

**Information Sheet for Supply of network upgrading items for
L.Gan Thundi, Mathimaradhoo and Mukurimagu**

Section A

a) Bid Information

#	Description	Quantity
a)	500KVA Transformer C/W Ring main Switch	01 Nos
b)	500KVA Package Transformer C/W 3 way ring main unit	03 Nos
c)	Ring Main Unit 3/2 Way 11KV	03 Nos
	Total	07 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).
- A maximum of 15% of the entire project can be provided as an advance if requested in the bid, however, it cannot be tied to the project starting date.
- For 15% advance bid awarded party shall submit a bank guarantee letter 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 items quoted.
- Technical compliance letter will be required to enable technical evaluation
- Transformers and Transformers 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

h) Clarification Time: Please send your Queries to tender@fenaka.com.my from 11th June 2019 to 16th June 2019.

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) 500KVA Transformer C/W Ring main Switch

DISTRIBUTION TRANSFORMER, RMU AND LV PANEL
General information
<p><u>Climatic Conditions</u> 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>
A) Step-Down Transformer 11kV/415V, 500kVA
<p>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.</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) Separate LV Panel for Transformer
Free standing LV Panel with 1200A, PVC sleeved Cu busbar, complete With measuring, indication and protection(ELR).
Incoming
I 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 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.

b) 500KVA Package Transformer C/W 3 way ring main unit

DISTRIBUTION TRANSFORMER, RMU AND LV PANEL
General information
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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.
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B) Separate LV Panel for Transformer
Free standing LV Panel with 1200A, PVC sleeved Cu busbar, complete With measuring, indication and protection(ELR).
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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-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.

c) **Ring Main Unit 3/2 Way 11KV**

Ring Main Unit (RMU), 11kV, 50Hz, 630A, 21kA for 3 sec.
Non-extensible; (2IS +1DC) 3x3 Poles, 630A Load Breaker Switch.
1 x Motor operated 200A Vacuum Circuit Breaker in SF6 insulated SS Enclosure.
O/C and E/F self-powered Relays with protection CTs.
Motorized spring charged, remote and manual close and open.
Push button with ON/OFF indicator; Passage Fault indicator.
Cable Termination in vertical position. RMU for outdoor application.
Powder Coated paint shade with RAL 7012 or 7035
RMU complies to IEC 62271- 100/200
IEC 60265-1 ; IEC 60044-1; IEC 61243-5
Quality Standard: ISO9001 and 14001
Test Reports and manuals.

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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 Original
 - Please refer announcement
- Related Completion Letter of past 5 years (If available)
- Details of the company
 - Company profile
 - Company registration certificate
 - GST registration certificate (For local suppliers only)
 - Tax Clearance Report (last 6 months)
 - Contact details (Name, Designation, Mobile number and Email)

Important Note:

- Bids lacking the documents above are subjected to be rejected during bid opening, Except “Related Completion Letter of past 5 years”. 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 completion letters of past 5 years depending on the value of the project)

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Please submit your bids by 20th June 2019, Thursday 1130hrs. (Maldivian time), addressed to;

Tender Ref No: FNK-I/IUL/2019/100

Managing Director

Fenaka Corporation Ltd

Port Complex Building, 7th 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 20th June 2019, Thursday 1130hrs. (Maldivian time), in the presence of the bidders. The bids received after the stated time, and the bids received via email will not be accepted.

For more information and clarifications, please email us at tender@fenaka.com.my

09 June 2019