

INFORMATION SHEET FOR PROCUREMENT OF TRANSFORMERS

Reference No: FNK-I/IUL/2020/268

Issued on 30th November 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 with Section III, Technical Specifications | | |
| | 1.2 | It is in Fenaka Corporation Limited's discretion to cancel this bid invitation at any time. | | |
| 2. Eligible Participants | 2.1 | Local companies registered in Maldives are eligible to | | |
| | | participate in the tender | | |
| | 2.2 | Foreign companies are eligible to participate in the | | |
| | | tender only if the total bid value is above 2,500,000 | | |
| | | Maldivian Rufiyaa. | | |
| B. Preparation of the Bid | | | | |
| 3. Bid Prices | 3.1 | The unit price of each item and the total price shall be | | |
| | | clearly indicated in the quotation | | |
| | 3.2 | All items shall be quoted in the bid (please refer to | | |
| | | Section III, Technical Specifications for the details of | | |
| | | required items) | | |
| | 3.3 | Quotation shall separately indicate the additional | | |
| | | charges such as freight charges, insurance, etc. | | |
| | 3.4 | The bidder shall submit quotation on CIF basis to Male' | | |
| | | port | | |
| 4. Currency | 4.1 | The bidder shall quote entirely in Maldivian Rufiyaa | | |
| 5. Alternative Bids | 5.1 | Bidders can submit a maximum of two (2) options | | |
| 6. Validity of Bids | 6.1 | Quotation shall remain valid for minimum sixty (60) | | |
| | | days from the date of bid opening | | |
| 7. Bid Security | 7.1 | All bids should be accompanied with a bid security of | | |
| | | USD 15,000 (Fifteen Thousand US Dollars) or its | | |
| | | equivalent in Maldivian Rufiyaa | | |
| | I | | | |

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| | 7.2 | The bid security should be: |
|-------------------------|-----|---|
| | | - Original bank guarantee letter (or) |
| | | - Bank guaranteed and stamped check (or) |
| | | - An insurance policy from Maldives Monetary |
| | | Authority (MMA) registered insurance company |
| | 7.3 | Any bid not accompanied by a Bid Security shall be |
| | | rejected during bid opening |
| | 7.4 | The bid security must be valid for a minimum of twenty |
| | | (20) additional days beyond the validity of quotation |
| 8. Technical Compliance | 8.1 | All relevant information including the brand shall be |
| | | given to enable technical evaluation of quoted items |
| | 8.2 | If the manufacturer or assembler is not the same as the |
| | | bidder, a document indicating that manufacturer or |
| | | assembler is willing to sell the generator set to the |
| | | bidder is required |
| | 8.3 | Technical compliance letter will be required to enable |
| | | technical evaluation |
| | 8.4 | If the goods do not comply with the requirements |
| | | mentioned in Section III, Technical Specifications, the |
| | | bid will be rejected during evaluation. |
| 9. Documents | 9.1 | Quotation (inclusive of the delivery period and |
| Comprising the Bid | | payment terms) |
| | 9.2 | Specifications of the offered product |
| | 9.3 | Single-line diagram of engine panel system |
| | 9.4 | Details of the company |
| | | - Company profile/background |
| | | - Company registration certificate |
| | | - GST registration certificate (for local bidders only) |
| | | - TAX clearance report (6 months validity) |

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| | | - Contact details (name, designation, mobile number |
|--------------------------------------|------------------------------|---|
| | | and e-mail address) |
| | 9.5 | Experience letters, if available |
| | | - Letters within past five (5) years |
| | | - Relevant experience letters |
| | | - Letters with project name and value |
| | 9.6 | One (1) compact disc with original bid document |
| | | scanned and written |
| | 9.7 | Bids lacking the documents above are subjected to be |
| | | rejected during the bid opening |
| 10. Format of Bid | 10.1 | 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 |
| | 10.2 | All pages of the bid document shall be stamped and |
| | | bound properly (excluding the bid security) |
| C. Bid Submission | | |
| | 1 | |
| 11. Sealing and Marking | 11.1 | The bid document shall be sealed properly in an |
| 11. Sealing and Marking Bid Document | 11.1 | The bid document shall be sealed properly in an envelope clearly marked 'ORIGINAL' or 'COPY', |
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| | 11.1 | envelope clearly marked 'ORIGINAL' or 'COPY', |
| | 11.1 | envelope clearly marked 'ORIGINAL' or 'COPY', with the name of the company and the tender reference |
| Bid Document | | envelope clearly marked 'ORIGINAL' or 'COPY', with the name of the company and the tender reference number (FNK-I/IUL/2020/268) |
| Bid Document | | envelope clearly marked 'ORIGINAL' or 'COPY', with the name of the company and the tender reference number (FNK-I/IUL/2020/268) The bids will be opened on 08 th December 2020, |
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Port Complex Building, 7th Floor, Hilaalee Magu, Male, 20207, Maldives







| | 13.3 | Bids lacking the documents mentioned in 9. <i>Documents</i> Comprising the Bid (except 9.5 Experience letters) and that do not comply with 10. Format of Bid are subjected | | |
|-------------------------|------|--|--|--|
| | | to be rejected | | |
| D. Awarding of Contract | | | | |
| 14. Payment Terms | 14.1 | An advance payment will not be released for this | | |
| | | project | | |
| 15. Factory Acceptance | 15.1 | The panel shall be fully tested at the manufacturer | | |
| Testing | | workshop in the presence of Client's appointees via | | |
| | | video conferencing | | |
| | 15.2 | The testing shall be conducted at internationally | | |
| | | accepted testing standards | | |
| | 15.3 | The panel shall undergo protection testing and | | |
| | | operation testing | | |
| | 15.4 | The panel shall be checked for dimension and the | | |
| | | supplier shall provide the dimensions of the panel | | |
| | | during the virtual factory acceptance testing. | | |

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Section II: Evaluation Criteria

Proposal Cost: 70 points for the lowest price

(Lowest price / proposed price) x 70

Delivery: 20 points for the lowest delivery period

- (Lowest delivery period / proposed delivery period) x 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

- (Proposed credit period / longest credit period) x 10
- No points will be given for payment terms if the supplier requests for Letter of Credit (LC)











Section III: Technical Specifications

| Description | Quantity |
|----------------------|----------|
| 2000kVA (STEP-UP) | 2 |
| 500kVA (STEP – DOWN) | 2 |
| 800kVA (STEP – DOWN) | 2 |

500 kVA, STEP DOWN TRANSFORMER, WITH RMU AND LV PENAL INFORMATION

RMU, Transformer and LV Panel. Designed for extreme weather condition, salty, hot and humid environment.

- a) 1Nos x 3 Way Non Extensible Unit with 2 Nos. Isolators as Incomers and 1 No. Circuit Breaker as Outgoing to 500kVA Transformer (equivalent to TYPE Ringmaster: MerlinGerin RIM6 NE-IIDI) motorized with UVT.
 - 3 Way, 11kV, indoor non extensible free standing metal clad SF6 insulated ring main unit compromising of two 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
 - · 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

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

- 3 phase 50Hz 500 kVA Dyn11, core type double wound with copper conductor oil
 immersed ONAN cooled, hermetically sealed 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 45/50 °C in oil/winding respectively over a maximum ambient of 50°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.
- Impedance % at 75°C 4.75%
- HV/LV Connection Delta/ Star N. pt
- With level indicator and pressure relief valve
- Insulating Liquid Type Oil to B.S. 148: 1998. Hermetically sealed.

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800 kVA, STEP DOWN TRANSFORMER, WITH RMU AND LV PENAL INFORMATION

RMU, Transformer and LV Panel. Designed for extreme weather condition, salty, hot and humid environment.

- a) 1Nos x 3 Way Non Extensible Unit with 2 Nos. Isolators as Incomers and 1 No. Circuit Breaker as Outgoing to 800kVA Transformer (equivalent to TYPE Ringmaster: MerlinGerin RM6 NE-IIDI) motorized with UVT.
 - 3 Way, 11kV, indoor non extensible free standing metal clad SF6 insulated ring main unit compromising of two 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
 - 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

b) 1 No x Transformer 11kV/415V, 800kVA

- 3 phase 50Hz 800 kVA Dyn11, core type double wound with copper conductor oil immersed ONAN cooled, hermetically sealed 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 45/50 °C in oil/winding respectively over a maximum ambient of 50°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.
- Impedance % at 75°C 4.75%
- HV/LV Connection Delta/ Star N. pt
- With level indicator and pressure relief valve
- Insulating Liquid Type Oil to B.S. 148: 1998. Hermetically sealed.

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c) LV Panel, 1 set of 415V, 1200A PVC sleeved Cu bus bars.

With measuring, indication and protection.

Incoming

1000A ACB main circuit breaker

Outgoing

- 2Nos x Outgoing feeder with 250A MCCB
- 2Nos x Outgoing feeder with 400A MCCB
- 2Nos x Outgoing feeder with 600A MCCB

(Rated current shall be adjustable from 50 to 100%); with ELR, Amp meter & selector switch.

- Bottom entry Cable Termination arrangement.
- Complete with nuts and bolts to connect LV cables.



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2000 kVA Power Transformer (Step-up)

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







