as per IEC 61215 specifications or equivalent National or International/ Standards.</p> <ul style="list-style-type: none"> • Salt Mist Corrosion Testing as per IEC 61701/IS 61701. • PV modules is qualified from MNRE specified NABL accredited laboratory at STC condition as per relevant IEC standard and • Modules is qualified to IEC 61730 Part I and II for safety qualification testing • Ensured protections against lightning, hails and storms • Terminal box on the module should have a provision for "Opening" for replacing the cable, if required. • PV modules will have a minimum efficiency of 16.5% • Low iron tempered glass, AR coated 4mm thick • Height of Aluminum frame of PV would be 35 mm • Both side EVA encapsulation: upper of cell EVA-F406PS and lower of cell EVA-F806PS • Proven Track Record (PTR) towards performance of previously 10 years • PV module will have performance warranty as per MNRE guidelines. 10 years product warranty and 25 years performance warranty with performance degradation not more than 2% per year • Warranty of the Pump & Controller should be 5 years from the date of commissioning
3	Module Mounting Structure	1 Set	<p>The solar panels need to be static. Galvanized mild steel and Galvanization thickness: 86 micron hot dipped</p> <ul style="list-style-type: none"> • Antitheft SS 304 nut bolts for PV mounting with aluminum Z clamp • GI fasteners are used to assemble the structure • Sufficient height of the structure for cattle passing and flood level • Warranty of the module mounting structure is 10 years from the date of installation
4	PVC flexible Pipe (Suction side)	50 feet	<ul style="list-style-type: none"> • 80/110 mm flexible (ISI mark)

5	Pump Controller	1 Set	<ul style="list-style-type: none"> • Solar Drive with Essential features <ul style="list-style-type: none"> • Designed to operated up to 50 deg C ambient temperature and can be re-rated up to 60 deg C facility (Dual supported Grid connection operation mode). • Global standard quality controlled imported module • Avoid bus-bar mismatch, eddy current loss. • Support Module efficiency up to 19% • VFD module with in-built EMC filter • Communicable over Modbus RS485 port connectivity • Complied to IEC61683:1999 standard • Protections: i) dry run of motor pump set, ii) Open circuit/ single phasing, iii) Over current, iv) accidental short circuit, locked rotor condition, v) under voltage, frequency and vi) reverse polarity. • HDPE PLB PE-63 PN6 conduit for cable routing • Double door protection for each control station to restrict unauthorized access • Overload and short circuit protection to each pump set • SPD (Surge protective device) installed in the main control box to protect the system from surge
6	Electrical Switch Gear Selection	1 Set	<ul style="list-style-type: none"> • Details of Electrical Components: <ul style="list-style-type: none"> • MCB complained to Standard(s) for Safety: ANSI/UL 489: • DC MCB as incomer for DC supply complied to IEC60947-2:2003(3rd Edition) • Separate MCB as incomer for AC supply complied to IEC60898-1:2002 • SPD are compliance to IEC 61643-1 Class-1 test and IEC 61643-11: DC SPD-Type 2 as well as AC SPD - Type 2 separately • Protection level as per EN 62305-2: Recommended discharge current for Lightning protection of Asset Reverse Protection Diode (1000VDC) with heat sink to protect PV array • Shock Proof Manual Isolator/Changeover Switch for Human Safety separate 3 phases, 63A, 6KW-rating-at 415V, 50Hz, 10KA • Ergonomic built and Ingress Protection class- 54

			<ul style="list-style-type: none"> • Insulation voltage 800V and Max. current rating 80 KA rms Compatible with AC23A devices • External handle to operate from outside at panel door with isolation from Electrical neutral position in between two incomers to run the pump from solar or grid power supply <p>All Terminal blocks are non-ferrous contacts specific to Outdoor application to avoid rust/corrosion in future:</p> <ol style="list-style-type: none"> 1. Motor Terminal block {Red, Yellow, Black} - 4 Sq mm 2. DC terminal block {Red, Black} - 4 Sq mm 3. AC terminal block {Red, Yellow, Black} - 4 Sq mm 4. Diode terminal block {Red & Black } - 4 Sq mm 5. Earthing terminal block {Green-Yellow bi-color} 6. End Screw-4 Sq mm Flag terminal {Grey} - 4 Sq mm
7	Cable & Conduit	1 Set, each set containing 50 meter	<ul style="list-style-type: none"> • Details of Cable and Conduits: <p>DC Cable:</p> <ul style="list-style-type: none"> • Size 4 Sq mm single core copper cable PVC Insulated, unarmored, Color: Black and Black with red strip separately • Working voltage: Up to 1100V • Conductor: Soft-annealed tinned electrolytic copper • Insulation and Outer Sheath: Electron Beam Cross-Linked Polyolefin • Temperature range: -15 Deg C to +120 Deg C • Outdoor Suitability: UV Resistant • Standard: UL 4703 or TUV 2Pfg 1169/08.2007 Approved <p>AC Cable:</p> <ul style="list-style-type: none"> • PVC insulated (Heavy Duty) armored 3 core, 2.5 sq.mm. electric cable duly ISI marked as per IS-1554(part-1) of 1988 with latest amendments for power wiring • PVC insulated (Heavy Duty) 1 core x 1 sq.mm. electric cable duly ISI marked as per IS-694/1990 with latest amendments for control wiring • 1.1 KV single core stranded FR PVC insulated & unsheathed single core stranded copper wire as per

			<p>IS: 2551-1963 & IS: 9823-1978/IS 694/1990; BS 2004 (1861)</p> <p>Cable Conduit:</p> <ul style="list-style-type: none"> • All DC & AC cable would be laid underground through HDPE PLB cable conduit while goes from one stand to another stand • HDPE pipe would be PN6 with PE63 grade compound with silicon inside & with technical specification evaluation certificate (TSEC) • Underground cable must be laid inside the ground at a trench depth of minimum 750mm
8	Earthing kit (Any reputed make)	1 Set	<ul style="list-style-type: none"> • Chemical Earthing with 200-micron Bonded copper Earth Electrode 50 mm dia 3 mm thick x 1.5 Mts. Long or 18 mm Rod as applicable zones for Functional Earthing (FE) Complying Standard UL 467, IEEE 80, IEC 62561-2, NBC 2016 and IS 3043
9	Lightning Protection System (Any reputed make)	1 Unit	<ul style="list-style-type: none"> • Bonded Copper Rod Lightning Arrestor - Mounting Pole with Required Accessories Lightning Arrestor: 60mm Dia, 5Mts Height GI Pole with all required Accessories for ground mounting and mast mounting (Effective Height of the Pole overground shall be 4.5Mts). Galvanization shall be 80micron minimum. Down Conductor: 6 sq. mm Copper bonding wire with 120-micron thickness Complying standard is NBC 2016 and IS/IEC 62305-3
1	Fencing (Any reputed make)	1 Unit	<ul style="list-style-type: none"> • GI Strip to Bind the Mesh with L-Angle, Length = 1600mm 25X3 mm - 14 Nos. GI coated Chain Link Fence, Diamond Pattern, Wire Gauge 2+1 mm both ends twisted wire Mesh Size 50mm X 50mm with 3mm OD, Mesh Height 1.6 meters GI Bolt with Nut and Washer 10 mm Fencing Entry Gate: GI L-Angles Length = 2000mm. (Both the Post Welded with Barrel Hinges) 40mm X 40mm X 5mm

			<p style="text-align: right;">2 No(s)</p> <p>Fencing gate - Double Door using GI L-Angle 40mm X 40mm X 5mm Welded together to form a gate. (Gate is welded with Barrel Hinge and Aldrop Lock Arrangement 1500 X 1600 mm - 1 Set GI Strip to Bind the Mesh with L-Angle, Length = 1600mm, 25X3 mm 12" Aldrop Lock Arrangement (Welded to the Gate L-Angle) - 1 No GI Bolt with Nut and Washer 12 mm - 42Nos Barrel Hinge 4" - 2 Nos</p>
1	Insurance Coverage	Fully insured	<ul style="list-style-type: none"> The equipment supplied vide this RFP should be fully insured against damage incidental to manufacture or acquisition during transportation, storage, delivery and installation and handover to respective Tender Issuing Authority. Insurance Coverage in case of damage caused due to natural hazards like earthquake, fire, loss, vandalism or burglary and theft for 1 year
1	Construction of pump house with fabricated sheets and necessary accessories for housing of the surface pump	1 Set	<ul style="list-style-type: none"> Pump canopy having dimension L X W X H: (2.5 X 1.5 X 4) Feet. Top portion of the pump canopy is made by Metal sheet of 1.6 mm thickness coated with Pure Polyester powder for outdoor use and bottom portion made by hot dipped galvanized 6 mm thick metal angles. Design & Drawing of Pump House is shown in Annexure (A)
1	Installation & maintenance	Total Solar Lift irrigation Unit (including Pump, Solar Panels, Pipes and accessories)	<ul style="list-style-type: none"> Complete installation of Solar Pumping System including Civil foundation and Pipeline installation along with pipe for 5-year AMC, Operator training after completion, Complain handling within 7 days of call
1	PVC pipe	500 meters	<ul style="list-style-type: none"> 110 mm dia, Pressure rating 4 Kg/Sq. Cm

1	Pipe installation	500 meters	<ul style="list-style-type: none"> Laying of main pipeline Collecting Pump & Delivery pipe
1	Outlets (PVC)	5 Nos	<ul style="list-style-type: none"> Outlet installation Branch Line installation from main pipeline Outlets (PVC) including clamps and other accessories (ISI Mark)
1	Other fitting & accessories required for complete installation and erection of the solar LI system	As per requirement	<ul style="list-style-type: none"> 110 mm 4 Kg PVC underground pipe with fittings 110 mm low friction flapper type Non-Return Valve By-pass arrangement after the pump outlet • Priming arrangement after the pump outlet • Air cum vacuum release valve after the pump outlet to release the air and vacuum inside the pipeline In every 100-meter air cum vacuum release valve ensure no air or vacuum inside the pipeline Dual side outlets with high-density control valve along with QC coupling NRV, ARV (3), TEE, Bend, End cap, Connectors

Note:

1. Certificates of Pipes, Pumps, Solar Panels, VFD and Iron used in the scheme needs to be submitted for verification before commencing supply and installation
2. Make and Model of all the items as mentioned in the bid
3. It is proposed that a maximum of 500 meters PVC pipe will be supplied for each unit of Solar LI system installed.

However, depending upon the site requirement and arrangement the pipe requirement may vary site wise. Bidder awarded with the contract should ensure proper site verification and requirement before erection of the solar LI system at the site.

Annexure IV - Format of the financial Proposal

Name, Address and Contact Number of the bidder:

Technical Specifications Required

Sl. No.	Name of the Items	Estimated Quantity	Total Quotation without GST	GST	Total Quotation with GST
1	5 HP power AC Surface water pump	1 No.			
2	Solar PV Modules	1 Set (16 panels)			
3	Module Mounting Structure	1 Set			
4	HDPE Pipe (Suction side)	50 feet			
5	Pump Controller	1 Set			
6	Electrical Switch Gear Selection	1 Set			
7	Cable & Conduit	1 Set, each set containing 50 Meter			
8	Earthing kit (Any reputed make)	1 Set			
9	Lightning Protection System (Any reputed make)	1 Unit			
10	Fencing (Galvanized) (7m*6m)	1 Unit			
11	Insurance Coverage	Fully insured			
12	Construction of pump house with fabricated sheets and necessary accessories for housing of the surface pump	1. Set			
13	Installation & maintenance	Total Solar Lift irrigation Unit (including Pump, Solar Panels, Pipes and accessories)			
14	PVC pipe	500 meters			
15	Pipe installation	500 meters			

16	QRC outlets (PVC)	5 Nos			
17	Other fitting & accessories required for complete installation and erection of the solar LI System	As per requirement			

Note:

The quoted amount by the bidder will be considered for a rate contract which will be valid for 1 years from date of award of the work order.

The total quotation amount with GST will be only considered for award of the bid on Least Cost based Evaluation Method.

All rates quoted by the bidder shall include GST. The administration will not bear the burden of any extra amount of GST, any other taxes of transportation charges etc.

Bidder should quote only one rate for the bid, otherwise the proposal will not be considered (item-wise price quoting is compulsory)

If a Bidder/Agency quotes NIL charges/consideration, the bid shall be treated as unresponsiveness and will not be considered.

- Errors and Rectification: Arithmetical errors will be rectified on the following basis:

"If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If there is a discrepancy between words and figures, the amount in words will prevail"

Signature & stamp of the bidder