

Expression of Interest (EoI) for “Integrated Framework for the Prevention, Early Detection, and Automated Mitigation of Spontaneous Combustion in Coal Stockpiles at mine pit heads and railway sidings ”

A. Introduction:

Central Mechanical Engineering Research Institute (CMERI), a Constituent Laboratory of CSIR is currently involved in a system development project entitled “Integrated Framework for the Prevention, Early Detection, and Automated Mitigation of Spontaneous Combustion in Coal Stockpiles at mine pit heads and railway sidings.”

Large sized mechanical structures need to be fabricated and erected in coal stack yards/ railway sidings in this project. The structures are to be fitted with water sprinklers/ cannons. The sprinklers/ cannons are to be connected through pipes to a fire pump or similar at a far end of the yards/ sidings. A critical wireless communication system needs to be set up and regularly maintained in the coal stack yard/ railway sidings for smooth operation and constant monitoring. The entire work is deemed to be offloaded. The non-comprehensive maintenance/support of this system will also be carried out by the vendor/ technical service provider by visiting different coal stack yards/ railway sidings across various mines under ECL/ BCCL/ CCL etc. The technical service provider should have the knowledge in the field of civil and mechanical structure fabrication, erection, maintenance and plumbing. They should further have experience in setting up and maintaining communication networks/ infrastructures.

Through this Expression of Interest (EoI), CSIR-CMERI intends to identify technically competent and suitable vendors/developers/fabricators capable of undertaking the above-mentioned customized development.

Based on the technical evaluation of the responses received, only the technically suitable participants will subsequently be requested to submit their budgetary offers later on as and when required basis.

The EoI is therefore intended solely for the identification and shortlisting of technically suitable vendors/developers/fabricators for the proposed system development and does not constitute a commitment for award of work.

B. Eligibility

The Maintenance /support vendor cum consultant must have at least one year of experience in wireless cellular communication maintenance, mechanical assembly integration and civil infrastructure development.

C. Scope of Work:

C.1 CSIR-CMERI:

- Intimation of requirement of fabrication/ setting up of Infrastructure.
- Intimation of requirement of maintenance/support to the vendor.

- Preparation of necessary design, system architecture, layout/ plan and specifications
- Preparation of manufacturing drawings, if any
- Preparation of Bill of Materials (BoM) with detailed specifications of the components
- Signing a NDA/ MoU with the identified vendor/ service provider
- Handing over the design, layout, drawings, BoM etc. to the vendor
- Minor technical support, assistance and training to the selected vendor
- Coordinating with CMPDI, Ranchi and ECL/ BCCL/ CCL for smooth execution of the work

C.2 Vendor/Service Provider:

- Fabrication/ setting up of Civil, Mechanical and Communication infrastructure, whichever is required
- Providing non-comprehensive maintenance/support including minor modifications (which do not involve any design alterations/ changes) by visiting different ECL/ BCCL/CCL collieries.
- Providing price estimation at the beginning of any fabrication or maintenance activity.
- Providing competent technical/ non-technical manpower for conducting the Maintenance/support (including minor updates/ modifications as needed from time-to-time).
- Signing of a NDA with CSIR-CMERI (as per attached Annexure- 8) and CMPDI, Ranchi/ ECL (as the case may be) to protect confidential information exchanged with them.
- Following a tentative Support plan (as will be set up by CSIR-CMERI)
- Providing Maintenance/support report in hard copy along with all soft copies, if any to CSIR-CMERI and CMPDI, Ranchi/ ECL.

D. Qualification Criteria

Each eligible **vendors/ developers/ fabricators** should possess all the following pre-qualification criteria. Responses not meeting the minimum pre-qualification criteria summarily will be rejected and will not be evaluated.

Sl. No.	<u>Pre-Qualification Criteria</u>	<u>Compliance Documents</u>
1.	The Firms/ Companies/ Societies/ Trusts etc could be any group of specialists/experts in the domain of mechanical fabrication/electronic/electrical integration, assembly integration.	Certificate of Registration of the Firm/ Companies/ Societies/ Trusts, Legal documents i.e. GST certificate, PAN certificate, whichever is/are applicable.
2.	The entity/ firm should be in the business of providing similar mechanical fabrication/electronic/electrical integration, assembly	Certificate by the Competent Authority/ Authorized Signatory of the participating entity, Copy

	integration work for at least 01 years as on 01.08.2026.	of the previous work orders/ contracts.
3.	The entity/firm should not be blacklisted by any Central/ State body or Financial institution/ Bank.	Certificate/Declaration duly signed by the authorized signatory.
4.	The entity/firm should certify no part of the development work/support data generated during the job work will strictly not be shared/reproduced for any R & D or commercial activity	Certificate/Declaration duly signed by the authorized signatory.

E. Selection Criteria

CSIR-CMERI will assign scores to the response of each qualified firm based on weightage assigned to each of the criteria are as under. CSIR-CMERI may request the shortlisted applicants for presentation before expert committee and qualifying marks are 60 out of 100 marks based on the evaluation of the submitted documents. All the applicants who have got the minimum threshold of marks as above will be qualified for deputation titled as non-comprehensive maintenance/ support.

Sl. No.	Criteria	Max. Marks (%)
1	Organization Details (Type of Organization & Main Areas of Business) [[Annexure 2]	30
2	Experience in related fields (Past Experience of the firm/entity) [Annexure-3] Number of years' experience in the field of maintenance and support services (minimum 01 years or more experience in the relevant field.) [01 yr.:10, 03 yr. or more:30]	10-30
3	Experience and Qualifications of the Key Personnel who will be signing the NDA/MoU and responsible for all future actions [Annexure -4] Academic Qualification and Activities carried out in last 1years [Engg. Degree:20, Diploma:15, ITI:10, others:5]	5-20
4.	Financial strength of the organization/ firm/entity[Annexure-5] [1-5 lakhs: 15, 5.1 lakhs and above:20]	15-20
Total		60-100

F. EOI Processing Fee: NIL

G. Venue & Timeline for Submission of Proposal.

Proposal in complete form in all respects as specified in the EOI, must be submitted to:

**The Head,
Business Development Unit (BDU),
CSIR-CMERI Durgapur,
M. G. Avenue, Durgapur-713209
e-mail: bdg@cmeri.res.in
Phone: +91 9474546419**

The Eoi shall be submitted to the following address on or before 5:00 PM of last date of submission during the working days and working hours through E- mail / courier. In exceptional circumstances and at its discretion, CSIR-CMERI may extend the timeline for submission of proposals by issuing amendment to be made available on the website of the institute. CSIR-CMERI reserves the right to modify partially or fully or cancel the Eoi at any time without showing any reason. The decision of CSIR-CMERI in regard to any dispute will be final.

H. Last Date of Submission: September 02, 2026

FORMATS FOR SUBMISSION

Annexure-1

APPLICANT'S EXPRESSION OF INTEREST

To,

The Head,
Business Development Unit (BDU),
CSIR-CMERI Durgapur,
M. G. Avenue, Durgapur-713209

Date:

Reg. Submission of Expression of Interest for Technical & Business Development Consultant

Dear Sir,

In response to the Invitation for Expression of Interest (EOI) published on _____ for the above purpose, we would like to express interest to carry out the above proposed task. As instructed, we have attached the following documents in a sealed envelope:

- i. Organizational Details: Annexure-2;
- ii. Experience in related fields: Annexure-3;
- iii. Experience of Key Personnel: Annexure-4
- iii. Financial strength of the organization/ firm/ entity: Annexure-5;
- iv. Additional Information, if applicable: Annexure-6;
- v. Declaration: Annexure-7.

Yours Truly,

Signature of the Applicant

(Full Name of the Applicant)

Stamp.

Encl. As above

Note: The application is to be submitted on the letterhead of the organization/firm/entity.

Annexure-2

<u>S. No.</u>	<u>Organizational Details</u>	
1.	Name of the Organization	
2.	Main areas of Business	
3.	Type of Organization :Company/ partnership/ LLP	
4.	Whether the entity/ firm has been blacklisted by any Central Government/ State Government/ PSU / Bank/ Financial Institution/ others. If yes, details thereof.	
5.	Address of registered office with contact numbers and contact persons and email address/ es	
6.	Address of Office/s in India	

Signature of the Applicant

(Full Name of the Applicant) Stamp.

Enclosures:

- i) Copy of the Certificate of Incorporation
- ii) Copy of Articles & Memorandum of Association

Annexure-3

Experience in the Related Fields			
Overview of the past experience of the Organization in respects of similar Consultancy Services			
S. No.	Items	Particulars: Number of Assignments/ work- contracts handled/ completed at least during last 01 (one years), Order value of each assigned work contract, Mention the Name of the Customer/ Organization {Enclose copy of each order}	Remarks, if any
1.	Experience& details of work done for providing similar technical and business development consultancy services/ assignments		
2.	Other relevant experiences		
Decision of Evaluating Committee in ascertaining “similar nature” and “similar assignments” will be final. Signature of the Applicant (Full Name of the Applicant) Stamp & Date.			

Annexure-4

Experience of Key Personnel

Overview of the qualification and past experience of the key personnel

Name: Designation: Date of Birth: Qualifications: Experience:

(Activities carried out in last 1 year)

Note: Information regarding more than one key personnel may be provided. They should be on the payroll of the applicant. Separate sheet may be used for each individual. Each individual will be evaluated separately and then average of the all personnel will be taken for final evaluation.

Signature of the applicant

[Full name of applicant] Stamp & date

Annexure-5

<u>Financial Strength of the Organization</u>						
S. No.	<u>Financial Year</u>	<u>Whether Profitable; Yes/ No</u>	<u>Annual Net Profit</u> (Rs. in lacs)	<u>Overall Annual Turnover</u> (Rs. in lacs)	<u>Annual Turnover from Consultancy Services</u> (Rs. in lacs)	<u>Annual Turnover from Other Sources/Services/Business Segments</u> (Rs. in lacs)
1.	2024-25					
2.	2023-24					
3.	2022-23					

Note. Please enclose auditors' certificate/GST returns/IT files in support of your claim.

Annexure-6

Additional Information

1. List all attachments related to the previous sections.

Sl. No.	Description	No. of pages(From-to)

2. Additional information to support the eligibility. (Not more than 2 pages).

Signature of the applicant

[Full name of applicant] Stamp & date

Note: Separate sheet may be used if necessary.

Annexure-7

<u>Declaration</u>
We hereby confirm that we are interested to work with CSIR-CMERI as a fabrication and Maintenance support services (non-comprehensive support) under all categories of scope of work and all the information provided herewith is genuine and accurate to the best of our knowledge. We also confirm that our firm has not been blacklisted or has any litigation or any conflict of interest that may impact on the delivery of the services. Authorized Person's Signature Name& Designation Date: Note: The declaration is to be furnished on the letterhead of the organization.