



CENTRE FOR NANO AND SOFT MATTER SCIENCES

Prof. U.R. Rao Road, Jalahalli, BENGALURU 560 013.
Autonomous Institution under the Dept. of Science & Technology, Govt. of India

REQUEST FOR TENDER

PI2/000160/19-20

Date :12.03.2020

The Centre invites Sealed Tender for the following item.

SI No	Description of Item	Qty
01.	<u>Supply of 250KVA Diesel Generator Set with acoustic enclosure</u> Detailed Specification is given in Annexure I	1 Set
02.	<u>Supply of Outdoor AMF Panel</u> , Earthing, Cabling & Installation Detailed Specification is given in Annexure II	1 No

NOTE:

- The sealed tender should be submitted on or before **23 March 2020 by 3.00 PM** through Speed Post / Courier / Registered Post.
- Delivery of tender:** The two envelopes shall be superscribed with “**Technical Bid**” and “**Price Bid**” respectively. The two envelopes may be put in one outer cover, sealed and addressed to **The Administrative Officer, Centre for Nano and Soft Matter Sciences, P.B.No.1329, Prof. U.R.Rao Road, Jalahalli, Bengaluru – 560 013**. The tender reference number, due date and due time should be clearly mentioned on the outer cover.

The Price bid will be opened only if the technical bid is compliant to the specifications as detailed in Annexure-I and Annexure-II and is technically acceptable.

Earnest Money Deposit of Rs.1,00,000/- is to be remitted through SBI Collect facility online and proof of remittance should be submitted along with the quotation.

Procedure for paying through SBI Collect :-

SBI Collect-Karnataka-Govt. Department-Centre for Nano and Soft Matter Sciences-MISC Fee- Tender Application Fee (Purpose).

The EMD will be refunded to unsuccessful bidders without any interest thereon.

Tender Fee – Rs. 1,000/- plus 18% GST **Rs. 1,180.00** may be remitted through SBI Collect facility online and proof of remittance should be submitted along with the quotation.

Procedure for paying through SBI Collect :-

SBI Collect-Karnataka-Govt. Department-Centre for Nano and Soft Matter Sciences-MISC Fee- Tender Application Fee (Purpose).

- A brochure giving technical details of the DG Set should be enclosed.

- d) Discount if any should be clearly mentioned.
- e) The requirement is VERY URGENT and therefore Delivery schedule, should be planned and strictly adhered to.
- f) Taxes & duties should be separately shown.
- g) The quoted price should be valid for a minimum period of **3 months** from the date of issue.
- h) **Terms of payment:** The payment in INR shall be made through NEFT/RTGS after successful installation and against submission of Performance Bank Guarantee equal to 10% value of the equipment, valid for the entire period of warranty. Complete details such as the bank account number/IFSC/SWIFT/Bank Address, etc. should be provided along with the price bid.
- i) **Opening of quotation:** The firm shall be at liberty to authorize a representative to be present at the opening of the quotation at the time and date which will be informed by E-mail. A proper letter of authority should be produced before the meeting.
- j) **Warranty and replacement:** The Supplier shall ensure that the Items/Equipment supplied shall comply fully with the specifications laid down, for material workmanship and performance. The warranty period should be specifically mentioned.
- k) **Delivery address :** “ **Centre for Nano and Soft Matter Sciences, Survey No.07, Shivanapura, DasanapuraHobli, Bangalore North Tq.**
- l) The Centre reserves the right to accept or reject any quotation or part thereof without assigning any reasons.
- m) Sealed envelopes containing the quotation should be superscripted with " Ref No.PI2/000160/19-20 Quotation for Supply of 250KVA DG Set ”
- n) Quotation received after the due date & time shall not be considered.
- o) The Centre is eligible for concessional custom duty on purchase under the Government of India Notification No.11/280/1993-TU-V dated 29 April 2016.
- p) The Centre is also exempt from paying Central Excise of Customs duty on purchase under the Govt. of India, Notification No. 11/280/1993-TU-V dated 29 April 2016.
- q) **GST if applicable should be at concessional rates as applicable under provisions of OM No. 45/2017 relating to Scientific Research Institutes. Necessary Certificate will be issued at the time of placing order.**
- r) Non-compliance of any of the conditions/documents/specification shall lead to rejection of the tender bid summarily.
- s) Enclosures to tender bid :
- Authorized Dealership Certificate valid for next 1 year
 - Last 3 years Certified Financial Accounts copies

- Last 3 years IT Returns filed
- GST Registration copy
- Partial client list with reference contract details.
- Bangalore office/Branch Office proof details with contact details

Yours sincerely

Sd/-

Administrative and Finance Officer

Annexure –I

1.0 DG Set - Supply

1.1 Engine shall be of radiator water cooled, 1500RPM, developing the requisite BHP to have an output of 250KVA conforming to ISO 3046 / BS 5514

The engine shall be fitted with standard accessories listed below and also include such devices which come as standard supply along with the set.

- Fuel injection pump
- Turbocharger
- Exhaust manifold
- Stainless steel exhaust flexible connection
- Residential type silencer
- Radiator
- Filters for fuel and lube oil
- Integral fuel tank with drain plug, air vent, inlet and outlet connections, level indicator, manhole, etc.
- Starting motor
- Electric battery charging alternator
- First fill of lube oil and coolant
- Batteries with connecting leads and terminals

The DG set shall be of Cummins / Greaves / KOEL make and shall preferably be fitted with Stamford alternator or as per standards.

Alternator:

- Brushless alternator IS4722/BS 5000
- Self excited and Self regulated
- Class 'H' insulation
- Automatic voltage regulator

Acoustic enclosure–

Engine and alternator assembly mounted on AVM with silencer conforming to sound emission standards as specified by MOEF / CPCB

Engine control panel:

ECP as per manufacturer's standard practices and scope shall form part of the DG set - the ECP however shall include necessary visual indications for the DG set functioning, monitoring of vital parameters of the set such as low lube oil pressure, high water temperature, etc., - the monitoring devices shall initially lead to alarm and later to stoppage of the set thru the Digital controller in the ECP.

The scope shall be complete in all respects including all necessary interconnecting power and control cabling

The power output terminations of the set shall be capable of receiving 2R x 3.5C x 120sqmmarmouredaluminium conductor cable.

Annexure – II

2.0	<u>250 KVA DG Set Installation, Supply of AMF Panel, Earthing, Cabling etc.</u>
2.1	<u>250KVA DG Set:</u>
a)	Unloading, shifting and positioning of the DG set on prepared foundation
b)	Providing exhaust piping 5” dia or as required with necessary bends, flanges, gaskets, fasteners, etc.,
c)	Supports for exhaust / silencer by angle iron / channels, etc.,
d)	Providing mineral wool insulation 50mm thick, density 64Kg per cubic metre with GI chicken mesh bonding and 26 Gauge aluminum sheet cladding for the exhaust line
e)	Providing mineral wool insulation 50mm thick, density 64Kg per cubic metre with GI chicken mesh bonding and 26 Gauge aluminum sheet cladding for silencer
2.2	<u>Outdoor AMF Panel:</u> Supply & Installation of Outdoor AMF Panel comprising of 4P MCCB for EB I/c (250 KVA Tr), Contactors / ATS, Relays, Battery Charger, Meters, Al. Busbars, etc...with all necessary wiring suitable for 250 KVA DG Set. Bus-bars / terminals should be suitable for connecting 2Rx3.5Cx120sqmm cables for EB, DG & load. . The DG set controller shall be wired up suitably for remote ON and OFF from a nearby AMF Control Panel. . Normally, during the operational mode, the start / stop signals for the set shall be given from the adjacent AMF panel. . Only during testing or maintenance, the set will be started manually directly from the controller at the DG set. . Adequate control terminals shall be provided suitable for the above and a clear wiring diagram shall be furnished before despatch of the DG set.
2.3	<u>Earthing:</u> Copper Bonded Chemical Earthing (6ft) inter-connected with Copper Strip from bottom to top & connected to equipment by strip or conductor. Scope includes earth excavation, earthing & construction of chamber as per standards.
2.4	<u>Cabling:</u> . Incoming Power Cable from Transformer to be removed from existing Main Load Panel & to be connected in New Outdoor AMF Panel. . Incoming Power Cable from DG to be connected in New Outdoor AMF Panel. . Outgoing Power cable from AMF to Main Load Panel. Scope includes earth excavation, cable laying, providing safety on cables, providing route markers, termination & connection.
2.5	<u>Civil Works:</u> Scope includes preparing DG Foundation, pedestal for AMF Panel as per instructions & directions of Engineer-in-charge.
2.5	<u>General Notes:</u> . The supplier shall furnish all data and information such as operation manual, general maintenance and installation guide, foundation drawing, engine wiring diagram, parts manual, etc., These drawings and information shall be submitted after award of contract.

. Standard guarantee terms as offered by manufacturers shall be specified in the quote.

.The DG set shall be delivered at site to the following address : “ Centre for Nano and Soft Matter Sciences, Arkavathi Campus, Survey No.07, Shivanapura, Dasanapura Hobli, Bangalore North Tq.

. The supplier shall supervise his works and also of the electrical cabling and earthing which are to be done by a separate agency. Observations if any, shall be pointed out for rectification. The supplier shall assume full and total responsibility for proper functioning of the DG set.

. Quantities mentioned in the installation are indicative and hence actual measurements shall be taken at site prior to execution. Please note only such quantities actually required and executed shall be billed.

.Obtaining approvals from necessary statutory authorities including pollution control board, BESCOM if necessary, Electrical Inspectorate, etc. The scope shall include preparation of drawings in the desired form for this purpose.

. Any terms & conditions, taxes, duties to be mentioned clearly.

. All participants / tenderers are requested to visit the site to assess the nature of work & discuss about the same with the Engineer-in-charge in detail before submitting their quotes.

. The Centre reserves the right to accept or reject the tender bids either in part or full, without assigning any reasons thereof.

Please attach a Technical Compliance Statement along with the Technical Bid

PRICE BID

Sl. No.	Description	Unit Rate	Qty.	Amount	GST	Total Amount
1	Supply of 250KVA Diesel Generator Set with acoustic enclosure & ECP As per Specification given in Annexure I		01 No.			
2	Supply & Installation of Outdoor AMF Panel As per Specification given in Annexure II		01 No.			
3	Transportation, Installation, Testing & Commissioning of 250KVA DG Set & AMF Panel		01 Job			
4	Supply of Aluminium Power Cables					
	from DG to AMF Panel (2R x 3.5C x 120sqmm)		50 Mts.			
	from AMF Panel to Existing Load Panel (2R x 3.5C x 120sqmm)		40 Mts.			
5	Supply of Control Cables from DG to AMF		30 Mts.			
6	Laying of Cables, Control Cables, and Termination at DG, AMF & Existing Load Panel & removing, relaying, re-connection of existing LV I/c cable from existing load panel to AMF Panel		01 Job			
7	Supply of Earthing:					
	DG Neutral: Copper Bonded Chemical Earthing with Copper Strips		02 No's.			
	DG Body : Copper Bonded Chemical Earthing with Copper Strips.		02 No's.			
8	Installation of Earthing		04 No's.			
9	Supply of materials for Silencer, Exhaust Pipes extension with all necessary bends, supports, accessories etc...		--- Mts.			
10	Installation of Silencer, Exhaust Pipes, supports & Aluminium cladding.		01 Job			
11	Civil work for installation of DG & AMF Panel		L S			