

# INFORMATION SHEET for PROCUREMENT of 500KVA TRANSFORMERS with RING MAIN UNIT AND LV PANEL

Reference No: FNK-I/IUL/2021/342

Issued on: 01st September 2021

Issued by:

Fenaka Corporation Limited

Male', Republic of Maldives

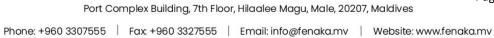




# **Section I: Instruction to Bidders**

A. General			
1. Scope of Bid	1.1	Fenaka Corporation Limited requests quotations for	
		500KVA transformers with RMU and LV panel 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	
		5,000 (Five Thousand US Dollars) or its equivalent in	
		Maldivian Rufiyaa	
	7.2	The bid security should be:	

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		- 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	8.1	All relevant information including the brand shall be given
Compliance		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 item(s) to the bidder is
		required
	8.3	Manufacturer's authorization 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 payment
Comprising the Bid		terms)
	9.2	Specifications of the offered product
	9.3	Single-line diagram of offered product
	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)
		- Contact details (name, designation, mobile number and
		e-mail address)
	9.5	Experience letters, if available

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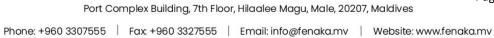






		- Letters within past five (5) years
		- Relevant experience letters
		- Letters with project name and value
	9.6	One (1) compact disc with original bid document scanned
		and written
	9.7	Bids lacking the documents above are subjected to be
		rejected during the bid opening
10. Format of Bid	10.1	The 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		
11. Sealing and	11.1	The bid document shall be sealed properly in an envelope
Marking Bid		clearly marked 'ORIGINAL' or 'COPY', with the name of
Document		the company and the tender reference number
		(FNK-I/IUL/2021/342)
12. Bid Opening	12.1	The bids will be opened on 13 <sup>th</sup> September 2021, 1030hrs
		in the presence of bidders
	12.2	Bids will be opened at:
		Fenaka Corporation Limited
		Hilaalee Magu, K. Male', Republic of Maldives
	12.3	Bids received electronically will not be accepted
13. Bid Rejection	13.1	Fenaka Corporation Limited shall not consider any bidders
		that arrive after the deadline for submission
	13.2	Bidders that do not register for the tender are unable to
		participate in the bid opening
	13.3	Bids lacking the documents mentioned in 9. Documents
		Comprising the Bid (except 9.5 Experience letters) and

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		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	15.1	The transformer(s) shall be fully tested at the manufacturer	
Acceptance 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 transformer(s) shall undergo protection testing and	
		operation testing	
	15.4	The transformer(s) shall be checked for dimension and the	
		supplier shall provide the dimensions of the transformer(s)	
		during the virtual factory acceptance testing.	
	15.5	Video recorded while operating the units will not be	
		accepted as 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

**Note:** Any discrepancy in technical details specified in quotation with technical specification document, the specification shall prevail.













# **Section III: Technical Specifications**

### 500 kVA Step-Down Transfromer with RMU & LV Penal (Quantity: 02 Nos)

### 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: 45 °C (maximum) to 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.

And must withstand worst tropical conditions, including lightning, cyclonic rains, and high humidity.

a) 1Nos x 3 Way Non Extensible Unit with 3 Nos. Isolators as Incomers and 1 No. Circuit Breaker as Outgoing to 500kVA Transformer

3-Way, 11kV 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

Directional Earth Fault protection with CBCT

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

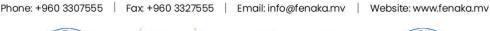
Padlocking facility

With remote monitoring & control mechanism

Bottom cable entry with gland plates for 3c x 120 sqmm cable

Powder coated with paint shade RAL 7012 and thickness greater than 80 micron

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Port Complex Building, 7th Floor, Hilaalee Magu, Male, 20207, Maldives













### b) 1 No x 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 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.

### c) LV Panel, 1 set of 415V, 1500A PVC sleeved Cu busbars with measuring indicators and protection

### Incoming Feeder:

1 Nos x 1000A motorized ACB with O/C, E/F and S/C release

Outgoing feeders

2 Nos x Outgoing feeder with 400A MCCB with ELR, OCR

6 Nos x Outgoing feeder with 250A MCCB with ELR, OCR

Bottom entry cable termination arrangement

Each feeder shall have Digital Power Meter capable of displaying A/V/Hz/kW/kWh/pf

Digital Amp meter, Volt meter for each phase of each feeder

Nuts and bolts to connect LV feeders

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