

## **Information Sheet for supply of transformers and transformer Accessories**

### **Section A**

#### **a) Bid Information**

#	Description	Quantity
1	TRANSFORMER 200KVA (SET UP)	2 Nos
2	TRANSFORMER 500KVA (STEP DOWN)	2 Nos
	<b>Total</b>	<b>04 Nos</b>

Quotation shall indicate the following;

#### **a) Price**

- The bidder shall submit quotation on CIF basis to Male' port
- All items shall be quoted in the bid, please refer section (b) specifications
- Price shall include travel/ accommodation charges for factory testing
- Quotation shall indicate the unit price, total price for each item and total price of the quotation and the quoted currency shall be clearly specified. The quotation shall separately indicate additional charges such as freight charges, insurance, taxes, etc.
- The unit rates and prices shall be quoted.

#### **b) Delivery Period**

- The delivery period shall be stated in 'calendar days'.
- If the delivery period indicates 'ex-stock', or if the duration is not specified, it shall be taken same as the party offering the longest delivery period.

#### **c) Payment Terms**

- The payment terms shall be stated in 'days or months', and the payments will be released in equal monthly instalments.
- No points will be given for payment terms if the bidder requests for Letter of Credit (LC).



- 5% of the bid value will be hold as retention payment till the due of warranty period.
- A maximum of 15% of the project value can be provided as an advance payment if requested in the bid, however, this cannot be tied to the project starting date.(Agreement sign date)
- For 15% advance bid awarded party shall submit a bank guarantee letter or an insurance policy from Maldives Monetary Authority registered insurance company along with a pro-forma invoice.

**d) Technical Specifications**

- All the relevant information including the brand shall be given to enable technical evaluation of the quoted items.
- Technical compliance letter will be required to enable technical evaluation
- Transformers and Transformer accessories should comply with the attached requirements, otherwise the bid shall be rejected

**e) Factory Testing:**

- The Transformer and accessories should be fully tested at the manufacturer workshop in the presence of client's appointees to check the ratings, overload, functional tests on a dummy load prior to dispatch. The testing shall be conducted to internationally accept testing standards.

The bidder shall arrange airfare, transportation, accommodation and lodging for two of client's technicians for the testing (minimum of two day for testing)

- 02 engineers from Fenaka Corporation shall carry out necessary inspection and testing of equipment prior to shipment in supplier's warehouse in order to validate the items.

**f) Quotation validity** should be a minimum of 60 days from the date of quotation opening.

**g) Bid Security validity** is valid for Twenty (20) days beyond the validity of the bid

**Note:** It is in FENAKA Corporation Limited's discretion to reject/cancel any quotation which does not fulfil or comply the above terms.

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**Section B**

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# Specifications

a) Specification of 500KVA Transformers

<b>500kVA Transformers (Quantity: 02)</b>
<b>General information</b>
<p><b><u>Climatic Conditions</u></b> Materials supplied shall be suitable for operating under the following climatic conditions</p> <p>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.</p> <p>Equipment must withstand worst tropical conditions, including lightning, cyclonic rains, and high humidity.</p>
<b>A) Step-Down Transformer 11kV/415V, 500kVA</b>
<p>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 f HV winding. Changing of taps shall be carried out by means of OFF Load Tap Changer.</p>
<p>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.</p>
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>B) Separate LV Panel for Transformer</b>
Free standing LV Panel with 1200A, PVC sleeved Cu busbar, complete With measuring, indication and protection(ELR).
<b>Incoming</b>
1 Nos x 800A ACB motorized - main circuit breaker
<b>Outgoing</b>
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.
<b>C) 1Nos 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 )</b>
3 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 necessary measurement and protection devices.

b) Specification of 2000KVA Transformer

<b><u>Specification for Step-Up Transformer</u></b>
<b>2000 kVA Power Transformer (Quantity: 02 Nos)</b>
3 Phase 50 Hz 2000 kVA Ynd1, core type double wound with copper conductor mineral oil immersed ONAN cooled power transformer with the corrugated tank and conservator arrangement having a no load voltage ratio of 0.415/11 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.
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.
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.

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**Section C**

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## **Required Document and Evaluation criteria**



### Required Documents

- Quotation (inclusive of the delivery period and the payment terms)
- 1 compact disc (CD), along with 2 sets of the bid documents (One Original and 1 copy set) separately packed and sealed with company stamp. All the pages in bid documents should be stamped and Bind properly
- Specification of the offered product
- Bid Security (As per Announcement), Original
- Experience Letter (Expired letter / irrelevant experience letter / letters without mentioning project and value will not be accepted)
- Details of the company
  - Company profile (This should include the background of the company with the products they supply)
  - Company registration certificate
  - GST registration certificate (For local suppliers only)
  - Tax clearance report (6months validity )
  - Contact details (Name, Designation, Mobile number, Email)

### **Important Note:**

- Bids lacking the documents above are subjected to be rejected during bid opening. Also it is in FENAKA's discretion to cancel this invitation to bid at any time.
- Bidders can submit maximum of 2 options.

### Evaluation Criteria

- **Proposal Cost:** 40 points
  - (Lowest proposed price / proposed price) x 40 points
- **Delivery:** 30 Point
  - (Shortest Delivery Period) / (Quoted Delivery Period) x 30
- **Payment Terms:** 20 points for the maximum days given for payment
  - (Proposed credit period / longest credit period) x 20
- **Experience** 10 points (Point will be given by analyzing Related Experience letters of past 5 years depending on the value of the project)



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Please submit your bids addressed to;

Tender Ref No: FNK-I/IUL/2019/204

Managing Director

Fenaka Corporation Ltd

Port Complex Building, 7<sup>th</sup> Floor

Hilaalee Magu, Maafannu

K. Male'

The proposal and the envelope must bear the reference number of the tender. All envelopes must be duly sealed and stamped. Fenaka Corporation will not be liable for the misplacement or premature opening of unlabelled sealed proposals. The bids will be opened on 13<sup>th</sup> October 2019, Sunday 12:00hrs (Male' time), in the presence of the bidders. The bids received after the stated time, and the bids received via email will not be accepted.

*If you require further information, please contact us at [tender@fenaka.com.mv](mailto:tender@fenaka.com.mv)*

18<sup>th</sup> September 2019