



NATIONAL POWER CORPORATION

SUPPLEMENTAL / BID BULLETIN NO. 2

PR NO. HO-PIB25-003 / REF. NO. PB250415-AM00099
DESIGN, SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING
OF SAN PASCUAL SOLAR PV-DIESEL HYBRID SYSTEM (WITH ESS)

08 APRIL 2025

All prospective bidders and authorized copyholders of the Bid Documents of the project mentioned above are hereby informed of the changes/clarifications as follows:

SECTION III - BID DATA SHEETS	
ITEM 10.6 - TO BE SUBMITTED DURING BID OPENING (III-BDS-2) and SECTION VIII-BIDDING FORMS - CHECKLIST OF TECHNICAL	
(Notes: To be included as requirement)	
<p><u>Certificate of Site Inspection</u> duly signed by NPC Official Representative stated herein:</p> <p>ENGR. JEANMAR S. ESTRADA Plant Head, San Pascual DPP Contact Number: 0939-9018674</p>	
<p><u>Contact person</u> to facilitate the Site Inspection:</p> <p>ENGR. BENJAMIN G. LOPEZ, JR. Senior Engineer -Project Implementation Cluster A, PMD-PES Contact Number: 0917-5778126 / 0949-1167646</p>	

SECTION VI - TECHNICAL SPECIFICATIONS			
TDS - Annex B-1.2			
FROM		TO	
Total Number of Inverters connected in parallel	At least Seven (7) Units	Total Number of Inverters connected in parallel	At least Four (4) Units

SECTION VI - TECHNICAL SPECIFICATIONS			
TDS - Annex G-1.1			
FROM		TO	
Number of String Inverters	At least Seven (7) Units	Number of String Inverters	At least Four (4) Units



NATIONAL POWER CORPORATION

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SECTION VI – TECHNICAL SPECIFICATIONS

PART II – TECHNICAL DATA SHEETS

G-8.0 BATTERY MODULES and G-19.0 AUTOMATIC CIRCUIT RELOSER

ITEM G-8.7 (Physical Characteristics)

Clarifications:

- Maximum Gross Weight (Kg)

Section VI-Technical Specifications: EW-2.4.2 Battery Modules/Batteries under item letter d) Battery Modules shall be self contained, modular and replaceable. For purposes of transportation, installation and maintenance, the Supplier shall provide specialized and appropriate lifting equipment whenever the gross weight of each battery module exceeds 60kgs. The lifting equipment shall be compatible with the battery lifting points, lugs or handles as prescribed by the Manufacturer. Notwithstanding, Battery Modules exceeding 150kgs shall not be acceptable.

- Pls. see attached/revised Part II-TECHNICAL DATA SHEETS (G.8.0. BATTERY MODULES and G-19.0 AUTOMATIC CIRCUIT RECLOSER) (comprising of two (2) pages only)

CLARIFICATIONS: For the redundant cooling system

Please refer to EW-2.4.6 ESS Enclosure/Cabinet.

CLARIFICATIONS:

For the Rated Symmetrical Interrupting Current at rated voltage, Rated Short Time Current for 3 secs and Rated Making Current of the Circuit Automatic Recloser.

Please refer to G-19.11, G-19.12 and G-19.13

All other terms and conditions shall remain the same. Supplemental for clarifications shall only supersede the affected requirements.

For the information and guidance of all authorized copyholders of the Bid Documents and prospective bidders.

For the Bids and Awards Committee:


LARRY I. SABELLINA

Vice-President, Mindanao Generation
and Chairman, Bids and Awards Committee

For the redundant cooling system of the ESS please refer to EW-2.4.6
ESS Enclosure/Cabinet

PART II – TECHNICAL DATA SHEETS

EW – ELECTRICAL WORKS

G-8.0 BATTERY MODULES

ITEM	DESCRIPTION	NPC REQUIREMENTS	SUPPLIER'S DATA
G-8.1	Manufacturer	By Supplier	
G-8.2	Model	By Supplier	
G-8.3	Chemistry	NMC, LMO, Blended LMO / NMC, LFP	
G-8.4	Nominal Capacity	By Supplier	
G-8.5	No. of Cells per Module	By Supplier	
G-8.6	Electrical Characteristics		
	• Nominal Terminal Voltage (V_{DC})	By Supplier	
	• Minimum Operating Voltage (V_{DC})	By Supplier	
	• Maximum Operating Voltage (V_{DC})	By Supplier	
	• Maximum Normal State of Charge (MaxNSoC) ¹ (%)	By Supplier	
	• Minimum Normal State of Charge (MinNSoC) (%)	By Supplier	
	• Nominal C-rate @ 25°C ²	1 or higher	
	• Self-discharge Rate per Month (% of its capacity)	≤ 10%	
	• Cycle Lifetime	At least 5000	
G-8.7	Physical Characteristics		
	• Dimension, Length x Width x Height (m)	By Supplier	
OR	• Maximum Gross Weight (Kg) ³ w/o lifting equipment	60	
	• Maximum Gross Weight (Kg) ³ with lifting equipment	150	
	Gross Weight above 150Kgs	Not Acceptable	
G-8.8	Overcharge Protection	Required	

¹ As defined under Section VI – Technical Specifications Clause EW-2.1

² Refer to EW-2.4.2 Battery Modules/Batteries (b) whenever the Supplier opt to furnish battery modules with less than 1 C-rate.

³ Refer to EW-2.4.2 Battery Modules/Batteries (d) requirement for those exceeds 60kg.

...for San Pacual..

G-19.0 AUTOMATIC CIRCUIT RECLOSER⁴

ITEM	DESCRIPTION	NPC REQUIREMENTS	SUPPLIER'S DATA
G-19.1	Manufacturer	By Supplier	
G-19.2	Place of Manufacture	By Supplier	
G-19.3	No. of Units	1	
G-19.4	Brand/Model	By Supplier	
G-19.5	Type	Solid Dielectric Vacuum Interrupter	
G-19.6	Phase	Three	
G-19.7	Rated Frequency	60 Hz	
G-19.8	Nominal Rated Voltage	13.8 kV	
G-19.9	Maximum Rated Voltage	By Supplier	
G-19.10	Rated Normal Current (Min.)	800 A	
G-19.11	Rated Symmetrical Interrupting Current at rated Voltage	≥ 12 kA	
G-19.12	Rated Short Time Current for 3 secs.	≥ 12 kA	
G-19.13	Rated Making Current (RMS)	> 12 kA	
G-19.14	Rated 1 min. power frequency withstand between phase and earth (min.)	50 kV	
G-19.15	Interrupting Medium	Vacuum	

⁴ Refer to EW-6.0 specifications