

Information Sheet for Supply of Transformers

Section A

a) Bid Information

#	Description	Quantity
1	TRANSFORMER 500KVA (STEP DOWN)	01 Nos
2	TRANSFORMER 800KVA (STEP DOWN)	03 Nos
	Total	04 Nos

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.

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Section B

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Specifications

DISTRIBUTION TRANSFORMER, RMU AND LV PANEL

~~for Gen Mathira Elibon~~

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.

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 & 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.

B) 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-IIID or equivalent)

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.

DISTRIBUTION TRANSFORMER, RMU AND LV PANEL
for Gan- Mathlmaradhoo

General Information

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- 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.

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 & 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) 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

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.

DISTRIBUTION TRANSFORMER, RMU AND LV PANEL

General information

Climatic Conditions

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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.

A) Step-Down Transformer 11kV/415V, 800kVA

3 phase 50Hz 800kVA 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.

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

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) 1Nos x 3 Way Non Extensible Unit with 2 Nos. Isolators as Incomers and 1 No. Circuit Breaker as
Outgoing to 800kVA Transformer (TYPE Ringmaster : Merlin Gerin RM6 NE-IID1 or equivalent)**

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.



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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 (original bid document scanned and written), along with 2 sets of the bid documents (1 original and 1 copy set) separately packed and sealed with company stamp. All the pages in bid documents should be stamped and bound properly
- Specification of the offered product
- Original bid security (as per announcement)
- Details of the company
 - Company profile (a background of the company)
 - Company registration certificate
 - GST registration certificate (for local suppliers only)
 - Tax clearance report (6 months validity)
 - Contact details (name, designation, mobile number, e-mail address)
- Experience letters (letters beyond 5 years / irrelevant experience letters / letters without project and value will not be accepted)

Evaluation Criteria

- Proposal Cost: 50 points for the lowest price
 - $(\text{Lowest price} / \text{proposed price}) \times 50$
- Delivery: 30 points for the minimum days to deliver the items
 - $(\text{Lowest delivery period} / \text{proposed delivery period}) \times 30$
- Credit Period: 10 points for the maximum credit period
 - $(\text{Proposed credit period} / \text{longest credit period}) \times 10$
- 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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Note:

- Bidders can submit maximum of 2 options.
- Bids lacking the documents above are subjected to be rejected during bid opening. Fenaka Corporation Limited will only accept items that meet OEM standards. In case the items do not meet the required standards, they will be rejected / returned.
- Please make sure the items are properly packaged and labelled separately as specifications given above.
- It is in Fenaka Corporation Limited's discretion to reject/cancel any quotation which does not fulfil or comply the above terms.
- It is in Fenaka's discretion to cancel this invitation to bid at any time.

Please submit your proposals addressed to:

Fenaka Corporation Limited
Port Complex Building, 7th Floor
Hilaalee Magu, Maafannu
K. Male', Republic of Maldives
Reference No: FNK-I/IUL/2019/226

The bids will be opened on 12th November 2019, Tuesday 11:00am (Male' time) at Fenaka Corporation 7th floor meeting room, in the presence of the bidders. The bids received after the stated time will not be accepted.

For further information, please contact us at tender@fenaka.com.mv

21st October 2019