



PESWAN Request for Sealed Bids

Design, Supply, Delivery, Installation, Testing & Commissioning of Grid Connected Solar PV System



Invitation to suppliers to submit quotations

Published Date: 1st August 2026

1. Background

Vultures, Cows and People-Strengthening an Ancient Relationship is a three-year project, with the technical and financial support from Renewable World (RW), Preservation of Environment and Social Welfare Association of Nepal (PESWAN) is implementing livelihood activities in Kanchanpur. The project pilots an integrated approach linking vulture conservation with improved livelihoods for dairy farmers and sustainable management of cow shelters in the buffer zone of Shuklaphanta National Park in Kanchanpur district, reaching 1,439 households.

The project seeks to improve farmers' economic status by strengthening cooperative-led dairy enterprises, which provide essential services such as milk collection, chilling, processing, and marketing. Rising electricity costs and frequent power outages threaten the financial sustainability of these enterprises, so the project plans to install solar grid systems to reduce energy expenses, enhance operational reliability, and promote clean energy use. This intervention will lower production costs, improve competitiveness, and contribute to environmental conservation, ultimately benefiting dairy farmers in Beldandi Rural Municipality.

2. Call for Quotations

Please read and understand these instructions before responding, to ensure that your quotation meets our requirements, including the use of specific forms.

Key Parameters for the Request for Quotations

This is a request for an invitation to submit a quotation for the Design, Supply, Delivery, Installation, Testing & Commissioning of grid connected Solar PV project in Kanchanpur District (VCP Project) to PESWAN.

The closing time and date for submitting the quotation is 17:00 NST, 30th August 2026.

All quotations must be for work carried out by the bidder, with neither the whole nor part of the work being sub-contracted out by the bidder.

Key Dates and Cost for Bid Development and Submission

These are the following dates for this quotation process. PESWAN reserves the right to exclude incomplete quotations or quotations received after the closing date.

Task	Date
Issue of Request for Quotation	1 st August 2026
Deadline for submitted clarifying questions	21 st August 2026
Response to clarifying questions	24 th August 2026
Closing date for quotations to be received	30 th August 2026, Time 5 PM NST
Selected supplier to be notified	6 th September 2026
Contract to be signed with supplier	15 th September 2026



All bidders are responsible for covering any cost involved to develop their bid. This includes any travel and assessments carried out in the intended location of the work. PESWAN will not cover these costs in order to develop the bids, nor cover their costs as part of the contract with the selected bidder.

Eligibility of Bidders

The invitation for quotations is open to all suppliers who are:

- Registered in Nepal as per prevailing rules & regulations.
- Having VAT Registration
- Have a tax clearance certificate for the last fiscal year (FY 82/83).
- Able to provide quotations with costs which are valid for 90 days after the deadline of the request for quotations.
- Have significant experience on supply, delivery, Installation, Testing and Commissioning of Solar grid connected system for more than 5 years.
- There are no conflicts of interest, be bankrupt or be under formal investigation.

Clarifying Question Submitted by Suppliers and Visits to site

You may submit clarifying questions to the following e-mail address – procurement@peswan.org.np

PESWAN along with project technical team will respond by COB on 24th August 2026. PESWAN will aim to respond with helpful information but reserves the right to withhold information which might jeopardize a transparent and competitive process. If the supplier would like to visit the site to inform their bid, PESWAN will facilitate it. However, all costs associated with such a visit will be borne by the supplier and not repaid by PESWAN before or after signing the contract.

Submission Process

Submissions need to be complete and made by 30th August 2026, Time 5 PM NST. They must be submitted to the following address in hard copy with authorised signatures from the suppliers.

PESWAN central office, Bhimdatt Municipality-18, Katan, Kanchanpur, Nepal or Lalitpur metropolitan city-25, Sainbu, Bhaisipati, Nepal, or VCP Project Office, Sukhlaphanta municipality-10, Jhalari, Kanchanpur, Nepal.

The documents must be submitted in English / Nepali and they must be typed, except for signatures. Bidders will be required to submit technical and financial proposals separately in hard copies enclosed separately in a single envelope. The PESWAN Procurement Committee, with the support of project technical team will first evaluate the technical proposals. Only the financial proposals of bidders who qualify technically will be opened and evaluated. The following documents must be included for bidding process.

1. **Cover letter** - outlining the main aspects of the quotation and agreement to provide a bank guarantee for final payment following quality service. Also provide information on the relevant experience of the organisation with self-declaration declaring no conflicts of interest, be bankrupt or blacklisted from any agencies.

2. **Detailed technical design** - with calculations, single line diagram and relevant data sheets. *(relevant when bidder is designing the system).*
3. **Specification of equipment and materials** - include the specifications for each type of equipment and materials including mention of any warranty period on equipment.
4. **Workplan** – outlining tasks, human resources, and timing to be completed.
5. **Bill Of Quantity (BOQ) / Budget and Resources** - including costs broken down for each component or item as well as details of other cost associated with it.
6. **Due Diligence related documents**
 - **Audited financial statements** – provide these for the last three years.
 - **Company legal registration documents and any renewals**
 - **Latest Tax clearance documents.**
 - **Bidder Key information and Declaration form** – See annex 1.

References: When procuring works and services we will require 2 references from people/organization who have experience of your work. These will only be required once PESWAN has identified its choice of supplier from the quotation process.

The following information is included in the annexes for your reflection and consideration.

Annex 2 – Bid Security

Annex 3 – Performance Bond

Annex 4 – Warranty Form

Annex 5 – Code of Conduct for suppliers

Annex 6 – Terms and Conditions

It is important to note that the bidder cannot adjust their bid once submitted, unless requested by PESWAN.

PESWAN Clarifying Quotations with Suppliers

During the quotation review, PESWAN reserves the right to request clarification from the supplier around information provided in the submission. The supplier is expected to provide a comprehensive and timely response.

Criteria for Selection

PESWAN will take a quality cost-based approach. As such we will use criteria to assess submissions. However, PESWAN reserves the right to adjust these if necessary. The criteria for this quotation submission are the following:

- Quality and suitability of products as per the specifications.
- Warranty / after sales service level of provision.
- Experience and expertise of the supplier in delivering similar services / works.
- Understanding and presence of the area with the service or works are to be carried out and timing for completion of Work
- Cost (no extra cost for taxes and duties will be paid).

And the following are conditions for the selection process:

- The supplier will only submit 1 quotation. If multiple quotations are submitted, PESWAN reserves the right to remove the supplier from the selection process.
- PESWAN reserves the right to adjust the selection criteria if needed.
- No information related to the evaluation of the bids will be disclosed to bidders or any other personnel not officially concerned with the process until the award to the successful bidder has been announced and accepted.
- Any efforts by the bidder to influence PESWAN in the selection process will result in the rejection of the bidder's bid.
- PESWAN will check for errors on the bid pricing and will communicate any discrepancies to the bidder, with evidence. If the bidder does not accept the corrected amount, then the bid is forfeited.
- The supplier has no conflicts of interest in relation to the request.

Request for Quotation Amendments and Cancellation

PESWAN is requesting quotations for this task based on the best knowledge of the need and resources. However, due to unforeseen circumstances, PESWAN reserves the right to amend the request or cancel it. Notification of these changes will be made for all bidders to see.

Securities

Bid security - Bidders must provide the Bank letter for Bid security for **2%** of the Bid Amount in the form of Bank Guarantee. Bid security shall be valid for **30 days** beyond the bid validity period (*i.e. bid security validity up to 90 days from the date of bid opening*). The bid security submitted by the unsuccessful bidders will be released within **28 days** after the contract is awarded to the successful bidder. Any bid without bid security will not be considered for evaluation.

Performance security - The successful Bidder shall submit an acceptable performance bond in the form set out in Annex 2, equal to **10%** of the contract amount before signing the contract. The bid security of the successful Bidder shall remain bound until the bidder submits the Performance Security. The bid security bond will be released within **28 days** on submitting the Performance Security. The Performance Security validity period shall be **6 months or sixty (60) days** beyond the expected completion date, whichever is greater.

Goods Specification

Below are the specifications for the equipment or goods to be purchased. Please include this completed table within your submission.

1. SOLAR ARRAY

S.N	Specifications Required	Compliance with Specification	Reference Document (Specify Document)
1.	Manufacturer Name		
2.	Brand:		
3.	Model:		
4.	The manufacturer shall have: ISO 9001, ISO 14001, OHSAS 18001 Certificates		
5.	Individual Module Specifications - Peak Power under STC ≥ 500 Watt-peak - PV Module Efficiency: $\geq 21\%$ - Cell type: Mono crystalline - No. of Cells per Module: Minimum 72 - Nominal Module Operating Temperature: 42 ± 3 °C - Warranty: Minimum 10 years The specification of the PV module shall be available online for the purpose of verification of vital parameters.		
6.	Local certifications - RETS Certificate (PIT Certificate /RST Certificate) - International certification: (IEC 61215-1:2016 and IEC 61215-2:2016) or IEC 61215-1:2021 and IEC 61215-2:2021, IEC 61730-1:2016, IEC 61730-2:2016, IEC 62804-1:2015, IEC 61701:2020 and IEC 62716:2013 - IEC 61730 for PV module safety qualification,		

	IEC 62804 for detection of potential induced degradation (PID)		
7.	A letter provided by principal PV module manufacturer in their letter head stating the warranty period Warranty $\geq$ 10 years Performance Guarantee: - first year: $\geq$ 97% of STC power 10 years: $\geq$ 90% of STC Power 25 years: $\geq$ 80% of STC Power linear warranty $\leq$ 0.8% per year from year 2 and onwards.		
8.	All PV modules offered for the project must be of same type, same model, same power rating and same manufacturer		
9.	The Bidder must submit the technical datasheet of PV Module.		
10.	Manufacturer Authorization letters shall be provided at the time of bid submission. The specification of the PV Module shall be available online for the purpose of verification of vital parameters.		

Notes: All the supporting documents for the certification along with detailed datasheet of the panel must be provided

2. BATTERY STORAGE SYSTEM

S.N	Specifications Required	Compliance with Specification	Reference Document (Specify Document)
1	Manufacturer Name		
2	Brand		
1.	Model:		
2.	Type: Valve Regulated Lead Acid (VLRA) Gel Tubular battery		
3.	Manufacturer's experience in manufacturing Batteries: At least 5 years' experience.		
4.	The manufacturer shall have: ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2017 Certificates		

5.	Battery Storage Nominal Capacity: Minimum 19.20 kWh		
6.	Cycle Usage: ≥ 1200 cycles at 80% DOD		
7.	Operating temperature minimum 0°C to +50°C		
8	Minimum Protection Class: IP20		
9	All battery Packs/cells offered for the system must be of the same type, same model, same AH rating, from the same manufacturer, and same manufacturing batch.		
10	The Bidder must submit the technical data sheet of the Battery.		
11	Mounting of Battery Bank: Cabinet Mounted/Stackable		

3. PV INVERTER

The general requirement of the PV inverter or grid connected inverter shall match voltage, frequency, phase angle and phase sequence of the national grid system of Nepal. The PV inverter shall also have Maximum Power Point Tracker (MPPT). The inverter generated harmonics, flicker, DC injection limits, voltage range, frequency range, power factor range and anti-Islanding measures at the point of connection to the utility services should follow Nepal Electricity Grid Code.

S.N	Specifications and Standards Required	Compliance with Specification	Reference Document
1	Manufacturer Name/Brand/Model		
2	Manufacturer's experience in manufacturing inverters: At least 5 years		
3	The manufacturer shall have: ISO 9001, ISO 14001, OHSAS 18001/ISO 45001 Certificates		
4	The bidder must provide a manufacturer authorization letter, signed and stamped stating 5-year warranty period, bid number and size of the PV inverter in their letterhead.		
5	Minimum Capacity: 10 kW		
6	Inverter type: Three Phase PV Inverter with in-built MPPT		
7	Efficiency of MPPT Controller: at least 95%		
8	Inverter Peak efficiency: At least 98%		
9	Inverter Euro efficiency: At least 97%		

10	AC output Voltage: Three Phase 400±10% Vac (L-L), Single Phase 230 ±10% Vac (L-N)		
11	Isolation: Transformer less		
12	Output Frequency: 50 Hz ± 2.5%		
13	Output Wave form: Pure Sine Wave		
14	Total Harmonic Distortion (THD): < 5% at full load		
15	Power factor ranges: 0.85 lagging to 0.95 leading		
16	Degree of Protection: At least IP65 according to IEC 60529		
17	Protection: DC reverse polarity, DC disconnect, grid monitoring, anti-islanding, Arc Fault Circuit Interrupter (AFCI), PV string current monitoring, AC/DC surge protection type II, AC short circuit current and ground fault monitoring.		
18	The inverter shall be capable of complete automatic operation including standby, wake-up and synchronization		
19	Grid support: LVRT, HVRT, Active and reactive power control		
20	Operating Temperature: Minimum range of -20°C to +60°C		
21	Communication Interface: Ethernet LAN, WiFi or Modbus or RS232 or RS485. Inverter must communicate with other equipment & monitoring system and must have data logging and web server features.		
22	International Certifications: IEC 61727 :2004 - PV system characteristics of utility interface, IEC 62116 :2014 - test procedure of islanding prevention measures , IEC 62109-1 :2010 & IEC 62109-2 :2011 - safety of power converters for use in photovoltaic power system, IEC 61683 :1999 - procedure for measuring efficiency and IEC 60068 - environmental testing. The Inverter must be certified by accredited Certification Body Testing Laboratory (CBTL) or Renewable Energy Testing Laboratory (RETL) or National Certification Body (NCB) or Renewable Energy Certification Body (RECB) enlisted in the IECCE website or IECRE website. The enlisted CBTL or RETL or NCB or RECB must have Scope of PV Inverter Testing.		

23	The Supplier must submit the technical datasheet of PV inverter.		
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4. SUPPORT STRUCTURE FOR PV MODULES

All the module structure shall be installed in such a way that it utilizes optimum land surface/roof surface and there must not be shadow on the solar array during daytime. Tilt angle and orientation: 30 degree or as per the site condition and south facing to ensure optimum power production. The structure should be arranged in such a way that there is no shading within the panels.

S.N	Specifications Required	Compliance with Specification	Reference Document (Specify Document)
1.	The PV module structure must be made of MS hot-dip galvanized suitable sections of rectangular tubes, angles and channels. The minimum standards to be followed are: - Vertical leg (Main leg): Minimum 80mmx40mmx6mm Rectangular Hollow Section - Rafter: Minimum 80mmx40mmx2mm Rectangular Hollow Section - Purlin: Minimum 80mmx40mmx2mm Rectangular Hollow Section - Column bracing or supporting bracing: Minimum 40mmx40mmx5mm angle - Base plate: Minimum 200mmx200mmx6mm The horizontal spacing between 2 vertical legs must not be greater than 2.5 m. The PV array must be designed with cross section with maximum up to 2 numbers for vertical placement. There must be minimum of 25mm uniform spacing between the adjacent PV modules. The minimum thickness of galvanization must be at least 80 microns throughout the surface. The producer should provide a certificate of 80-micron galvanization upon the request.		
2.	Support structure design and foundation or fixation mounting arrangements should withstand wind speed up to 160 km/hr		
3.	The mounting structure and its accessories shall be able to resist at least 20 years of outdoor exposure without suffering damage or corrosion.		
4.	Clearance: Between ground level and bottom edge of the PV modules/arrays of must be at least 20cm for easy maintenance		

	for roof top and minimum 80 cm for ground installation.		
5.	Stainless Steel (SS 304) nuts & bolts should be used for fixing modules with the structure. Stainless Steel (SS 304) or Galvanized bolts, nuts, fasteners, washers, mounting clamps should be used for fixing structure and compatible with materials which it is being fixed. In case of welded structure, the galvanization must be done after the fabrication work. No welding will be allowed after establishing the structure at the site.		
6.	The foundation of PV structure shall be minimum 0.3m (L)x 0.3m (B)x 0.3m (H) pillar above the roof/ground surface and pillar in 1:1.5:3 PCC		

Note: For the roof mounted structure, the service provider must ensure that the no damage to the existing structure is done

5. DC COMBINER BOX

DC combiner box refers to the box where the PV modules/ strings are collected, and cables are routed towards Solar Charge Controller or PV inverter. The DC combiner box shall comply with following standards and technical specifications.

S.N.	Specifications Required	Compliance with Specification	Reference Document (Specify Document)
1.	Manufacturer Name/Brand:		
2.	The manufacturer of all components of PV combiner box shall have: ISO 9001, ISO 14001 or Nepal Standard (NS) Certificates		
3.	Combiner box accessories shall be compatible to the maximum DC voltage 1000V-1500V (as per the PV array design configuration).		
4.	Operating temperature: -25°C to +55°C		
5.	The DC combiner box shall be rated for exterior installation suitable for the Site Conditions, shall be UV and weather resistant, and must be rated minimum for IP65.		

6.	DC box installation shall be protected from direct rain, Sun and dust		
7.	All cables must be connected properly and cable entering/outings into/from the box must be sealed properly (use of cable glands, cables shoes, copper tube, thimble, cable ties) so that dust and insects, mice cannot enter the box		
8.	The Supplier must submit the technical data sheet of PV Combiner Box.		

6. AC COMBINER BOX

S. N	Specifications and Standards Required	Compliance With Specification	Reference Document (Specify Document)
1	Manufacturer Name/Brand:		
2	The manufacturer of all components of AC combiner box shall have: ISO 9001, ISO 14001 or Nepal Standard (NS) Certificates		
3	Degree of Protection: At least IP65 according to IEC 60529. The enclosure must be UV resistance.		
4	The Supplier must submit the technical data sheet of AC Combiner Box/Protection Components and all integrated components.		

7. CABLE AND ACCESSORIES

S.N.	Specifications Required	Compliance with Specification	Reference Document (Specify Document)
1.	Manufacturer Name/Brand		
2.	The manufacturer shall have: ISO 9001:2015, ISO 14001 or Nepal Standards (NS)		
3.	Cables shall be multi-strand, PVC insulated cables and UV resistant, suitable for outdoor installations.		

4.	Conductor insulation rated for temperatures must be at least -10°C to 90°C in accordance with IEC62930/EN50618.		
5.	All DC and AC cables must be copper.		
6.	Allowable voltage drops from PV Module to controller <3%		
7.	Protection and safety: PV array to Charge Controller or Inverter cables: Cabling trench with high grade insulation protection		
8.	Outdoor cables from PV plant to Powerhouse should be armoured. The cable must be underground at depth of 0.3 meter with sand and soil filling. Any underground cable interconnections must be water- tight corrosion resistant types		
9.	All external wiring, cabling, insulation material and junction boxes must be UV-resistant, and terminals protected against dust and moisture.		
10.	The Supplier must submit the technical datasheet of AC cables.		

8.EARTHING AND PROTECTION SYSTEM

S. N	Specifications and Standards Required	Compliance Status
1	The lightning protection system must be designed according to IEC 62305.	
2	Air Termination System	
	2.1 Manufacturer Name/Brand:	
	2.2 Manufacturer's experience in manufacturing Lightning Protection System: At least 5 years	

	2.3 The manufacturer must have: ISO9001:2015, ISO14001:2015 Certificates	
	2.4 Warranty: Warranty assurance of at least 5 years	
	2.5 Early Streamer Emission (ESE) type Air Terminal shall be Stainless Steel and comply with international ESE standard such as IEC 62305-3:2010 or NFC 17-102/2011.	
	2.6 The air terminal must be rated to withstand a discharge current capacity of 200kA.	
	2.7 The air-terminal at its lower extremity must be connected with direct connection to the earth-termination system via a copper cable of minimum 50 mm ² cross section (down conductor).	
3	Down Conductor	
	The down conductor consists of a copper conductor of 50 mm ² cross section copper strip, 25mm x 3 mm connecting the lower extremity of the air-terminal section to the earthing electrode of the earth-termination system.	
4	Earth Termination System	
	4.1 Copper Rod Size: 2.5-meter length x 25mm diameter	
	4.2 Earthing inspection pit of each earthing electrode shall be made of solid concrete with minimum dimension of 600mm x 600mm x 3mm. Cover shall be marked with word "EARTH" or acceptable earthing marking.	
	4.3 The cable used for electrical components and structure earthing must not be less than 16 sq. mm.	
	4.4 The Bidder must submit the technical datasheet, drawings and relevant calculations of the Air Termination System, Down Conductor and Earth Termination System.	
	4.5 Backfill Compound: 2 bags, each 25 kg.	
5	Surge Protection Device (SPD)	
	5.1 SPD connected to DC system shall be suitable for PV application and compatible with the voltage range (1000V-1500V).	

	5.2 DC SPD Type 1 + 2, Nominal Voltage 1000V, I _{max} 20 kA as per IEC: 61643- 31:2018 at input side.	
	5.3 Single Phase AC SPD Type 1 + 2, Nominal Voltage 230 V as per IEC: 61643- 11:2011 at Main Distribution Box and compatible to the system	
	5.4. DC MCB DC MCB with rated short circuit Breaking Capacity 10 kA	
	5.5 Bidder must submit the data sheet of SPDs and MCBs	

System Testing and Commissioning Requirement

The bidder must submit the approved test report of the equipment from the accredited laboratory.

Site test: As per standard norms, following tests shall be carried out at the field.

- The service provider needs to ensure certified technician for the installation, testing and commissioning of the system.
- Full load tests shall be conducted at site for a minimum duration of five hours with a maximum allowable downtime of 5% (for any and all reasons cumulatively) of the total test duration.
- Each finished component or item installed at site shall be inspected against applicable requirements as indicated in the technical specifications.

System Warranty and Guarantee

The complete grid connected solar system must be warranted against any manufacturing/ design/ installation defects for a minimum period of Two (2) years. Solar system components must be warranted as indicated in the technical specifications Warrantee/Guarantee card to be supplied with the power plant must contain the details of the system supplied. The manufacturers can provide additional information about the system.

During the Warrantee/Guarantee period, Employer will have all the rights to cross check the performance of the solar power plant. Employer may carry out the frequent inspections of the system installed and randomly pick up its components to get them tested at any test centre. If during such tests any part is not found as per the specified technical parameters, Employer will take the necessary action. The decision of Employer in this regard will be final and binding to the Bidder.

Others

- Appropriate labelling to the solar powered sockets, solar PV Power components and its wirings.
- Single Line Diagram (SLD) must be provided in Technical Bid.
- Safety breakers and surge protectors: Internationally Recognized certifications
- Safety Signage: High visibility warning signs such as electrical shock, acid burn, explosion etc shall be placed at the recommended sections

Goods Delivery



This request for quotations includes the delivery of goods. The goods will be delivered to **Shree Siddha Baijanath Multipurpose Cooperative Ltd, Beldandi rural municipality-02, Kanchanpur District** and be finalised following a signed and verified Goods Received Note, signed by both the supplier and PESWAN.

Services and Works: The supplier, engaging with PESWAN will perform the following activities: the delivery and installation of grid connected Solar PV system including operation and maintenance training to the operators and cooperative members, providing after sales services.

Financial Proposal (To be included in separate envelop mark as Financial Proposal))

Within the quotation the supplier will provide costings. These should include the detail by unit as well as any delivery, construction, installation, and training costs. They should encapsulate what is included in the scope of work. The financial proposal should be submitted with authorised signatures & Official Seal.

SN	Item	Unit Measur e	Unit Qty	Unit Cost (NPR)	Total (NPR)	Cost
1	Solar photovoltaic Array of total minimum capacity 9 kWp (size of individual PV module should be $\geq 500\text{Wp}$, Mono, Mono PERC or poly crystalline silicon- $\eta \geq 21\%$, RETS certified)	kWp	9			
2	Valve Regulated Lead Acid (VRLA) Gel Tubular battery bank with minimum total usable/installed storage capacity of 19.20 kWh, 48 V nominal DC system voltage, DC protection accessories, terminal covers, cable lugs and all required battery bank accessories.	kWh	19.20			
3	Complete Set of solar PV array mounting/support structure for 9 kWp PV capacity, including hot-dip galvanized steel / corrosion-resistant structural members, module rails, end clamps, mid clamps, SS fasteners, anchor bolts, bracings, bonding provision, Appropriate Civil Structure and all accessories required for safe installation at the approved tilt and orientation to withstand the wind speed of 160 km per hour.	Sets	1			
4	Supply, fabrication and installation of battery rack suitable for the proposed battery bank, including corrosion-resistant MS powder-coated/HDG structure, insulated supports, cable routing arrangement, proper ventilation clearance, anchoring and all accessories.	sets	1			

5	Minimum 10 kW solar hybrid inverter suitable for 48 V DC battery system and solar PV input, including MPPT charge controller, inverter protection, grid/generator/load interface as applicable, monitoring communication port, LCD/display, all required connectors, accessories and programming for reliable backup operation.	No.	1		
6	PV string junction / DC combiner box complete with suitable DC fuses, fuse holders, DC SPD-Type 1 + 2, Nominal Voltage 1000 V, I _{max} 20 kA, as per IEC 61643-31:2018 or EN 50539-11:2013 at the input side of Inverter, DC isolator, terminal blocks, cable glands, earthing terminal, internal wiring, labels and weatherproof enclosure suitable for outdoor PV application.	No.	1		
7	DC-MCB with Rated Short Circuit Breaking Capacity 10 kA	Sets	1		
8	Supply, laying, dressing, termination and testing of UV-resistant solar DC cable of minimum 6 sq. mm copper conductor from PV array to PV inverter/MPPT controller, including protective conduits/trays, cable ties, MC4-compatible connectors, identification tags and all accessories. Cable sizing shall maintain voltage drop below 3%.	m	90		
9	Supply, laying, glanding, lugging, termination and testing of minimum 10 sq. mm copper armoured AC power cable, 3.5-core, from PV inverter to control/distribution box including cable support, glands, lugs, ferrules, heat-shrink sleeves and phase identification. Cable sizing shall maintain voltage drop below 3%.	m	20		
10	Lighting Arrestor 2-meter Vertical Air Terminal of Dia 12 mm with complete support and down conductor of 25 x 3 mm copper strip	Set	1		

11	Supply, installation, testing and commissioning of two earthing systems: one for equipment/protective earthing and one for lightning protection earth termination, including maintenance free 2 m copper rod earth electrode of minimum 20 mm diameter and 2.5 m length, earth pit chamber with cover, backfill chemical compound minimum 2 x 25 kg per pit, clamps, test links, copper earth conductor minimum 16 sq. mm and all accessories. Resistance value must be less than 5 Ohm round the year.	Set	2		
12	Supply and installation of equipotential bonding copper busbar with minimum six connection points, including insulated mounting base, fixing arrangement, cable lugs, labels, bonding links and connection of PV structure, inverter, ACDB, battery system, LPS and equipment earthing conductors as required.	Set	1		
13	Supply, installation, wiring, testing and commissioning of AC Distribution Board complete with suitably rated AC MCCBs/MCBs, AC SPD- Type 1 + 2, Nominal Voltage 230 V, I _{max} 20 kA, as per IEC: 61643-11:2011 at Main Distribution Box copper busbar, neutral bar, earth bar, internal wiring, metering/indication as required, cable glands, ferrules, labels and powder-coated enclosure including Changeover Switch.	Set	1		
14	Supply, installation, wiring, configuration, testing and commissioning of 4-pole, three-phase, 100 A Automatic Transfer Switch (ATS) complete with controller, electrical/mechanical interlocking, manual/auto mode, status indication, control wiring, enclosure and all accessories for automatic changeover between available power sources as per approved single-line diagram.	Set	1		

15	Supply, laying, termination and testing of single-core multi-strand copper building wires of minimum 4 sq. mm with suitable PVC/HDPE conduits, bends, junction boxes, saddles, switches/accessories and proper colour coding for internal distribution and auxiliary wiring as per approved layout.	Roll	2		
16	Supply and installation of balance-of-system components including cable trays, conduits, cable shoes/lugs, cable ties, switches, SS nuts and bolts, cable glands/sleeves, metal grips, screws, PVC grips, PVC insulation tape, MC4-compatible connectors, ferrules, labels and all miscellaneous accessories required for complete installation.	LS	1		
17	Supply of operation and maintenance tool kit including combination plier, portable hammer, screwdriver set, wire cutter, adjustable wrench set and digital clamp meter with minimum 600 V rating and 0–200 A current measurement range, Multimeter, insulating gloves, insulating tapes, slide wrench, tester, and other day to day required tools for simple operation and maintenance in etc supplied in durable toolbox.	Set	1		
18	Preparation, supply and installation of safety signage, warning labels, equipment identification tags, operating instructions and project information board of size 4 ft x 6 ft. Board and signage shall be weather-resistant, UV-resistant and rust/corrosion-resistant.	Set	1		
19	Complete installation, testing, commissioning and handover of the solar PV backup system including associate civil and site works, equipment installation, cable termination, earthing connection, pre-commissioning checks, functional testing, protection verification, performance demonstration, user training, as-built drawings, test reports and operation and maintenance manual.	LS	1		

20	Supply and installation of suitable fire extinguisher for inverter/control/battery room, complete with mounting bracket, signage and inspection tag.	No	1		
21	Transportation of equipment to project site and Installation	LS	1		
22	O&M Training including T&C	LS	1		
23	After Sales Services	LS	1		
	Total Taxable Price				
	Non-Vatable Item Cost				
	VAT @ 13% of the Vatable Item				
	Grand Total (In Fig)				
	Grand Total (In Words)				

(In case of variation in grand total amount in figure and words, the grand total amount mentioned in the words will be considered as final)

Name of Authorized Person:

Designation:

Signature:



Company Seal:

Annex 1 – Bidder Key Information and Declaration Form

Key Information

Name of the company	
Company Registration Number	
Year of Registration	
Place of Registration	
Company's Address	
Phone Number	
Email address	
Name, role and e-mail address of contact person	

Declaration Statements

Declaration Statements	Yes / No
There is no conflict of interest between 1) the company or the individuals within the company and 2) PESWAN or its staff or the relevant partner	
You agree to abide by the PESWAN Code of Conduct (annex 2) and wider ethics (annex 3)	
You agree to the terms and conditions (annex 3)	
You confirm that the company is not bankrupt or filing for bankruptcy or under formal investigation	
You agree to provide warranties / after sales service for the identified items	

Signature:

Name:

Title:

Company:

Annex 2 – Bid Security

BID SECURITY

(On letterhead of 'A' class commercial Bank)

[Bank's Name, and Address of Issuing Branch or Office]

Date:

Beneficiary: **[Name and address of the Employer]**

Guarantee No.:

We have been informed that **{insert name of the bidder}** (hereinafter called "the Bidder") intend to submit its bid to you (hereinafter called "the Bid") for the execution of **{insert name of bid}** under the Bid No..... **{insert bid number}**. Furthermore, we understand that, according to your conditions, bids must be supported by a bid guarantee. At the request of the Bidder, we **{insert name of Bank}** hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of NRs **{insert amount in figures} in words NRs.....{insert amount in words}** upon receipt by us of your first demand in writing accompanied by a written statement stating that the Bidder is in breach of its obligation(s) under the bid conditions, because the Bidder:

- Has withdrawn its Bid during the period of bid validity specified by the Bidder in the Form of Bid: or
- Having been notified of the acceptance of its Bid by **(insert name of employer)** during the period of bid validity, (i) fails or refuses to execute the Contract, if required, or (ii) fails or refuse to furnish the performance security, in accordance with the bidding documents.

This guarantee will expire: (a) if the Bidder is the successful Bidder, upon our receipt of copies of the contract signed by the Bidder and the performance security issues to you upon the instruction of the Bidder; and(b) if the Bidder is not the successful Bidder, upon the earlier of (i) our receipt of a copy of your notification to the Bidder of the name of the Successful Bidder; or (ii)90 days after the expiration of the Bidder's bid which comes to be2026.Consequesntly, any demand for payment under this guarantee must be received by us at the Office or before that date.

Name:

In the capacity of (Position).....

Signed.....

duly authorised to sign the Bid Security for and on behalf of

Date.....(DD/MM/YYYY)

[Seal of the bank]

Annex 3 – Performance Bond (example for reference)

1. PERFORMANCE SECURITY

(On letterhead of 'A' class commercial Bank)

[Bank's Name, and Address of Issuing Branch or Office]

Date:

Beneficiary: **[Name and address of the Employer]**

Guarantee No.:

PERFORMANCE BOND

WHEREAS **[name of Contractor]** (hereinafter called "the Contractor") has undertaken, in pursuance "Notification of Contract Award" issued by you dated _____ 20____ to execute **[Brief description of works]** (hereinafter called "the Contract").

AND WHEREAS it has been stipulated by you in the said letter that the Contractor shall furnish you with a bank guarantee by a reputable bank for the sum specified therein as security for compliance with the Contractor's performance obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Contractor a guarantee:

THEREFORE WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Contractor, up to a total of NPR, KES.....(In Words:), and we undertake to pay you, upon your first written demand declaring the Contractor to be in default under the Contract and without cavil or argument, any sum or sums within the limits of GBP, NPR, KES.....(In Words:) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the _____ day of _____ 20____¹.

Signature and seal of the Guarantors

[Name and Signature]

[Seal of the bank]

¹ ** Insert the date sixty (60) days after the expected completion date. The Employer should note that in the event of an extension of the time for completion of the Contract, the Employer would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee. In preparing this guarantee, the Employer might consider adding the following text to the form, at the end of the penultimate paragraph: "The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [six months], in response to the Employer's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee".

Annex 4 – Warranty Form

1. Warranty Form

[On letterhead of the Bidder]

Date:

To: [Insert Name and Address of Employer]

Re: Warranty Period for the Works and Equipment

Gentlemen/Ladies,

We, the undersigned, hereby offer a warranty period of 2 (two) years against defects in design, equipment/materials, and workmanship in the Works.

We also offer an extended warranty period for the following equipment against their manufacturing defects.

We understand that the Employer shall be entitled to draw on the Retention Fund up to the full amount of the bond in case if we fail to remedy defects or provide the warranty services in accordance with the Contract.

SN	Equipment	Warranty Period	Remarks
1			
2			
3			
4			
...			

We will visit the sites 2(two) times during warranty period of 2 (two) years.

Sign:

Name:

Designation

Company Seal

Note: The minimum warranty period for the overall system should be two years. The warranty period for individual components may vary.

Annex 5 – Code of Conduct for Suppliers



PESWAN Code of
Conduct.pdf

Annex 6 – Terms and Conditions

Contract and Payments

- The purchase order or contract will be signed by both the selected bidder and PESWAN.
- Any requests for changes will need to be put in writing and approved before any changes are implemented.
- Any goods provided by the supplier which are damaged, poor quality or not in alignment with the contract will not be received or paid for.
- Any services or works provided by the supplier which are poor quality or not in alignment with the contract will not be accepted or paid for. Inspections will be carried out by PESWAN with the supplier present. Where suitable, adjustments will be agreed and carried out by the supplier, inspected again and payment made.
- Payments will be made in accordance with the contract unless issues related to poor or delayed quality and delivery (point above).

Choice of Supplier

- The supplier will only submit 1 quotation. If multiple quotations are submitted, PESWAN reserves the right to remove the supplier from the selection process.
- PESWAN reserves the right to adjust the selection criteria if needed. And the supplier will be informed of the choice of supplier made by PESWAN.
- No information related to the evaluation of the bids will be disclosed to bidders or any other personnel not officially concerned with the process until the award to the successful bidder has been announced and accepted.
- Any efforts by the bidder to influence PESWAN in the selection process will result in the rejection of the bidder's bid.
- The supplier has no conflicts of interest in relation to the request.

Adjustments and Costings

- The supplier will take it upon itself to cover any increases in costs of products, transport, works, and services, above the amounts included in the quotation.
- The supplier will adhere to the workplan, discussing and approving any adjustments with justification. No additional budget will be provided for these adjustments.
- The supplier shall be responsible for the payment of all taxes or other fees required by the government. And these costs shall not be charged to PESWAN.



Legal Obligations

- The supplier will abide by all legal obligations in the country when delivering the goods, services or works.
- In no event will PESWAN be liable for the suppliers' loss of profits or consequential or incidental damages
- The supplier will abide by legal obligations on health and safety as well as applying good practice, even if in addition to legal requirements.

Ethics

- The supplier will have full regard for the safety of all people involved in the work and any other people entitled to be upon the site.
- The supplier will sign, receive training, and adhere to PESWAN's safeguarding policy.
- The supplier will sign, receive training, and adhere to PESWAN's anti-fraud, bribery and corruption policy, environmental protection policy, safeguarding policy, and code of conduct.
- Any supplier submitting a quotation, must inform PESWAN of any potential conflict of interest.
- A contract will be signed, with the currency of payment being in NPR.

Termination of Contract

PESWAN may terminate the contract at any time if the contractor:

- Does not commence the work as per the contract.
- Fails to achieve progress as per the contract.
- Abandons the work without completion.
- Was found to be involved in fraud, bribery and corruption, safeguarding incidents, environmental damage, or harmful labour practices.