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Ministry of Defence  
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08 Baishakh 1433

21 April 2026

06.06.0000.215.272.26

**AMENDMENTS AGAINST DGDP TENDER NUMBER 215.272.26 DATED 15 MARCH 2026 FOR BTY FOR SOLAR PANEL, QUANTITY-1.5 MW HR**

References:

- A. Directorate General Defence Purchase tender number 215.272.26 dated 15 March 2026.
- B. Inspectorate of Electronics & Instruments letter number 23.01.901.051.03.192.85.15.04.26 dated 15 April 2026 (Not to all).
- C. Inspectorate of Electronics & Instruments letter number 23.01.901.051.03.192.85.21.04.26 dated 21 April 2026 (Not to all).

1. In light of Reference B and C, you are requested to replace the Technical Specification of subject tender by newly attached enclosure of this letter.
2. All other terms & conditions of the subject tender will remain unchanged.

  
MD ZAHIDUL KABIR  
Major  
For Director General

Enclosure:

1. Technical Specification-05 (Five) Pages Only.

Distribution:

External:

Information:

Army Headquarters  
General Staff Branch, Overseas Operation Directorate

Army Headquarters  
Master General of the Ordnance Branch  
Ordnance Directorate

Army Headquarters  
Master General of the Ordnance Branch  
Electrical and Mechanical Engineers Directorate

Army Headquarters  
Master General of the Ordnance Branch  
Inspection and Technical Development Directorate

Inspectorate of Electronics & Instruments  
Dhaka Cantonment

Action:

(Concerned Supplier/Firm)

Internal:

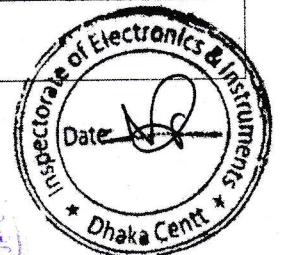
Accounts Branch

IT Section (For Uploading in DGDP Website)

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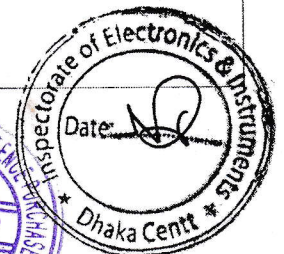
TECHNICAL SPECIFICATION OF NIV BTY FOR SOLAR PANEL

Serial	Description of Technical Parameter	Required Specifications	To be filled up by the manufacturer/ principal
<b>Part-1: General Specifications</b>			
1.	Nomenclature	Bty for Solar Panel	
2.	Name of the Local Agent with full address, Email, Contract detail	To be mentioned	
3.	Name of Manufacturer with full address, Email, Contract detail	To be mentioned	
4.	Name of the Principal with full address, Email, Contract detail	To be mentioned	
5.	Brand and Model	To be mentioned	
6.	Country of Origin	GP A or B	
7.	Country of Manufacture	GP A or B	
8.	Country of Assembly	GP A or B	
9.	Year of Manufacture	Brand new and year of production not before the calendar year of contract	
<b>Part-2: Technical Specifications</b>			
10.	Energy Storage Modular/ Containerized System	To be mentioned. It should be compatible with 1.2 MWP Solar Hybrid System.	
11.	Installation Type	Indoor/Outdoor	
12.	<b>Battery Module Specifications</b>		
	a. Cell Chemistry	Lithium Iron Phosphate (LiFePO <sub>4</sub> )	
	b. Cell Configuration	To be mentioned	
	c. Cycle Life	Minimum 6000 Time within 5-15 yrs	
	d. Nominal Energy	To be mentioned	
	e. Nominal Current Capacity	To be mentioned	
	f. Voltage Range	To be mentioned	
	g. Cell Max. Continuous Charge rate	Minimum 0.45 C	
	h. Cell Max. Continuous Discharge rate	Minimum 0.45 C	
	j. Static Transfer Switch	Switching time maximum 60 millisecond	
	k. Weight	To be mentioned	
	l. IP Level of Battery Module	Minimum IP 55	
13.	Battery Voltage and Capacity of the system	To be mentioned for 1.2 MWP Solar System. Module or cluster wise energy allocation to be mentioned clearly	
14.	<b>Dimension (LxWxH) in mm</b>		
	a. Each Cell	To be mentioned (LxWxH)	
	b. Each Unit	To be mentioned (LxWxH)	
	c. Total Storage Cabinet	To be mentioned (LxWxH)	
15.	<b>Weight</b>		
	a. Kerb Weight	To be mentioned	
	b. Gross Weight	To be mentioned	
16.	<b>Environment Standards</b>		
	a. Operating Temperature	0 <sup>o</sup> ~ 50 <sup>o</sup> C	
	b. Relative Humidity	0% to 95% (non-Condensing)	
	c. IP Type for	IP 55	
	d. Cooling Method	Intelligent Air Cooling/Liquid Cooling	
	e. Maximum Operating Altitude	To be mentioned	
17.	Storage Energy Volume	Minimum 1.5 MWh	
18.	Usable Energy Volume	To be mentioned	
19.	Depth of Discharge (DoD)	To be mentioned	
20.	Voltage range (For solar panel battery)	To be mentioned	
21.	Energy Density (Watt/ kg)	To be mentioned (Minimum 80%)	
22.	Round-Trip Efficiency	Minimum 90%	
23.	C-Rate (Rate of charge/ discharge)	Minimum 0.45 C	
24.	Current Capacity	To be mentioned	
25.	<b>Battery Management System (BMS)</b>		
	a. BMS must be able to manage independent battery cluster such that due to uneven PV generation and for	To be mentioned	



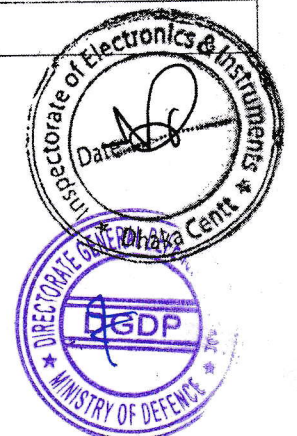
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Serial	Description of Technical Parameter	Required Specifications	To be filled up by the manufacturer/ principal
	any failure of single battery cluster or PCS will not affect the normal operation of the overall system and balance of the current consistency		
	b. Volt Management Accuracy	To be mentioned	
	c. Volt Monitoring Interval	To be mentioned	
	d. Temperature Management Accuracy	To be mentioned	
	e. Temperature Monitoring Interval	To be mentioned	
	f. Voltage Management Range	To be mentioned	
	g. Over Temperature Protection System	Automatic	
	h. Over Current Protection	To be mentioned	
	j. Short Circuit Protection	To be mentioned	
	k. Insulation Type	To be mentioned	
	l. Remote Monitoring & Alert System	To be mentioned	
	m. Energy Shutdown	Details to be available	
26.	<b>Power Conversion System (PCS)</b>	To be provided.	
	a. Type of Conversion	DC/AC and AC/DC, Smart Inverter	
	b. Operating Temperature	0 <sup>o</sup> ~ +50 <sup>o</sup> C	
	c. Cooling System	Intelligent Air-Cooling / Liquid Cooling	
	d. Dimension (LxWxH) in mm	To be mentioned	
	e. Weight	To be mentioned	
	f. Altitude	To be mentioned	
	<b>g. Display</b>		
	(i) Display Type	To be mentioned	
	(ii) Dimension (LxW) in mm	To be mentioned	
	(iii) Display Control System	To be mentioned	
	h. Communication Protocol (modbus)	To be mentioned	
	<b>j. DC Input Specifications</b>		
	(i) DC Voltage range	To be mentioned	
	(ii) Max Voltage	To be mentioned	
	(iii) Max DC Current	To be mentioned	
	<b>k. AC Output Specifications</b>		
	(i) Rated Output Power	To be mentioned	
	(ii) Max Output Power	To be mentioned	
	(iii) Rated Output Voltage	400-440 VAC	
	(iv) Max Voltage Range	To be mentioned	
	(v) Frequency	50 Hz	
	(vi) Output Current	To be mentioned	
	(vii) Off-grid Output Voltage	To be mentioned	
	(viii) Off-grid Overload Capacity	To be mentioned	
27.	Fire Suppression System	Compliance with International fire safety standard. Use of appropriate fire suppressor for Li induced fire.	
28.	Safety Configuration	Automatic fire extinguishing system	
29.	a. Necessary array connection Junction Box, Cables and all of required attachments for connecting the Storage Battery with Solar Panels and Generator (200-500 KVA) will be provided by the supplier.  b. A Composite Circuit Diagram needs to be submitted with offer.  c. The Solar Panel (1.2 MWP) project and Generators will be available at the user end. The Storage Battery System needs to be connected with the existing Solar Panel, Generator and load. The existing Solar Project consisting following items and accessories:	To be provided	



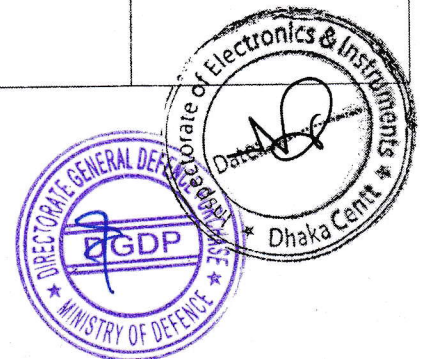
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Serial	Description of Technical Parameter	Required Specifications	To be filled up by the manufacturer/ principal
	<b>Ser</b>	<b>Item Name and Description</b>	
	a.	PV Module, Brand: Sunpro, Model: SP605-120M12	
	b.	PV Array Connection Junction Box with Fuse Brand: HENSEL, Model: Mi PV 3321.	
	c.	Surge Protection Device (SPD) Brand: Raycap, Model: Protec T1-1100PV-5Y-01 (-R)	
	d.	On Grid Inverter with DC/AC SPD Kit Brand: FRONIUS, Model: ECO 27.0-3-S	
	e.	Hybrid Fuel Save Controller, Brand: Encombi, Model: EcCube 2S	
	f.	<b>MCB/MCCB, Brand: ABB</b> Model: XT1N 160 TMD 63/630 F F 3p Model: XT1N 160 TMD 125/1250 FF 3p Model: XT1N 160 TMD 160/1600 FF 3p	
	g.	Distribution Box. Brand: JRC POWERTECH, Model: LVDB020302	
	h.	<b>AC/DC Cable, Brand: Poly Cables</b> 1x50 Sqmm (AC NYY) 1x35 Sqmm (AC BYA) 1x25 Sqmm (AC NYY) 1x16 Sqmm (AC NYY) 1x16 Sqmm (AC BYA) 1x6 Sqmm (DC NYF)	
30.	<b>Transportation:</b> The storage cabinet with power conversion system must have provisions for transporting it by vehicle, transporter and trailer Required number of hooks to be provided in required points of the frame of storage cabinet so that it can be lifted easily. Number of hooks to be mentioned	To be mentioned	
31.	Inspection, installation & commissioning	a. Primary Joint Post Shipment inspection (JPSI) will be carried out first at Dhaka cantonment and final JPSI will be carried out at mission area.  b. Own trained technician will install the items in mission area. If require, 02x skilled technician will be asked from supplier for installing & commissioning the items (Travel, food and accommodation cost will be borne by Bangladesh Army). In that case, concern contingent will provide necessary manpower, internal transport and other technical support in mission area.	
	<b>Other terms and conditions</b>		
32.	If any items not specified in the specification but required for full range of operation by the store, the bidder should specify and quote such item in their offer. In case of failure to specify and quote, the bidder must provide such items free of cost if contract is awarded	To be mentioned	
33.	Offered Technical Specifications must conform to the specifications mentioned in the submitted brochure/catalogue otherwise offer will not be accepted	To be complied	
34.	Authorization Certificate to be provided by the Manufacturer in favor of Principal	Certificate to be submitted with offer	



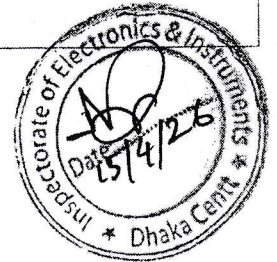
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Serial	Description of Technical Parameter	Required Specifications	To be filled up by the manufacturer/ principal
35.	Authorization Certificate to be provided by Principal in favor of Local Agent	Certificate to be submitted with offer	
36.	List of BOQ/BOM in tabulation format	To be provided with offer	
37.	Final acceptance Certificate (FAC)	Respective contingent (user) will issue FAC after completion of installation of hardware and software (if any). If it is found fully functional and comply with the contracted technical specifications, Inspection note (I-Note) will be issued after receiving the FAC from the respective contingent through user directorate.	
<b>Part-3: Training Requirement</b>			
38.	Operation, Repair and Maintenance Training (Local Training to be conducted in Bangladesh by the supplier)	To be provided (As per requirement of EME Directorate)	
<b>Part-4: Books &amp; Publications</b>			
39.	a. Owner's/User Manual in English (Complete Book Type) including CD/DVD	To be provided as per requirement of EME Directorate	
	b. Updated Workshop/ Repair Manual in English (Complete Book Type/ Computer generated print out)	To be provided as per requirement of EME Directorate	
	c. Spare Parts Catalogue in English (Book type)	To be provided as per requirement of EME Directorate	
	d. Spare Parts Price Catalogue in English Book type.	To be provided as per requirement of EME Directorate	
<b>Part-5: List of Spares</b>			
40.	Analyzer, Measuring, Testing/ Fault finding and Diagnostic set	To be mentioned (If required)	
41.	Special Service Tools (SST)	To be mentioned (if required) To be provided as per requirement of EME Directorate	
42.	Special Service Material (SSM)	To be mentioned (if required) To be provided as per requirement of EME Directorate	
43.	List of Standard Spare Parts to be submitted with offer	List to be submitted with the offer. To be supplied as per requirement of EME Directorate	
44.	Required standard Tools Kits	To be provided. List to be submitted with the offer	
<b>Part-6: Different Level of Maintenance</b>			
45.	Product warranty (minimum 02 yr) and Performance Warranty (minimum 05 yr) will be given. a. A Warranty/ Guarantee certificate has to be provided for the equipment/ items for a trouble-free service of Product warranty (minimum 02 yr) and Performance Warranty (minimum 05 yr). The warranty period to be counted from the date of receipt of equipment/items by the consignee after acceptance by IE&I and issuance of Inspection Note (I/Note). b. If any defect/ discrepancies arise during filling in the respective equipment/ items by the respective equipment/stores within warranty/ guarantee period after receipt by consignee/ user unit, that must be repaired/ replaced (as applicable) free of cost within maximum 3 months from date of case arises.	Supplier will provide all support as per warranty clause both at home and abroad. Supplier will solve the problem on notification. If the technician needs to visit the item on ground, Bangladesh Army may facilitate the travel for technicians; cost will be borne by the supplier. In this regards, certificates to be submitted with the offer by the manufacturer, principal and local agent).	



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Serial	Description of Technical Parameter	Required Specifications	To be filled up by the manufacturer/ principal			
	<p>c. Warranty/ Guarantee certificate will be furnished for spares mentioning as "If the spares are not fitted in the respective equipment then the spares will be replaced free of cost".</p> <p>d. The firms supplying equipment/items on warranty will identify these by attaching a warranty label/disc or stenciling this by indelible (permanent) paints on the equipment/ items as shown below:</p> <table border="1" data-bbox="304 510 694 618"> <tr> <td>Warranty: From ..... to .....</td> </tr> <tr> <td>Contract No &amp; Date .....</td> </tr> <tr> <td>Supplier's Name, Address and Tel No:...</td> </tr> </table> <p>e. A Warranty/ Guarantee certificate will be provided by the local agent in DPL-15 as above before using I-Note</p>	Warranty: From ..... to .....	Contract No & Date .....	Supplier's Name, Address and Tel No:...		
Warranty: From ..... to .....						
Contract No & Date .....						
Supplier's Name, Address and Tel No:...						
46.	Model Validity certificate by OEM for Minimum 10 (Ten) years from the date of signing of contract	Certificate to be submitted with the offer				
47.	After sales service should be provided by the principle and local agent as and when required for at least next 10 years (Free of charge up to warranty period and thereafter with payment).	Supplier will provide all after sales service as per commitment/ contract clause both at home and abroad. Supplier will solve the problem on notification. After completion of performance warranty period, if the technician needs to visit the item on ground, Bangladesh Army may facilitate the travel for one person including travel costs. In this regards, <b>certificates to be submitted with the offer by the principal and local agent).</b>				
48.	Spares will be available for at least 15 years (Confirmation certificate to be provided by Manufacturer)	Certificate to be submitted with offer				



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**DIRECTORATE GENERAL DEFENCE PURCHASE**  
**MINISTRY OF DEFENCE**  
**NEW AIRPORT ROAD, TEJGAON, DHAKA-1215**  
**Email: info@dgdp.gov.bd**  
**Web: www.dgdp.gov.bd**

**NOTICE FOR CHANGE OF TENDER OPENING DATE**

1. This is for notification of all concerned that, following tenders will be opened on **29 April 2026** instead of **15 April 2026**:

Ser No.	Name of Items & Qty	Date of Selling		Date of Opening	Currency	Cost of Schedule (BDT)	Tender No
		From	To				
1.	Bty for Solar Panel, Qty-1.5 MW hr	15-03-2026	28-04-2026	29-04-2026	Local/ Foreign	5,000.00	215.272.26 (1 <sup>st</sup> Time)

2. All other terms & conditions of above mentioned tender will be remained unchanged.

MD ZAHIDUL KABIR  
Major  
For Director General

12 April 2026

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