



BAIF INSTITUTE FOR SUSTAINABLE LIVELIHOODS AND DEVELOPMENT

State Office : Uttarakhand

Nathanpur Ring Road, Mussoorie-Bypass (Jogiwala) P.O. - Nehrugram, Dehradun -248014

Ph. No. +91135-3566165; 7897993041, Website : www.baif.org.in

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CIN : U73200PN2012NPL142984



Ref: BISLD/UK/EVN/2024-25/520

Date: 21/09/2024

**BAIF INSTITUTE FOR SUSTAINABLE
LIVELIHOODS & DEVELOPMENT, UTTARAKHAND**

Website: www.baif.org.in

TENDER NOTICE

Invitation of Bids for Installation of 03 Units of Solar Water Irrigation Systems 5 HP at Narsan Block of Haridwar district of Uttarakhand. Eligible bidders may submit their bids on or before 17.00 Hrs. of 28th September 2024. For bidding documents or any enquiry, contact at the mentioned address:

BAIF State Office, Nathanpur Ring Road, Mussoorie Bypass (Jogiwala)

PO-Nehrugram, Dehradun- 248014.

Contact: +91135-3566165, 7897993041



North Region Office : 27-A, A.C. Banerjee Road (LIC Colony), Prayagraj - 211002, Uttar Pradesh, India
Ph. +91 0532-3500117; 3500118, E-mail : bisld.up@baif.org.in; website : www.baif.org.in

Register Office : Dr. Manibhai Desai Nagar, NH-4, Warje, Pune-411058, Maharashtra, India
Ph. +91 20-25231661-9, E-mail : baif@baif.org.in, Website : www.baif.org.in



Tender Document

for

Complete Installation of 5 HP Solar Pumps (3 Units) in

Narsan Block, District Haridwar, Uttarakhand

**BAIF Institute for Sustainable Livelihoods and Development
Nathanpur, Ring Road, Mussoorie Bypass, Jogiwala, Dehradun, Uttarakhand 248014
Phone: 0135-2662908**

NOTICE INVITING TENDER

Sealed tenders are invited in a prescribed form by **BAIF Institute for Sustainable Livelihoods and Development, Nathanpur, Ring Road, Mussoorie Bypass, Jogiwala, Dehradun, Uttarakhand** from reputed, experienced, technically and financially sound agencies/contractors for the following work:

Tender Details

Date of issue of tender	21 Sep 2024
Last date and time for submission of Tender Documents	28 Sep 2024 till 5 pm.
Mode of Submission	Password-protected pdf file to procurement.uttarakhand@baif.org.in or in a sealed envelope at BAIF Dehradun Office
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 filled-up sealed tender document with the name of the work and the name of the tenderer written on the envelope should be submitted at BAIF Institute for Sustainable Livelihoods and Development, Dehradun, India till 28th September 2024 (5:00 pm) by hand / Registered Post / Courier / Password-protected pdf file to procurement.uttarakhand@baif.org.in

Name of work: Supply and complete installation of **5 HP Solar Pumps (3 in No.)**

Brief Description of Product	Quantity	Place of Delivery	Completion date of project (Delivery and Installation)
Solar Lift Irrigation Scheme As per Details (Annexure 1-5)	3	Villages - Nathukhedi and Akbarpur, Narsan, Haridwar, Uttarakhand	Till _____ 2024 (within 35 days from date of Work Order.)

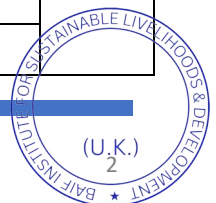
The technical specifications are as follows:

Annexure 1. Construction of Borewell

SN	Particulars	Unit	Quantity
1	Construction of Borewell: Diameter: 6 inch /154 mm Depth of borewell: 55 to 58 m or depending on the water level at the site including cavity formation, gap filling by using gravel. Casing pipe, etc. as per requirement.	No.	03

Annexure 2. Solar Pump

SN	Solar DC Submersible Pumping system Capacity: Minimum -5000 Wp : 5 HP, 3 Ph 720 V, 20 A Current, 85% Efficiency	Unit	Qty. (Set)
1	Solar PV Modules- 550 Wp, 9 in No., Total- 4950 Wp. Type- Mono-Bifacial, Make – Panasonic, Waaree Tata, Adani with 25 Year Warranty.	SET	3
2	Solar Sub. DC Pump & Motor- 5 HP, 4.50 LPS for 60 m Head, with 5 Year Warranty (make/brand – Shakti).	SET	
3	Solar Pump Controller- 5 HP, with 5 Year Warranty.	SET	



4	Module Mounting Structure - Hot Dip Galvanized	SET
5	Inner Connecting Cable - DC, 6 sq. mm, Copper	SET
6	DCDB- Enclosure - Transparent, 28 x 190 x 130, IP 65, SPD- Type 2, 1000V, Citel. DC MCB- 16A, 2P, 1000V, Fuse Holder and Fuse-16A, Qty.	SET
7	Lighting Arrestor Set- LA Type - Spyse Type, Earthing Type - Copper Plate, Thickness-3mm, Size 2' x 2', HDG Pole Mounted 5m eight.	SET
8	Earthing For Controller & DCDB – Type - Copper Plate, Thickness – 6 mm, Size 2' x 2'	SET
9	Sub. Cable - Copper, 4 sq.mm, 3 core, 200m, polycab	SET
10	High Density Pipe- HDPE, PE63, 32mm, 6kg 70m, ISI mark	SET
11	Electrical Fitting material and accessories	SET
12	System Testing, Transportation, Installation, Integration, Commissioning of system, 5 year servicing	SET
13	AMC- 5 Years (every 6 months or whenever there is a problem) AMC should be given to a locally selected person nominated by BAIF team (The vendor has to pay the AMC amount/provide services periodically to the locally selected person)	SET

Annexure 3. Estimate for Underground Pipe work and Accessories

Sr.No.	Activity	No.	Unit	Quantity
1	Excavation for foundation in earth, soil of all types, sand, gravel, soft and hard murum, including removing the excavated material up to a distance of 50 m. beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete. (Lift upto 1.5 m.)			
	Rising Main line		Cum	607.50
2	Providing and supplying in standard lengths Polyethylene Pipe, confirming to IS4984/14151/12786/ 13488 with necessary jointing material like mechanical connector i.e. thread / insert joint / quick release coupler joint / compression fitting joint or flanged joint excluding coupler/specials, including transportation from stores to site of work, inspection charges, excluding GST levied by GI & GOM in all respect. As per IS4984-2016, the pipes upto 110 mm dia. should be supplied in coil form only.			
	Providing H. D. P. E. pipes PE 100			
	IX H. D. P. E. pipes PE 100, 90 mm, 6kg/Sq. cm –ISI Make Jain	1	Rmt	1500.00
3	Lowering, Laying and Jointing H.D.P.E./M.D.P.E. pipes in proper position including all specials by compression fitting/ electrofusion and butt fusion jointing procedure as per relevant IS Code complete with all materials for jointing procedure like Electrofusion machine, Electric heater/butt fusion welding machine with hydraulic jack, top loading clamp etc. and all labours as directed by engineer in charge as per IS-7634 Part II (The main line's length can vary depending on the requirement)			
	Providing H.D.P.E Pipes PE 100			
	IX H. D. P. E. pipes PE 100, 90 mm, 6 kg/Sq. cm -ISI Make Jain	1	Rmt	1500.00
4	Providing and supplying ISI mark CI D/F reflux valves (non-return valves) of following dia including transportation from stores to site of work, inspection charges, excluding GST levied by GOI & GOM in all respect etc. complete. Reflux valves as per IS.5312 Part I (1984) a) Without bypass arrangement PN -1			

	80 mm	1	No.	3.00
5	Providing Butterfly valve confirming for IS - 14846 including worn gear arrangements as per test pressure including inspection charges, transportation from stores to site of work excluding GST levied by GOI & GOM in all respect. complete.			
	80mm		No.	6.00
6	Lowering, laying and jointing in position following C.I.D./F Reflex valves, Butterfly valves and Sluice valves including cost of all labour jointing material, including nut bolts and giving satisfactory hydraulic testing etc. complete. (Rate for all class of valves.)			
	80mm		No.	6.00
7	Providing and supplying Air Valves as per IS14845-2000 and MJP's standard specifications of approved make and quality of following diameters including inspection charges, transportation from stores to site of work excluding GST levied by GOI & GOM in all respect etc. complete			
	25mm		No.	6.00
8	Providing Pressure Relief valve confirming for IS - 14846 including worn gear arrangements as per test pressure including inspection charges, transportation from stores to site of work excluding GST levied by GOI & GOM in all respect etc. complete		No.	6.00
9	Lowering, laying and fixing in proper alignment and position of all types of C.I. air valves as directed by Engineer-in-charge including cost of conveyance from stores to site of work, cost of all material and giving satisfactory hydraulic testing etc. complete (for all class of valves).			
	Air Valve Single Ball (PN-I and PN			
	25mm		No.	6.00
10	Refilling the trenches with available excavated stuff with soft material first over pipeline and then hard material in 15 cm layers with all leads and lifts including consolidation, etc. complete.			
	Rising Main line		Cum	607.50
11	Fitting accessories (service saddle, Tee- 90mm, Elbow- 90mm, Fusion joint/joint)		Set	3.00
12	PP Ball valves with Elbow at Outlet Points of Main Line with a fixed permanent concrete structure at every outlet (every Outlet will be installed using GI pipe or H.D.P.E pipe) (The number of outlets might vary according on the needs)		No.	30.00

Annexure 4. Estimate for panel fencing

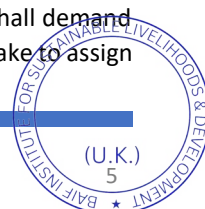
S N	Activity	Unit	Quantity
1	Providing and erecting chain link fencing 1.6 M. height with G.I. chain link of size 50 x 50 mm, 12 gauge thick and fixed 75 mm above ground level on vertical M.S. Angles of 40 x 40 x 6 mm size, including excavating pits for foundation and embedded in C.C. block of 1:4:8 mix of size 450 x 450 x 670 mm. at 1.75 M. c/c with iron bar 16mm dia as hold fast including welding link with angle frame at 30 cm c/c with nuts and bolts and horizontal M.S. Angles at top and bottom of 25 x 25 x 5 mm size and vertical M.S. flat 35 x 5 mm and 25 x 5 mm horizontal including cross support of 40 x 40 x 6 mm angles both side at every corner or bend embedded in concrete blocks of 1:4:8 of size 450 x 450 x 670 mm including 3 coats of oil painting etc. complete.	Rmt	150.00
2	Providing and fixing mild steel grill gate with angle iron frame 65mm x 65mm x 10mm with iron bars at 150mm C/C and diagonal flats as per the detailed drawing including hinges, pivot block locking arrangement, welding riveting and oil painting of three coats of approved shade Weight of gate 35 Kg/Smt.	sqm	5.70

Annexure 5. Miscellaneous Items

SN	Activity	unit	Quantity
1	Complete Insurance of solar lift irrigation scheme (for the period of 3 Years)	Set	3.00
2	Hi tech automatic Solar panel cleaning sprinkler shower system using high quality Finolex CPVC pipes and micro sprinklers	Set	3.00
3	Signage village board with iron sheet and stand of the Board (Dimension: 3ftx4ft (Angle -40x40x6mm) & Iron sheet-18 Gauge) 2ft underground footing , 3.5 ft above ground per board approx. weight 40 kg) and Painting and writing Both side with Installation	Set	3.00

Terms and Conditions:

1. Earnest money (**1% of Tender value**) shall be submitted along with tender through **DD** in favour of "**BAIF INSTITUTE FOR SUSTAINABLE LIVELIHOODS AND DEVELOPMENT, UTTARAKHAND**" payable at **Dehradun**. Tenders will not be accepted without earnest money. The Earnest Money will be returned to unsuccessful tenderers within a reasonable time. The Earnest Money deposited by successful tenderer(s) will be retained towards the Security Deposit (Retained amount).
2. Mention the Warranty and Maintenance period of major items like Solar panel, Pump etc.
3. The 2% of bill amount (including earnest money) shall be retained as a Security money for free maintenance for the period as mentioned in your tender.
4. The retained amount shall be refunded without any bank interest after free maintenance period.
5. **Penalty for delay in completion of work:** The organization 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.
6. 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.
7. In case of any mishap, injury or damage occurring at the site, it will be the responsibility of the Contractor.
8. Mention clearly that the rates are inclusive of GST or exclusive of GST and mention the GST rate in %.
9. **Final Payment:** Final payments will be made only after satisfactory completion of the work. After completion and successful demonstration of irrigation systems and water to be delivered as per design.
10. The authority for the acceptance of the tender will rest with the organization. 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.



11. 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.
12. **Schedule of Payment:** The Schedule of payment shall be decided through negotiation as per condition mentioned by successful tenderer in his tender.
13. The final payment shall be made after satisfactory completion of work on production of tax invoice with warranty card. After completion and successful demonstration of irrigation systems and water to be delivered as per design.

For any clarification, please contact:

1. **BAIF Dehradun Office: 7897993041, 0135-3566165**
2. **Taniya Rawat, Dehradun: +91-7453868478**
3. **Dharmraj Yadav, Narsan: +91-8707075267**

For BAIF Institute for Sustainable Livelihoods and Development

Nathanpur, Ring Road, Mussoorie Bypass, Jogiwala, Dehradun, Uttarakhand.

Tender Form (On Letterhead)

CONTACT PERSON (FOR THE TENDERER)

Name	
Address	
Telephone/Contact No.	
E-mail	

ECONOMIC AND FINANCIAL CAPACITY

Financial Year	2021-22	2022-23	2023-24
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 5 years by the legal entity or entities making this tender. The number of references to be provided must not exceed 5 for the entire tender.

Sr. No.	Name and Address of Client	Capacity of Solar Pump Installed	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- Uttarakhand. Also, if such a violation comes to the notice of BISLD- Uttarakhand before the date of start of work, BISLD-Uttarakhand 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 authorized to communicate the same or use the information in any manner prejudicial to the safety of BISLD- Uttarakhand.

Yours faithfully

Name and Signature of Authorized Person.....

Date & Place.....

Seal of the firm/company/entity:

Quotation / Tender value

I am ready to supply the following items at the below mentioned rates (please provide rates for 1 site. Total 3 sites).

S N	Particulars	Unit	Qty. (Set)	Rate/unit Excluding GST	Amount
1	Diameter: 6 inch/154 mm, Depth of borewell 55to 58m or depending upon water level at the site, Gape filling by using gravel etc casing pipe etc, as per requirement	No.	1		
2	Solar PV Modules - 550 WP, 9 No. Total - 4950 WP Type - Mono-Bifacial, Make – Panasonic, Waaree, Tata, Adani with 25 years Warranty.	SET	1		
3	Solar Sub. DC Pump & Motor - 5 HP, 4.5 LPS for 60 m Head, With 5 year Warranty. (Make / brand – Shakti).	SET			
4	Solar Pump Controller- 5 HP, With 5 Year Warranty.	SET			
5	Module Mounting Structure - Hot Dip Galvanized,	SET			
6	Inner Connecting Cable - DC, 6 Sq mm Copper	SET			
7	DCDB- Enclosure - Transparent, 28 x 190 x 130, IP 65, SPD- Type 2, 1000V, Citel. DC MCB - 16A, 2P, 1000V, Fuse Holder & Fuse - 16A, Qty.	SET			
8	Lighting Arrestor Set- LA Type - Spyse Type, Earthing Type - Copper Plate, Thickness-3mm, Size 2' x 2', HDG Pole Mounted 5m eight.	SET			
9	Earthing for Controller & DCDB – Type - Copper Plate, Thickness - 6 mm , Size 2' x 2'	SET			
10	Sub. Cable - Copper, 4 sq.mm, 3 core, 200m, polycab	SET			
11	High Density Pipe - HDPE, PE63, 32mm, 6kg 70m, ISI mark	SET			
12	Electrical Fitting material & accessories	SET			
13	System Testing, Transportation, Installation, Integration, Commissioning of system, 5 year Servicing	SET			
14	AMC - 5 years (every 6 months or whenever there is a problem) AMC should be given to locally selected person nominated by BAIF team (The vendor has to pay the AMC amount/provide services periodically to the locally selected person)	SET			
15	Excavation for foundation in earth, soil of all types, sand, gravel, soft and hard murum, including removing the excavated material up to a distance of 50 m beyond the building area and stacking and spreading as directed, dewatering, preparing the bed for the foundation and necessary back filling, ramming, watering including shoring and strutting etc. complete (lift up to1.5 m.)				
	Rising Main line	Cum	202.5		
16	Providing and supplying in standard lengths Polyethylene Pipe, confirming to IS 4984/14151/12786/ 13488 with necessary jointing material like mechanical connector i.e. thread / insert joint / quick release coupler joint / compression fitting joint or flanged joint excluding coupler/specials, including transportation from stores to site of work, inspection charges, excluding GST levied by GI & GOM in all respect. As per IS:4984-2016, the pipes up to 110mm dia. should be supplied in coil form only.				
	IX H. D. P. E. pipes PE 100, 90 mm, 6kg. / Sq. cm - Make Jain	RMT	500		
17	Lowering, Laying and Jointing H.D.P.E./M.D.P.E. pipes in proper position including all specials by compression fitting/ electrofusion and butt fusion jointing procedure as per relevant IS Code complete with all materials for jointing procedure like Electrofusion machine, Electric heater/butt fusion welding machine with hydraulic jack, top loading clamp etc. and all labours as directed by engineer in charge as per IS-				

	7634 Part II (Length of the main line can vary based on the requirement)				
	IX H. D. P. E. pipes PE 100, 90 mm, 6kg / sq. cm - Make Jain	RMT	500		
18	Providing and supplying ISI mark CI D/F reflux valves (non-return valves) of following diameter including transportation from stores to site of work, inspection charges, excluding GST levied by GOI & GOM in all respect etc. complete. Reflux valves as per IS.5312 Part I (1984) a) without bypass arrangement PN -1				
	80 mm	No.	1		
19	Providing Butterfly valve confirming for IS - 14846 including worn gear arrangements as per test pressure, stainless steel spindle, caps, including inspection charges, transportation from stores to site of work excluding GST levied by GOI & GOM in all respect etc. complete.				
	50mm	No.	2		
20	Lowering, laying and jointing in position following Butterfly valves including cost of all labour jointing material, including nut bolts and giving satisfactory hydraulic testing etc. complete. (Rate	No.	2		
21	Providing Pressure Relief valve confirming for IS - 14846 including worn gear arrangements as per test pressure, stainless steel spindle, caps, including inspection charges, transportation from stores to site of work excluding GST levied by GOI & GOM in all respect etc. complete	No.	2		
22	Providing and supplying Air Valves as per IS14845-2000 and MJP's standard specifications of approved make and quality of following diameters including inspection charges, transportation from stores to site of work excluding GST levied by GOI & GOM in all respect etc. complete.				
	25mm.	No.	2		
23	Lowering, laying and fixing in proper alignment and position all types of C.I. air valves as directed by Engineer-in-charge including cost of conveyance from stores to site of work, cost of all material and giving satisfactory hydraulic testing etc. complete. (for all classes of valves).				
	25mm	No.	2		
24	Refilling the trenches with available excavated stuff with soft material first over pipeline and then hard material in 15 cm layers with all leads and lifts including consolidation, etc. complete.				
	Rising Main line	Cum	202.50		
25	Fitting accessories (service saddle, Tee-90mm Elbow-90mm fusion joint)	Set	1		
26	PP Ball valves with Elbow at Outlet Points of Main Line with a fixed permanent concrete structure at every outlet (Every Outlet will be installed using GI pipe or H.D.P.E pipe) (The number of outlets might vary according on the needs)	Set	1		
27	Providing and erecting chain link fencing 1.6 m height with G.I. chain link of size 50 x 50 mm, 10 gauge thick and fixed 75 mm above ground level on vertical M.S. Angles of 40 x 40 x 6 mm size, included excavating pits for foundation and embedded in C.C. block of 1:4:8 mix of size 450 x 450 x 670 mm. at 1.75 M. c/c with iron bar 16mm diameter as hold fast including welding link with angle frame at 30 cm c/c with nuts and bolts and horizontal M.S. Angles at top and bottom of 25 x 25 x 5 mm size and vertical M.S. flat 35 x 5 mm and 25 x 5 mm horizontal including cross support of 40 x 40 x 6 mm angles both side at every corner or bend embedded in concrete blocks of 1:4:8 of size 450 x 450 x 670 mm including 3 coats of oil painting etc. complete.	RMT	50		

28	Providing and fixing mild steel grill gate with angle iron frame 65mm x 65mm x 10mm with iron bars at 150mm C/C and diagonal flats as per the detailed drawing including hinges, pivot block locking arrangement, welding riveting and oil painting of three coats of approved shade Weight of gate 35 Kg/Smt.	Sq.m	1.9		
29	Complete insurance of solar lift irrigation scheme for a period of three years	Set	1		
30	Automatic Solar panel cleaning sprinkler shower system	Set	1		
31	Signage village board with iron sheet and stand of the Board (Dimension: 3ft×4ft (Angle - 40×40×6mm) & Iron sheet-18 Gauge) 2ft underground footing, 3.5 ft. above ground per board approx. weight 40 kg) and Painting and writing. Both side with Installation	No.	1		
	Sub Total				
	Add GST				
	Total Cost with GST				
	Total Cost of 1 Unit				
	Total cost of 3 Units				

Any additional information

Date:

Signature with Stamp: