

INFORMATION SHEET FOR PROCUREMENT OF TRANSFORMER and RING MAIN UNIT

Reference No.: FNK-I/IUL/2019/274

Issued on: 15th December 2019

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 a		
		transformer and a ring main unit in accordance to		
		Section III, Technical Specifications		
B. Preparation of the Bid				
2. Bid Prices	2.1	The unit price of each item and the total price shall be		
		clearly indicated in the quotation		
	2.2	All items shall be quoted in the bid (please refer to		
		Section III, Technical Specifications for the details of		
		required items)		
	2.3	Quotation shall separately indicate the additional		
		charges such as freight charges, insurance, etc.		
	2.4	The bidder shall submit quotation on CIF basis to Male'		
		port		
3. Currency	3.1	The bidder shall quote entirely in Maldivian Rufiyaa or		
		US Dollars		
4. Alternative Bids	4.1	Bidders can submit a maximum of two (2) options		
5. Validity of Bids	5.1	Quotation shall remain valid for minimum sixty (60)		
		days from the date of bid opening		
6. Bid Security	6.1	All bids should be accompanied with a bid security of		
		USD 10,000 (Ten Thousand US Dollars) or its		
		equivalent in Maldivian Rufiyaa		
	6.2	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		
	6.3	Any bid not accompanied by a Bid Security shall be		
		rejected during bid opening		





	6.4	The bid security must be valid for a minimum of twenty
		(20) additional days beyond the validity of quotation
7. Technical Compliance	7.1	All relevant information including the brand shall be
		stated in the bid document
	7.2	Technical compliance letter will be required to enable
		technical evaluation
	7.3	If the goods do not comply with the requirements
		mentioned in Section III, Technical Specifications, the
		bid will be rejected during evaluation
8. Documents	8.1	Quotation (inclusive of the delivery period and
Comprising the Bid		payment terms)
	8.2	Specifications of the offered product
	8.3	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)
	8.4	Experience letters, if available
		- Letters within past five (5) years
		- Relevant experience letters
		- Letters with project name and value
	8.5	One (1) compact disc with original bid document
		scanned and written
	8.6	Single-line diagram
9. Format of Bid	9.1	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
	9.2	All pages of the bid document shall be stamped and
		bound properly (excluding the bid security)





C. Bid Submission				
	10.1	The hid decreased 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
10. Sealing and Marking	10.1	The bid document shall be sealed properly in an		
Bid Document		envelope clearly marked 'ORIGINAL' or 'COPY',		
		with the name of the company and the tender reference		
		number (FNK-I/IUL/2019/274)		
11. Bid Opening	11.1	The bids will be opened on 24 th December 2019,		
		1100hrs in the presence of bidders		
	11.2	Bids will be opened at:		
		Fenaka Corporation Limited		
		Hilaalee Magu, K. Male', Republic of Maldives		
	11.3	Bids received electronically will not be accepted		
12. Bid Rejection	12.1	Fenaka Corporation Limited shall not consider any		
		bidders that arrive after the deadline for submission		
	12.2	Bidders that do not register for the tender are unable to		
		participate in the bid opening		
	12.3	Bids lacking the documents mentioned in 8. Documents		
		Comprising the Bid (except 8.4 Experience letters) and		
		that do not comply with 9. Format of Bid are subjected		
		to be rejected		
D. Awarding of Contract				
13. Payment Terms	13.1	An advance payment will not be released for this		
		project		
14. Factory Acceptance	14.1	The transformer shall be fully tested at the		
Testing		manufacturer workshop in the presence of Client's		
		appointees to check the load, protection, routine and		
		functional tests. The transformer shall be checked for		
		paint quality and shall undergo a physical inspection		
	14.2	The supplier shall provide the bill of materials of the		
	- ·· -	transformers		
	14.3	The testing shall be conducted at internationally		
		accepted testing standards		





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- 14.4 Two (2) engineers from Fenaka Corporation Limited shall carry out necessary inspection and testing of equipment prior to shipment in supplier's warehouse in order to validate the items
- 14.5 The bidder shall arrange airfare, transportation, accommodation and lodging for two of Client's engineers for the testing (minimum two days for testing)





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
Transformer step down 11KV/415 (Vector DYN.11) 500KV	1
Three way ring main unit (11KV/36KV)(BUSBER630)	1

DISTRIBUTION TRANSFORMER, RMU AND LV PANEL

for S. Hulhumeedhoo

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 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

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 250A 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-IIDI or equivalent)

3 Way, 11kV, indoor extensible free standing metal clad SF6 insulated ring main unit compromising 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.

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

- 3 phase 50Hz 630 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.

RMU x 1Nos x 3 Way Non Extensible Unit with 2 Nos. Isolators as Incomers and 1 No. Circuit Breaker as Outgoing to 630kVA 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 /