

INFORMATION SHEET FOR PROCUREMENT OF TRANSFORMERS

Reference No: FNK-I/IUL/2019/032

Issued on: 29th January 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		
		transformers 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.		Quotation shall remain valid for minimum sixty (6		
		days from the date of bid opening		
6. Bid Security	6.1	All bids should be accompanied with a bid security of		
		USD 15,000 (Fifteen 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		

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أَسْرَا الْمَارِيْنَ مِنْ وَفِيْ اللَّهِ وَمِنْ اللَّهِ وَمِنْ اللَّهِ وَفَيْ اللَّهِ وَدَوْ اللَّهِ وَدَوْ ال الْمِرْعُ مِنْ اللَّهِ وَمِنْ اللَّهِ وَمِنْ اللَّهِ وَمِنْ اللَّهِ وَاللَّهِ وَدَوْدًا مِوْرِدٍ وَدُوْ

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	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	
- Company	,	stated in the bid document	
	7.2	Technical compliance letter will be required to enable	
	, .2	technical evaluation	
	7.3	If the goods do not comply with the requirements	
	7.5	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	0.1	payment terms) Specifications of the offered product	
comprising the bid	8.2		
	8.3	Details of the company	
	0.5	• •	
		- Company profile/background Company registration certificate	
		- Company registration certificate CST registration certificate (for least hidders only)	
		- GST registration certificate (for local bidders only) TAY clearance report (6 months validity)	
		 TAX clearance report (6 months validity) Contact details (name, designation, mobile number 	
		and e-mail address)	
	8.4	Experience letters, if available	
	0.4	- 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	
	0.5	scanned and written	
	8.6		
	0.0	Single-line diagram	

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ۇىزىما ئامەرۇشىنىڭ بورۇغ كېرىھە ئاۋاۋۇنىڭ چائوپارد 7 ھىنىز تۇندۇرۇ، رۇمۇ ئاڭ دۇر 20307 ، مۇرىرىگەنى

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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. Sealing and Marking	10.1	The bid document shall be sealed properly in an		
Bid Document	10.1	envelope clearly marked 'ORIGINAL' or 'COPY',		
Dia Document				
		with the name of the company and the tender reference		
44 PULO 1	11.1	number (FNK-I/IUL/2020/032)		
11. Bid Opening	11.1			
		10:00am 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. <i>Documents</i>		
		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 Contra	act			
13. Payment Terms	13.1	An advance payment will not be released for this		
		project vin not be released for this		
14. Factory Acceptance	14.1	The transformer shall be fully tested at the		
Testing	1	manufacturer workshop in the presence of Client's		
resung		appointees to check the load, protection, routine and		
		appointees to effect the load, protection, foutilite and		

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ۇىزىن ئامرۇنىشىنىر بورغۇ: گۇمۇش ئاقۇلۇرىش جائويىدە 7 ۋىن ۋىندۇرۇ، رىگىچ ئاڭ گۇم 20307 ، مۇدرىمىدىغ

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functional tests.	The transformer	shall be checked for
paint quality and	l 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
- 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)

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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)

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ۇىدىن ئامرۇشىنىڭ بورغىڭ كىرىمىڭ ئاقۇرۇپ، ھۇرىلىد 7 ۋىنىز ۋىلىردۇك بىرقىر كەڭ

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Section III: Technical Specifications

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 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, 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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وْسَرَىا

گريخڪ ٽاڏ ڏوڻاڪ ڇٽي بئرد 7 وَسَرَ وَسُرُدِورِوَ، رِوَّدٍ دَدُّ رُخُو 20307 ، رِوْدِبَرِّدُنْغَ





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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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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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ۇىدىما ئامرېم ئىلىنىد بورغاۋ كېرىھە ئادە ئۇۋىسە ھەلمونىدە 7 كۆس كۆسۈرگۈ، بەئرىي داۋ دۇر 20307 ، بورۇبرىمىدىغ

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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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ۇىرىن كىرېرىئىنىش وردىخ؛ كېرىۋىڭ ئاۋېرۇشە چەچەندە 7 دىنى زىشۋۇم، رىۋىو دۇ: دۇغ 20307 ، مردرىرىدىغ

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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

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