

Information Sheet for Procurement 600kW Generator Set

Section A

a) Bid Information

| # | Description | Size | Quantity |
|---|-------------------------|-------|----------|
| 1 | Supply of Generator Set | 600kW | 04 |

Quotation shall indicate the following;

a) Price

- The bidder shall quote for CIF value to Male port.
- All items shall be quoted in the bid, please refer section (b) specifications
- Quotation shall indicate the unit price, total price for each item and total price of the quotation. The quotation shall separately indicate additional charges such as freight charges, insurance, taxes, etc.

b) Delivery Period

- The delivery period shall be stated in 'calendar days'.
- If the delivery period indicates 'ex-stock', or if the duration is not specified, it shall be taken same as the party offering the longest delivery period.

c) Payment Terms

- The payment terms shall be stated in 'days or months', and the payments will be released in equal monthly instalments.
- No points will be given for payment terms if the bidder requests for Letter of Credit (LC).
- A maximum of 15% of the entire project can be provided as an advance if requested in the bid, however, it cannot be tied to the project starting date.
- For 15% advance bid awarded party has to submit bank guarantee letter along with performer invoice.



d) Technical Specifications

- All the relevant information including the brand shall be given to enable technical evaluation of the items quoted.
- Technical compliance letter will be required to enable technical evaluation
- Generator set should comply our requirements, if not the bid will be rejected
- 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 of a genuine reputed international Engine Brand

e) Quotation validity should be a minimum of 60 days from the date of quotation opening.

f) Bid Security validity is valid for Twenty (20) days beyond the validity of the bid

g) If there is any clarification regarding bid you may send email to tender@fenaka.com.mv from 22nd October 2019 to 28th October 2019. .

Note: It is in FENAKA Corporation Limited's discretion to reject/cancel any quotation which does not fulfil or comply the above terms.

بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ



Section B

ފެނަކާ ޖެނަރެޓަރު ސެޓް ޖަހަން ޖެހޭ
ޖެނަރެޓަރު ސެޓް

Generator Set Specifications

a) Specification of 600kW Generator Set

SPECIFICATION FOR 600Kw Generator Set

| S/N: | Description | Unit | Qty |
|------|---|------|-----|
| 1 | <p>600 kW prime rated containerized diesel generator set (ie. assembled in container). The container should be silent type with sound attenuation upto 70-65dBa @ 3meter. The generator set shall be with parameters 0.8 P.F, 415 Volts, 3 Phase, 4 wires, 50 Hz at 1500 r.p.m. The Generator set shall be powered by an internationally reknowned brand of engine and assembled/manufactured by an Original Licenced OEM manufacturer/assembler. The engine must produce a mechanical power output (kW_m) which should meet the required electric power (kW_e) of 600kW and must be coupled with a 600kW alternator with pre-installed Droop CT and remote mounted control panel.</p> <p>The panel should be equipped with Deepsea model: 8810 / 8860 engine controller and with Motorised TP, 1000A MCCB c/w UVT Coil AC 230 V, brand "MERLIN GERIN" or equivalent.</p> <p>Engine to be complete with following auxilliary items :</p> <ul style="list-style-type: none"> • Heavy electrical flywheel • SAE flywheel housing • 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 : <ul style="list-style-type: none"> • 24 Volt charging alternator (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 Electronic Governing system, which should include efc, actuators, magnetic pickups, etc, including wiring • Cooling Equipment Cooling equipment comprising a heavy-duty tropical radiator, together with pusher type cooling fan and guards to be fitted. The radiator core should be electroplated with silver solder tin plated to prevent early failure due to corrosion. Coupon plated radiators are acceptable. Radiator has to be mounted inside teh container on vibration mounts with enough strength to withstand the radiator and vibrations. 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 silencer. • Alternator | 1 | No |

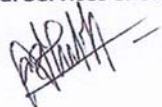


| | | | |
|-----|--|---|-----|
| 1.2 | <p>The alternator shall be brushless revolving type alternator, having class H insulation on both the stator and field windings. It shall be built and rated to BS 5000, tropically impregnated with voltage regulation being in the order of +/- 1.5% from no load to full load under the steady state conditions assuming a speed variation not exceeding 4% on the engine. Anti-Condensation Coil to be fitted in the Alternator.</p> <p>• Generator arrangement and drive The simplex type base frame is of heavy duty rolled steel constructed, bolted and firmly fixed to base of the canopy/container. The engine and the alternator are to be mounted on a base frame.</p> <p>Radiator shall be fixed inside the canopy and canopy shall have arrangements for proper ventilation of the generator set and doors for maintenance and servicing of the generator set.</p> <p>• Finishing After assembling the genset zinc coated self-etching primer should be applied to the complete set. The canopy shall be painted with marine graded paint.</p> <p>Fuel system A fuel day tank of 8 hours capacity complete with level indicator, shall be fitted at the base of the generator set</p> | 1 | No |
| 1.3 | <p>Literature and drawings consisting of : (Optional)</p> <ul style="list-style-type: none"> • 1 No x Manual on How to handle the generation equipment • 1 Nos x Electrical wiring diagram • 1 No x Engine operation and maintenance manual • 1 No x Engine parts catalogue • 1 No x Generator parts catalogue • 1 No x Generator operation and maintenance manual • 1 No x Generator AVR manual • 1 No x Governor control unit manual • 1 No x Engine shop manual | 1 | Lot |
| 1.4 | <p>Warranty Generator set should carry a warranty of one year from the date of commissioning</p> | 1 | Lot |

- Documents Required for technical evaluation**
- technical data sheets of engine
 - technical data sheets of Alternator

Note : Proposal that do not conform to the given technical specification shall be rejected.

Prepared and checked by :
Technical Services & Green Energy Department



بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ



ފަނަކާ ޕްރޮޕްޔަރޓީޒް ޕްރައިވޭޓް ލިމިޓެޑް
ދިވެހިރާއްޖެ

Section C

Required Document and Evaluation criteria



Required Documents

- Quotation (inclusive of the delivery period and the payment terms)
- 1 compact disc (CD), along with 2 sets of the bid documents (One Original and 1 copy set) separately packed and sealed with company stamp. All the pages in bid documents should be stamped and bound properly
- Specification of the offered product
- Bid Security (As per Announcement), Original
- Experience Letter
- Details of the company
- Specification of the offered product
- Certificate of Authenticity specifying manufacturer /Assembler is an OEM of a genuine reputed international Engine Brand
 - Company profile (This should include the background of the company with the products they supply)
 - Company registration certificate
 - GST registration certificate
 - Tax clearance report (6months validity)
 - Contact details (Name, Designation, Mobile number, Email)

Important Note:

- Bids lacking the documents above are subjected to be rejected during bid opening. Also it is in FENAKA's discretion to cancel this invitation to bid at any time.
- Bidders can submit maximum of 2 options

Evaluation Criteria

- **Proposal Cost:** 40 points
 - (Lowest proposed price / proposed price) x 40 points
- **Delivery:** 30 Point
 - (Shortest Delivery Period) / (Quoted Delivery Period) x 30
- **Payment Terms:** 20 points for the maximum days given for payment
 - (Proposed credit period / longest credit period) x 20
- **Experience** 10 points (Point will be given by analyzing Related Experience letters of past 5 years depending on the value of the project)

بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ



ފެނަކާ ޕޯޓް ކޮމްޕްލެކްސް ބިލްޑިންގ
ޕޯޓް ކޮމްޕްލެކްސް ބިލްޑިންގ

Tender Ref No: FNK-I/IUL/2019/174

Managing Director

Fenaka Corporation Ltd

Port Complex Building, 7th Floor

Hilaalee Magu, Maafannu

K. Male'

The proposal and the envelope must bear the reference number of the tender. All envelopes must be duly sealed and stamped. Fenaka Corporation will not be liable for the misplacement or premature opening of unlabelled sealed proposals. The bids will be opened, in the presence of the bidders. The bids received after the stated time, and the bids received via email will not be accepted.

For more information and clarifications, please email us before 28th October at

tender@fenaka.com.mv

06th August 2019