

INFORMATION SHEET FOR PROCUREMENT OF 1.2mW GENERATOR SET (QTY: 02)

Reference No.: FNK-I/IUL/2019/253

Issued on: 14th November 2019

Issued by:

Fenaka Corporation Limited

Male', Republic of Maldives





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Section I: Instruction to Bidders

A. General		
1. Scope of Bid	1.1	Fenaka Corporation Limited requests quotations for a 1.2mW
		generator set in accordance to Section III, Technical
		Specifications
B. Preparation of	f the B	id
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
		9,000 (Nine 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





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7. Technical	7.1	All relevant information including the brand shall be given to
Compliance		enable technical evaluation of quoted items
	7.2	The documents required for technical evaluation are:
		- Technical data sheets of engine and the alternator
		- Datasheets specifying cooling system rated at ambient
		temperature 50°C
		- Certificate of Authenticity specifying manufacturer /
		assembler is an OEM or a genuine reputed international engine brand
	7.3	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
	7.4	Technical compliance letter will be required to enable
		technical evaluation
	7.5	If the goods do not comply with the requirements mentioned
		in Section III, Technical Specifications, the bid will be
		rejected during evaluation.
	7.6	Generator set should comply with our requirements, if not the
		bid will be rejected
8. Documents	8.1	Quotation (inclusive of the delivery period and payment
Comprising the		terms)
Bid	8.2	Specifications of the offered product
	8.3	Certificate of Authenticity specifying that manufacturer /
		assembler is an OEM of a genuine reputed international
		engine brand
	8.4	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)
	8.5	Experience letters, if available
		- Letters within past five (5) years
		- Relevant experience letters
		- Letters with project name and value
	8.6	One (1) compact disc with original bid document scanned and
		written
	8.7	Bids lacking the documents above are subjected to be rejected
		during the bid opening
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	n	
10. Sealing and	10.1	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/2019/253)
11. Bid Opening	11.1	The bids will be opened on 26 th November 2019 (Tuesday),
		1300hrs 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. Late Bids	12.1	Fenaka Corporation Limited shall not consider any bidders
		that arrive after the deadline for submission (26 th November
		2019, 1300hrs)
D. Awarding of C	ontra	et
13. Payment Terms	13.1	An advance will not be released for this project





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14. Factory Acceptance Testing

- 14.1 All generators should be tested to run at 25%, 50%, 75%, 100%, and 110% of rated load and power factor until the engine temperature stabilized for 30 minutes, and should check the protections below:
 - Lub oil low level (alarm testing)
 - Lub oil low pressure (alarm testing)
 - Earth fault (alarm testing)
 - Over current (alarm testing)
 - High temperature (alarm testing)
 - Cooling system (alarm testing)
 - High voltage pressure (alarm testing)
 - All the functioning tests and routine tests should be done
- 14.2 All the protections should work properly, it should be examined for oil and coolant leaks, and it should be visually tested and secured
- 14.3 The remote radiator should operate continuously 100% in a 50 degree ambient temperature
 - It should be designed with vertical air discharge remote radiator with motor and fan
 - It should include all the generator connection pipes, accessories, joints and diagrams
 - The radiator should be developed remotely from the engine providing an added flexibility cooling system, and to be installed at the desired location
 - It should be designed with lower power consumption, and high efficiency aero foil designed fans are used
 - It must be designed with lower noise levels
 - The radiator core should be formed using high efficiency fin profile
 - The thickness of connection pipes must be in a range of 2mm to 4mm





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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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Section III: Technical Specifications

S/N:	Description	Unit	Qty
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1	1200 kW prime rated diesel generator set with parameters 0.8 P.F, 415kV, 3 Phase, 4 wires, 50 Hz at 1500 r.p.m. Powered by Internationally reputed brand engine coupled with internationally reputed brand Alternator. The Generator set shall be powered by a Branded engine origin (UK, USA) or assembled/manufactured by an Original Company's Licenced OEM manufactured/assembler. The engine must produce a mechanical power output (kW _m) which should meet the required electric power (kW _e) of 1200kW and must be coupled with a 1200kW Alternator with pre-installed Droop CT and a control connection box.(termination box to connect control cables and power cables)	1	No
	Engine to be complete with following auxilliary items: Heavy electrical flywheel Air filters, Lubricating Oil Filters, Fuel Filters and all other such filter required for operation of the engine Low lubricating oil pressure switch High engine temperature switch lub oil sender Water Temperature Sender All necessary items to run and to protect the engine Starting equipment fitted to engine, consisting of: 24 Volt charging altenator (Brushless) 24 Volt starting motor Fuel Shut-off solenoid Heavy duty lead acid batteries, supplied in a dry charged condition Governing System The engine to be fitted with a close tolerance Cummins Electronic Governing system, which should include efc, actuators, magnetic pickups, etc, including wiring Cooling Equipment		
	Cooling equipment compromising a heavy-duty tropical remote radiator, with fans driven by Electric Motors (ABB or equivalent). The radiator core should be elecroplated with silver solder tin plated to prevent early failure due to corrosion. Coupon plated radiators are acceptable. Radiator must be designed to adequately cool the generator at an ambient temperature of 50°C Exhaust system 450 mm of stainless steel below type flexible exhaust, together with suitable flanges and fittings shall be supplied for each silencer.		





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	Condensation Coil to be fitted in the Alternator. The output voltage of alternator should be 415V. Generator arrangement and drive		
	The simplex type base plate is of heavy duty rolled steel constructed, bolted and electrically welded, drilled on the underside to allow the fitting of foundation bolts. The engine and the alternator are to be mounted on a base plate and vibration mounts to be mounted underside of the base plate. The vibration mounts are to be supplied as loose item.		
	Finishing After assembling the genset zinc coated self-etching primer should be applied to the complete set.		
1.2	Fuel system	1	No
	A fuel day tank of 12 hours capacity complete with level indicator, drain plug, filler, fuel return with fuel outlet connections and a fuel filter fitted with outlet connection is to be mounted. These mounts are are to be suuplied as loose item. All necessary fittings to be supplied in conformity with fuel flow diagram.		
1.3	Factory testing	1	No
	The generator should be fully tested at the manufacturer workshop in the presence of client/apointees to check the ratings, overload, functional tests on a dummy load prior to dispatch <i>in case the bidder is unable to provide factory test</i> as required the bidder shall provide an extended warranty of one extra year than mentioned in iteme		
1.4	no 10 of this document. Literature and drawings consisting of :		
1.4	1 No x Manual on How to handle the generation equipment 1 No x Electrical wiring diagram 1 No x Engine operation and maintenance manual 1 No x Engine parts catalogue	1	Lot
	 1 No x Generator parts catalogue 1 No x Generator operation and maintenace manual 1 No x Generator AVR manual 1 No x Governor control unit manual 1 No x Engine shop manual 		
1.5	Accessories		
	The Components shall meet the British Standard and ISO standards. Items are for the above mentioned generator sets.		
.5.1	Primary silencer barrel (to match engine exhaust)	2	No
1.5.2	Secondary silencer barrel (to match engine exhaust)	2	No
1.5.3	3m Exhaust pipe dia (to match engine exhaust)	4	No
1.5.4	Elbows having dia (to match the engine exhaust)	6	No
1.5.5	Flanges having dia (to match the engine exhaust)	8	No
1.5.6	Bolts, Nuts and Washers for the Flanges. (Each set shall include 1 bolt, 2	1	Lot
	washers,1spring washer 2 Nuts)		
1.5.7	Split type rockwool insulation lagging suitable for 75 to 125mm dia. Exhaust		





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	Generator set should carry a warranty of one year from the date of commisioning 1 Lot	1
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Documer	ats Required for technical evaluation	
• tec	hnical data sheets of engine hnical data sheets of Alternator	
• dat	asheets specifying cooling system rated at ambient temperature 50°C	
• Cer	tificate of Authenticity specifying Assembler is a Cummins OEM	
	Securiting Assembler is a Cultillinis Ocivi	
	n Criteria :	
]	echnical Specification : 10 marks	
(Certificate of Authenticity : 5 marks	
Note: Pro	oposal that do not conform to the given technical specification shall be rejected.	
Prepared	and checked by :	
Technical	Services & Green Energy Department	