



NATIONAL POWER CORPORATION

SUPPLEMENTAL / BID BULLETIN NO. 2

PR NO. S4-PIC25-017 / REF. NO. PB250415-AM00100
DESIGN, SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING
OF SIBUTU 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) | |
| <u>Certificate of Site Inspection</u> duly signed by NPC Official Representative stated herein: ENGR. FILDIZIA A. ADJAP Plant Head, Sibutu DPP Contact Number: 0995-4745894 | |
| <u>Contact Person</u> to facilitate the Site Inspection: ENGR. EFREN PAUL B. CAYON Senior Engineer -Project Implementation Cluster C, PMD-PES Contact Number: 0966 260 2597 | |

| SECTION VI – TECHNICAL SPECIFICATIONS | | | |
|---|-------------------------|---|-------------------------|
| TDS – Annex B-1.2 | | | |
| FROM | | TO | |
| Total Number of Inverters connected in parallel | At least Five (5) 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 Five (5) Units | Number of String Inverters | At least Four (4) Units |



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SECTION VI – TECHNICAL SPECIFICATIONS

PART II – TECHNICAL DATA SHEETS

EW-ELECTRICAL WORKS

G-8.0 BATTERY MODULES

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 (comprising of one (1) page only)

CLARIFICATIONS: For the redundant cooling system please refer to EW-2.4.6 ESS Enclosure/Cabinet,

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.