

# INFORMATION SHEET FOR PROCUREMENT OF GENERATOR SYNCHRONIZING PANEL BOARD

Reference No.: FNK-I/IUL/2021/210

Issued on: 03rd May 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	
		Generator Synchronizing Panel Board in accordance with	
		Section III, Technical Specifications	
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:	
1	I		

بمسبكة لرحم الرحيم

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

Phone: +960 3307555 | Fax: +960 3327555 | Email: info@fenaka.mv | Website: www.fenaka.mv

SEBTIFIES ISO 45001:2018







Page 2 of 9



		- 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
Compliance		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 payment
Comprising the Bid		terms)
	9.2	Specifications of the offered product
	9.3	Single-line diagram
	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)
I	1	

بمسبع للندارجم الرضيم

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

Phone: +960 3307555 | Fax: +960 3327555 | Email: info@fenaka.mv | Website: www.fenaka.mv

BTIF

Ecolence in Utility







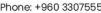


	1	
		- Contact details (name, designation, mobile number
		and e-mail address)
	9.5	Experience letters, if available
		- Letters within past five (5) years
		- Relevant experience letters
		- Letters with project name and value
	9.6	One (1) compact disc with original bid document scanned
		and written
	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		bound properly (excluding the bid security)
C. Bid Submission 11. Sealing and	11.1	bound properly (excluding the bid security) The bid document shall be sealed properly in an envelope
	11.1	
11. Sealing and	11.1	The bid document shall be sealed properly in an envelope
11. Sealing and Marking Bid	11.1	The bid document shall be sealed properly in an envelope clearly marked 'ORIGINAL' or 'COPY', with the name
11. Sealing and Marking Bid	11.1	The bid document shall be sealed properly in an envelope clearly marked 'ORIGINAL' or 'COPY', with the name of the company and the tender reference number (FNK-
11. Sealing and Marking Bid Document		The bid document shall be sealed properly in an envelope clearly marked 'ORIGINAL' or 'COPY', with the name of the company and the tender reference number (FNK- I/IUL/2021/210)
11. Sealing and Marking Bid Document		The bid document shall be sealed properly in an envelope clearly marked 'ORIGINAL' or 'COPY', with the name of the company and the tender reference number (FNK- I/IUL/2021/210) The bids will be opened on 20 <sup>th</sup> May 2021, 1200hrs in the
11. Sealing and Marking Bid Document	12.1	The bid document shall be sealed properly in an envelope clearly marked 'ORIGINAL' or 'COPY', with the name of the company and the tender reference number (FNK- I/IUL/2021/210) The bids will be opened on 20 <sup>th</sup> May 2021, 1200hrs in the presence of bidders
11. Sealing and Marking Bid Document	12.1	The bid document shall be sealed properly in an envelope clearly marked 'ORIGINAL' or 'COPY', with the name of the company and the tender reference number (FNK- I/IUL/2021/210) The bids will be opened on 20 <sup>th</sup> May 2021, 1200hrs in the presence of bidders Bids will be opened at:
11. Sealing and Marking Bid Document	12.1	The bid document shall be sealed properly in an envelope clearly marked 'ORIGINAL' or 'COPY', with the name of the company and the tender reference number (FNK- I/IUL/2021/210) The bids will be opened on 20 <sup>th</sup> May 2021, 1200hrs in the presence of bidders Bids will be opened at: Fenaka Corporation Limited
11. Sealing and Marking Bid Document	12.1 12.2	The bid document shall be sealed properly in an envelope clearly marked 'ORIGINAL' or 'COPY', with the name of the company and the tender reference number (FNK- I/IUL/2021/210) The bids will be opened on 20 <sup>th</sup> May 2021, 1200hrs in the presence of bidders Bids will be opened at: Fenaka Corporation Limited Hilaalee Magu, K. Male', Republic of Maldives
11. Sealing and Marking Bid Document 12. Bid Opening	12.1 12.2 12.3	The bid document shall be sealed properly in an envelope clearly marked 'ORIGINAL' or 'COPY', with the name of the company and the tender reference number (FNK- I/IUL/2021/210) The bids will be opened on 20 <sup>th</sup> May 2021, 1200hrs in the presence of bidders Bids will be opened at: Fenaka Corporation Limited Hilaalee Magu, K. Male', Republic of Maldives Bids received electronically will not be accepted

بمسبع للندارجم الرضيم

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

Page 4 of 9













	13.2 13.3	Bidders that do not register for the tender are unable to participate in the bid opening Bids lacking the documents mentioned in 9. Documents Comprising the Bid (except 9.5 Experience letters) and
		that do not comply with <i>10. Format of Bid</i> are subjected to be rejected
D. Awarding of Cont	ract	
14. Payment Terms	14.1	An advance payment will not be released for this project
15. Factory Acceptance	15.1	Supplied items 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 items shall undergo protection testing and operation
		testing
	15.4	The items shall be checked for dimension and the supplier
		shall provide the dimensions of the panel during the
		virtual factory acceptance testing.
	15.5	Video recorded while operating the units will not be
		accepted as virtual factory acceptance testing.

بمسبع للتدكر مرالزخيم

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

Page 5 of 9













### 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

Page 6 of 9 Port Complex Building, 7th Floor, Hilaalee Magu, Male, 20207, Maldives













### **Section III: Technical Specifications**

#### Supply of Generator Synchronizing Panel Board

#### **Technical Specification**

Free Standing Synchronizing Panel with Tin/Zinc Coated Busbar rated at 8000 A complete with the following.

- A1) 4 Nos x Generator cubicles (size: minimum 2100 x 660 x 900 mm) powder coated, anti-corrosive enclosure with cable bottom entry type. Each complete with:
  - 1 Nos x 2500A (adjustable 40% to 100%), 3Pole, ACB, motorized with UVT 220Vac Coil, Brand:Merlin Gerin/Schenider/ABB or equivalent)
  - 1 Nos x Synchronizing and load share module; DEEP SEA 8810 (or later version)
  - 3 Nos x Amp Meter (0-3000A), Analog (Rudold or equivalent)
  - 1 Nos x Voltmeter c/w selector switch, Analog (Rudold or equivalent)
  - 1 Nos x Frequency Meter (0-55Hz), Analog (Rudold or equivalent)
  - 1 Nos x kW Meter (Rudold or equivalent)
  - 1 Nos x kWh Meter (Rudold or equivalent)
  - 1 Nos x Over current Relay
  - 1 Nos x Over Earth Falut Relay
  - 1 Nos x Reverse Power Relay
  - 1 Nos x Power Meter PM1000

- 1 Lot x Protection and metering CTs, sets of relays, fuses. 3-CT 2000/5A CL5P5 for metering and 4-CT 2000/5A CL5P5 for protection

- 1 Lot x RPM meter, Run hour meter, DC Voltmeter and DC Ammeter
- 1 set x ACB ON/OFF indicator lights and generator incoming lights
- 1 No x Battery Charger, 24V, 5A
- -1 Lot x Flexible cable Internal wiring, to wire relays, timers and control circuitry, c/w labelling.
- -1 Lot x Fuel Deference meter (Kral or equivalent)
- B) 2 Nos, Transformer Feeder Cubicle (size: minimum 2100 x 660 x 900 mm) powder coated anti-corrosive enclosure with cable bottom entry, complete with:
  - ACB, TPN, 5000A, motorized. Make: Schneider, ABB or Terasaki or equivalent
  - Busbar rating, 8000A, Copper, tin/zinc coated
  - Breaker ON/OFF control with push button, with indicating lights
  - Amp meter (0-5000A) for R, Y, B
  - Digital multifunction power meter
  - Over current protection relay and earth fault protection relay
  - 1 Lot flexible power cable with termination
  - 1 lot control cable with internal wiring, termination, and labelling

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

Phone: +960 3307555 | Fax: +960 3327555 | Email: info@fenaka.mv | Website: www.fenaka.mv

Page 7 of 9













- C) 1 Nos x Feeder Cubicle (size: minimum 2100 x 660 x 900 mm) powder coated anti-corrosive enclosure with cable bottom entry type, complete with:
  - 12 Nos x 300A, TPN, MCCB with shunt trip-coil, volt: 220V
  - 12 Nos x Earth leakage relays
  - 12 Nos x Ammeter (0 800A) with selector switch
  - 12 Nos x Digital Power Analyzer (V/A/kW/kWh/F)
  - 12 Nos x 4Pole Terminal Block
  - 1 Lot x Protection and measuring CTs (Z-CT and 3-CT 400/5A to CL5P5)
  - 1 Lot x Felxible power cable with termination and labelling
  - 1 Lot x Control Cable, internal wiring
  - Note: All MCCBs make: Schneider, ABB, Terasaki or equivalent
- D) 1 Nos x BESS Cubicle (size: minimum 2100 x 660 x 900 mm) powder coated anti-corrosive enclosure with cable bottom

entry type, complete with:

- 1 Nos x 600A, TPN, MCCB, motorized with UVT 220Vac Coil, Brand : Merlin Gerin/Schenider/ABB or equivalent)

- 3 Nos x Amp Meter (0-3000A), Analog (Rudold or equivalent)
- 1 Nos x Voltmeter c/w selector switch, Analog (Rudold or equivalent)
- 1 Nos x Frequency Meter (0-55Hz), Analog (Rudold or equivalent)
- 1 Nos x kW Meter (Rudold or equivalent)
- 1 Nos x kWh Meter (Rudold or equivalent)
- 1 Nos x Over current Relay
- 1 Nos x Over Earth Falut Relay
- 1 Nos x Power Meter PM1000

- 1 Lot x Protection and metering CTs, sets of relays, fuses. 3-CT 1000/5A CL5P5 for metering and 4-CT 1000/5A

CL5P5 for protection

- 1 set x ACB ON/OFF indicator lights and generator incoming lights
- -1 Lot x Flexible cable Internal wiring, to wire relays, timers and control circuitry, c/w labelling.
- 1. The panel dimensions shall meet or be similar to the given minimum dimensions for each cubicle (2100 X 660 X 900mm) to allow same panel to be upgraded to larger size generator in future.
- 2. Bus bar shall be arranged to fit the full length of the panel board including the feeder panel.
- 3. Panel shall be designed in such a way that it could be transported to the islands in separate cubicles as there won't be any lifting mechanism if the whole panel set is sent to the island as a single object.
- 4. The generator controller shall be DEEPSEA brand and model DSE8810 can be replaced with a superior model only. The supplier shall provide the manufacturer's authorization to confirm the origin of the controller.
- 5. The panel shall be manufactured using high quality electro galvanized MS plates, treated and powder coated up to 80 micron or higher.

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

Page 8 of 9













- 6. The thickness of the metal sheet shall be at least 1.2 mm, and other plates shall be 1 mm. The thickness of the main frame shall not be less than 1.5 mm.
- 7. Bus bar to breaker connections shall use tin plated copper bus bars.
- 8. Main bus bar shall be tin/zinc plated, and rated 8000 amps, and copper content shall meet the relevant IEC and BS standards.
- 9. The panel internal wiring shall be wired using 2.5sqmm thick flexible copper cables. All the wires shall be properly labelled and terminated with suitable terminal.
- 10. The relays, battery chargers, and meters shall be from reputable brands and the drawings and technical specification must be provided with the bid documents.
- 11. Free technical support shall be provided during installation, and training for engineers must be given to install the panels.
- 12. A single line diagram must be provided together with technical specification of the main components of the panel
- 13. Stainless Steel Bolts and nuts must be provided to connect the outgoing feeder cables.
- 14. The ACB'S must be draw out type.
- 15. A battery charger must be installed for every engine, inside the engine control panel.

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

Page 9 of 9







