



# **INFORMATION SHEET FOR PROCUREMENT OF TRANSFORMERS**

**Reference No.: FNK-I/IUL/2020/074**

Issued on: 10<sup>th</sup> March 2020

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 transformers in accordance to <i>Section III, Technical Specifications</i>
	1.2 It is in Fenaka Corporation Limited’s discretion to cancel the bid invitation mentioned in 1.1 at any time.
B. Preparation of the Bid	
2. Bid Prices	2.1 The unit price of each item and the total price shall be clearly indicated in the quotation
	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)
	2.3 Quotation shall separately indicate the additional charges such as freight charges, insurance, etc.
	2.4 The bidder shall submit quotation on CIF basis to Male’ port
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	6.1 All bids should be accompanied with a bid security of USD 15,000 (Fifteen Thousand US Dollars) or its equivalent in Maldivian Rufiyaa
	6.2 The bid security should be: <ul style="list-style-type: none"> <li>- Original bank guarantee letter (or)</li> <li>- Bank guaranteed and stamped check (or)</li> </ul>

	<ul style="list-style-type: none"> <li>- An insurance policy from Maldives Monetary Authority (MMA) registered insurance company</li> </ul> <p>6.3 Any bid not accompanied by a Bid Security shall be rejected during bid opening</p> <p>6.4 The bid security must be valid for a minimum of twenty (20) additional days beyond the validity of quotation</p>
<b>7. Technical Compliance</b>	<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>
<b>8. Documents Comprising the Bid</b>	<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"> <li>- Company profile/background</li> <li>- Company registration certificate</li> <li>- GST registration certificate (for local bidders only)</li> <li>- TAX clearance report (6 months validity)</li> <li>- Contact details (name, designation, mobile number and e-mail address)</li> </ul> <p>8.4 Experience letters, if available</p> <ul style="list-style-type: none"> <li>- Letters within past five (5) years</li> <li>- Relevant experience letters</li> <li>- Letters with project name and value</li> </ul> <p>8.5 One (1) compact disc with original bid document scanned and written</p>



	8.6 Single-line diagram
<b>9. Format of Bid</b>	<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>
<b>C. Bid Submission</b>	
<b>10. Sealing and Marking Bid Document</b>	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/2020/074)
<b>11. Bid Opening</b>	<p>11.1 The bids will be opened on 18<sup>th</sup> March 2020, 1000hrs (GMT+5) 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>
<b>12. Bid Rejection</b>	<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. Documents <i>Comprising the Bid</i> (except 8.4 Experience letters) and that do not comply with 9. <i>Format of Bid</i> are subjected to be rejected</p>
<b>D. Awarding of Contract</b>	
<b>13. Payment Terms</b>	13.1 An advance payment will not be released for this project

<p><b>14. Factory Acceptance Testing</b></p>	<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 bidder 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

Description	Quantity
2000 kVA step-up transformers with switch gear	02
500 kVA step-down transformer with RMU and LV panel	03

#### 1. Step-Up 2000 kVA Power Transformer

3 Phase 50 Hz 2000 kVA Ynd1, core type double wound with copper conductor oil immersed ONAN cooled power transformer with the corrugated tank and conservator arrangement having a no load voltage ratio of 0.415/11 KV. Tapings +5% to -5% in steps of 2.5% shall be provided at line end of 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.

Transformer shall have metal cover for termination area with lifting eye.

The transformer shall be manufactured as per latest IEC, conforming to following parameters:

- HV Insulation level 12 KV
- Power Frequency 28 Kv r.m.s
- Basic impulse level 75 Kv – Peak.
- Hermetically sealed, without gas cushion.
- Insulating Liquid Type Oil to B.S. 148: 1998. Hermetically sealed

Dial Type thermometer with contacts and control box for relays. Oil level indicator and pressure relief valve and oil drain valve.

Paint class: for extreme weather conditions, salty, hot and humid environment.

Relevant testing standards: IEC / BS Standards.

Terminal Box cover LV n HV connection

All the terminal should be mark in color code.



**2. A) Step-Down 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 or 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 of 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.

**B) Separate LV Panel for Transformer**

Free standing LV Panel with 1200A, PVC sleeved Cu busbar, complete with measuring, indication and protection (ELR)

**Incoming**

- 1 Nos x 800A ACB motorized - main circuit breaker (Mechanical drawer type)

**Outgoing**

- 1 Nos x Outgoing feeder with 630A MCCB
- 2 Nos x Outgoing feeder with 400A MCCB
- 5 Nos x Outgoing feeder with 200A MCCB
- Bottom entry Cable Termination arrangement.

**C) 1 Nos x 3 Way Non Extensible Unit with 2 Nos. Isolators as Incomers and 1 No. Circuit Breaker as Outgoing to 500kVA Transformer (TYPE Ringmaster: Merlin Gerin RM6 NE-IIDI or equivalent)**

3 Way, 11kV, indoor extensible free standing metal clad SF6 insulated ring main unit compromising of three numbers 630A fault making/ load breaking switches and one number 200A tee-off circuit breakers complete with all necessary measurement and protection devices.

