

**INSTITUTE WORKS DEPARTMENT  
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE**

No. IWD/E-Tender/95

Dated: July 27 , 2024

**REQUEST FOR PROPOSAL (RFP)**

For

**Development of IoT-based system, Source Segregation, Door to Door Collection, Transportation & Disposal of Waste in segregated form, from East ward, IIT Roorkee**

On behalf of BOG, I.I.T. Roorkee invites Request for Proposal (RFP) through e-procurement portal for selection of an agency for “**Development of IoT-based system, Source Segregation, Door to Door Collection, Transportation & Disposal of Waste in segregated form, from East ward, IIT Roorkee**” in two Bid system (1. Technical 2. Financial) from competent, experienced and resourceful contractors of CPWD/ PWD, State Municipal Corporation, Nagar Nigam, Nagar Palika Cantonment Board, PSU’s of State/Central Government or having experience of working in Central/State Government, Public Sector undertaking/ Autonomous Organization of the Central/State Government and Working Contractor of IITR for the work detailed below:

Name of the Work	Estimated Cost (Approx.)	Completion Period (Months)
“Development of IoT-based system, Source Segregation, Door to Door Collection, Transportation & Disposal of Waste in segregated form, from East ward, IIT Roorkee”	Rs. 48.63 Lakhs	Initially for 12 months and can be extended up to 5-Years on the basis of performance

Intending bidders are advised to visit IIT Roorkee website [www.iitr.ac.in](http://www.iitr.ac.in) ([https://www.iitr.ac.in/administration/pages/Tenders\\_EOI.html](https://www.iitr.ac.in/administration/pages/Tenders_EOI.html) ) and Central Public Procurement Portal (CPPP) <http://eprocure.gov.in/app> regularly till closing date of BID submission of tender for any corrigendum / addendum/ amendment.

**Critical Data Sheet**

Sr. No.	Name of Organization	Indian Institute of Technology Roorkee
1	Tender Type (Open/ Limited/ EOI/ Auction/ Single)	Open
2	Tender Category (Services/ Goods/ Works)	Services
3	Type/Form of Contract (Work/Supply/ Auction/ Buy/ Empanelment/ Sell)	Work Contract
4	Product Category (Civil Works/Electrical Works / Fleet Management / Computer Systems)	Garbage collection & disposal
5	Date of Issue/ Publishing Original Tender	27.07.2024 (18:00 hrs)
6	Document Download / Sale Start Date	29.07.2024 (18:00 hrs)
7	Seek Clarification Start Date	29.07.2024 (15:30 hrs)
8	Seek Clarification End Date	07.08.2024 (15:30 hrs)
9	Pre-bid Meeting	08.08.2024 (15:30 hrs)
10	Bid Submission Start Date	09.08.2024 (15:30 hrs)
11	Bid Submission Closing Date	19.08.2024 (15:30 hrs)
12	Bid Opening Date	20.08.2024 (15:30 hrs)
13	Tender Fee	Tender fee of <b>Rs. 1180 (Rs. 1000 Tender Fee + Rs. 180 18% GST Extra)</b> (Non-refundable) in the form of RTGS/NEFT transfer to IIT Roorkee Account No: <b>00000032685865515</b> , Account Name – NON MHRD GOVERNMENT FUND IIT ROORKEE, State Bank of India, Branch, IIT Roorkee, IFS Code: SBIN0001069, MICR Code:247002094 and copy of the deposit receipt shall be uploaded on e-tender.

		Or NSIC/ MSE certificate comprising relevant category of work should be uploaded for tender fee and EMD Exemption. Also, the bidder has to submit an undertaking regarding Bid Security Declaration as per Annexure-II.
14	EMD	<b>Rs. 97,000/- (Ninety-Seven Thousand Rupees only)</b> Payment of EMD can be made by RTGS, NEFT in below mentioned account No. The bidders shall be required to upload the scanned copies of transaction of payment of tender EMD including e-receipt (clearly indicating UTR No. & Tender Reference i.e. RFP No. must be entered in the remark at the time of online transaction of payment, failing which payment may not be considered) at the time of online bid submission on e-tendering website. Tender fee /EMD may be submitted on line as per details given below. 1. Account Name- NON MHRD GOVERNMENT FUND IIT ROORKEE. 2. Address- IIT Roorkee, Haridwar. a. Account No.- 00000032685865515 4. Account Description- Regular SB Chq-Entities. 5. Branch- IIT Roorkee 6. CIF No- 86531323246 7. IFS Code- SBIN0001069 8. MIC R Code- 247002094 Or NSIC/ MSE certificate comprising relevant category of work should be uploaded for tender fee and EMD Exemption. Also, the bidder has to submit an undertaking regarding Bid Security Declaration as per Annexure-II.
15	Performance Guarantee (5%)	<b>5%</b> of awarded value in form of Bankers Cheque / DD / FDR / Bank Guarantee duly pledge in the name of Institute Engineer, IIT Roorkee after issue of Letter of Acceptance (LOA).
16	Security Deposit (5%)	<b>5 %</b> of awarded value shall be submitted in the form of Bankers Cheque / DD / FDR / Bank Guarantee duly pledge in the name of Institute Engineer, IIT Roorkee after issue of Letter of Acceptance (LOA).
17	No. of Covers (1/2)	02 (Cover-1 for Technical+ Cover-2 for Financial)
18	Bid Validity Days (180/120/90/60/30)	120 days (from last date of opening of financial bid)
19	<b>Price Bid</b>	To be uploaded only on CPP Portal ( <a href="http://eprocure.gov.in/eprocure/app">http://eprocure.gov.in/eprocure/app</a> ) in excel sheet.
20	Address for submission of documents or other communication.	<b>Institute Engineer, Institute Works Department, James Thomason Building, IIT Roorkee, Roorkee-247667 (India), Tel. No. 01332-285266</b>
21	Email Address	<a href="mailto:ie@iitr.ac.in">ie@iitr.ac.in</a> / <a href="mailto:nepalaad@iitr.ac.in">nepalaad@iitr.ac.in</a> / <a href="mailto:jitendra.ace@iitr.ac.in">jitendra.ace@iitr.ac.in</a>

## 1. Eligibility criteria.

- JVs / Consortiums are not eligible to participate in this RFP.
- Documents regarding legal status of firm and written power of attorney of the Authorized signatory.
- Tender Fee & EMD.
- Past Experience: Satisfactorily completed work (or ongoing work for at least 2 years) of Source Segregation, IoT based Door to Door Collection, Secondary Collection & Transportation of Waste (C&T) including PMC or other roles of similar capacity, including monitoring Door-to-Door garbage collection through RFID Tags/QR Code/NFC Technology/Any IOT technology and assisting ULB in execution of project by providing consultancy and implementation support for setting up and running MRFs, Micro Composting Units, devising Strategy for IEC & Swachh Sarvekshan etc. One project not less than 10 Metric Tons / Day or two projects not less than 5 Metric Tons/Day or three project not less than 3 Metric Tons/ Day.
- Notarized Undertaking as per the tender document.
- Should have achieved an Average Annual Turnover during FY 2020-21, 2021-22 & 2022-23 should be at least **50%** of estimated cost during the immediate last 3 consecutive Financial Year. Scanned

copy of Certificate from **CA with valid UDIN** to be submitted with technical bid. (The Financial turnover is the total financial turnover of the bidding company / organization / Bidder from any activity.)

- g. GST registration certificate.
- h. PAN.
- i. Copy of ESIC registration certificate
- j. Copy of EPFO Registration certificate
- k. Bank Solvency Certificate not less than 40% of the estimated cost of the work issued by a scheduled bank which is not more than 1-year-old from the last date of tender submission (including extension time).
- l. Documents as required in Bid Evaluation Process at Annexure-B

2. The Bidders should submit along with the proposal, all relevant documents to establish their eligibility and also for meeting Eligibility-cum-Qualification Criteria.

The Bidder shall also submit Overall Approach & Methodology for undertaking the Project, which shall include —

- a. Technical Approach and Methodology, including assumptions in development of the primary collection system, storage system and transport system.
- b. Approach for addressing the issues of equipment replacements in view of wear and tear and augmenting the capacities in line with the rising waste loads.
- c. Organization and Staffing,
- d. Assessment of Risk and mitigation plan
- e. Approach towards community awareness and participation; capacity building among the workers, etc.

**\*Note:**

- a. In the interest of Project, Institute may seek confirmation regarding any modification for consideration in case of award of contract without any additional financial implication for IIT Roorkee.
  - b. Institute reserves the right to cancel any or all tenders without assigning any reason.
3. Tender is invited initially for **one year** however it will be extended year to year basis maximum up to **five years** subjected to the performance of the bidder. However, the renewal of contract on the same terms & condition, shall be done with the approval of competent authority and contract bond shall be assigned on yearly basis. After renewal of the contract bond, bidder has to deposited all the requisite documents like security deposit, performance guarantee insurance, performance report, any other document etc. as required by the department.

**\*Note:**

- a. **If any information furnished by the bidder is found as false/fabricated then his/her bid will be rejected and treated as cancelled, even if the same is detected at any stage of the contract and would lead to termination of the contract beside forfeiture of EMD /Security deposit or both and liabilities towards prosecution under appropriate law.**
- b. Each Page of the bid document shall be signed and stamped by the bidder or Authorized Signatory.

**List of Documents to be enclosed up to the last date and time mentioned above in Cover-2 (Financial Bid):**

1. Duly filled in priced BOQ (Part B- Financial Bid).

Kindly note that no physical submission of duly filled in BOQ is required and it is to be uploaded only on e-tendering website.

**-Sd/-  
Institute Engineer,  
IWD, IIT Roorkee.**