



BAIF INSTITUTE FOR SUSTAINABLE LIVELIHOODS AND DEVELOPMENT

North Region/State Office: Uttar Pradesh

27A, A.C. Banerjee Road, Tagore Town (LIC Colony), Prayagraj 211002

Uttar Pradesh, India, Phone No. 0532-3500117 / 3500118

Email: bisld.up@baif.org.in Webpage: <https://www.baif.org.in/bisld>

CIN: U73200PN2012NPL142984

Date: 02/09/2026

Ref: BISLD/BOQ /Smart School—Roof Top Solar Off Grid Backup System-5Kwh/ 2026-27/01

Invitation for Tender Document

The duly sealed and signed Tender is invited in a sealed envelope till 14.09.2026 up to 5:00 pm at our State Head Office – BAIF Bhawan, 27-A Tagore Town, Prayagraj, Uttar Pradesh 211002. You are invited to submit a Tender for supplying the followings items:

Name of Project	HDFC_HRDP (Bahraich)
Place of Delivery of materials	In Junior Schools (04 in No.), Block: Payagpur, District.: Bahraich, Uttar Pradesh
Name of Schools & Village	Upper Primary Schools & Babhanyawan, Paidi, Amdapur, Veerpur
Name of Items to be supplied	Roof Top Solar Off Grid Backup System - 5 Kwh
Quantity	4 Units (Roof Top Solar Off Grid Backup System - 5 Kwh)
Specification of Items	Solar Power Backup Details of Machinery and Materials Off Grid Solution - BOQ-5Kwh. Details in Page No. 8, 9, 10, 11 & 12

Verified By
Abhishek Pandey
State Head-UP

Surendra Verdia
Regional Director-North

**Tender Document for
Supply of 4 Units of Roof Top Solar Off Grid Backup System - 5 Kwh, Total: 04 villages of
Payagpur block, District: Bahraich, Uttar Pradesh**



**BAIF Institute for Sustainable Livelihoods and Development
27 A Tagore Town, Prayagraj, Uttar Pradesh 211002**

NOTICE INVITING TENDER

The duly sealed and signed Tender is invited in a sealed envelope till 14.09.2026 up to 5:00 pm at our State Head Office – BAIF Bhawan, 27-A Tagore Town, Prayagraj, Uttar Pradesh 211002. Each page of the tender document must be sealed and signed. Your signature on the Tender document will be considered as confirmation that you have read and accepted all the conditions laid down in the document. The DD of the earnest money must be submitted along with the tender document. Tenders will not be accepted without the earnest money. The tender will not be accepted after the time for submission 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 / herself by actual inspection of the site and locality of the works.

Tender Details

Date of issue of tender	2 nd September, 2026
Last date and time for submission of Tender Documents	14 th September, 2026
Earnest money	2% of Tender value.
Tender No.	Smart School - Roof Top Solar Off Grid Backup System - 5 Kwh /Sept. 2026-27/01
<i>Note: The Tender form / BOQ is given at the end of this document. Please use it for quoting your rate & cost, along with DD of the Earnest money.</i>	

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, should be submitted at BAIF Institute for Sustainable Livelihoods and Development, Prayagraj, Uttar Pradesh by 14th September 2026 by hand/Registered Post/Courier/E-mail to procurement.up@baif.org.in with a password protected PDF file as an attachment.

Contact Person:

Ratnesh Kumar/ Shivendra/ Devendra Mandal

Mobile No. 7509165130 / 8318243225 / 9955438948

BAIF Institute for Sustainable Livelihoods and Development

BAIF Bhawan, 27 A, Tagore Town, Prayagraj, Uttar Pradesh 211002

Terms & Conditions:

1. The vendor must have their registration, GST registration and PAN documents. The duly signed copy of each document shall be submitted along with the tender.
2. No advance amount shall be given.
3. 5% of bill amount (including earnest money) shall be retained as Security money for 60 months against maintenance of Roof Top Solar Off Grid Backup System- 5 Kwh, etc.
4. The retained amount shall be refunded without any bank interest after 60 months.
5. **Penalty for delay in supply of materials:** The organisation may impose penalties for delay in supply of materials 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 any delay in the supply of materials.
6. The rates offered by the Bidder/ Tenderer will be inclusive of all Taxes, License fees, Royalty, Octroi, Labour, transportation, all tools required for satisfactory supply of materials.
7. Any mishap, injury or damage occurring at the materials will be the responsibility of the vendor.
8. It should be mentioned clearly that the rates are inclusive or exclusive of GST and the GST rate in % should also be mentioned.
9. The payments will be made only after satisfactory completion of job.
10. The Warranty and Maintenance for 60 months period of major items like Roof Top Solar Off Grid Backup System - 5 Kwh, should be provided.
11. 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.
12. 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.
13. All work should be executed as per the design and drawings, ensuring quality under the supervision of the engineer and don't compromise the quality & design of the overall structure.
14. **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 solar panel/ battery items like Cables, wires, battery, panel, 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.
15. 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.
16. The work shall be executed on a complete Turnkey Basis, including design, supply, installation, testing, commissioning and handover of the complete system.
17. The system shall include minimum 5 kWp Solar PV capacity, suitable off-grid inverter, battery bank, mounting structure, DC/AC cables, DCDB, ACDB, earthing, lighting protection and all necessary accessories.

18. All materials shall be new, unused, approved make/model and compliant with applicable BIS/MNRE and electrical safety standards.
19. The battery bank shall be designed based on the approved load and required backup duration, and the vendor shall guarantee the specified battery backup performance.
20. The module mounting structure shall be properly designed, corrosion-resistant and suitable for the existing roof. Any damage or leakage caused to the roof during installation shall be rectified by the vendor at their own cost.
21. The battery shall have appropriate protection against overcharging, deep discharge, over-current, short circuit and over-temperature. The vendor shall ensure the specified battery backup under approved load conditions.
22. The vendor shall provide complete and properly rated electrical protection, earthing and lightning protection for safe operation of the system.
23. The complete installation shall be carried out by qualified personnel following approved drawings, applicable safety standards and good engineering practices.
24. The system shall be tested and commissioned successfully, including verification of Solar PV generation, inverter operation, battery charging/discharging, backup performance and electrical safety.
25. The vendor shall provide applicable manufacturer warranties and warranty support for Solar PV modules, inverter, battery bank, mounting structure and other major components.
26. Any defective, damaged or non-conforming material or workmanship identified during installation, commissioning or warranty period shall be rectified/replaced by the vendor at their cost.
27. Before final handover, the vendor shall submit all necessary warranty certificates, test reports, commissioning report and Operation & Maintenance Manual.
28. The vendor shall provide basic training to the nominated user/representative for safe operation and basic troubleshooting of the system.
29. The vendor shall be fully responsible for the complete integrated performance, safety and satisfactory functioning of the entire 5 kW Roof-Top Solar Off-Grid System with Battery Bank.
30. The system shall be handed over in complete working condition, and no additional payment shall be claimed for any item necessary for proper and satisfactory operation of the complete system.

For BAIF Institute for Sustainable Livelihoods and Development

BAIF Bhawan, 27 A, Tagore Town, Prayagraj, Uttar Pradesh 211002

Tender Form

CONTACT PERSON (FOR THE TENDERER)

Name	
Address	
Telephone/Contact No.	
E-mail	

ECONOMIC AND FINANCIAL CAPACITY

Financial Year	2023-24	2024-25
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 2 years by the legal entity or entities making this tender. The number of references to be provided must not exceed 2 for the entire tender.

Sr. No.	Name and Address of Client	Supply of Roof Top Solar Off Grid Backup System- 5 Kwh	Date/Year of Installation	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 required proof/evidence within 7 calendar days after receiving the notification of award or if the information provided is proven false, the award may be considered null and void.
3. I/We shall be debarred for tendering with BISLD-UP. If such a violation comes to the notice of BISLD-UP before the date of start of work, BISLD-UP shall be free to forfeit the entire amount of the 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 confidential 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-UP.

Yours faithfully

Name and Signature of Authorised Person.....

Date & Place.....

Seal of the firm/company/entity

Quotation/Tender Value

I / We are ready to undertake the following items of work at the rates mentioned below **(Please give the rates):**

FOR SOLAR OFF GRID BACKUP SYSTEM (2026-2027)									
Project: Roof Top Solar Off Grid Backup System Unit proposed under Project HRDP-HDFC, Bahraich									
Activity: Solar Power Backup Details of Machinery and Materials Off Grid Solution - BOQ-5Kwh									
SN	Component	Specifications	Make	HSN Code	Unit	Qty.	Rate with GST	Amt.	Remarks
1	Solar PV Modules	620/615Wp Topcon Bifacial	Luminous/ Panasonic/ Vikram Solar/Tata power Solar/Waaree		Watt	5535			
2	Solar Inverter (PCU)	5kVA/48V with MPPT, Output: 230V AC $\pm 5\%$ (RMS), 50Hz, Warranty (5 years)	Luminous/UT L Solar/Eapro/Genus		No.	1			
3	Solar Batteries	200Ah/12V Tall Tubular (C10) {5 year Warranty}	Luminous/Exide		No.	4			
4	Mounting Structure	HDG GI Structure minimum upto 150 kg (Multi-Columns Hot Dip Legs & GI Structure with SS304 Fastener & Nut bolts, Minimum 300mm Ground Clearance and Wind Bearing Capacity 150kmph (REPORT required) Provide extra bracing to the legs connected so that structure will be still.	Standard		Kg	170			
		M20 Precast Foundations of size of column (LxW) 0.45 m x 0.45 m	Standard		No. of columns may be increased	8			

5	Concrete Pedestals	and Height of column-0.60 m & No. of 08 column	quality of material		as per Site req.				
6	DCDB 3-in-1 out	DC isolator + DC fuse/MCB + Type-II DC SPD, Terminal, Stopper, Enclosure	L&T / Schneider Electric / ABB / Havells / Polycab		No.	1			
7	ACDB	Enclosure with AC MCB + RCCB/RCBO + Type-II AC SPD, Neutral Link, Terminal	L&T/ Schneider Electric/ ABB/Havells/ Polycab		No.	1			
8	Panel to AJB	UV cable - 4Sqmm - 1 core copper	Havells, Polycab		Mtr	30			
9	AJB to inverter	UV cable - 10Sqmm - 1 core copper	Havells, Polycab		Mtr	20			
10	Inverter to battery	16/25 sq mm Copper cable	Havells, Polycab		Mtr	2			
11	PCU to AC DB, AC DB to Switch Board	6 Sq.mm, 2 Core, Unarmoured Flexible Multistrand copper Cable	Havells, Polycab		LS	20			
12	HDPE Pipe and Accessories	Pipe, band elbow, Socket etc (Select Pipe as per No. of strings)	ISO brand		LS	20			
13	PVC flexible pipe	PVC Flexible Pipe	ISO brand		LS	4			
14	Protection Kit - Lightning Arrestor	Lightning Arrestor LA: 5 spikes with 80mm Length with 8mm Dia, 1.2 Meter Long (100 Micron copper coated Solid earthing electrode)	1.2 Meter Long (100 Micron copper coated Solid earthing electrode) Reputed		Set	1			
15	Protection Kit - Earth Pits	Earthing Kit-rod Dia 14 mm, 1.2 Meter Long (100 Micron copper coated Solid earthing electrode) With 5 kg Earthing compound and GI wire as per Site Required Structure.	Standard		No. (Min)	3			

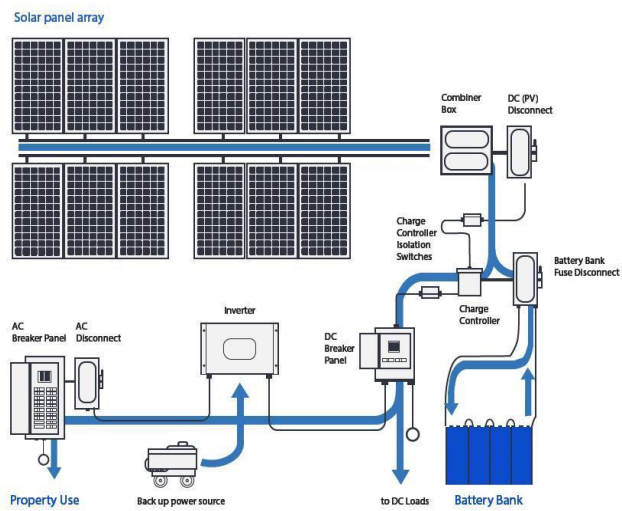
16	Changeover Switch	Manual Changeover	Havells, Anchor		No.	As per Site req.			
17	Battery stand with rubber mat	The elevation height of battery rack should be 4-inches above the floor and should be made of close MS structure Powder Coated L – Angle geometry Profile L – Angle thickness – 5 mm L- Angle LxB – 35 x 35mm Hexagonal Nut – M8x20mm Hexagonal bolt – M8x6mm Strips - 25 x 4 mm (Wood supports are not to be used) In the battery rack, each joint should be assembled with GI nut and bolt assembly .(Welding of any sort should be avoided)	Standard		Nos	1			
18	BOS (Balance of system)	Terminal, Lugs, Cable ties & clips, Ferrules & terminal blocks, DC/AC cable lugs & glands, Conduit & accessories, Board, Zinc Spray, Proper ventilation, Acid-resistant tray, Insulated interconnecting links, Cable Ties, MC4 Connector, MC4 T Connector or Any Accessories	Elmex / Dowells / Jainson /Stäubli/MC4 original, GEESYS, Polycab or equivalent ISO approved brand		No.	As Per Site Req.			
19	5-Year AMC	Comprehensive (Mandatory for HDFC) & for complete unit	-		No.	1			

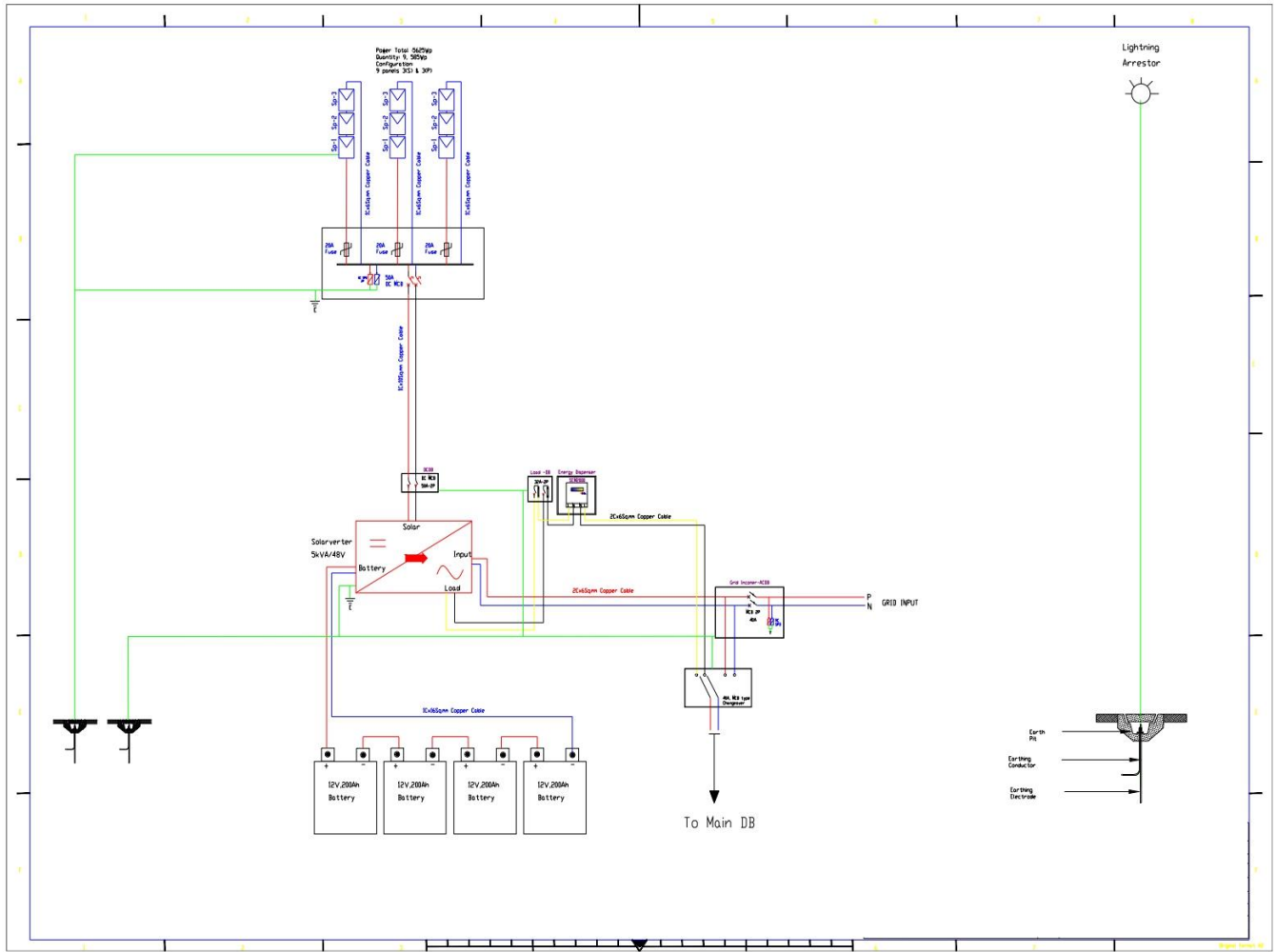
20	5-Year insurance	Comprehensive (Mandatory for HDFC) & for complete unit			No.	1			
21	Hooter with Siren for Anti-Theft System	Hooter with Siren for Anti-Theft System-12V DC electronic security hooter/siren, minimum 115 dB sound output at 1 m, 15–30 W, single/dual tone, outdoor weather-resistant housing, suitable for anti-theft alarm system of rooftop solar	Quick Sense / SKP Automation / Addonix or equivalent approved make		No.	1			
22	Solar Panel Cleaning Brush with Telescopic Pole	6 m aluminium telescopic water-fed pole with 50 × 10 cm soft nylon scratch-free brush, complete with 20 m PU water pipe, water-flow control valve, connectors and necessary accessories, suitable for cleaning rooftop solar PV modules	Kenbrook Solar/Zoom Solar or equivalent approved make.		No.	1			
23	Transportn.	Transportation & Logistics to site	-		No.	1			
24	Installation & Commssg.	Erection, installation, integration, System Testing & Commissioning (Conduit for cable work and fitting work)	-		No.	As per Site req.			
25	Signage Board branding.	Signage board with iron sheet and stand of the board (Dimension: 3ft x 4ft, Angle 40 x 40 x 6mm & iron sheet - 18 Gauge ,2 ft underground footing, 3.5ft above ground approx. weight 40kg) including painting	-		No.	1			

		and writing on both sides with installation.							
Total cost including GST for one unit									
Total cost for four units including GST, transportation and installation, etc									

Snapshot:

OFF GRID SOLAR SYSTEM





Amount in words: Rs.

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Any additional information

Name & Address

Seal & Signature with Date