



BAIF INSTITUTE FOR SUSTAINABLE LIVELIHOODS AND DEVELOPMENT

East Region/State Office: Bihar

House No. A/115, Park Road, PO Ashiana Nagar, District: Patna 800025

Telephone No.: 0612-2292486

Date: 17/09/2026

Invitation for Tender Document

To

You are invited to inform us of the above subject or the proposed work.

Name of Project	HRDP HDFC Project
Place of Work	6 Villages, 1 Block: Lalganj Dist.: Vaishali
Description of Work	5 HP Solar Lift Irrigation Systems Total - 6
Work Details (Minimum)	Installation of Solar Lift Irrigation Systems with necessary accessories for Total 6 Villages
Specifications	Attached details given: Pages 5, 6, 7 and 8

Please **note that the tender should be submitted by E-mail as a single attached file**. It is also mandatory to include the name of the work and your Mobile No. on the tender document. Otherwise, your tender will not be considered for bidding. It is imperative to physically visit the site before filling out the tender to accurately assess the estimates.

Verified by


Dr. V.K. Singh
(State Head)

Registered Head Office: BAIF Bhavan, Dr. Manibhai Desai Nagar, NH 48, Warje, Pune 411058
Maharashtra Telephone: 020-25231661-7 E-mail: bisld@baif.org.in Webpage: <https://www.baif.org.in/bisld>



LETTER OF OFFER

To

BISLD, Bihar

Sir/Madam,

As per the subject mentioned above, I, _____, am willing to undertake the said work as per the rates mentioned below:

Description of Work	5 HP Solar Irrigation Pumps
Amount of Work (Maximum)	
Rate of Vendor	As per rate: -..... Below (%): -.....
Date of Completion of Work	

Address of Contractor

Signature of Contractor



Tender Document for

Complete Installation of 5 HP Solar Lift Irrigation Systems (6 Units) in 6 Villages
of Lalganj block, Vaishali, Bihar 844121

BAIF Institute for Sustainable Livelihoods and Development
House No-A/115, Park Road, PO-Ashiana Nagar, Patna
Mobile No. 7033930107

NOTICE INVITING TENDER

The duly sealed & signed Tender is invited in a sealed envelope till 27.09.2026 up to 5.30 pm at our State Head Office – House No-A/115, Park Road, PO-Ashiana Nagar, Patna, 800025. Each page of the tender document must be sealed and signed. Your signature on the Tender document will be considered as your confirmation that you have read and accepted all the conditions laid down in the documents. Along with the tender document, the DD of the earnest money must also be submitted. Tender will not be accepted without the earnest money. The tender will not be accepted after the time for submission of the tender as mentioned above is over. Before submitting a tender, the tenderer shall also inspect the site of the work and acquaint himself or herself with the local conditions, means of access to the site of work, nature of work and all other matters pertaining thereto. The tenderer will be deemed to have satisfied himself or herself by actual inspection of the site and locality of the works.

Tender Details

Date of issue of tender	17.09.2026
Last date and time for submission of Tender Document	27.09.2026 till 5.30 pm
Earnest money	2% of Tender Value
Tender No.	
Note: Tender form is given at the end of this document. Please use it for quoting your rate & cost, along with DD of the Earnest money.	

1. The tender document can be downloaded from the official website: <https://baif.org.in/tenders/>
2. The sealed tender document duly filled in with the name of the work and the name of the tenderer written on the envelope will be submitted to BAIF Institute for Sustainable Livelihoods and Development, House No-A/115, Park Road, PO-Ashiana Nagar, Patna till 27 September 2026 by hand/Registered Post/Courier.

Contact Persons:

Amir Soheli and Akhileshwar Singh / Siya Ram

Mobile No. 7033930107 / 9304733860 / 9304259817



Name of work: Supply of complete installation of 5 HP Solar Lift Irrigation Systems (6 Units)
Complete work (Material + Labour) - Installation, Civil work, earthing with all the accessories and transportation, etc.

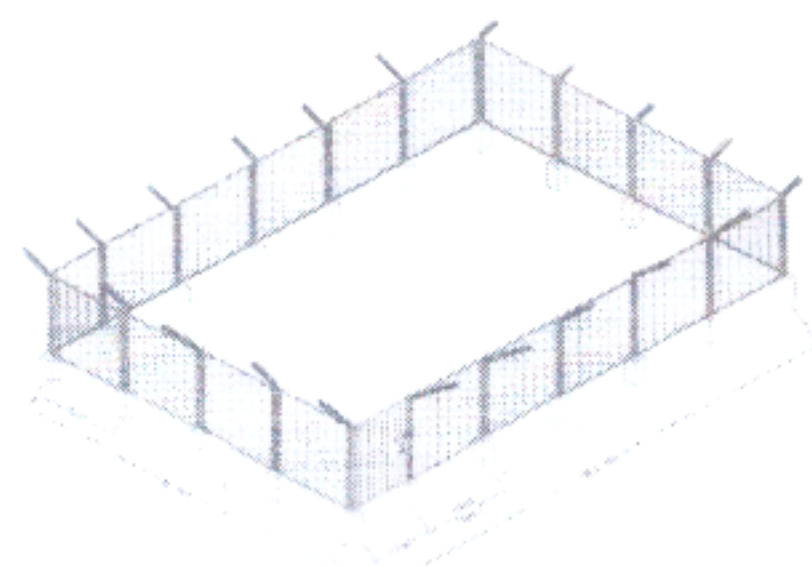
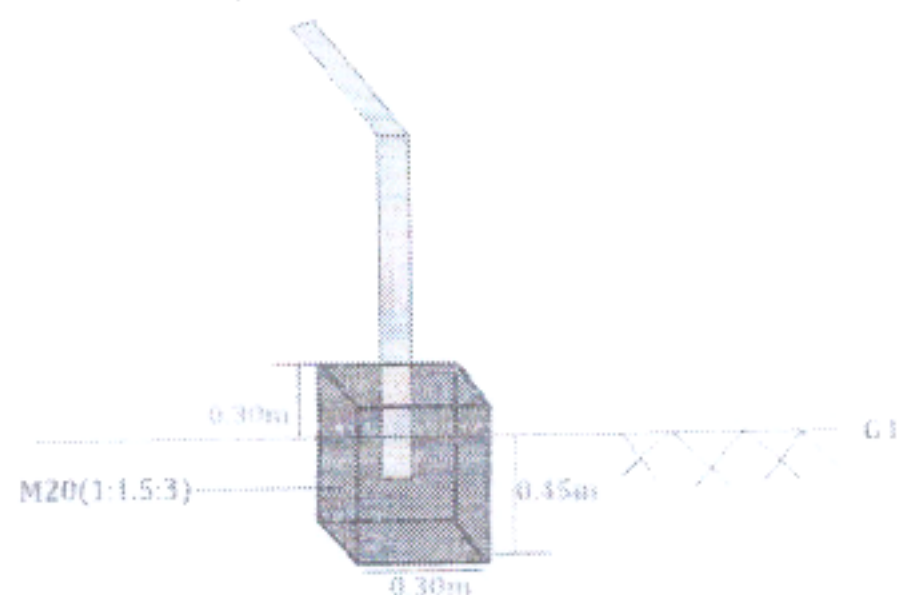
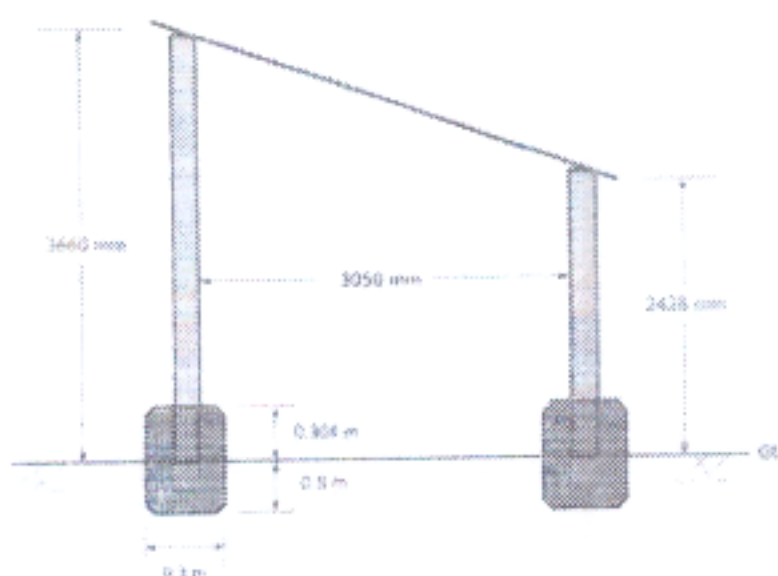
Brief Description of Work	Qty. (No.)	Place of Work	Date of Project Completion
Supply, Installation, Testing and Commissioning of a Complete 5 HP Solar Lift Irrigation System, comprising of 54 in No. Solar PV Modules- 580 Wp,24V, Mono PERC half cut bifacial module 580, hot-dip galvanized module mounting structure with M-20 civil foundations, 40 M Head with minimum discharge 5 LPS or 108000 LPD with 6 hour solar pump controller, DC/submersible cables, earthing and lightning protection system, bore pipe and necessary accessories. The scope also includes a complete Self-Cleaning system for PV modules with 12mm conduits & sprinkle with 1 taps per panel with HDPE pipes, impact sprinklers, valves and fittings, signage board, GI chain-link protective fencing with gate, and recharge pit. The work shall include complete system integration, installation, testing and commissioning, along with 3 years AMC and 1-year insurance, including all required civil, electrical, mechanical and miscellaneous works as per site conditions and technical specifications.	6	In 6 villages HDFC project villages in Lalganj block of Vaishali District, Bihar.	The work must be completed within 30 days from the date of the Work Order.

Solar Lift Irrigation System (Solar Panel, Pump, etc.)

Sr.no.	Brief Description of the Product	Specifications	Quantity
1	Solar PV module	Solar PV Modules - 580 Wp, 24V, Mono PERC half cut bifacial module Make - JAIN/Kirloskar/Vikram/Adani/Luminous	54 in No.
2	PV module mounting structure	80 microne Hot dipped Galvanised Channel section fixed and tilt type, long vertical legs are 3660x75x75x5mm channel section, Short legs are 2428x75x75x5mm all rafter are 4137x50mmx50mmx5mm angle, and purlins -1 should be 2210x40x40x5mm angle section, purlin-2 should be 1830x40x40x5mm angle section long bracing should be 3050x35x35x5mm angle section and short bracing 1585x35x35x5mm and base plate 120x120x5mm fully prefabricated and assembled with GI fasteners and minimum height of the panel from GL should be 1.5 meter & have capacity to resist wind speed of 150 km/hour. Make - Tata/Jindal/Apollo/Kamdhenu/SAIL/ISI Mark	6 in No.
3	Submersible Pump set	5 HP AC Pump 39 M Head with minimum discharge 5 LPS or 108000 LPD with 6 hour (Clear Sunny Day) Having shut off head of 60m Make -JAIN/KSB/Kirloskar/Texmo, AC submersible, 3.7KW/5HP, 3 phase minimum speed 3000 RPM 50 HZ Water fill, with motor enclosed IP 68 Make - JAIN/KSB/Kirloskar	6 in No.
4	Pump Controller	Supply and Installation of Solar Pump controller with IP54 CPRI tested powder coated enclosure RAL 7035 with cross ventilation covered by side canopy and louver filter and Powder coated top canopy.	6 in No.
	VFD with lockable key enclosure	In-built MPPT based variable frequency drive with inbuilt EMC filter with all protection of pump set with incomer MCB protection for both DC and AC supply, Changeover switch 63 Amp 8 pole 3-way, Reverse protection diode 1000 VDC and surge protective device for both AC and DC side Type II 40 kA with all other required accessories (Cable glands, Lugs, Terminal blocks, Cable identification marking) Make - ABB/Fuji/Schneider/Siemens/JAIN/KSB/Kirloskar	
5	Nuts and Bolts for PV panel, rafter and purlins connections	Anti-theft SS304 Nuts and Bolts and aluminum z clamp with high deepened galvanised SS nuts & Bolts. Make -TATA/Usha/Kamdhenu/SAIL/ISI Mark	6 Sets
6	DC Cable & Conduits for protection	Flexible Copper Wire 4SQ MM X 1 Core with HDPE PLB PN-6 Conduits. Make - Polycab/Finolex/ISI Standard	120 M
7	AC cable & Conduits for protection	FLE. COP. Wire 4SQ MMx 4Core with HDPE PLB PN-6 Conduits. Make - Polycab/Finolex	330 M
8	Column Pipe	UPVC Column pipe 63.5MM dia having minimum pressure bearing capacity 6kgf/cm ² Mark - JAIN/Supreme/Prince/Nilkamal/Usha/Astral/Ashirvad	210 M
9	Pump & Fitting Accessories	5HP Submersible with Column pipe, PVC coated wire rope with rope saddle, groove Nipple Column Pipe, Casing cap & GI Band with 63 MM dia pipe outlet. Make - TATA/Usha/ISI Standard	6 Sets
10	Lighting Arrestor	Bonded Copper Lightning Arrestor, Mounting pole with required accessories, effective pole height 4.5 Mts. Above ground down conductor 25x3mm GI strip	6 in No.
11	Earthing & DCDB Enclosure	Chemical earthing kit with earth kit chamber 2 set with bonded copper earth electrode 40mm dia 3mm thickx1.5Mts. Long, pipe earth 50 mm dia GI pipe3.64mm thickx2mts long with 13mm diax80mm long GI nuts & Bolts.	12 in No.

12	Danger Board	GI sheet, Minimum Thickness- 1.1 mm, Size- 1.5* 1.5 Feet Make - TATA/Apollo/Jindal	6 in No.
13	Self-Cleaning system	Self-Cleaning system for PV modules with 12mm conduits & sprinkle with 1 taps per panel	6 Sets
14	Energy Meter & water meter	Energy meter & Water meter for smooth operation Make - Schneider/UNILEC/ISI Standard	6 Sets
15	Insurance coverage against Fire, theft & Burglary	Insurance of the system against fair and theft of Panel submersible and structure. for 1years	6 Feet
16	Warranty and AMC for PV module and pump set	PV module should be 10 years product warranty and 25 years power output warranty, AMC – 3 Years - To be released after every 6 months periodic visit or for rectification of any fault	6 in No.
17	Technical training	Technical Training to field staff and group operator at the end of installation	6 in No.
18	Corner & Line post	Galvanised L-Angle Length 2m and Top tilt angle (40x40x4mm) at corner Make - Jindal/Apollo/TATA/SAIL/Kamdhenu/ISI Mark	120 in No.
19	Strip Section	Galvanised L-Angle Length 1.5m (25x3mm) to bind the mesh at top and bottom Make - Jindal/Apollo/TATA/SAIL/Kamdhenu/ISI Mark	120 Sets
20	Base frame at top and Bottom on long and short wall	Galvanized L-Angle of total Length 58m (20x20x3mm) to bind the mesh at top and bottom along the length Make - Jindal/Apollo/TATA/SAIL/Kamdhenu/ISI Mark	130 Kg
21	Mesh	GI Coated chain 3mm thick link fence Diamond pattern Size 50mmx50mm mesh height 1.5x1.5m	540 Kg
22	Fencing Entry Gate & Accessories	Gate Frame size (1.5 m X 1m) GI angle 40X40X5 mm Thick L 1000, Gate, Gate Frame Rod, Bar@12 (6 in No. vertical), L 1500, Gate Frame Rod, Bar @12 (10 in No. horizontal), Hing (150mm), Middle Frame 25x25X3 mm thick L 1500Lock & Latch, Latching Connecting plate, MS plate 250x250x5 mm thick, Gate Locking flat, GI flat 40x5 tck. L75. Make - Jindal/Apollo/TATA/SAIL/Kamdhenu/ISI Marks	6 Sets
23	Locknuts bolts & Hing	Lock & Latch, Latching Connecting plate, GI plate250x250x5 mm thick with washer and Hing (150mm)	6 Sets
24	Barbed Wire	Barbed Wire - 3mm thick GI	90 kg
25	Excavation and concreting(for fencing)	Excavation of pit & concreting with 1:1.5:3 (M20) concrete mix	10.08 Cum (1.68 cum per unit)
26	Foundation for outlet	PCC brick work for foundation at outlet (1.5x1.5x2.5 ft.)	6 Sets
27	INSTALLATION WORK		6 Sets

Side View – Pole Structure with 22° Roof Slope (Recommended)



[Handwritten signature]

Term & Conditions:

1. The vendor must have a valid registration, GST registration, and PAN. Duly signed copies of each document shall be submitted along with the tender.
2. Earnest Money equivalent to 2% of the tender value shall be submitted along with the tender through a Demand Draft (DD) in favour of **"BAIF Institute for Sustainable Livelihoods and Development, Bihar."**, payable at Patna. Tenders submitted without the required Earnest Money shall not be accepted. The Earnest Money of unsuccessful tenderers shall be returned within a reasonable period.
3. No advance payment shall be made under any circumstances.
4. An amount equivalent to 5% of the bill amount, including the Earnest Money, shall be retained as Security Money for a period of 36 months against the maintenance of the solar pump unit.
5. The retained Security Money shall be refunded after completion of the 36-month maintenance period, without any interest.
6. The Defect Liability and Maintenance Period shall be 36 months for each solar pump unit, commencing from the date of satisfactory completion of the work. If any defect is identified during this period, the vendor shall immediately rectify the defect free of cost. The vendor shall not claim any additional amount for repair, rectification, or maintenance work during the 36-month period.
7. The vendor must have their insurance for solar pump system setup (include all) in 3 years.
8. Penalty for delay in completion of work: The organisation may impose penalties for delay in completion of work except in case of natural calamities and law and order situation. The penalty amount shall be Rs. 500 per day. The tenderer must agree to bear the penalty amount for the delay in the completion of work.
9. The rates offered by the Bidder/ Tenderer will be inclusive of all Taxes, License fees, Royalty, Octroi, Labour, Construction Materials, all Tools and Plants, Water, and Power required for satisfactory completion of the work.
10. Any mishap, injury or damage occurring at the site, will be the responsibility of the vendor.
11. Mention clearly that the rates are inclusive or exclusive of GST and mention the GST rate in %.
12. All payments will be made only after satisfactory completion of the work.
13. The authority for the acceptance of the tender will rest with the organisation. It shall not be obligatory on the said authority to accept the lowest tender or any other tender and no tenderer (s) shall demand any explanation for the cause of rejection of his/their tender nor will the organisation undertake to assign reasons for declining to consider or reject any particular tender or tenders.
14. The competent authority of the organisation for the acceptance of the tender reserves the right to divide the tender amongst more than one tenderer, if deemed necessary.
15. The payment will be made for actual quantity of work, but not more than the quantity of work of a solar pump as mentioned in the work order.
16. The final payment shall be made after satisfactory completion of work on production of tax invoice with warranty card.



17. All works will be paid on the basis of actual measurements taken at site by our Engineer after satisfactory work completion.
18. All work should be executed as per the design and drawings, ensuring quality under the supervision of the Engineer and without compromising on the quality and design of the overall structure.
19. Quantity Variation: The quantities mentioned in the tender are indicative. During field execution, quantities may increase or decrease as per actual site requirements in case of civil work/fencing work/electrical little items like Cables, wires, PVC pipe, HDPE pipes & its accessories, etc. The vendor must execute the work as per the instructions of the field engineer, and payments will be made proportionately based on actual executed quantities.
20. Mention the Warranty, insurance & AMC and Maintenance period of major items like Solar Panel, Pump, Controller etc.
21. All items supplied must strictly conform to the specified technical specifications and will be inspected and verified by the Field Engineer before acceptance.
22. The Vendor shall ensure that the system achieves the specified discharge and performance parameters under standard operating conditions. Performance testing shall be carried out in the presence of the Field Engineer before final acceptance.
23. Any defective material, component, or equipment observed during the warranty period shall be repaired or replaced by the Vendor at no additional cost to the organisation within the stipulated time.
24. The Vendor shall submit all relevant documents, including technical datasheets, warranty certificates, insurance details, AMC terms, operation and maintenance manuals, Panel test certificates including panel serial number wise, and commissioning reports before release of the final payment.
25. The rate contract shall be valid upto 31st March 2026.
26. The Vendor shall be responsible for the safety of materials and equipment during transportation, installation, and commissioning until formal handover of the system.
27. The Field Engineer reserves the right to inspect, verify, reject, or seek replacement of any material not conforming to the approved specifications, quality standards, or tender requirements.
28. The Vendor shall provide after-sales service support during the warranty and AMC period and shall attend to any complaints or breakdowns within the specified response time as agreed in the contract.
29. The solar PV modules, pump, controller, and all associated components shall be from approved manufacturers and shall comply with the latest MNRE/BIS/IEC standards, wherever applicable.
30. The 5 HP Solar Lift irrigation System shall be supplied, installed, tested, and commissioned as a complete unit, including solar PV modules, DC solar submersible pump, controller, cables, connectors, safety devices, and all other accessories required for satisfactory operation.

For BAIF Institute for Sustainable Livelihoods and Development
House No. A/115, Park Road, PO Ashiana Nagar, Patna 800025



Tender Form

CONTACT PERSON (FOR THE TENDERER)

Name	
Address	
GST Number	
Telephone/Contact No.	
E-mail	

ECONOMIC AND FINANCIAL CAPACITY

Financial Year	2023-24	2024-25	2025-26
Annual turnover (Rs. in Lakhs)			

EXPERIENCE

Complete the table using the format below to summarise the major relevant work carried out in the course of the past 3 years by the legal entity or entities making this tender. The number of references to be provided must not exceed 3 for the entire tender.

Sr. No.	Name and Address of Client	Detail of construction work performed	Date/Year of Construction	Contract value (Rs.)



TENDER DECLARATION

1. I/We have read and examined all the tender documents.
2. We also undertake, if required, to provide evidence of the financial and economic standing and the technical and professional capacity according to the selection criteria for this call for tender. We also understand that if we fail to provide the proof/evidence required, within 7 calendar days after receiving the notification of award, or if the information provided is proved false, the award may be considered null and void.
3. I/We shall be debarred for tendering with BISLD-UP. Also, if such a violation comes to the notice of BISLD-BR before the date of start of work, BISLD-BR shall be free to forfeit the entire amount of earnest money deposit.
4. I/We hereby declare that I/We shall treat the tender documents drawings and other records connected with the work as secret/confidential documents and shall not communicate information derived therefrom to any person other than a person to whom I/We am/are authorised to communicate the same or use the information in any manner prejudicial to the safety of BISLD-BR.

Yours faithfully

Name and Signature of Authorised Person.....

Date & Place.....

Seal of the firm/company/entity



Quotation /Tender Value

I am ready to undertake the following items of work at the rates mentioned below:
(Please provide the rates)

S. No.	Particulars / Description	Unit	Rate with GST and HSN/SAC code (₹ per Set/No.)	Total Amount (₹)
01	The work comprises of the design, supply, transportation, installation, testing and commissioning of a complete 5 HP Solar Lift Irrigation System, Solar PV Modules with a minimum 25-year warranty, module mounting structure, concrete foundations as per site conditions. The system shall include a 5 HP DC submersible pump along with a compatible controller. The scope shall include all required cables, connectors, cable ties, clamps, column pipe, complete earthing arrangement lightning arrestor system. The work shall further include a complete sprinkler irrigation system for approximately 1 acre of agricultural land with all necessary fittings and accessories for proper operation. An automatic solar PV panel cleaning sprinkler/shower system using suitable CPVC piping and micro-sprinklers shall also be provided. The scope shall additionally cover a soil moisture meter, properly designed signage board, GI chain-link protective fencing with concrete foundations, along with a suitable recharge pit. The contractor shall be responsible for complete system integration, civil, electrical, mechanical and plumbing works, transportation, wiring, testing, trial operation and commissioning, including all minor and miscellaneous materials required for a fully functional system. The work shall also include 5-year comprehensive AMC and 3-year insurance coverage for the complete Solar Lift Irrigation System, and shall be executed strictly as per approved technical specifications, applicable standards, manufacturer recommendations and actual site requirements. Note: - For detailed information, please refer to the description sheet given on Pages 5, 6, 7 and 8.	6		

Total Amount in words: Rs _____

Any additional information.

Date:

Signature with Stamp

