



INFORMATION SHEET FOR PROCUREMENT OF TRANSFORMER

Reference No.: FNK-I/IUL/2019/279

Issued on: 17th December 2019

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 a transformer in accordance to <i>Section III, Technical Specifications</i>
B. Preparation of the Bid	
2. Bid Prices	<p>2.1 The unit price of each item and the total price shall be clearly indicated in the quotation</p> <p>2.2 All items shall be quoted in the bid (please refer to <i>Section III, Technical Specifications</i> for the details of required items)</p> <p>2.3 Quotation shall separately indicate the additional charges such as freight charges, insurance, etc.</p> <p>2.4 The bidder shall submit quotation on CIF basis to Male' port</p>
3. Currency	3.1 The bidder shall quote entirely in Maldivian Rufiyaa or US Dollars
4. Alternative Bids	4.1 Bidders can submit a maximum of two (2) options
5. Validity of Bids	5.1 Quotation shall remain valid for minimum sixty (60) days from the date of bid opening
6. Bid Security	<p>6.1 All bids should be accompanied with a bid security of USD 3,000 (Three Thousand US Dollars) or its equivalent in Maldivian Rufiyaa</p> <p>6.2 The bid security should be:</p> <ul style="list-style-type: none"> - Original bank guarantee letter (or) - Bank guaranteed and stamped check (or) - An insurance policy from Maldives Monetary Authority (MMA) registered insurance company <p>6.3 Any bid not accompanied by a Bid Security shall be rejected during bid opening</p>

	6.4 The bid security must be valid for a minimum of twenty (20) additional days beyond the validity of quotation
7. Technical Compliance	<p>7.1 All relevant information including the brand shall be stated in the bid document</p> <p>7.2 Technical compliance letter will be required to enable technical evaluation</p> <p>7.3 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>
8. Documents Comprising the Bid	<p>8.1 Quotation (inclusive of the delivery period and payment terms)</p> <p>8.2 Specifications of the offered product</p> <p>8.3 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>8.4 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>8.5 One (1) compact disc with original bid document scanned and written</p> <p>8.6 Single-line diagram</p>
9. Format of Bid	<p>9.1 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</p> <p>9.2 All pages of the bid document shall be stamped and bound properly (excluding the bid security)</p>

C. Bid Submission	
10. Sealing and Marking Bid Document	10.1 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/2019/279)
11. Bid Opening	<p>11.1 The bids will be opened on 26th December 2019, 1130hrs in the presence of bidders</p> <p>11.2 Bids will be opened at: Fenaka Corporation Limited Hilaalee Magu, K. Male', Republic of Maldives</p> <p>11.3 Bids received electronically will not be accepted</p>
12. Bid Rejection	<p>12.1 Fenaka Corporation Limited shall not consider any bidders that arrive after the deadline for submission</p> <p>12.2 Bidders that do not register for the tender are unable to participate in the bid opening</p> <p>12.3 Bids lacking the documents mentioned in 8. <i>Documents Comprising the Bid</i> (except 8.4 <i>Experience letters</i>) and that do not comply with 9. <i>Format of Bid</i> are subjected to be rejected</p>
D. Awarding of Contract	
13. Payment Terms	13.1 An advance payment will not be released for this project
14. Factory Acceptance Testing	<p>14.1 The transformer shall be fully tested at the manufacturer workshop in the presence of Client's appointees to check the load, protection, routine and functional tests. The transformer shall be checked for paint quality and shall undergo a physical inspection</p> <p>14.2 The supplier shall provide the bill of materials of the transformers</p> <p>14.3 The testing shall be conducted at internationally accepted testing standards</p>

	<p>14.4 Two (2) engineers from Fenaka Corporation Limited shall carry out necessary inspection and testing of equipment prior to shipment in supplier's warehouse in order to validate the items</p> <p>14.5 The bidder shall arrange airfare, transportation, accommodation and lodging for two of Client's engineers for the testing (minimum two days for testing)</p>
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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

- $(\text{Proposed credit period} / \text{longest credit period}) \times 10$
- No points will be given for payment terms if the supplier requests for Letter of Credit (LC)

Section III: Technical Specifications

DISTRIBUTION SUBSTATION

Packaged type substation : 500kVA (as per below specification)

500 kVA, Outdoor Packaged Type Transformer Substation (Quantity : 01 Nos)

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.

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

Packaged Substation Details :

Outdoor Pad Mounted package substation with facility for earthing, padlocks etc. Connection between RMU & transformer and connections from transformer to LV panel shall be on either side of transformer. Designed for extreme weather condition, salty, hot and humid environment. All electrical conductors, terminals, lugs, bus plates, etc. shall be made of copper. Maintenance access and operational safety shall be considered.

Package substation shall have the following equipment:

a) 1Nos x 4 Way Non Extensible Unit with 3 Nos. Isolators as Incomers and 1 No. Circuit Breaker as Outgoing to 500kVA Transformer (TYPE Ringmaster : Merlin Gerin RM6 NE-IIDI or equivalent)

4 Way, 11kV, indoor extensible free standing metal clad SF6 insulated ring main unit comprising of three numbers 630A fault making/ load breaking switches and one number 200A tee-off circuit breakers complete with all accessories as listed below:

- ⇒ IDMT RELAY for Circuit Breakers – Self Powered, Merlin Gerin type VIP35 OR Equivalent
- ⇒ The Ring Switches and Tee-Off Circuit Breaker are provided with Integrated Earthing Switches with Making Capacity
- ⇒ Directional Earth Fault protection
- ⇒ Neon cable indicator for ring switches
- ⇒ Integral earthing facility for ring switches
- ⇒ Shunt trip coil rated for 230V AC
- ⇒ Trip push button for T-off circuit breaker
- ⇒ SF6 Gas pressure indicator

- ⇒ Padlocking facility
- ⇒ With remote control mechanism

b) 1 No x Transformer 11kV/415V, 500kVA

3 phase 50Hz 500kVA Dyn11, core type double wound with copper conductor, mineral oil immersed ONAN cooled distribution transformer with corrugated tank & conservator arrangement having a no load voltage ratio of 11/0.433 KV. Tappings +5% to -5% in steps of 2.5% shall be provided at line end f HV winding. Changing of taps shall be carried out by means of OFF Load Tap Changer.

Temperature rise shall be 50/60 °C in oil/winding respectively over a maximum ambient of 40°C. The transformer shall be manufactured as per latest IEC.

- HV Insulation Level 12kV
- Power frequency 28kV. r.m.s.
- Basic Impulse Level 75kV. Peak.
- HV/LV Connection Delta/ Star N. pt
- Dial type thermometer with contacts and control box for relays.
- level indicator and pressure relief valve and oil drain valve.
- Hermetically sealed without gas cushion.
- Relevant testing standards, IEC / BS standards.

c) LV Panel, 1 set of 433V, 800A LV devices with 1200A, PVC sleeved Cu busbars.

With measuring, indication and protection.

Incoming

1 Nos x 800A ACB motorized - main circuit breaker

Outgoing

2 Nos x Outgoing feeder with 200A MCCB

6 Nos x Outgoing feeder with 160A MCCB

Bottom entry Cable Termination arrangement.