

## **Information Sheet for Procurement Generator Sets**

### **a) Bid Information**

| # | Description             | Size  | Quantity |
|---|-------------------------|-------|----------|
| 1 | Supply of Generator Set | 1.2MW | 02       |

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.
- 5% of the bid value will be hold as retention payment till the due of warrantee period.
- 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.
- Generator set should comply our specification and 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 assembler is a Cummins OEM

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](mailto:tender@fenaka.com.mv) from 15<sup>th</sup> October 2019 to 18<sup>th</sup> 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.

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## b) Generator Set Specifications

**SPECIFICATION FOR 1200Kw Generator Set**  
For Laam Gan

| S/N: | Description   | Unit | Qty |
|------|---|------|-----|
| 1    | <p>1200 kW prime rated diesel generator set with parameters 0.8 P.F, 415 Volts, 3 Phase, 4 wires, 50 Hz at 1500 r.p.m. Powered by Cummins engine coupled with Stamford Alternator.</p> <p>The Generator set shall be powered by a Cummins engine origin (UK, USA) or assembled/manufactured by an Original Cummin's Licenced OEM manufactured/assembler.</p> <p>The engine must produce a mechanical power output (<math>kW_m</math>) which should meet the required electric power (<math>kW_e</math>) of 1200kW and must be coupled with a 1200kW Stamford Alternator with pre-installed Droop CT and remote mounted control panel.</p> <p>The controller should be Deepsea model: 8810 / 8860 engine controller. Motorised TP, 2000A ACB c/w UVT Coil AC 230 V, brand "MERLIN GERIN") or equivalent.</p> <p><b>Engine to be complete with following auxilliary items :</b></p> <ul style="list-style-type: none"> <li>• Heavy electrical flywheel</li> <li>• SAE flywheel housing</li> <li>• Air filters, Lubricating Oil Filters, Fuel Filters and all other such filter required for operation of the engine</li> <li>• Low lubricating oil pressure switch</li> <li>• High engine temperature switch</li> <li>• lub oil sender</li> <li>• Water Temperature Sender</li> <li>• All necessary items to run and to protect the engine</li> <li>• <b>Starting equipment fitted to engine, consisting of :</b> <ul style="list-style-type: none"> <li>• 24 Volt charging alternator (Brushless)</li> <li>• 24 Volt starting motor</li> <li>• Fuel Shut-off solenoid</li> <li>• Heavy duty lead acid batteries, supplied in a dry charged condition</li> </ul> </li> <li>• <b>Governing System</b> <p>The engine to be fitted with a close tolerance Cummins Electronic Governing system, which should include efc, actuators, magnetic pickups, etc, including wiring</p> </li> <li>• <b>Cooling Equipment</b> <p>Cooling equipment compromising a heavy-duty tropical remote radiator, with fans driven by Electric Motors (ABB or equivalent) . The radiator core should be electroplated with silver solder tin plated to prevent early failure due to corrosion. Coupon plated radiators are acceptable.</p> <p>Radiator must be designed to adequately cool the generator at an ambient temperature of 50°C</p> </li> </ul> | 1    | No. |

|  |  |   |     |
|--|--|---|-----|
| <p>• <b>Alternator</b></p> <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>• <b>Generator arrangement and drive</b></p> <p>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.</p> <p>• <b>Finishing</b></p> <p>After assembling the genset zinc coated self-etching primer should be applied to the complete set.</p> <p><b>1.2 Fuel system</b></p> <p>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 to be supplied as loose item. All necessary fittings to be supplied in conformity with fuel flow diagram.</p> |  |   |     |
| <p><b>1.3 Factory testing</b></p> <p>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 item no 10 of this document.</p>   |  | 1 | No  |
| <p><b>1.4 Literature and drawings consisting of :</b></p> <ul style="list-style-type: none"> <li>• 1 No x Manual on How to handle the generation equipment</li> <li>• 1 Nos x Electrical wiring diagram</li> <li>• 1 No x Engine operation and maintenance manual</li> <li>• 1 No x Engine parts catalogue</li> <li>• 1 No x Generator parts catalogue</li> <li>• 1 No x Generator operation and maintenance manual</li> <li>• 1 No x Generator AVR manual</li> <li>• 1 No x Governor control unit manual</li> <li>• 1 No x Engine shop manual</li> </ul>  |  | 1 | Lot |
| <p><b>1.5 Accessories</b></p> <p>The Components shall meet the British Standard and ISO standards. Items are for the above mentioned generator sets.</p>   |  |   |     |
| <p><b>1.5.1 Primary silencer barrel (to match engine exhaust)</b></p>  |  | 2 | No  |
| <p><b>1.5.2 Secondary silencer barrel (to match engine exhaust)</b></p>  |  | 2 | No  |
| <p><b>1.5.3 3m Exhaust pipe dia ( to match engine exhaust)</b></p>   |  | 4 | No  |
| <p><b>1.5.4 Elbows having dia (to match the engine exhaust)</b></p>  |  | 6 | No  |
| <p><b>1.5.5 Flanges having dia (to match the engine exhaust)</b></p>   |  | 8 | No  |
| <p><b>1.5.6 Bolts, Nuts and Washers for the Flanges. (Each set shall include 1 bolt, 2 washers, 1 spring washer 2 Nuts)</b></p>  |  | 1 | Lot |

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|       |  |   |     |
|-------|--|---|-----|
| 1.5.7 | Split type rockwool insulation lagging suitable for 75 to 125mm dia. Exhaust pipes. The lagging shall be covered with High Quality Aluminium foil. | 1 | Lot |
| 1.6   | <b>Warranty</b><br>Generator set should carry a warranty of one year from the date of commissioning  | 1 | Lot |

**Documents Required for technical evaluation**

- technical data sheets of engine
- technical data sheets of Alternator
- datasheets specifying cooling system rated at ambient temperature 50°C
- Certificate of Authenticity specifying Assembler is a Cummins OEM

Prepared and checked by :

Abdulla Nashith  
Director  
Technical Services & Green Energy Department

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## 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 One copy set) separately packed and sealed with company stamp. All the pages in bid documents should be stamped and Bind 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 (6 months 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:** 50 points
  - (Lowest proposed price / proposed price) x 50 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



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Please submit your bids addressed to;

Tender Ref No: FNK-I/IUL/2019/173

Managing Director

Fenaka Corporation Ltd

Port Complex Building, 7<sup>th</sup> 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 at [tender@fenaka.com.mv](mailto:tender@fenaka.com.mv)

01<sup>st</sup> October 2019