EOI Ref: CTPAM /CMSE/2024

Date: 29-08-2024

BEML LIMITED, BEML Soudha, 23/1, 4th Main, Sampangiramanagar, Bengaluru – 560027

Notice for Inviting Expression of Interest (Eol) for Technology tie-up for

Continuous Miner & Supporting Equipment

Reference No:	CTPAM/CMSE/2024
Due closing date:	30.09.2024
Eol response mail ID:	bemleoi@bemlltd.in
Contact for Clarifications:	Gp. Capt. Chakrapani Mandela (Retd.), General Manager Corporate Technology Planning & Alliance Management BEML Soudha, BEML Ltd., Bengaluru, Karnataka, INDIA Email: chakrapani.m@bemlltd.in Mobile: +91 9731561710

Issued by

BEML LIMITED

(Schedule 'A' Company under Ministry of Defence, Govt. Of India)

EOI Ref: CTPAM /CMSE/2024

Date: 29-08-2024

SI.No.	Section	Description	
01	Section 1	Disclaimer	
02	Section 2	Schedule of EoI process & contact details	
03	Section 3	BEML's Objective: "Make in India" and Self Reliability	
04	Section 4	Details of Expression of Interest (EoI)	
05	Annexure-1	Indicative Scope of Technology Transfer	
06	Annexure-2	Detailed information sought by the Prospective Collaborator for qualification	
07	Annexure-3	General technical specifications Continuous Miner &	
		Supporting Equipment	
08	Annexure-4	Reference List: The prospective Collaborator's major supplies in last 5 years	

INDEX

Date: 29-08-2024

SECTION-1

Disclaimer

- **1.1** The information contained in this Expression of Interest (EoI) document provided to the Prospective Collaborator, by or on behalf of BEML or any of its employees or advisors, is provided to the Prospective Collaborator on the terms and conditions set out in this EoI document and all other terms and conditions subject to which such information is provided.
- 1.2 The purpose of this Eol document is to provide the Prospective Collaborator with information to assist the formulation of their proposal. This Eol document does not purport to contain all the information each Prospective Collaborator may require. This Eol document may not be appropriate for all persons/Entities, and it is not possible for BEML employees or advisors to consider the business/investment objectives, financial situation and particular needs of each Prospective Collaborator who reads or refers this Eol document. The assumptions, assessments, statements and information contained in this Eol may not be complete, accurate, adequate or correct. Each Prospective Collaborator should therefore conduct its own investigations, due diligence and analysis and should check the accuracy, adequacy, reliability and completeness of the information in this Eol document and where necessary, obtain independent advice from appropriate sources.
- **1.3** BEML employees and advisors, make no representation or warranty to full completeness or makes any representations, express or implied, in relation to the correctness or accuracy of the information contained herein and shall incur no liability under any law, statute, rules or regulations as to the accuracy, reliability or completeness of the Eol document.
- **1.4** BEML may, in its absolute discretion, but without being under any obligation to do so, modify, amend or supplement the information in this Eol document.
- **1.5** BEML reserves the right to not proceed with the EoI, or to alter the timelines reflected herein, or alter its' procedure for the selection of Prospective Collaborators. Even after selection of suitable Prospective Collaborator, BEML is not bound to proceed ahead with the Prospective Collaborator and in no case be

EOI Ref: CTPAM /CMSE/2024

Date: 29-08-2024

responsible or liable for any commercial and consequential liabilities in any manner whatsoever.

- **1.6** The Prospective Collaborator shall bear all costs associated with or relating to the preparation, technical discussion/presentation and submission of response against this EoI. BEML shall in no case be responsible or liable for these costs regardless of the conduct or outcome of the EoI process.
- **1.7** Canvassing in any form by the Prospective Collaborator or by any other agency on their behalf shall lead to disqualification of their Eol.
- **1.8** Notwithstanding anything contained in this EoI, BEML reserves the right to accept or reject any application and to annul the EoI process and reject all applications, at any time without any liability or any obligation for such acceptance, rejection or annulment and without assigning any reasons, thereof. In the event that BEML rejects or annuls all the applications, it may at its discretion, invite all eligible Prospective Collaborator to submit fresh applications.
- **1.9** BEML reserves the right to disqualify any applicant during or after completion of EoI process, if it is found there was a material misrepresentation by any such applicant or the applicant fails to provide within the specified time, supplemental information sought by BEML.
- **1.10** BEML reserves the right to verify all statements, information and documents submitted by the applicant in response to the EoI by itself or through its advisors or agents. Any such verification or lack of such verification by BEML shall not relieve the applicant of his obligations or liabilities hereunder nor will it affect any rights of BEML.

EOI Ref: CTPAM /CMSE/2024

Date: 29-08-2024

SECTION-2

Schedule of Eol process & contact details

A. Schedule of Eol process

The schedule of activities during the EoI Process shall be as follows:

SI.No.	Description	Date
01	Issue of EoI Document	29.08.2024
02	Last date of Submission of Eol response	30.09.2024

B. Contact Details related to Eol

Chief of Vendor Development Cell
23/1, 4 th Main SR Nagar
BEML Soudha
BEML Ltd.,
Bengaluru-560027
Karnataka
India.
Telephone:
Mobile:080 22963253
E mail: srinivasan.tn@bemlltd.in

Date: 29-08-2024

SECTION-3

BEML's Objective: "Make in India" and Self Reliability

- **3.1** BEML is seeking manufacturing and technology partnerships with reputed OEMs looking to establish and/or expand their supply chains/manufacturing base in India for the manufacture of various goods and/or service business in the areas of Defence & Aerospace, Rail & Metro, Mining & Construction, Engines and aggregates with the overarching objective of "Make in India" and enhancing Self-Reliance in line with the vision of Government of India.
- **3.2** BEML Limited (formerly Bharat Earth Movers Limited) was established in May 1964 as a Public Sector Undertaking for manufacture of Rail Coaches & Spare Parts and Mining Equipment. The Company operates under three major Business verticals viz., Mining & Construction, Defence and Rail & Metro which are classified into 11 SBU's & 2 Micro SBU's. The three verticals are serviced by eight manufacturing units at four locations viz. Bengaluru, Kolar Gold Fields (KGF), Mysuru and Palakkad. The products manufactured under the three Business Verticals are mentioned below.

MINING & CONSTRUCTION	DEFENCE & AEROSPACE	RAIL & METRO
Bull Dozers	Tatra based High Mobility	Integral Rail Coaches
Excavators	Trucks	Metro Cars
Loaders	Recovery Vehicles	AC EMUs
Pipe Layers	Bridge Systems	OHE Cars
Wheeled Dozers	Vehicles for Missile Projects	Steel and Aluminium Wagons
Tyre Handlers	Tank Transportation Trailers	Track Laying Equipment
Rope Shovels	Milrail Wagons	Utility Vehicles
Walking Draglines	Mine Ploughs	Treasury Vans
Dumpers	Crash Fire Tenders	Spoil Disposal Units
Water Sprinklers	Aircraft Towing tractors	Broad gauge Rail bus
Motor Graders	Aircraft Weapon Loading	
Underground Mining Equipment	Trolley	

More details about the entire range of BEML's products and operations can be viewed by visiting our web site <u>www.bemlindia.in</u>

Date: 29-08-2024

SECTION-4

Details of Expression of Interest (Eol)

4.1 Introduction:

- **4.1.1** With the increase in demand for power, Indian Coal Industry is facing challenge of increasing coal production to meet the demand. Towards meeting this goal, Indian Coal Industry is adopting Mass Production Technology in the underground Mining area, by introducing Continuous Miner and its Supporting Equipment with the required supporting Equipment to achieve optimum level of production, productivity, extraction percentage and safety in underground mines.
- 4.1.2 To cater to this requirement, BEML is actively seeking partnerships with globally reputed Original Equipment Manufacturers (OEMs) who are looking to establish or expand their market, sourcing/manufacturing footprint in India for continuous miner package (range of 0.7 m cutting height to 5 m cutting height along with supporting equipment). The After-Sales-Service will be rendered by our nationwide service network with the support of our selected working Collaborator.
- 4.1.3 This Expression of Interest (EoI) seeks response from the Prospective Collaborator, who are willing to be associated with BEML, through strategic partnership for joint development and supply of Continuous Miner & Supporting Equipment.

4.2 Scope of Co-operation:

- **4.2.1** BEML is seeking Expression of Interest(s) from Prospective Collaborator for Technology Collaboration Agreement (TCA) for joint development of Continuous Miner and its Supporting Equipment for Indian coal mines as mentioned below:
 - a. Continuous Miner
 - b. Coal Haulers/Shuttle Cars
 - c. Roof Bolters, Load Haul Dumpers (LHD)
 - d. Feeder Breaker
 - e. Auxiliary Fans/Ventilation System
 - f. Face Pumps
 - g. Set of Electrical Distribution Equipment
 - h. Gate Belt Conveyors
 - i. Communication Equipment
 - j. backfill equipment, Multi Utility Equipment
 - k. Man Riding System etc.

EOI Ref: CTPAM /CMSE/2024

Date: 29-08-2024

- **4.2.2** The TCA shall enable BEML to Design, Engineer, Manufacture, Assemble, Test, Supply, Field Install, Commission, Repair, Service and Retrofit Continuous Miner & Supporting Equipment.
- **4.2.3** The Prospective Collaborator should be willing to associate with BEML in any of the following mode of co-operation subsequent to initial supply of completely build units.
 - a. Joint Manufacturing in India.
 - b. Providing Manufacturing License to BEML.
 - c. Providing Technology License to BEML.
 - d. Transfer of Technology (ToT).
 - e. Joint Technology Development.

Any of the above or combination of above is also acceptable.

- **4.2.4** Interested Parties meeting the Pre-qualification requirements (PQR) as specified in clause 4.3 below are invited to submit their response to this EoI, as per indicative scope of technology transfer given in **Annexure-1**. Upon receipt of response(s) against this EoI, BEML will review the response(s) to ascertain suitability of the offer and shortlist Prospective Collaborator for further discussions. Detailed discussions on commercial and other terms and conditions to finalize the Technology Collaboration Agreement (TCA) shall be held with shortlisted Prospective Collaborator.
- **4.2.5** The bidder should furnish Information on qualification criteria as per the enclosed **Annexure-2**.

4.3 Pre-Qualification Requirements (PQR)

- **4.3.1** The Prospective Collaborator shall meet following qualification requirements as on the date of submission of EoI (to be substantiated by documentary evidence):
 - a. The Prospective Collaborator should have designed, engineered, manufactured, tested, supplied and commissioned subject equipment (General specifications at Annexure-3) and such equipment should have completed successfully, at least three (03) years of service as on date of closing of this Eol.

Date: 29-08-2024

b. The Prospective Collaborator should have designed subject equipment (General specifications at Anenxure-3) and their designed equipment should have completed at least three (03) years of service as on date of closing of this Eol.

4.4 Instructions:

4.4.1 The interested Prospective Collaborator should submit their response(s) along

with enclosed annexures on or before 30.09.2024

Annexure-1: Indicative Scope of Technology Transfer

- **Annexure-2**: Detailed information sought by the Prospective Collaborator for qualification.
- Annexure-3: General technical specifications of Continuous Miner and its Supporting Equipment proposed for TCA
- **Annexure-4**: Reference List: The Prospective Collaborator's major supplies in last five (05) years
- 4.4.2 The response shall necessarily be accompanied with following details:
 - a. Company/Entity profile with Management structure and Group information if any.
 - b. Product Profile
 - c. Product Technical details
 - d. Reference list of customers
 - e. Annual Audited financial reports for last three (03) years.
- **4.4.3 Language:** All correspondences and documents related to the Eol response shall be in English language, provided that any printed literature furnished by the Prospective Collaborator may be written in another language, as long as such literature is accompanied by a translation of its pertinent passages in English language in which case, for purposes of interpretation of the bid, the English translation shall govern.
- **4.4.4** The Prospective Collaborator shall abide by the terms & conditions, as applicable, of the EoI.
- **4.4.5** All pages of the response against this EoI shall be duly signed by the authorised signatory.
- **4.4.6** Multiple proposals from the same Prospective Collaborator should not be submitted.
- **4.4.7** BEML at its discretion shall inspect the Prospective Collaborator

EOI Ref: CTPAM /CMSE/2024

Date: 29-08-2024

works/ office/reference site premises for the purpose of evaluation, as deemed necessary before selection of Collaborator. BEML's decision in this regard shall be final.

- 4.4.8 Any Prospective Collaborator which has been debarred/blacklisted by Central/State Governments of India or by any entity controlled by Central/State Governments of India from participating in any of their project, as on date of submission of EoI, shall not be eligible to submit the EoI.
- **4.4.9** BEML shall receive applications pursuant to this EoI in accordance with the terms set forth herein, as modified, altered, amended and clarified from time to time by BEML and all applications shall be submitted in accordance with such terms on or before the date specified in this EoI for submission of applications.

In case any amendment/corrigendum to this EoI is issued, it shall be notified only at www.bemlindia.in

- **4.4.10** Shortlisted bidder should consider following also while submitting the response
 - a. Prospective Collaborator may also be required to enter into a long-term Supply Agreement and meet the expected delivery requirements and other Terms & Conditions of RFP / Tender to be issued by BEML on cost basis.
 - b. Prospective part Collaborator should be willing to associate with BEML for conducting the Field Evaluation Trials conducted by various agencies.
 - c. The prospective Collaborator shall be required to provide the desired Unit(s) of Continuous Miner and Supporting Equipment for Field Evaluation Trials in varying climatic altitude and terrain conditions in India.
 - d. Prospective Collaborator would be required to support BEML during interactions with the various agencies in India for initial screening, participation in the customer RFP / Tender and subsequent qualification process by way of deputing their experts to India and providing the required information and clarifications as required/sought by customer.
 - e. Prospective Collaborator shall provide firm and irrevocable commitment to provide product support in terms of maintenance, materials and spares etc. for a minimum period of fifteen (15) years from the date of last supply to BEML.

Page 10 of 22

Date: 29-08-2024

- f. Prospective Collaborator is required to confirm that in case of getting shortlisted as a result of this EoI process, following support shall necessarily be provided to BEML in order to enable BEML to prepare and submit a competitive techno-commercial bid to customer as per the terms of the customer RFP / Tender (& other requirements as applicable) and also to successfully execute the contract in case of BEML emerging as L1 bidder:
- i. To provide costing elements required for preparation of BEML offer against customer RFP.
- ii. To provide a price list with long term validity with Price Variation Clause for assemblies / subassemblies / components / spares / Manufacturer's Recommended List of Spares etc. for items to be sourced from prospective Collaborator.
- iii. Any other requirement felt necessary as per customer.
- iv. Above mentioned requirements are only indicative in nature, however any other document/information/input required by BEML for cost estimation and for preparation & submission of techno-commercial bid to customer shall have to be provided by the prospective Collaborator.

4.5 Process to be Confidential:

Information relating to the examination, clarification, evaluation and comparison of EoI and recommendations shall not be disclosed to Prospective Collaborator. Any effort by Prospective Collaborator to influence BEML in processing of EoI or selection decisions may result in the rejection of the response against EoI.

4.6 Governing Laws & Jurisdiction:

The Eol process shall be governed by, and construed in accordance with the laws of India and the Courts at Bengaluru (India) shall have exclusive jurisdiction over all disputes arising under, pursuant to and / or in connection with the Eol process. Foreign entity interested for collaboration with BEML of building Continuous Miner and its supporting equipment must have necessary clearance from their Govt. for Technology Sharing & Collaboration.

Date: 29-08-2024

- 4.7 Restrictions on specified Transfer of Technology with an Entity from a Country which shares a Land Border with India:
- **4.7.1** Prospective Collaborator(s) from a country which shares a land border with India will be eligible to respond to this EoI only if Prospective Collaborator(s) is registered with Competent Authority (Registration Committee constituted by the Department of Promotion of Internal Trade (DPIIT) of Govt. of India). Such registration should be at least valid for the entire period of EoI due date or any extension thereof.
- **4.7.2** Prospective Collaborator(s) from a country which shares a land border with India means: a) An entity incorporated, established or registered in such country; or b) A subsidiary of an entity incorporated, established or registered in such country; or c) An entity substantially controlled through entities incorporated, established or registered in such country; or d) An entity whose beneficial owner is situated in such a country; or e) An Indian (or other) agent of such an entity; or f) A natural person who is a citizen of such a country; or g) A consortium or joint venture where any member of the consortium or joint venture falls under any of the above.

4.8 **Post Selection Conditions:**

- 4.8.1 The Expression of Interest submitted by the applicants will be evaluated and the Selected Collaborator(s) will be intimated in writing by BEML by way of an Acceptance Order ("Acceptance Order").
- **4.8.2** Post selection, BEML and the Selected Collaborator(s) shall execute a Non-Disclosure Agreement/MoU within one (01) week of release of Acceptance Order.

4.9 Rejection:

An Expression of Interest is liable to be rejected for any of the following conditions:

- **4.9.1** The Expression of Interest is not accompanied by required documentation and has failed to provide clarifications related thereto, when sought by BEML.
- **4.9.2** Misrepresentation, lack of proper documentation, fraud, coercion
- **4.9.3** The Expression of Interest is received after the closing date.

EOI Ref: CTPAM /CMSE/2024

Date: 29-08-2024

4.9.4 If any information which would have entitled BEML to reject or disqualify the applicant becomes known after the applicant has been qualified, it reserves the right to reject the applicant at that time or at any time after such information becomes known to BEML.

EOI Ref: CTPAM /CMSE/2024

Date: 29-08-2024

Annexure-1

SI.No.	Description	
(a)	Licensing & transfer of state - of - the - art technology relating to Design	
	Engineer, manufacture, Assemble, Test, Supply, Field Install, Commission, Repair	
	Service and Retrofit Continuous Miner & Supporting Equipment.	
(b)	Transfer of improvements/modifications/developments/up gradations to be carried our	
	by the Prospective Collaborator during the period of TCA for taking care of new marker	
	requirements and obsolescence. Subsequent updates required due to component	
	obsolescence or updates implemented by Prospective Collaborator due to safety	
	consideration would also be provided.	
(c)	Assistance in planning & establishing the new manufacturing, assembly and testing	
	facilities & processes/ suitable augmentation at BEML's existing facilities/processes by	
	way of expert advice in terms of identifying, sizing & selection and preparation o	
	specification of equipment / machinery required for manufacturing, their layout and	
	foundation etc.	
	Deputation of Collaborator's expert for commissioning of the manufacturing facilities	
	design of special tools and dies, jigs & fixtures etc.	
(d)	Support through engineering services from Collaborator's design office	
	manufacturing facilities for licensed products.	
(e)	Training to BEML engineers to Design (know-how knowledge transfer), Engineer	
	Manufacture, Assemble, Test, Supply, Field Install, Commission, Repair, Service and	
	Retrofit the Continuous Miner & Supporting Equipment.	
(f)	Deputation of Collaborator's experts to assist BEML in absorbing the technology for	
	licensed products.	
(g)	Transfer of applicable Proprietary software / computer programs including logics	
	and source code, if any.	
(h)	During the field trials and regular operation, if any modifications/updates are carried	
	out to improve the performance/reliability of the system the same shall also be	
	transferred to BEML with complete know-how.	
(i)	Technology being proposed should be the latest/state-of-the-art being marketed by the	
	Prospective Collaborator.	

Indicative Scope of Technology Transfer

EOI Ref: CTPAM /CMSE/2024

Date: 29-08-2024

(j)	Transfer of information & technical support to enable BEML to source/procure those		
	items, which Prospective Collaborator sources from other vendors (as these are not		
	manufactured by the Prospective Collaborator for use in Continuous Miner &		
	Supporting Equipment.		
(k)	Deputation of BEML engineers to work with collaborator design team in order to		
	absorb the technology/process being followed for licensed products.		
(I)	Collaborator should enter in to a joint agreement on Intellectual Property Rights (IPR)		
	with BEML.		

EOI Ref: CTPAM /CMSE/2024

Date: 29-08-2024

Annexure-2

SI. No	Parameter	Prospective Collaborator's response YES/NO and remarks, if any
(a) (b)	Whether the Prospective Collaborator is an Original Equipment Manufacturer (OEM) of proposed Continuous Miner & Supporting Equipment. If so, the number of years of experience. Whether documentary evidence to substantiate the PQRs	
	has been submitted by Prospective Collaborator: The Prospective Collaborator should have designed, engineered, manufactured, tested, supplied and commissioned similar equipment (General specifications at Annexure-3) and such equipment should have completed at least three (03) years of service in Indian /overseas mines as on date of closing of this Eol. OR The Prospective Collaborator should have designed similar equipment (General specifications at Anenxure-3) and their designed equipment should have sempleted at	
(c)	and their designed equipment should have completed at least three (03) years of service as on date of closing of this Eol.Whether information on market share has been enclosed.	
(d)	Cumulative turnover and PAT (profit after tax) of the company for the past three (03) years i.e., FY2021-22 to FY2023-24 in USD/INR.	
(e)	Whether Prospective Collaborator's annual audited financial reports for last three (03) years have been enclosed.	

EOI Ref: CTPAM /CMSE/2024

(f)	Whether Continuous Miner & Supporting Equipment offered	
	for technology collaboration is the latest being marketed by	
	the Prospective Collaborator.	
(m)	Whether customers (end users) letters / documentary	
(g)	evidence for satisfactory operation of model for Continuous	
	Miner & Supporting Equipment which is being offered to	
	BEML under this Eol have been enclosed.	
(h)	Whether the Prospective Collaborator owns the IPRs for the	
	technology being proposed for transfer under the	
	Technology Collaboration Agreement (TCA) or have an	
	unencumbered right from the owner of the IPRs to sub-	
	license the technology, if applicable. If yes, whether list of	
	such IPRs is enclosed.	
(i)	Acceptance to associate with BEML in any of the following	
	mode of co-operation.	
	a. Joint Manufacturing in India.	
	b. Providing Manufacturing License to BEML.	
	c. Providing Technology License to BEML.	
	d. Transfer of Technology (ToT).	
	e. Joint Technology Development.	
	Any of the above or combination of above.	
(j)	Willingness to indigenise at least 50% of the value of	
	equipment in India to meet "Make in India" criteria and	
(k)	subsequent increase at later stage. Willingness to share with BEML any up gradations /	
(,,,)	improvements made during the period under which the joint	
	working arrangement is effective.	
(I)	Willingness to train a strong core technology team of Engineers from BEML Limited.	
(m)	Submission of Undertaking that the company has not been	
	debarred / blacklisted by Government of India / any State	
	Government in India / Central or State Government undertaking upon PSU/Central Government funded	
	organizations / State Government funded organizations/	
	World Bank, or other World Bank organizations and is not	
	under any illegal expression by Government of India or	

EOI Ref: CTPAM /CMSE/2024

Date: 29-08-2024

	blacklisted by any Government outside India.	
(n)	Whether there is any outstanding bankruptcy, judgment or	
	pending legal action that could impair the operations of the	
	Company as a going concern.	
(0)	Submission of Quality Certificates such as ISO 9001, ISO	
	14000 or any other relevant certificate	

<u>Note</u>: Please provide the above information. Documents required to authenticate the above information/details may be enclosed.

Signature & Seal:

Authorised Signatory of the Prospective Collaborator

EOI Ref: CTPAM /CMSE/2024

Date: 29-08-2024

Annexure-3

General requirement for Continuous Miner & Supporting Equipment

- **1.** Generally, the equipment required in Indian Coal Mines using Continuous Miners & Supporting Equipment is:
- a. Continuous Miner / Miner Bolter of various models with different ranges from minimum cutting height of 0.7 m to maximum cutting height of 5 m (Suitable to prevailing geo-mining condition).
- b. Shuttle Car (Electrical or diesel) / Coal Hauler for transportation of coal from face to Gate belt matching with guaranteed production
- c. Twin Boom Roof Bolter sufficient to match with the requirement of bolting and other related jobs during development, widening and depillaring in the designated area of work as per statute.
- d. Load Centre (Set of electrical power distribution of equipment) for supply of power to working equipment of the package meeting all standards of Indian statute, lighting & face communication unit.
- e. Load Haul Dumper (Remote Controlled).
- f. Feeder Breaker / a suitable crushing & sizing equipment.
- g. Suitable environmental system (instruments) for measuring air velocity, temperature, and percentage of various gases at various locations in the ventilation circuit of the working panel.
- h. Battery operated Multi Utility Vehicle for cleaning & sweeping of coal, transport of material & consumable goods and shifting of switchgear & transfer etc,
- i. Battery operated Free Steered Vehicles (Personnel Carriers) having carrying capacity of minimum twelve (12) persons each.
- j. Strata Control Equipment Instruments such as auto warning system, tell tales, Rotary tell tale, dual height tell tales, strain gauge bolts, stress cells, load cells, convergence indicator etc needs to be installed for proper continuous monitoring and analysis of strata and pre alarming of impending roof fall during caving operation.
- k. Suitable arrangement for retrieving continuous miner & other face equipment trapped in during operation,
- I. Face pumps with required cables, switch gears and pipes/flexible hoses for discharging into intermediate sump.

EOI Ref: CTPAM /CMSE/2024

- m. Auxiliary fans for face ventilation along with accessories including electricals as may be required.
- n. Communication equipment.
- o. Dust Suppression System for Continuous Miner package.

However, the above data may vary from mine to mine or package to package.

- **2.** The selected Collaborator shall:
- a. Supply the main equipment / critical aggregates, technical consultancy etc. as required.
- b. Agree for manufacturing of mutually agreed Assemblies / components at the manufacturing facilities of BEML in India so that cost advantage can be leveraged. The selected Collaborator should offer the required technical support by providing drawings, vendors for sourcing of critical components etc. as required.
- c. Shall obtain the required Government Approvals like Directorate General of Mines Safety (DGMS) etc. (Details given below) with the support of BEML.

Directorate General of Mines Safety (DGMS) Requirements:

The most important requirement for deploying Continuous Miner Technology is obtaining the approval of DGMS, India, the regulating authority, who accords approval for deployment of equipment in Underground Mines. DGMS approval is also required for the Mining methodology to be adopted by the Coal Mines, which will be generally obtained by the customer (Mining Company) with support from the Equipment supplier. The DGMS Approval for the equipment has to be obtained by the original equipment manufacturer (OEM) (Selected Collaborator) and BEML with required assistance from the customer. After entering into Agreement / Understanding, BEML and selected Collaborator will work towards obtaining DGMS approval for deploying the equipment in Underground Coal Mines in India.

- d. Associate in assembly of equipment at BEML facilities and installation, commissioning and operation / supervision of operation cum maintenance at customer site as required.
- e. Supply the spares & consumables necessary for operation of the equipment during its life time.
- f. Training of BEML engineers for installation, supervision & maintenance of the equipment to ensure that BEML and the selected Collaborator shall be jointly responsible for supply, installation and operation / supervision of operation cum

Date: 29-08-2024

maintenance and spares management of the necessary machinery and / or equipment required for implementation of Continuous Miner Technology following stipulated safety standards as per Indian Coal Mines Rules and Regulations and subsequently its adoption and absorption by customer.

Date: 29-08-2024

Annexure-4

Reference List: <u>The Prospective Collaborator shall furnish a summary of their</u> product reference as detailed below for major supplies in last five (05) years

SL No.	Name of Country where Continuous Miner & Supporting Equipment supplied and commissioned successfully.	Number of units supplied	Year of Supply

Signature & Seal:

Authorised Signatory of the Prospective Collaborator

Note:

Submission of the Eol

The EoI shall be submitted **before 30.09.2024 through email only** mentioning EoI reference: CTPAM/CMSE/2024 in Subject to bemleoi@bemlltd.in

Queries if any, may be forwarded to <u>Gopinatha.hk@bemlltd.in</u> with cc to chakrapani.m@bemlltd.in and <u>bemleoi@bemlltd.in</u>