



INFORMATION SHEET FOR PROCUREMENT OF ACB PANEL AND MV SWITCHGEAR

Reference No.: FNK-I/IUL/2021/470

Issued on: 20th October 2021

Issued by:

Fenaka Corporation Limited

Male', Republic of Maldives

Section I: Instruction to Bidders

| A. General | |
|---------------------------------|---|
| 1. Scope of Bid | 1.1 Fenaka Corporation Limited requests quotations for ACB panels and MV Switchgear in accordance with <i>Section III, Technical Specifications</i> |
| 2. Eligible Participants | 2.1 Local companies registered in Maldives are eligible to participate in the tender 2.2 Foreign companies are eligible to participate in the tender only if the total bid value is above 2,500,000 Maldivian Rufiyaa. |
| B. Preparation of the Bid | |
| 3. Bid Prices | 3.1 The unit price of each item and the total price shall be clearly indicated in the quotation 3.2 All items shall be quoted in the bid (please refer to <i>Section III, Technical Specifications</i> for the details of required items) 3.3 Quotation shall separately indicate the additional charges such as freight charges, insurance, etc. 3.4 The bidder shall submit quotation on CIF basis to Male' port |
| 4. Currency | 4.1 The bidder shall quote entirely in Maldivian Rufiyaa |
| 5. Alternative Bids | 5.1 Bidders can submit a maximum of two (2) options |
| 6. Validity of Bids | 6.1 Quotation shall remain valid for minimum sixty (60) days from the date of bid opening |
| 7. Bid Security | 7.1 All bids should be accompanied with a bid security of USD 3,000 (Three Thousand US Dollars) or its equivalent in Maldivian Rufiyaa 7.2 The bid security should be: - Original bank guarantee letter (or) - Bank guaranteed and stamped check (or) - An insurance policy from Maldives Monetary Authority (MMA) registered insurance company 7.3 Any bid not accompanied by a Bid Security shall be rejected during bid opening |

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| | 7.4 The bid security must be valid for a minimum of twenty (20) additional days beyond the validity of quotation |
| 8. Technical Compliance | <p>8.1 All relevant information including the brand shall be given to enable technical evaluation of quoted items</p> <p>8.2 If the manufacturer or assembler is not the same as the bidder, a document indicating that manufacturer or assembler is willing to sell the item to the bidder is required</p> <p>8.3 Manufacturer's Authorization letter will be required to enable technical evaluation</p> <p>8.4 If the goods do not comply with the requirements mentioned in <i>Section III, Technical Specifications</i>, the bid will be rejected during evaluation.</p> |
| 9. Documents Comprising the Bid | <p>9.1 Quotation (inclusive of the delivery period and payment terms)</p> <p>9.2 Specifications of the offered product</p> <p>9.3 Single-line diagram</p> <p>9.4 Details of the company</p> <ul style="list-style-type: none"> - Company profile/background - Company registration certificate - GST registration certificate (for local bidders only) - TAX clearance report (6 months validity) - Contact details (name, designation, mobile number and e-mail address) <p>9.5 Experience letters, if available</p> <ul style="list-style-type: none"> - Letters within past five (5) years - Relevant experience letters - Letters with project name and value <p>9.6 One (1) compact disc with original bid document scanned and written</p> <p>9.7 Bids lacking the documents above are subjected to be rejected during the bid opening</p> |
| 10. Format of Bid | 10.1 The Bidder shall submit two (2) sets of the bid document (1 original and 1 copy), enclosed separately in two envelopes and sealed with company stamp |

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| | 10.2 All pages of the bid document shall be stamped and bound properly (excluding the bid security) |
| C. Bid Submission | |
| 11. Sealing and Marking Bid Document | 11.1 The bid document shall be sealed properly in an envelope clearly marked 'ORIGINAL' or 'COPY', with the name of the company and the tender reference number (FNK-I/IUL/2021/470) |
| 12. Bid Opening | 12.1 The bids will be opened on 04 th November 2021, 10:00am in the presence of bidders 12.2 Bids will be opened at: Fenaka Corporation Limited Hilaalee Magu, K. Male', Republic of Maldives 12.3 Bids received electronically will not be accepted |
| 13. Bid Rejection | 13.1 Bidders that arrive after bid submission deadline shall not be able to participate in the bid 13.2 Bidders that do not register for the tender are unable to participate in the bid opening 13.3 Bids lacking the documents mentioned in 9. <i>Documents Comprising the Bid</i> (except 9.5 <i>Experience letters</i>) and that do not comply with 10. <i>Format of Bid</i> are subjected to be rejected |
| D. Awarding of Contract | |
| 14. Payment Terms | 14.1 An advance payment will not be released for this project |
| 15. Factory Acceptance Testing | 15.1 The panel(s) shall be fully tested at the manufacturer workshop in the presence of Client's appointees via video conferencing 15.2 The testing shall be conducted at internationally accepted testing standards 15.3 The panel(s) shall undergo protection testing and operation testing 15.4 The panel(s) shall be checked for dimension and the supplier shall provide the dimensions of the panel(s) during the virtual factory acceptance testing. 15.5 Video recorded while operating the units will not be accepted as virtual factory acceptance testing. |

Section II: Evaluation Criteria

Proposal Cost: 70 points for the lowest price

- $(\text{Lowest price} / \text{proposed price}) \times 70$

Delivery: 20 points for the lowest delivery period

- $(\text{Lowest delivery period} / \text{proposed delivery period}) \times 20$
- If the delivery period indicates 'ex-stock', it shall be taken same as the party offering the longest delivery period.

Credit Period: 10 points for the maximum credit period

- $(\text{Proposed credit period} / \text{longest credit period}) \times 10$

Note: Any discrepancy in technical details specified in quotation with technical specification document, the specification shall prevail.

Section III: Technical Specifications

(Specification provided is for one unit)

| Description | Quantity |
|---------------------------|----------|
| Air Circuit Breaker Panel | 02 |

- 2Nos x Free standing **Air Circuit Breaker Panel** consisting of
 - 1Nos x 3000A TPN motorized Air Circuit Breaker (brand: Schneider, ABB or equivalent), rated at 600/1000V complete with 240 Volt under Voltage Trip Coil and auxiliary switches.
 - 4000A TPN Tin/Copper coated copper busbar suitably braced for 30-80kA one second fault ratings.
 - Indicating Lights
 - 1 set x indicating lights for incoming (R,Y,B)
 - 1 set x indicating lights for outgoing (R,Y,B)
 - ACB ON/OFF LED Indicators (Red/Green)
 - Measuring and Protection Devices
 - 1 nos x Overcurrent Relay, brand : Delab or equivalent
 - 1 nos x Earth Leakage Relay, brand : Delab or equivalent
 - 3 nos x Analogue Ampere Meters 0-3000A (one for each phase –R,Y,B)
 - Multifunctional Digital meter capable of measuring
 - Voltage (0-500V) – shall display Line-to-Line and Line-to-neutral voltages
 - Phase Ampere (0-3000A) – shall measure the phase currents.
 - Frequency (40- 65Hz) – generator frequency measurement
 - Power, kW– shall display power of L1, L2, L3 and total power
 - Power factor, shall display p.f of L1, L2, L3 and average
 - 2Nos x 4 Way Terminal blocks for 630sqmm Cable (incoming and outgoing)
 - Enclosure: Free standing manufactured using high quality galvanised MS Plates powder coated with epoxy resin to withstand high saline and high temperature weather conditions. Enclosure shall be of Bottom cable entry type.
- The panel dimensions shall meet or be similar to the given minimum dimensions (2055 X 660 X 880 mm)
- Busbar shall be arranged at the back of the cubicles and must be made of hard drain high conductivity copper which meets with relevant BS and IEC Standard
- The panel shall be manufactured using high quality electro galvanized MS plates of atleast 1.6mm thickness, treated and powder coated upto 80 micron or higher.
- The panel internal wiring shall be wired using 2.5sqmm thick flexible copper cables. All the wires shall be properly labelled and terminated with suitable terminal.
- Components such as relays, isolators, switches ,meters and instruments shall be from reputable brands and shall fully comply with relevant international standards.

| Description | Quantity |
|---------------|----------|
| MV Switchgear | 01 |

(Specification provided is for one unit)

General information

Climatic Conditions

Materials supplied shall be suitable for operating under the following climatic conditions

Climate : Typical tropical coast line.
 Atmosphere : Saliferous, corrosive and dusty.
 Altitude : 2 meter above mean sea water level.
 Temperature : 32 °C (mean maximum) 25 °C (mean minimum).
 Barometric air pressure: 1010 millibars.
 Relative humidity : 90%.
 Average rainfall : 145 days/year.
 Average sunshine : 24 days/month.
 Mean wind speed : 10.8 knots.
 Maximum wind speed : 15.1 knots.

Equipment must withstand worst tropical conditions, including lightning, cyclonic rains, and high humidity.

C) 1Nos x 4 Way Non Extensible Unit with 4 Nos. Circuit Breaker feeders and bus sectionalizer with circuit breaker as per SLD (Schneider RM6 NE-IDBcDI or equivalent)

4 Way, 11kV, indoor non-extensible free standing metal clad SF6 insulated ring main unit comprising of two numbers 200A fault making/ load breaking switches and two number 200A circuit breaker feeders complete with all necessary measurement and protection devices and remote terminal unit for automation.

Short time power frequency withstand voltage: 28 kA
 Rated Lightning impulse withstand voltage: 75 kV
 Rated peak withstand current: 63 kA
 Rated short circuit making current: 63 kA
 Rated short circuit withstand current: 25 kA, 3 s
 Rated busbar current: 200 A
 Rated current of feeders: 200 A
 Rated Frequency: 50 Hz