



# भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

(शिक्षा मंत्रालय का एक स्वायत्त संस्थान, भारत सरकार के अधीन)

सैक्टर-81, नॉलेज सिटी, पो.ओ. मनौली, एस.ए.एस. नगर, मोहाली, पंजाब-140306

**INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH MOHALI**

(Established By Ministry of Education, Govt. of India)

Sector-81, Knowledge city, PO-Manauli, SAS Nagar Mohali-140306, Punjab



**Tender Form Cost- Rs. 590/-**

**Tender Ref. No.: IISER/EE-EO/22-23/AMC-7**

**Date: 06.01.2023**

## Notice Inviting Tender

1. The Executive Engineer on behalf of the Director, IISER Mohali, invites online bids under two bid system i.e. technical bid and financial bid through E- Central Public Procurement Portal i.e. <https://eprocure.gov.in/eprocure/app> from eligible contractor for the work mentioned below.

<b>Name of work</b>	<b>:- AMC for DG sets of Cummins and Kirloskar make at IISER Mohali, Sector-81, SAS Nagar, Mohali- reg.</b>
<b>Tender Ref No</b>	: IISER/EE-EO/22-23/AMC-7
<b>Estimated cost</b>	: INR 6,46,015/- Inclusive GST
<b>Earnest Money</b>	: INR 13,000/-
<b>Stipulated period of work</b>	: Twelve (12) months, which can be extended for further a period of two years (1+1) on satisfactory performance by the agency and mutually consent on same rates and terms & conditions.

## Critical Date Section

S. No	Particular	Date	Time
1.	Tender publishing date and time	06.01.2023	06:55PM
2.	Tender documents download start date and time	06.01.2023	06:55PM
3.	Bid submission start date and time	06.01.2023	06:55PM
4.	Bid submission end date and time	14.01.2023	03:00PM
5.	Technical bid opening date and time	16.01.2023	10:00AM

1. Technical document and price bid may be downloaded from the website of E-Central Public Procurement portal (<https://eprocure.gov.in/eprocure/app>) and [www.iisermohali.ac.in](http://www.iisermohali.ac.in) . Quotation should be submitted online along with valid documents of eligibility criteria within the date mentioned above.
2. The Director, IISER Mohali shall be the “Accepting Authority” hereinafter referred to as such for the purpose of this contract.
3. For any information, other modifications and/or corrigendum may kindly visit IISER Mohali website <http://www.iisermohali.ac.in> and also publish on <https://eprocure.gov.in/eprocure/app>.

### **SUBMISSION OF Quotation:**

Quotations shall be submitted by the Bidders in two parts:

**(i) Technical Bid. – Cover I (ii) Financial Bid. - Cover II**

The two bid system will be followed for this tender. In this system the bidder must submit bid **on line at E-Procurement Portal( i.e. <https://eprocure.gov.in/eprocure/app>)** his offer in two covers. "**Cover No. 1- Technical Bid along with requisite fee details and all forms under seal and signature of Bidder**" mentioned below and "**Cover No.2 - Financial Bid**" respectively.

The **Cove I** (Technical Bid) shall consist of following:

- i) **Earnest Money** -The bidder shall furnish as part of its bid, an EMD of Rs.13,000/- (Rupees thirteen thousand hundred only). The EMD is to be submitted through Demand Draft of any Scheduled / Nationalized Bank (drawn in favour of “Registrar, IISER, Mohali”).
- ii) **Cost of Tender Form** - The Cost of Tender Form Rs.590/- (non refundable)is to be submitted through Demand Draft of any Scheduled / Nationalized Bank (drawn in favour of “Registrar, IISER, Mohali”).

**Note** - The original payment instrument like Demand Draft of any Nationalized Bank against Earnest Money and Cost of Tender Form sent to the address- **IISER Mohall, Sector-81, knowledge City, PO- Manauli, SAS Nagar Mohal1140306, Punjab** by post/speed post/courier/by hand before bid opening date & time

iii) **Important Documents uploads in .pdf format only:-**

- a) Scanned copy of DD of EMD. MSME certificate in lieu of DD has to be relevant to the work.
- b) Scanned copy of IT Return for the last three financial years.
- c) Scanned copy of PAN and GST
- d) Scanned copy of work experience.
- e) Scanned copy of OEM/Original Service Provider/Authorized dealers of OEM M/s Cummins
- f) Scanned copy of Tender Accept Letter

**The Cover II** (Financial Bid) shall consist of following:

- \* Schedule of price bid of in the form of BoQ\_XXXXX.xls (Will be formulated according to the type of work)

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Executive Engineer  
Head IWD, IISER Mohali

### **AMC of DG sets at IISER-M**

Indian Institute of Science Education & Research (IISER) Mohali intends to engage an established, experienced and reputed consultant for providing AMC for DG sets at IISER-Mohali, Sector-81, SAS. You are, requested, to submit your most competitive offer on line by uploading documents entailing list of similar completed works in last seven years, average annual turnover in last three years, EMD for Rs.13,000/- favouring Registrar IISER Mohali and tender fee Rs.590/- payable at Mohali, latest by 16.01.2023 to 10:00AM.

### **ELIGIBILITY CRITERIA:**

1. The eligibility criteria for undertaking the work will be as follows:
2. Only OEM/Original Service Provider/Authorized dealers directly of OEM M/s Cummins as per the CPWD manual are eligible to apply.
3. Definite Proof from appropriate authority, which shall be to the satisfaction of the competent authority of the Institute having satisfactory provided AMC during last seven years ending March 2019 for works as given hereunder:- a). Two similar works each of value not less than Rs.3.88 Lakh/- (60% of tender value) or ( b). One similar works having value not less than Rs.5.17 Lakh (80% of tender value). Valid Pan Number.
4. The Agency should also submit a copy of the partnership deed if any and power of attorney duly Attested and countersigned by the agency at the time of application.
5. Proof of average annual gross financial turnover during Financial Year 2019-20, 2020-21, 2021-22 duly certified by Chartered Accountant. Regd/Branch Office in Punjab/Chandigarh for last 3 years.
6. Quotations to be downloaded from web site [www.iisermohali.ac.in](http://www.iisermohali.ac.in) / [www.eprocure.gov.in](http://www.eprocure.gov.in)
7. Quotations received telegraphically will not be entertained.
8. Conditional tenders and tenders received without earnest money and after due date will be rejected straightway.
9. The amount of earnest money may be deposited in the shape of deposit at call receipt of any scheduled bank payable at Mohali in the name of the Registrar, IISER Mohali
10. The undersigned/committee on the behalf of Director, IISER-M reserves the right to accept/reject any or all the tenders without assigning any reasons.
11. All disputes concerning in any way with this tender are subjected to Mohali Court Jurisdiction only.

## **HOW TO APPLY & SELECTION CRITERIA**

The e-tender shall be received by the undersigned by 1500 hrs on 14.01.2023 (14<sup>th</sup> day of January 2023). Eligibility related documents shall be evaluated for criteria stipulated at Sr No 1 of eligibility criteria and agencies will accordingly be qualified/disqualified by the Competent Authority. The financial bid of qualified quotationer shall then be decripted at notified time, date and place. The rates of each items must be quoted in figures and words.

## **TERMS AND CONDITIONS FOR AMC OF DG SETS**

### **FOR THE CONTRACTOR:**

#### **SPECIFIC TECHNICAL REQUIREMENTS FOR CUMMINS DG SETS:**

- Service engineer shall carry out "B", "C" & "D" checks on the engine, as per the check list and would correct / recommend / suggest improvement in operation and performance.
- To carry out / advise necessary repairs, adjustments of assemblies, sub-assemblies in order to keep the DG set in good working condition and assuring the trouble free performance of DG set.
- If the B check maintenance is due and consumables are arranged by customer, engineer shall carry out the B check maintenance. It is therefore advised that contractor should inform the customer either in writing or verbal as soon as engine clocks 225 - 250 hrs or as per the maintenance norms of the engine models or after 5 months, which-ever is earlier from the previous "B" check so as to ensure timely maintenance of the engine.

#### **SPECIFIC TECHNICAL REQUIREMENTS FOR CUMMINS DG SETS:**

To service the engine after every 250 hrs or six months whichever is earlier, as per discretion of IISER.

## **CONTRACTOR RESPONSIBILITY FOR ALL DG SETS:-**

- Service engineers to visit the site once in a quarter, totalling to four visits per year. The schedule of visits can be mutually decided. Agency to provide unlimited breakdown services, if required.
- Service engineer will carry scheduled preventative maintenance checks on Diesel Generating Sets as per the standard check list prescribed by the OEM.
- Replace minor parts (i.e. Hoses and filters etc), sub-assemblies as and when required from customers stock.
- Service Engineer during the visit will report on the performance or any other abnormality and inform parts requirement, shall also submit the report on work done and recommendations as well as spare parts offers to concerned authority for procurement.
- After completing the check the technician has to submit a complete report regarding the DG performance and status on a standard format, duly signed.
- Attend emergency calls on priority (usually same day) within 4 hours of informing regarding the breakdown. However, if the engineer is required for any particular date and time, it would be the responsibility of the customer to intimate the contractor in advance.
- Supply parts required for emergency on priority with customer's approval.
- Train the customer's representative on Operation and Maintenance of DG sets.
- To per-intimate customer on engine repairs and overhaul requirement based on engine performance parameters.
- Service Contract will automatically cease to exist in the event of change of ownership or location of the above- mentioned engine/s from said location.
- Checking of Battery specific gravity ,acid level once in a quarter and top with distilled water if required. (Applicable for lead acid Battery).
- Checking charging alternator output voltage with respect to specifications.
- To check the condition of Diodes/ rotating rectifier assembly once every quarter.
- Checking of all electrical connections for its proper tightness including charging Alternators and battery clamps.
- Engine Panel / PCC, Alternator will be covered in AMC.
- Labour for replacement of filters,engine oil,coolant,any other minor parts,consumables,cleaning etc are included in the AMC contract.
- Correction of engine alternator alignment & replacement of rubber inserts/block if broken.
- Replacement of all seals/gaskets, except cylinder head gaskets.
- Removal and fitment of PT pump and injectors for calibration.
- Fitment of safety control and gauges.

- Correction of valve and injector setting, if required.
- Checking and adjustment of all belts & fitment of all hoses.
- Cleaning of turbocharger diffuser and impeller, checking of endplay and other items.
- Removal & fitment of water pump.
- Removal and fitment of turbocharger from engine for repair.
- Checking of endplay of crankshaft & acc. Drive if required.
- Checking of turbo boost, exhaust temperature, if required.
- Removal and fitment of heat exchanger & LTA kit, if reqd.
- Removal and fitment of vibration damper.
- Checking/replacement of rubber coupling and coupling bolts.
- Cleaning of alternator with blower once in every two quarters.
- Checking/tightening of AVR connections and replace, if required.
- Measurement of IR Value of alternator once in a year.
- Checking and tightening of mounting bolts, output connections.
- Checking/replacement of rubber coupling and coupling bolts.

**CUSTOMER RESPONSIBILITY FOR ALL DG SETS:-**

- For Cummins DG set, to carry out the daily A Check which comprises operation of the set after checking oil, coolant levels every day and ensure maintenance of proper logbook, and equivalent checks for the Kirloskar DG sets. Record of logbook will be made available to service engineer during his visit.
- To use the trained man-power and the operation of the DG set / engine within the recommended parameters would be the customer responsibility. If customer observes any discrepancies, DG should not be operated and inform to the contractor for resolution.
- To procure the spares as recommended by service engineer from authorized dealer /authorized Cummins Source and should be original.
- To provide consumables, spares, fuel, cleaning material like cloth and unskilled labour if required.
- To follow Cummins and Kirloskar Maintenance & Operation recommendations.
- Engine should be run in electrical mode.

- To acknowledge the work done by service engineer during his visit by signing the service report and can also put your remarks in customer column.
- To keep the DG set and its room neat & clean.
- To maintain log book which documents DG parameters like engine, alternator, load details and fuel and oil consumption. If any changes in the parameters are recorded, intimate to the contractor immediately.
- To stock/procure the maintenance consumables recommended.
- Not to allow any unauthorized person to carryout repair/maintenance of the engines.
- To ensure quality of engine input like air, fuel, lubricating oil and coolant.
- To ensure that average load factor on the DG set does not go beyond 70 to 80 on DG set.
- Procurement of recommended genuine lube oil and other consumables / spares would be the responsibility of the end user, should be procured from OEM authorized source and the contractor would not be responsible for break- down due to bad quality / non genuine spares.
- Repairing of water pump, turbo charger, acc. Drive, after cooler, self-starter, battery charging alternator, main alternator, calibration of electronic controller, injectors, PT pump, cleaning/descaling of radiator/heat exchanger/coil cooler/Diesel tank and replacement of alternator bearing are separately chargeable to the customer.
- Synchronization panel, Distribution panel, PLC Panel, breakers etc repair/ maintenance/ troubleshooting are not under scope of the AMC contract.
- Major overhauling / *top* overhauling /PT Pump & Injectors calibration / replacement of major parts / rewinding of Alternator or repairs on breakdown of the DG set/DG health checkup are not in scope of AMC. In case of the engine contract, the alignment is charged extra. Alternator bearing greasing is not in the scope. All these works are separately chargeable to the customer.
- To ensure the safe working environment for the service personnel.
- To provide first-aid assistance to the representative of contractor in the event of injury

### **TERMS AND CONDITIONS:**

- IISER will provide the safe working conditions for the DG sets at any point of time, the same if not found safe to work, risking lives, the contract will get terminated on its own.
- IISER will procure / use the genuine spare parts, should the same is not followed contract would not be valid and the contractor in what so ever kind, would not be responsible

### **OTHER TERMS AND CONDITIONS:**

- IISER will provide the safe working conditions for the DG sets at any point of time, the same if not found safe to work, risking lives, the contract will get terminated on its own.
- IISER will procure / use the genuine spare parts, should the same is not followed contract would not be valid and the contractor in what so ever kind, would not be responsible.
- The firm should send only trained and qualified technicians to carry out the AMC work. IISER will not be responsible for any death/injury or any type of loss to the said manpower during the execution of AMC related jobs.
- The firm should ensure that the DG set operates in a safe environment and should lay full emphasis on standard safety practices and guidelines of the manufacturer on safety and maintenance.
- The AMC is for a period of one year and further extendable for one plus one year on mutual consent. The quoted rates and terms & conditions shall remain firm during the AMC.

### **PAYMENT**

- Payment on quarterly basis after end of each quarter on pro-rata basis.
- 5% security amount would be deducted from each quarterly bill, which will be refunded at the end of each year of AMC.
- The rates shall remain the same for the initial and further extendable period of two years (1 + 1), if mutually agreed upon.

### **PENALTY:**

The agency will have to attend any breakdown call within four hours of intimation during working hours and by the beginning of the next day if intimated after office working hours, otherwise penalty @ Rs. 1000/- per day of down time will be levied. The same applies in case of a major fault or overhauling, if it is not rectified within the promised time frame and the DG is not made working within this period. The agency will have to ensure that all necessary spare or replacement parts arrive on time to the site to make the DG working in time. Maximum penalty is limited to 10% of the contract value.

**EXCLUSION:**

Any major repairs (as listed above) which are not covered under the scope of AMC, will be paid extra.

In addition to above Quarterly visits, carried out on each DO, the contractor shall be providing unlimited breakdown visits on demand during the contract period. However the contractor response time should be 30 minutes, and the site attending time should be within 04 hours.

The cost of the parts required from time to time shall be borne by the IISER during the contract period. The prices of parts would be charged as per the ruling prices.

The labour charges for repairs of components like PT Pump, Injectors, Cylinder Head, Radiator, Turbocharger and any other major component shall be charged extra also does not include top overhauling & major overhauling in the scope of Annual Maintenance Contract.

D-Check activity will also not be covered under the contract.

In case of synchronization panel and PLC panel, the same is not in the scope of contract.

The repair and maintenance of acoustic enclosures, fuel tank and fuel gauges and cooling tower will not be in the purview of the contract.

Loading unloading and shifting charges to be extra.

**FORCE MAJEURE**

Contractor shall be liable to perform of its obligations under or arising out of this contract. if such failure does not result from any force major, act of God, fire, industrial disputes, labour trouble, transportation embargo, existence of any state of Emergency, war, war like conditions, civil commotion, riot, inability to obtain any material, imposition of sanction and / or any measures taken by the Govt. what so ever which rendered it impossible or impracticable for the contractor to perform obligations under this contract.

**TENDER ACCEPTANCE LETTER**  
(To be given on Company Letter Head)

Date:

To,

Executive Engineer  
IISER Mohali

Sub: Acceptance of Terms and Conditions of Tender.

Tender Reference No.: **IISER/EE-EO/22-23/AMC-7**

**Name of Tender/Work :-** AMC for DG sets of Cummins and Kirloskar make at IISER, Sector-81, SAS Nagar, Punjab.\

Dear Sir

1. I/We have downloaded/obtain the tender documents(s) from the above mentioned Tender/Work from the website(s) namely: as per your advertisement, given in the above mentioned website(s).
2. I/We hereby certify that I/We had read the entire terms and conditions of the tender documents (including all documents like annexure(s), schedule(s), etc.) which form part of the contract agreement and I/We shall abide hereby by the terms/conditions/clauses contained therein.
3. The corrigendum(s) issued from time to time by your department/organization too have also been taken into consideration, while submitting the acceptance letter.
4. I/ We hereby unconditionally accept the tender conditions of above mentioned tender document(s) in its totality/entirety.
5. In case any provision of this tender are found violated, then your department/organization shall without prejudice to any other right or remedy be at liberty to reject this tender/bid including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,

(Signature of the bidder, with official seal)