Notice calling for Quotation/Tender

M/s.............................................
.............................................
.............................................

Sealed Quotations/Bids (one technical and one financial separately) are invited from Manufacturer or their authorized dealers for the following items which should be sealed by the tenders in separate covers duly super scribed and both these sealed are to be put in a bigger, which should also b sealed and duly super scribed, on the terms and conditions as mentioned on page no.4

Quotations should reach this office on or before 04/01/2019 by 12.00 Noon will be opened on 05/01/2019

Technical Specifications for 250 KVA DG set

TECHNICAL SPECIFICATION FOR 250 KVA SOUND ATTENUATED DG SET

A. DIESEL ENGINE:
Make Diesel engine rated at 1500 RPM, water cooled, four stroke, electric start, six cylinder diesel engine conforming to BS : 5514 / ISO 3046 with capacity of 10% over loading for one hour in twelve hours duration having following accessories as scope of supply :-

AIR INTAKE SYSTEM
- Air intake manifold
- Dry type air cleaner
- Vacuum indicator

EXHAUST SYSTEM
- Turbocharger
- Flexible connection
- Exhaust manifold
- Residential silencer

COOLANT SYSTEM
- Engine water pump
- Radiator
- Coolant additive concentrate

LUBRICATING SYSTEM
- Oil pan
- Engine mounted lube oil pump
- Full flow spin-on lube oil filter

FUEL SYSTEM
- Electronic Governor
- 24V DC solenoid coil
- Duel fuel filter system

STARTING SYSTEM
- 24V DC electric starter.
- 24V DC battery charging alternator.

Contd. page-2
POWER COMMAND CONTROLLER (PC1.1)

Power Command PC 1.1 is a microprocessor based integrated generator set monitoring, metering protection and control system with built-in -torque matched volts/Hz overload control.

Single control for all genset functions:

- Digital Governing
  - Digital voltage control
  - Engine control
  - Operator interface
  - Protection
  - Advanced control functions

Standard features of genset controller

<table>
<thead>
<tr>
<th>Engine: Metering</th>
<th>Protections</th>
</tr>
</thead>
<tbody>
<tr>
<td>- RPM</td>
<td>- Low lube oil pressure</td>
</tr>
<tr>
<td>- Battery Voltage</td>
<td>- High water temperature</td>
</tr>
<tr>
<td>- Lube oil pressure</td>
<td>- High/Low DC voltage</td>
</tr>
<tr>
<td>- Coolant Temp.</td>
<td>- Weak Battery</td>
</tr>
<tr>
<td>- Running hours</td>
<td>- Over speed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Alternator: Metering</th>
<th>Protections</th>
</tr>
</thead>
<tbody>
<tr>
<td>- 3 phase voltage (L-L and L-N)</td>
<td>- Field overload</td>
</tr>
<tr>
<td>- 3 phase Current</td>
<td>- Under voltage</td>
</tr>
<tr>
<td>- Frequency</td>
<td>- Over voltage</td>
</tr>
<tr>
<td>- kVA.</td>
<td>- Over current</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Misc.:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>- Battle switch function</td>
<td></td>
</tr>
<tr>
<td>- Delay Start/Stop</td>
<td></td>
</tr>
<tr>
<td>- Configurable Cranking cycle</td>
<td></td>
</tr>
<tr>
<td>- Sleep mode time</td>
<td></td>
</tr>
</tbody>
</table>

OTHERS:
- Vibration damper.
- Flexible coupling (only for double brg. Alternators).
- Flywheel with housing.

B. ALTERNATOR:
Synchronous alternator of Stamford make of 250 KVA rating, suitable for continuous operation at 1500 RPM generating 415 volts at 0.8 p.f. (lag) suitable for 50 Hz. 3 phase, 4 wire system. The alternator shall be Brushless type, self excited & self regulated through an AVR. The alternator will be suitable for tropical climate and shall generally confirm to IS : 4722. The salient features of the alternator are:-
- ± 1% voltage regulation (max) in static conditions.
- IP: 23 protection with class 'H' insulation.
- Permanent lubricating bearing.
- Permissible overload of 10% for one hour in 12 hours of operation.

C. CONTROL PANEL:
The std. control panel is fabricated from 14/16 SWG sheet and Powder Coated after seven tank treatment process. The panel is floor mounted and equipped with:
- 400A TP MCCB 25KA (Fixed O/C, & S/C) Thermal Magnetic Release With Spreader Link
- PC-1.1 (DG Auto start/stop, Alt. Mfg., Protection and Engine Protection)

Contd. page-2
D. BASE FRAME:
Engine and alternator are mounted, coupled and aligned on a common channel iron fabricated Base Frame with pre-drilled holes.

E. FUEL TANK:
Daily service fuel tank of 480 Ltrs., fabricated from 14 SWG sheet metal complete with drain valve, air vent, inlet and outlet connection.

F. BATTERIES:
Two nos. CUMMINS PULSE make battery of suitable capacity with its leads.

G. ACOUSTIC ENCLOSURE: CPCB APPROVED.

H. WARRENTY
- DG Set stand Warranty of its manufacturer for a period of 2 years/5000 hours, whichever happens earlier. Defects rising due to faulty installation, and/or commissioning, misuse, faulty storage and/or handling, improper maintenance, normal wear-tear and damages caused due to accidents are specifically excluded. Parts found defective during guarantee period will be replaced or repaired at out discretion. Parts shall be sent to us freight paid basis and the same shall be returned after rectification or replacement on freight to pay basis. This warranty is not a free service contract. We shall not be liable for any direct, indirect or consequential losses or damages of any type whatsoever.

(Prof. Mohd. Khalid)
CHAIRMAN

Deptt. i. Radiodiagnosis
J.N. Medical College
A.M.U., Aligarh

Contd.page-4
1. Make, Model, Rate, Warranty & GST detail Must be clearly mentioned in the Quotations.

2. Only typed quotations/tenders bearing GSTIN No. on original letter head will be entertained and please provide GST-HSN code on each item separately.

3. Manufacturers/Authorised dealer's certificate must be attached with the quotations/Tenders.

4. Cutting/over writing on quotations/tenders will not be accepted.

5. The firm must be registered with Directorate General of supply and Disposals (DGS &D) or in Central Purchase Office, AMU, Aligarh.

6. List of users for the quoted item with contact no. should be provided Photocopy of purchase order along with terms and conditions of contract received from any Govt./Public sector institution in last 2 years for supply of offered equipment must be enclosed with the price bid.

7. Installation and commissioning will be the responsibility of the supplier & after sale service should be provided.

8. The equipment should be US FDA/CE European approved product.

9. Comprehensive onsite warranty 5 years & detail after sale service backup in warranty period must be clearly mentioned.

10. The rate of CMC for 2 years must be provided separately after warranty.

11. The payment shall be made against bill and satisfactory installation. No advance payment is possible.

12. The hospital reserve the right to reject any or all the tender/Quotations without assigning any reason or to allot full or part of supply to one or more firms.

13. Inclusive GST rates will not be accepted and tender/Quotations will be cancelled.

14. The rate must be quoted in Indian rupees and F.O.R. Department of Radio Diagnosis, JNMC Hospital.

15. Any increase in the rate during the course of supply shall not be accepted unless confirmed by this office.

[Signature]

CHAIRMAN
Department of Radio Diagnosis
J.N. Medical College
AMU, Aligarh