

# **REQUEST FOR QUOTATION**

Ref: PR01/PM5/AMC EMISSION-MONITORING/2021-22

Dt. 24-02-2022

To:  
M/s.

Dear Sir,

Sub: Enquiry for AMC for Emission Monitoring at BEML Limited, Palakkad Complex.

You are requested to submit your lowest offer in a sealed cover super scribing the enquiry reference "**PR01/PM5/AMC EMISSION -MONITORING/2021-22 Dt. 24-02-2022**" due on "**07-03-2022**" for AMC for Emission Monitoring at BEML Limited, Palakkad Complex.

1. General information about the tender as follows: -

Name of work: **AMC for Emission Monitoring** at BEML Limited, Palakkad Complex.

Enquiry Ref: **PR01/PM5/AMC EMISSION -MONITORING/2021-22 Dt. 24-02-2022**"

Last Date & Time of receipt of offers : **07-03-2022 at 14:00 hrs**

2. Sealed quotation addressed to **Deputy General Manager – Materials, BEML Limited, Palakkad Complex, Kinfra Park, Menonpara Road, Kanjikode, Palakkad-678 621** should be sent by registered post / courier so as to reach this office by **due date and time**. No responsibility will be taken for postal or non-delivery/non-receipt at tender documents. Quotation sent by fax will not be considered.
3. Please super-scribe our enquiry number and due date of tender on sealed cover.
4. The offer should be for AMC of Emission Monitoring mentioned in the scope of work. The break up rate for AMC of Emission Monitoring may also submit. Service tax if any may be quoted extra.
5. The offer should be valid for 90 days from the date of opening of tender.
6. Right of BEML: BEML reserves to itself the right to accept or reject any quotes either in full or in part or to reject all the offers without assigning any reasons whatsoever.
7. The firm shall arrange all necessary tools / materialrequired.
8. The firm shall be ready to work on Sundays & general holidays if need arises.
9. The firm shall take necessary pass for their employees to enter the factory premises (work spot).
10. The firm shall declare all their items that are returnable at our security and obtain necessary pass.
11. The firm shall arrange ESI & PF coverage to their employees / labourers if any from their end and issue Photo identity cards with ESI/PF numbers.

12. The firm shall indicate ESI numbers of all the labourers hired or employees in advance in order to prepare work permit inside the factory.
13. BEML will not have any kind of binding towards compensation in case of injury / death to the firm's employees while working in BEML premises or otherwise.
14. The firm shall make its own arrangement for boarding & lodging. However, during working hours within factory, they can avail our canteen facility at cost.
15. BEML will not have any binding on damages or loss to the tools, meters etc., brought by the firm for commissioning purpose.
16. The firm shall arrange general insurance to their equipment and tools wherever necessary.
17. The firm shall arrange to bring their own safety gadgets.
18. The firm's personnel shall not carry any objectionable material like explosives, cell phones, battery-operated instruments, weapons etc., knowingly or unknowingly.
19. The employee of the firm shall follow general rules, regulations & disciplinary instructions of BEML Ltd.
21. The firm shall arrange to bring necessary tools/ Equipments/ safety gadgets for carrying out AMC.
22. It is the firm's responsibility to make good/repair if any damages happen to BEML Equipment while working.
23. Payment terms: The Payment will be done on monthly basis subjected to the satisfactory submission of test reports & Bills and certification by User Dept.
24. Despatch terms: FOR, BEML Palakkad complex

### **SCOPE OF WORK**

1. The firm shall carry out the test at BEML site according to the convenience of BEML Ltd, Palakkad Complex.
2. The firm shall be authorized by Kerala State Pollution Control Board to conduct emission analysis for DG sets, Shot blasting & Paint booth facility. **The copy of proof (valid) shall be produced along with quotation.**
3. The emission test/ analysis shall be carried out in 550 KVA DG sets, Shot blasting facility, Paint booth facility & Pre-treatment plant installed at BEML Ltd, Palakkad Complex.
4. The contract is for **ONE** year from the date of release of purchase order. The firm shall carry out emission analysis on monthly basis & submit **Two** copies of reports on monthly basis to BEML.
5. The following are the details of emission test parameters are to be measured.
  - 5.1 Shot blasting facility (5 nos of stacks)**  
Temperature, Velocity of emission, Volume of emission, Particulate matter.
  - 5.2 Paint booth facility (2 nos of stacks)**  
Temperature, Velocity of emission, Volume of emission, Particulate matter.
  - 5.3 Diesel Generator sets (2 nos of DG sets)**  
Temperature, Velocity of emission, Volume of emission, Particulate matter.  
Sound level inside the DG set & Sound level 1 meter outside the DG set.

#### **5.4 Ambient Sound level measurement**

Ambient sound level during day time, Ambient sound level during night time.

#### **5.5 Ambient Air**

Suspended Particulate Matter.

12 parameters as per NAAQS 2009 standard.

Sulphur Dioxide (SO<sub>2</sub>) in µg/m<sup>3</sup>, Nitrogen Dioxide (NO<sub>2</sub>) in µg/m<sup>3</sup>, Particulate Matter (size less than 10µm) in µg/m<sup>3</sup>, Particulate Matter (size less than 2.5 microns) in µg/m<sup>3</sup>, Ozone (O<sub>3</sub>) in µg/m<sup>3</sup>, Lead (Pb) in µg/m<sup>3</sup>, Carbon Monoxide (CO) in mg/m<sup>3</sup>, Ammonia (NH<sub>3</sub>) in µg/m<sup>3</sup>, Benzene (C<sub>6</sub> H<sub>6</sub>) in µg/m<sup>3</sup>, Benzo Pyrene particulate phase only in ng/m<sup>3</sup>, Arsenic (As) in ng/m<sup>3</sup>, Nickel (Ni) in ng/m<sup>3</sup>.

#### **5.6 Pre-treatment facility (1 no of stack)**

Temperature, Velocity of emission, Volume of emission, Particulate matter, Hydrochloric Acid.

6. The report shall consist of KSPCB allowable limit, measured value etc.
7. The payment will be done on monthly basis subjected to the satisfactory submission of test reports & bills.
8. The firm shall arrange all necessary tools/ meters/ equipments needed for emission testing.
9. The firm has to engage sufficient manpower for the work.
10. The employees of the firm shall obtain necessary pass from Maintenance/ Security department by following BEML rules before commencement of work.
11. All the items supplied/ brought by the firm shall be entered in BEML main security gate by producing proper delivery challans/ documents as per the rules of BEML.
12. The firm has to abide all the safety instructions given by BEML from commencement of work to end of work without fail.
13. The firm has to provide all the Personal Protective Equipments (PPEs) related to safety to their employees. Firm shall be sole responsible for any type of accident occurs while executing the work. BEML shall not hold any responsibility for such accidents.
14. The firm shall make its own arrangement for boarding & lodging for their employees.
15. The employees of the firm can avail the canteen facility if required during the working hours on actual chargeable basis as per the BEML rules.
16. The employee of the firm shall follow general rules, regulations and disciplinary instructions of BEML.
17. The firm shall submit the quotation as per the BOQ given below.

Thanking You,

For BEML Limited  
Palakkad Complex

Authorized Signatory

### Bill of Quantity

Sl. No	Description	Parameters to be tested	No. of locations	Qty for 1 year	Freq.	Amount for One year (Rs.)
1	Shot blasting facility	Temperature, Velocity of emission, Volume of emission, Particulate matter.	5 nos of stacks	60 nos	Monthly	
2	Paint booth facility	Temperature, Velocity of emission, Volume of emission, Particulate matter.	2 nos of stacks	24 nos	Monthly	
3	Pretreatment plant	Temperature, Velocity of emission, Volume of emission, Particulate matter, Hydrochloric Acid.	1 no of stack	12 nos	Monthly	
4	550KVA DG sets	Temperature, Velocity of emission, Volume of emission, Particulate matter	2 nos of Stacks	24 nos	Monthly	
5	550KVA DG sets	Sound level inside the DG set & Sound level 1 meter outside the DG set	2 nos of DG sets	24 nos	Monthly	
6	Ambient Sound level measurement	Ambient sound level during day time, Ambient sound level during night time.	1 Location	12 nos	Monthly	
7	Ambient Air	Suspended Particulate Matter.	1 Location	12 nos	Monthly	
8	Ambient Air quality	12 parameters as per NAAQS 2009 standard	1 Location	2 nos	Half yearly	
Total Amount Rs						
GST						
Gross Total Rs						

**Note: 1. L-1 will be considered for the total value.**

**(Signature of the firm with seal)**