

REQUEST FOR PROPOSAL (RFP)

FOR

**SELECTION OF AGENCY FOR
RATE CONTRACT FOR SUPPLY, INSTALLATION, COMMISSIONING, and
MAINTENANCE of 5 HP Solar Photo Voltaic Water Pumping Systems**

In

Garhwa district, Jharkhand



Address of Communication & Submission of Documents:

District Agriculture Officer, Garhwa
District Agriculture Office, Garhwa
Government of Jharkhand.

Contents

1. Background.....	7
2. Objective of the Proposal	7
3. Scope of Work	7
4. Period of Execution	8
5. Eligibility Criteria	8
6. Bid Processing Fee	10
7. Earnest Money Deposit	10
8. Instruction for the submission of the separate Technical & Financial Proposal	11
9. Acceptance/ Rejection of the bid documents	11
10. Commercial terms and Conditions.....	11
10.1 Rate	11
10.2 Payment Terms.....	11
10.3 Validity of Offer.....	12
10.4 Warranty	12
10.5 Penalty and termination of contract.....	12
10.6 Force Majeure.....	12
10.7 Inspection.....	12
10.8 Dispute	12
11. Instructions to Bidders.....	12
12. Termination of Default	14
13. Scope of operation & maintenance of LI System	Error! Bookmark not defined.
14. Technical Specification to be met during supply and installation of LIs.....	14
14.1 System Detail.....	14
14.2 Technical Specifications Required.....	14
Annexure I: Technical Proposal Format.....	20
Annexure- II: List of Solar Lift Irrigation Systems installed by the bidder	22
Annexure III- Format of the financial Proposal.....	23
<u>Annexure IV Bank Gaurantee Format for EMD</u>	
<u>Annexure V Selection Methodology</u>	

Disclaimer

Information contained in this Request for Proposal ("RFP") document and/or subsequently provided to Bidders, whether verbally and/or in documentary form by or on behalf of District Agriculture Officer- Garhwa or any of its employees or advisors (collectively referred to as " District Agriculture Officer- Garhwa "), is provided to the Bidders on the terms and conditions set out in this RFP document and any other terms and conditions subject to which such information is provided. This RFP document is not an agreement and is not an offer or invitation by the District Agriculture Officer- Garhwa Office to any other party. The purpose of this RFP document is to provide interested parties with information to enable the formulation of their proposal. This RFP document does not purport to contain all the information each Bidder may require. The Bidders should conduct their own due diligence, investigations, and analysis and should check the accuracy, reliability, and completeness of the information in this RFP document and obtain independent advice from appropriate sources.

District Agriculture Officer- Garhwa Office Representatives make no representation or warranty and shall incur no liability under any law, statute, rules, or regulations as to the accuracy, reliability, or completeness of the RFP document and concerned with any matter deemed to form part of the RFP document, award of the assignment, the information and any other information supplied by or on behalf of District Agriculture Officer- Garhwa Office or otherwise arising in any way from the selection process. The prospective Bidder will be responsible for all obligations to its staff, their payments, compliance with the labor laws, minimum wages Act, and any other Act relevant to the working of the Bidder's staff. Under no circumstances District Agriculture Officer- Garhwa will be responsible for any non-compliance with statutory requirements of the bidder's staff. District Agriculture Officer- Garhwa may in their absolute discretion, but without being under any obligation to do so, update, amend, or supplement the information in this RFP document from time to time, after intimating the same to the Bidders. District Agriculture Officer- Garhwa Office reserves the right to accept or reject any or all proposals without giving any reasons. The bidding process shall be governed by the Laws of India and Courts at Garhwa, Jharkhand will have jurisdiction over matters concerning and arising out of this RFP document.

NOTICE INVITING TENDER DISTRICT AGRICULTURE OFFICER OFFICE, GARHWA

District Agriculture Officer- Garhwa, Government of Jharkhand intends to select a firm/organization for rate contract for the supply, installation, Commissioning, and maintenance of solar photo voltaic lift irrigation systems to support its various strategic initiatives for enhancing the agriculture irrigation cover of the district, put forward and adopt climate-smart technologies and optimize the land utilization in Garhwa district thus ensuring livelihood generation, water and food security of the district and the state.

In this context, District Agriculture Officer- Garhwa proposes for selection of an agency/firm/ organization for the supply, installation, commissioning, and maintenance of solar photo voltaic systems in the identified locations of the district. Eligible firms/organizations have to submit required Techno-Financial Proposals to the District Agriculture Officer- Garhwa Office, Garhwa District, Government of Jharkhand. After the evaluation of the proposals, the rate contract will be signed with the successful bidder.

The rate contract for the supply, installation, and commissioning of solar photo voltaic systems including maintenance for 5 years from the date of commissioning of the system as per terms and conditions and specifications prescribed in the RFP, shall be valid for 11 months from the date of issue of work order to the successful bidder.

The Key Dates, Formats, Terms of Reference, Qualification Criteria, and other terms and conditions are provided in this RFP Document.



Fact Sheet

Sl. No.	Particular	Details
1.	Name of the work	Selection of agency for rate contract for the supply, installation, commissioning and maintenance of Solar Lift Irrigation Pumping Systems in multiple locations of Garhwa district.
2.	Availability of RFP document at	Hard Copy at District Agriculture office, Garhwa Office and Digital Copy from https://Garhwa.nic.in/
3.	Date of Issue of RFP	Date: 04-04-2026
4.	Last Date for submission of Proposal	Date: 16-04-2026 Time: 11:00 AM
5.	Mode of submission	Hard copies/By Speed Post/ By Hand/ By Courier only to the address as specified above during the office hour only. Submission of bids through any other mode and late submission of bids will be rejected.
6.	Place of submission of the hard copies of the bids	Address of Communication & Submission of Documents: Office of the District Agriculture office Garhwa, Government of Jharkhand. Bids submitted to any other department will not be accepted for evaluation.
7.	Date of opening of Bid	Date: 16-04-2026 Time: 11:30 AM
8.	Place of opening tenders:	District Agriculture Officer Office, Garhwa, Jharkhand
9.	Time allowed for completion	The selected organization will install and commission the solar lift systems within 90 days from the date of official clearance of each site access.
10.	Bid Processing Fee (Non-refundable)	INR 5000/- (Rupees Five Thousand only) in the form of Demand Draft drawn in favor of " <u>District Agriculture Officer- Garhwa</u> " drawn in any Scheduled Commercial Bank payable at Garhwa. The bid processing fee shall be submitted along with the 1 st inner Envelope of the Technical Proposal.
11.	Earnest money deposit (EMD) (Refundable)	INR 2,00,000 /- (Rupees Two Lakh only) in the form of Demand Draft or in form of Unconditional Bank Guarantee (BG) in the specified Performa under <u>Annexure IV</u> drawn in favor of " <u>District Agriculture Officer- Garhwa</u> " drawn in any Scheduled Commercial Bank payable at Garhwa. The bid processing fee & EMD shall be submitted along with the 1 st inner Envelope of the Technical Proposal.
12.	Security deposit	2% of the contract value Only the bidder, which will be awarded the work, needs to submit the BG. The format of the BG will be shared with the successful bidder only.
13.	Bid Evaluation Method	Two bid selection Method; Stage 1: The technical proposals and documents submitted by the bidders will be evaluated in the first stage. The bidders meeting the technical evaluation criteria only will be shortlisted for further financial bid evaluation.

44

Sl. No.	Particular	Details
		Stage 2: Financial Bid will be opened for the technically eligible/qualified bidders. Final Selection will be made on the method of selection is Quality cum Cost Based Selection (QCBS) using 50:50 weightages for quality and cost respectively. As part of the evaluation, all proposals submitted should fulfil the minimum eligibility criteria as mentioned in the bid document. Detailed Selection Methodology is attached as Annexure-V

Note:

1. District Agriculture Officer, Garhwa reserves the right to change any schedule. Please visit the website mentioned in the RFP document (<https://Garhwa.nic.in/>) regularly for the same.
2. Proposals must be received not later than time, date mentioned in the Fact Sheet. Proposals that are received after the deadline will not be considered.
3. IMPLEMENTING AGENCY may without any prejudice to any other remedy for breach of contract, by written notice of default, sent to the contractor, terminate this contract in whole or in part.



**District Agriculture Officer
Garhwa**

LETTER OF CONSENT

- a. I/We agree to abide by all the detailed specifications, terms and conditions stipulated by the District Agriculture Officer Office, Garhwa which I/We have read and understood
- b. I/We certify that I/we have fully read and understood the instruction to bidders for bid submission given by District Agriculture Officer, Garhwa and any lapse to properly submit the bids result in rejection of the bid submitted.
- c. I/We certify that the tender is offered without any alternation/addition/omission.
- d. I/We certify that all the conditions of the tender are accepted.
- e. I/We agree that the District Agriculture Officer Office has right to change schedule of opening or any technical corrective action to resolve any error that might arise during the opening of the tender by District Agriculture Officer Office, Garhwa.
- f. In the event of failure on my/our part to comply with all the requirements mentioned in this tender document I/we unconditionally agree that the department is at its liberty to reject my/our tender.

Signature of the Bidder



1. Background

Agriculture is the predominant livelihood income generation activity in Garhwa district with 80% of the manpower related directly or indirectly to agriculture and allied activities. The pattern of agriculture practices in the district is mono cropping due to rain fed farming. The dependency on rainfall for agriculture purposes makes it evident that almost 85% of the area is dependent on rain for agriculture purposes.

Farmers having access to water round the year are able to practice double cropping in a year while farmers deprived of access to water face the real brunt which severely affects the food security and water security of the district. Increasing population, increasing average income, and globalization effects including the current climate change pose a threat to the agriculture scenario of the district thus leading to distress migration as well.

It is being envisaged that with the introduction of climate smart agriculture practices and with adoption of advanced irrigation technology in agriculture, the following issues can be addressed:

- i. Cost of cultivation
- ii. Water Scarcity issue
- iii. Food Security
- iv. Single or traditional cropping
- v. Limitations of agriculture as a livelihood
- vi. Low level of cropping intensity or productivity
- vii. Carbon emission from traditional irrigation infrastructure
- viii. Out migration of farmers or people dependent on agriculture for livelihood

Considering the same, office of District Agriculture Officer, Garhwa invites techno-financial proposals from eligible bidders for design, supply, installation (erection), testing, commissioning, and maintenance of 05 hp solar photo voltaic water pumping systems in the Garhwa district, Jharkhand.

2. Objective of the Proposal

The major aim of the Solar Lift Irrigation Systems project is to increase the irrigation coverage of the district. Installation of the **Solar Lift Irrigation systems** will encourage farmers to take up more than one crop in both the agriculture season year and thus ensure food security and generate livelihood income from agricultural activity and reduce distress migration.

In order to achieve the objective of the project, detailed Techno-Financial Proposals from eligible bidders are being invited from bidders. **Joint bidding or sub-contracting is not allowed in this RFP.**

A rate contract for supply, installation, commissioning of solar photo voltaic systems including maintenance of the system as per terms and conditions and specifications prescribed in the RFP, shall be valid for One year from the date of issue of work order to the successful bidder.

3. Scope of Work

The scope of work under this RFP is as follows:

- 3.1 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 including all accessories in the all blocks of Garhwa district.
- 3.2 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.

- 3.3 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.
- 3.4 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.
- 3.5 Erection and commissioning of the supplied systems without any impairment of the local area.
- 3.6 The successful bidder will need to establish necessary RCC structures (matrix of stay / leg / beams), steel framework to support the structure. Provide user manuals and warranty cards to beneficiaries.
- 3.7 Unconditional onsite warranty for manufacturing defects for Five years faultless operation.
- 3.8 Creating a process for selection and training/internship/apprenticeship of pool of 100 resource persons (students from polytechnic, ITI, RSETI and skill development agencies) of Garhwa 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.
- 3.9 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).
- 3.10 The successful bidder shall install the system within the stipulated time frame and shall closely monitor the performance of the system. The system supplier should establish a system for monitoring performance of the installed system and regularly share the performance report with District Agriculture Officer.
- 3.11 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
- 3.12 It is mandatory for the bidder to successfully carry out the survey process before the erection of the solar LI system. Survey of sites allocated to them after the award of the work and work plan according to the requirements of the site, estimation of water availability, submission of water availability report, layout plan of the site clearly indicating the identified location for installation of SPV modules, structures and other components. Successful bidder shall furnish all necessary information to the project beneficiaries.

4. Period of Execution

The selected organization will install and commission the solar lift systems in a period of 90 days from the date of official clearance of each individual sites access.

5. Eligibility Criteria

Only the bidders qualifying the following technical shortlisting criteria will be considered for evaluation of their financial proposals.

Sl. No.	Criteria	Eligibility	Documents to be submitted
1.	Bidders' Registration	The bidder must be registered under the Companies Act/Cooperative Act/Society Registration Act/Partnership Form Act/Any other registration act under GoI.	<ul style="list-style-type: none"> • Certificate of Incorporation • Registration Certificate • Goods and Service Tax Registration • PAN card of the Organization • GST 3B latest
2.	Bidders' turnover	The firm should have a minimum average annual turnover of Rs. 1 Cr in the last 3 Financial Years i.e. of 2022-23, 2023-24, 2024- 25	<p>C. A. Certificate indicating annual turnover in the last 3 Financial Years i. e. of 2022-23, 2023-24, 2024- 25 along with the audited reports</p> <p>Copy of Income Tax Return of last three Financial Years i. e. of 2022-23, 2023-24, 2024- 25</p>
3.	Bidder's Experience	<ul style="list-style-type: none"> • The bidder must have designed, supplied, erected, tested and commissioned at least 10 projects of Solar Lift Irrigation Pumping Systems of 5 HP in last 5 FYs i.e. 2024-25, 2023-24, 2022-23, 2021-22, 2020-21 under Govt./PSU • Ongoing projects will also be considered as experience. 	<p>List of Solar Lift Irrigation Systems installed by the bidder</p> <p>The bidders are required to submit the Work Orders or Agreements or Work Completion Certificates to prove their experience</p>
4.	Service Support in District	<ul style="list-style-type: none"> • Bidder must have separate service team along with toll free number and service complain registering System in Jharkhand 	Toll free number to register complain and Address proof of local service office in Jharkhand must be submitted with the bid.
5.	Blacklisting/ Debarring	The firm must not have been debarred/blacklisted by any Govt. Dept., Agency, PSUs / Institution / Agencies / Autonomous Organizations as on the date of the submission of the bid.	Self- Declaration from an authorized-by-authorized person of the organization
6.	Authorization Certificate	<p>If the bidder is the manufacturer of the components required in the List of items/ technical specifications then it will need to submit relevant proof</p> <p>If the bidder is the dealer/distributor of the List of items/ technical specifications then it will need to provide a relevant authorization certificate from the manufacturer of the components</p>	<p>Proof of being a Manufacturer Or</p> <p>Authorization Certificate from manufacturers for distributors/dealers</p>
7.	Quality Assurance	Bidder as a manufacturer or dealer will need to submit an ISO certificate	ISO Certificate
8.	Power of attorney on	Power of attorney on stamp paper/ Board Resolution in the name of	Power of attorney on stamp paper/ Board Resolution

stamp paper/ Board Resolution	bidder signing the bid document	
-------------------------------------	---------------------------------	--

6. Bid Processing Fee

The Bidder must furnish, as part of technical proposal, the required bid processing fee amounting to **Rs. 5,000/- (Rupees Five Thousand Only)** in shape of Demand Draft from any Scheduled Commercial Bank in favor of **District Agriculture Officer, Garhwa** payable at Garhwa. Proposals received without bid processing fee will be rejected. This will be a nonrefundable fee.

7. Earnest Money Deposit

1. **Earnest Money Deposit (EMD) of Rs.2,00,000/-** is required to be deposited along with the bid without which the bid will not be accepted.

2. Earnest money can be deposited in shape of a **Demand Draft or in form of unconditional Bank Guarantee (BG) in favor of 'District Agriculture Officer, Garhwa'** from any Scheduled Commercial Bank Payable at Garhwa. EMD shall be valid up to three months.

3. The EMD amount is interest-free, and all unsuccessful bidders will be refunded by the District Administration within 30 days of finalization of contract. The EMD, for the amount mentioned above, of successful bidder would be returned upon submission of **Performance Guarantee** which will be **2% of the total contract value.**

There is no relaxation in Tender Fee under MSME relaxation. Hence all agency must submit tender/Application fee.

4. EMD would be forfeited if

- Bidder withdraws its proposal before the completion of the evaluation process of all the Techno-Financial Proposals.
- Bidder does not respond to requests for clarification of its proposal
- Bidder fails to provide required information during the evaluation process or is found to be non-responsive or has submitted false information in support of its qualification. The EMD will be forfeited if the bidder fails to:
 - ✓ Bidder fails to Provide clarification required by the office of the District Agriculture Officer during evaluation of the bids
 - ✓ Successful bidder fails to accept the work after the contract negotiation meeting
 - ✓ Successful bidder fails to sign the contract in time or does not accept the work order after contract negotiation
 - ✓ Successful bidder fails to furnish required Performance Bank Guarantee as a security deposit after award of the work
 - ✓ Any other circumstances created by the bidder which hold the interest of the Client during the overall selection process

Handwritten signature/initials

8. Instruction for the submission of the separate Technical & Financial Proposal

Main Envelope containing both sealed Envelope 1 & 2	Sealed Part-1 " Technical Proposal for SUPPLY, INSTALLATION, COMMISSIONING, and MAINTENANCE of 05 HP Solar Photo Voltaic Water Pumping Systems "	Technical Proposal and Documents, Bid Fee, EMD and signed & stamped copy of all the required technical formats
	Sealed PART- II " Financial Proposal for SUPPLY, INSTALLATION, COMMISSIONING, and MAINTENANCE of 05 HP Solar Photo Voltaic Water Pumping Systems "	Signed and stamped copy of filled financial proposal

The bid document should be submitted in two parts as detailed below:

- Main Envelop should be addressed to the "**Project Director, ATMA, Garhwa, Government of Jharkhand**", inside a sealed envelope super-scribed "**Techno-Financial Proposal for SUPPLY, INSTALLATION, COMMISSIONING, and MAINTENANCE of 05 HP Solar Photo Voltaic Water Pumping Systems**".

9. Acceptance/ Rejection of the bid documents

The District Agriculture Officer, Garhwa reserves the right to reject or accept any bid or annul the bidding process at any time prior to award of contract without assigning any reason thereof, without having prejudice of incurring any liability to the affected bidders or any obligation to inform the bidders.

10. Commercial terms and Conditions:

10.1 Rate

The offer should indicate the cost of the system, Installation & Commissioning charges, O & M Charges and taxes & duties as per the format shared in the financial bid details. The cost must be inclusive of packing, forwarding, loading & unloading charges, cost of insurance and transportation for destination where the system will be installed as per the work order.

10.2 Payment Terms

The 10% payment will be made after submission of Site survey report of each site 50% payment will be made after delivery of material to the site and 30% after installation and verification and balance 10% will be released upon completion of maintenance of 5 years.

Performance Security Deposit -The successful bidder must deposit the Security Deposit in the form of Bank Guarantee with fees being 2% of the contract value in favor of District Agriculture Officer Office, Garhwa within 10 days from the acceptance of the work order. The said deposit would be forfeited, if the supplies are not made as per the Terms & Conditions of the purchase order. The bank guarantee will be kept as



security deposit 2 months beyond the completion of Operation & Maintenance, which is for 5 years. After the satisfactory performance of the bidder till this period, the bank guarantee will be returned to the bidder without paying any interest on the amount of the BG.

10.3 Validity of Offer

The proposal submitted by the bidder must be valid for 180 days from date of issue of the RFP.

10.4 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 intimation by District Agriculture Officer Office.

10.5 Penalty and termination of contract

The systems shall be designed, supplied, installed, tested and commissioned within the scheduled time. If the supplier fails to adhere to the schedule, the District Agriculture Officer's Office shall without prejudice 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 up to a maximum deduction of 5% of the contract price for delayed goods or installation and commissioning. Once the maximum is reached (i.e., 10 weeks of delay) District Agriculture Officer Office may consider termination of the contract and forfeit the security deposit without prejudice to the other remedies of the contract.

10.6 Force Majeure

The supplier of the SPV water pumping system shall not be charged with liquidated damages nor shall his security for performance be forfeited when failure of the supplier in making delivery is due to any event beyond the control of the supplier and could not have been foreseen, prevented or avoided by a prudent person. These include, but are not restricted to acts of nature, acts of public enemy, acts of Government, fires, floods, epidemics, strikes, freights, embargoes and unusually severe weather.

10.7 Inspection

- 10.9.1** Inspection of Solar PV water pumping systems and other major components will be carried out by District Agriculture Officer Office at the place of delivery/site.
- 10.9.2** Officers authorized by District Agriculture Officer shall be entitled at all reasonable times to inspect and supervise and test during erection and commissioning.
- 10.9.3** 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.

10.8 Dispute

For adjudication of any dispute between District Agriculture Officer Office, Garhwa and the bidders arising in this case, reference can be made to any Law courts under the jurisdiction of Garhwa Civil Court only. District Agriculture Officer Office reserves the right to accept or reject any or all bids without assigning any reason thereof.

11. Instructions to Bidders

11.1 Bidders must submit their bids for all items as stated in this bid document in a single

hardbound booklet properly page numbered and indexed. No loose separate paper or spiral-bound documents will be accepted. Bids must be submitted in English language only.

- 11.2 Incomplete, telegraphic or conditional bids shall not be accepted.
- 11.3 Prices quoted must be firm. No price variation/escalation shall be allowed during process of completion of the project. All the prices to be quoted in INR only.
- 11.4 The bidders must sign at the bottom of each page of the bid documents at the time of submission in token of unconditional acceptance of the departmental terms and conditions, technical specifications etc.
- 11.5 Deviations in terms and conditions, Specification of material, Inspection clause etc. may not be accepted.
- 11.6 The bidders should furnish the information on all past supplies and satisfactory performance.
- 11.7 The bidders shall submit audited profit and loss statements and balance sheets.
- 11.8 Bids received late due to postal delay or otherwise will not be considered.
- 11.9 The bidders are required to furnish their offers in the price bid both in words & figures.
- 11.10 All pages of the bid documents must be signed & sealed by the authorized person on behalf of the bidders.
- 11.11 Bids will be accepted & will be opened as per information mentioned in this document and receipt against submission of bid shall be issued by Office of District Agriculture office Garhwa.
- 11.12 Sealed bids may be delivered in Office of District Agriculture officer Garhwa during office hours on working days. Bids received after due date & time will not be considered.
- 11.13 The bidder shall submit the requisite documents as detailed in the Checklist and Index of documents.
- 11.14 In case of supply of any defective material or substandard material, the materials will be rejected & it will be the responsibility of the supplier for taking back & replacing the rejected materials at their own cost. In case of non-lifting of such rejected materials within a reasonable time offered by the office it will have the right to suitably dispose of the same and forfeit the amount.
- 11.15 The supplied materials should strictly comply with the specifications as mentioned in the bid; otherwise, the material would be liable for rejection.
- 11.16 Any clarification on the technical specification and commercial terms and conditions may be clarified from District Agriculture Officer's Office.
- 11.17 Deviation of any commercial terms and conditions and technical specifications shall not be entertained under no circumstances.
- 11.18 All the bidders shall essentially indicate the break-up of prices as shown in Price bid.
- 11.19 During the warranty period District Agriculture Officer reserves the right to cross check the



performance of the systems with the minimum performance levels specified.

11.20 The District Agriculture Officer shall award the contract to the successful bidder whose bid be approved in the evaluation system on the basis of technical, financial and experience parameters.

11.21 On award of contract the qualified bidder shall be termed as contractor / supplier / executor /turnkey operator.

11.22 Items essential for completion of the above works but not included herein shall also form a part of this offer and included in bid price.

11.23 Fraud document Produce: If it is found by the working committee, any agency/bidder has submitted/ produced any fraud document during the bidding process shall be considered under criminal offense under Section 464 in The Indian Penal Code. A further course of action will be taken as per legal rule.

12 Termination of Default

- Tendering authority may, without prejudice to any other remedy for breach of contract, by written notice of default, sent to the contractor, terminate this contract whole or in part.
- If the contractor fails to deliver any or all the services/goods within the time period specified in the contract, or any extension thereof granted by Tendering Authority.
- If the contractor fails to perform any other obligation (s) under the contract; and if the contract either of the circumstance, does not remedy his failure with in a period of 15 days (or such longer period as the purchases may authorize in writing) after receipt of the default notice from Tendering Authority.

13 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 & 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:

13.1 System Detail

All the items against which no make has been mentioned must confirm to ISI standards.

13.2 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

5 HP Solar AC Surface Pump Irrigation Schemes with its accessories for each scheme			
Sl. No.	Name of the Items	Estimated Quantity	Specifications
			<p>unaffected by water extraction for irrigation purposes. Consequently, the pumps should possess the capability to draw water from these surface water sources.</p> <ul style="list-style-type: none"> • ISI marked 5 Stars grade Mono block Surface Pump with insulation class-A having 10 LPS discharge up to 30-meter head adhering to ISI and MNRE approved • Suction/Delivery size: 65/50 mm up to 50 meter, 2' suction pipe, 2' GI bend, 2' nipple, 2' clamp, 2.5' GI nipple
2	Solar PV Modules	1 Set	<p>Solar Modules Polycrystalline 330 Wp X 16 No(s) OR Solar Module Monocrystalline 540 Wp X 10 No(s)</p> <ul style="list-style-type: none"> • Modules would be complied to following features: • SPV water pumping systems should have certificate as per IEC 61215 specifications or equivalent National or International/ Standards. • 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.</p> <ul style="list-style-type: none"> • Galvanized mild steel and Galvanization thickness: 86 micron hot dipped • 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

5 HP Solar AC Surface Pump Irrigation Schemes with its accessories for each scheme			
Sl. No.	Name of the Items	Estimated Quantity	Specifications
			<ul style="list-style-type: none"> Warranty of the module mounting structure is 10 years from the date of installation
4	PVC flexible Pipe (Suction side)	50 feet	80/110 mm flexible (ISI mark)
5	Pump Controller	1 Set	<ul style="list-style-type: none"> Solar Drive with Essential features Designed to operated up to 50 deg C ambient temperature and can be re-rated up to 60 deg C Grid connection supported facility (Dual 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	<p>Details of Electrical Components:</p> <p>MCB complained to Standard(s) for Safety:</p> <p>ANSI/UL 489:</p> <p>DC MCB as incomer for DC supply complied to IEC60947-2:2003(3rd Edition)</p> <p>Separate MCB as incomer for AC supply complied to IEC60898-1:2002</p> <p>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</p> <p>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</p> <p>Shock Proof Manual Isolator / Changeover Switch for Human Safety</p> <ul style="list-style-type: none"> - separate 3 phases, 63A, 6KW-rating-at 415V, 50Hz, 10KA - Ergonomic built and Ingress Protection class- 54

5 HP Solar AC Surface Pump Irrigation Schemes with its accessories for each scheme			
Sl. No.	Name of the Items	Estimated Quantity	Specifications
			<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 <p>Flag terminal {Grey} - 4 Sq mm</p>
7	Cable & Conduit	1 Set, each set containing 50 meter	<p>Details of Cable and Conduits:</p> <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 <p>Standard: UL 4703 or TUV 2Pfg 1169/08.2007 Approved</p> <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-I) 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 IS: 2551-1963 & IS: 9823-1978 / IS 694 / 1990; BS 2004 (1861) <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

5 HP Solar AC Surface Pump Irrigation Schemes with its accessories for each scheme			
Sl. No.	Name of the Items	Estimated Quantity	Specifications
			<ul style="list-style-type: none"> - HDPE pipe wound 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	Lightning Arrestor: Bonded Copper Rod Lightning Arrestor - Mounting Pole with Required Accessories <ul style="list-style-type: none"> • 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
10	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: <ul style="list-style-type: none"> • GI L-Angles Length = 2000mm. (Both the Post Welded with Barrel Hinges) 40mm X 40mm X 5mm – 2 No(s) • Fencing gate - Double Door using G I • 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 • G I Bolt with Nut and Washer 12 mm- 42Nos Barrel Hinge 4'' - 2 Nos

11	Insurance Coverage	Fully insured	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
5 HP Solar AC Surface Pump Irrigation Schemes with its accessories for each scheme			
Sl. No.	Name of the Items	Estimated Quantity	Specifications
12	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)
13	Installation & maintenance	Total Solar Lift irrigation Unit (including Pump, Solar Panels, Pipes and accessories)	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
14	PVC pipe	500 meters	110 mm dia, Pressure rating 4 Kg/Sq. Cm
15	Pipe installation	500 meters	<ul style="list-style-type: none"> Laying of main pipeline Collecting Pump & Delivery pipe
16	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)
17	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 underground 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 I: Technical Proposal Format

Name of the bidder:

Sl. No	Particulars	Submitted Yes/NO	Page No.
1.	Earnest Money Deposit (EMD) of Rs.2,00,000/- in shape of a Demand Draft or in form of Bank Guarantee (BG) in favor of 'District Agriculture Officer, Garhwa' from any Scheduled Commercial Bank Payable at Garhwa. EMD shall be valid up to three months from the date of opening of the bid.		
2.	Bid processing fee of Rs. 5,000/- (Rupees Five Thousand Only) in shape of Demand Draft from any Scheduled Commercial Bank in favor of District Agriculture Officer, Garhwa payable at Garhwa.		
3.	Brief Profile of the bidder indicating it's geographical spread, details of services, experience in the sector, list of the board members, financial strength, constitution or legal status, place of registration and principal place of business or firm or partnership.		
4.	Certificate of Incorporation or Registration Certificate		
5.	Authorization Letter from the manufacturer of the Pumps		
6.	Goods and Service Tax Registration		
7.	PAN card of the Organization		
8.	C. A. Certificate indicating average annual turnover of Rs. 1 Cr in the last 3 Financial Years i. e. of 2022-23, 2023-24, 2024- 25 along with the audited financial statements		
9.	Copy of Income Tax Return of last three Financial Years i.e. of 2022-23, 2023-24, 2024- 25		
10.	Signed & Stamped copy of Letter of Consent		
11.	Duly notarized declaration in an affidavit on the non-judicial stamp of value 100 INR indicating that "The firm must not have been debarred / blacklisted by any Govt. Dept., Agency, PSUs / Institution / Agencies / Autonomous Organizations as on the date of the submission of the bid"		



Sl. No	Particulars	Submitted Yes/NO	Page No.
12.	Signed & Stamped List of Solar Lift Irrigation Systems installed along with their year of Installation in the prescribed format in Annexure II to prove that the bidder has designed, supplied, erected, tested and commissioned projects of Solar Lift Irrigation Pumping Systems of 5 HP and above.		
13.	Copy of Work Orders/ Agreements/ Work Completion Certificates of the lists of solar LI systems installed		

Signature & stamp of the bidder



**Annexure- II: List of Solar Lift Irrigation Systems installed by
the bidder**

Sl. No.	Name of the project	Name of the client	State in which project was implemented	Type of Solar Lift Irrigation System Pump type; 5 HP or More	Date of work order/ MoU (DD.MM.YYYY)	Date of project completion/ Expected date of completion (DD.MM.YYYY)
1						
2						
3						
4						
5						
6						
7						
8						
9						



Annexure III- 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			

Handwritten signature

Sl. No.	Name of the Items	Estimated Quantity	Total Quotation without GST	GST	Total Quotation with GST
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



Annexure IV Bank Guarantee Format for EMD

Date:

Bank Guarantee (BG) as Earnest Money Deposit (EMD) for Request for Proposal (RFP) for Selection Of Agency For Rate Contract for Supply, Installation, Commissioning, And Maintenance Of 05 Hp Solar Photo Voltaic Water Pumping Systems

To:

**District Agriculture Officer, Garhwa
Garhwa, Jharkhand**

WHEREAS _____ (hereinafter called "the Bidder") has submitted its Proposal dated _____ for the performance of the above-named Framework Agreement (hereinafter called "the Proposal")

KNOW ALL PERSONS by these present that WE [*insert: name of bank*] of [*insert: address of bank*] (hereinafter called "the Bank") are bound unto **District Agriculture Officer, Garhwa** (hereinafter called "the Purchaser") in the sum of: **2,00,000/-**, for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors and assigns by these presents.

Sealed with the Common Seal of the said Bank this [*insert: number*] day of [*insert: month*], [*insert: year*].

THE CONDITIONS of this obligation are the following:

1. If, after the Proposal submission deadline, the Proposer
 - (a) withdraws its Proposal during the period of Proposal validity specified by the Proposer in the Proposal Form, or
 - (b) does not accept the Purchaser's corrections of arithmetic errors in accordance with the Instructions to Proposers; or
2. If the Proposer, having been notified of the acceptance of its Proposal by the Purchaser during the period of Proposal validity
 - (a) fails or refuses to sign the Framework Agreement when required; or
 - (b) fails or refuses to issue the performance security in accordance with the Instructions to Proposers.

We undertake to pay to the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due it, owing to the occurrence of any one of the two above-named CONDITIONS, and specifying the occurred condition or conditions.

This guarantee will remain in full force up to and including the date that is 45 days after the period of Proposal validity, and any demand in respect thereof must reach the Bank not later than the above date.

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 758.

For and on behalf of the Bank

Signed:

Date:

in the capacity of: [insert: **title or other appropriate designation**]

Common Seal of the Bank

A handwritten signature in blue ink, consisting of a stylized 'A' followed by a horizontal line and a diagonal stroke.

Annexure V Selection Methodology

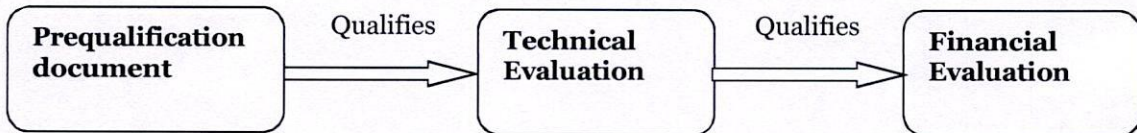
Quality cum Cost Based Selection (QCBS) Evaluation Process:

The firms would be selected as per the following quality cum Cost Based process. The scores are as follows:

Scores for technical parameters: 50

Scores for financial parameters: 50

Total Score: 100



The contract would be awarded to the bidder who obtains maximum together with technical and financial score by the evaluation process as describe below

The technical scoring will be done based on:

SL	Criteria	Evidential Proof To submit	Score
1	Experience of micro lift irrigation system installation 10 Marks	Work order/purchase order along with completion certificate from any Govt. / Govt undertaking	
2	Service Support in District Marks 10	<ul style="list-style-type: none">Bidder must have separate service team along with toll free number and service complain registering System in Garhwa District	

3.	Financial position of the firm in last 3 years along with positive net profit Marks 10	Certificate from Charter Accountant	
4.	10 to 15 minutes Presentation on company profile & implementation of solar pumping system including site survey, execution plan, training of operators & 5 years' service plan Marks 30		

Financial Proposals of only those Applicants who score **at least 25 marks** in Technical Proposal evaluation shall be opened and evaluated as per financial evaluation criteria.

The Applicant shall be selected on the basis of Quality cum Cost Based System (QCBS), whereby Technical Proposal will be allotted weightage of 50% and Financial Proposal will be allotted weightage of 50%. The Proposal with the lowest bid shall be given a financial score of 100 and the other proposals shall be given financial scores that are inversely proportionate to lowest Financial Proposal as stated below. The total score, both technical and financial, shall be obtained by weighing the quality and cost score and adding them up. The Financial Proposals shall be given scores as follows:

$S_f = 100 * F_m / \text{Financial Proposal of Applicant under consideration, wherein,}$


F_m : Lowest Financial Proposal

S_f : Financial Score

For selection of implementing agency, final ranking will be determined based on the combined total score for each Applicant separately. This will be done by applying a weightage of 0.50 (or 50 %) and 0.50 (or 50%) respectively to the technical and financial scores of each qualifying Proposal. The Total Score of Technical Proposal and Financial Proposal shall be computed as follows:

Total Score = $(T_e \times 0.50) + (F_s \times 0.50)$ wherein, T_e : Technical Score and F_s : Financial Score

The Applicant scoring the highest Total Score shall be declared as the "Selected Applicant"


 02.04.26
 जिला कृषि पदाधिकारी
 गढ़वा