

क्रमांक संख्या: एम.सी.एल/मुख्यालय/नवोन्मेष विभाग/2025-26/1196

दिनांक: 16/10/25

REQUEST FOR QUOTATION (RFQ)

- A. Mahanadi Coalfields Limited (MCL), a subsidiary of Coal India Limited (CIL) seeks quotations (for budgetary estimation) of the following work as per the annexures attached:

DESCRIPTION OF WORK	LOCATION OF WORK EXECUTION
Real-Time Health Monitoring of HEMMs at MCL	Talcher and Ib Coalfields of Mahanadi Coalfields Limited.

- B. This RFQ is available on the official website of Mahanadi Coalfields Limited (www.mahanadicoal.in), on the e-Procurement portal of CIL (<https://coalindiatenders.nic.in>) and on the Central Public Procurement Portal (<https://eprocure.gov.in>).
- C. Response to the RFQ must be sent vide email ONLY; to mcl.innovationcell@coalindia.in, on or before 15/11/2025. Please email any clarification in the email address on or before 31/10/2025. Clarifications sought after this date shall not be entertained.
- D. Interested entities may request a visit to the sites where this work has been envisaged. Please email requests for visit at mcl.innovationcell@coalindia.in so that response to RFQ is received on or before 15/11/2025. No extension of dates shall be entertained ONLY due to inability of interested entities being unable to visit the sites. All interested entities are encouraged to visit the sites for comprehensive understanding of the work.
- E. Details of the RFQ are attached as Annexures – 01, 02, 03 and 04:
1. Annexure – 01: Scope of Work. [04 Pages]
 2. Annexure – 02: Format of BOQ. [02 Pages]
 3. Annexure – 03: Payment Terms. [02 Pages]
 4. Annexure – 04: List of Documents Envisaged. [07 Pages]
- F. Please note that **this RFQ is NOT a tender**, it is only for estimation purposes. MCL reserves the right to float or NOT float a subsequent tender based on this RFQ; if so; after any modification as deemed fit in the accompanying annexures of this RFQ along with the response received. No reason for any subsequent action shall be provided.



Dr. Shambhu Jha
GM(Min)/HOD, Innovation Cell, MCL

Contact Person for Clarification and Site Visit:

Shri. Y Kamaleshwar Singha,
Senior Manager (E&M),
Innovation Cell, MCL HQ.
Ph: 9438879723

Distribution:

1. TS to CMD/ TS to D(T/OP)/ TS to D(T/P&P)/ TS to D(P)/ TS to D(F), MCL
2. All Notice Board and Digital Boards.

Annexure – 01: Scope of Work

RFQ Reference: क्रमांक संख्या: एम.सी.एल/मुख्यालय/नवोन्मेष विभाग/2025-26/1196

दिनांक: 16/10/25

A. Preamble:

MCL intends to monitor its asset health of HEMM (Heavy Earth Moving Machinery) fleets across its entire area of operations. Currently, MCL operates more than 800 HEMM from 18 OEMs. Types of HEMMs are dumpers, dozers, payloaders, surface miners, water sprinklers, etc. The end-effect envisaged from this work is to provide AI-enabled insights of health monitoring parameters of HEMMs as provided by OEMs and recommend actionable points for maintenance and operation. The aim is to leverage AI/ML models to improve the data-to-decision pipeline while keeping the extant practices augmented with predictive and real-time awareness system. The envisaged solution shall augment, not replace, existing maintenance practices and standard operating procedures. It will function as an advanced decision-support system, providing actionable, data-driven recommendations to MCL's maintenance and operations personnel.

B. Deliverables:

The solution provided (successful bidder) is expected to develop a system (having software systems and hardware systems integrated with MCL's HEMM fleet), that shall be able to perform the following:

1. Provide real-time information of HEMM operational parameters (engine RPM, torque, oil pressure, oil temperature, coolant temperature, etc. whichever is enabled by OEM through their sensor ecosystem) having in-built sensors and later additional sensors with non-intrusive methods without modification of the extant sensor ecosystem in consonance with OEM and MCL.
2. Perform real-time data analytics enabled with web-based and mobile dashboard with AI/ML modelling and analysis with real-time notifications agnostic to the operating platform of host device – computer, mobile, notepads, iOS, Android, Linux/Windows, etc.
3. Present data in following three structures/locations:
 - i. Real-Time Equipment Monitoring Center (RTEMC): Commissioned in each unit to act as the real-time equipment monitoring center.
 - ii. Unified Harmonized Dashboard (UHD): Web-based portal mirroring the RTEMC.
 - iii. Real-Time Equipment Monitoring App (RTEMA): To be installed in authorized devices like mobile, iPads, notepads, etc. mirroring the RTEMC.
4. RTEMC, UHD and RTEMA is detailed in Section – B.
5. Generate preset and customised reports with superposition of multiple parameters.
6. Put additional sensors where required, in concurrence with OEMs in later phases as per agreement with OEMs and MCL.
7. Enable role-based access-denial all the interfaces of the system, support of changes to be made in portal, after-sales services, execution in service-mode, etc. For this, an RBAC (Role-Based Access Control) sheet shall be issued by MCL (please see Table – 02).
8. RTEMA should have an option to enable customized summary of consolidated alerts generated in a given shift or day. No limit of change is envisaged.
9. Site-wise HEMM health monitoring alerts report data access shall be provided as per RBAC sheet (please see Tables – 01 and 02). Data flow shall be as per the instructions of MCL issued from time to time.
10. Real-time notification of the critical alerts shall be sent to respective site's Field Engineers' mobile phones through the RTEMA.
11. Comprehensive data analysis module shall be provided for HEMM-wise health alerts monitoring for incident analysis. For ex: Data analysis module shall provide information like How many times engine coolant temperature has crossed critical temperature threshold likewise in a given shift or day. All requirement of data analysis shall be provided by MCL to the successful bidder ONLY.
12. Training shall be provided to respective site's users.

13. System shall have provision to read any parameter enabled by OEM through OEM-defined protocol and data exchange interface (hardware and communication). Both shall be reviewed with OEMs. Apart from CAN interface other interfaces viz. RS232, RS485, Modbus, etc. for IoT device integration.
14. System should be able to integrate with OEM' system (online and offline integration) and provide a centralised unified harmonised dashboard (UHD) for unified monitoring across all types of OEMs and HEMMs.
15. Please see Section – E for reports to be generated by the system.
16. Space and room for the monitoring center shall be provided by MCL including internet connection, civil works, furnishings and power. Successful bidder shall provide all display equipment, computing equipment and all associated peripherals required as envisaged in the scope of work.
17. Network connectivity for the entire system till data reaches RTEMC shall be the responsibility of solution provider i.e. the successful bidder.
18. While there is no bar in technology employed for data transmission from equipment to central server, reason of poor connectivity shall NOT be acceptable while calculating availability of the system. Such occurrences shall be deemed as contractor's fault (solution provider's fault) and dealt accordingly. For this reason, all potential bidders of the work are advised to conduct site visit for assessment of network coverage and explore captive 5G network for the same before responding to this RFQ and later the tender, whichever is applicable.
19. The system shall have provision to enable integration of any third-party software as directed by MCL without additional cost to MCL. Scope shall be limited to pushing of data to third-party software.
20. All data captured shall have to be preserved in MCL designated cloud servers ONLY. In all cases, data should be geographically located in India ONLY.

C. RTEMC, UHD and RTEMA:

1. While being user friendly, all dashboards web-based, app-based and monitoring center at RTEMC, UHD and RTEMA; shall be highly responsive (no latency in interaction), clean and easily navigable by swipe, scroll, click and other inputs NOT requiring punching of specific codes.
2. Illustrative figure given below must be followed as a guide:

Figure 01: Illustrative Image of RTEMC.



3. Accordingly, there shall be three video walls in RTEMC.
 - i. Wall – 01: Enterprise Twin – Contains enterprise-level information for MCL HQ and unit-wise.
 - ii. Wall – 02: Equipment Twin – Contains equipment-level information.
 - iii. Wall – 03: Data Analysis – Contains data analysis and insights.
4. The layouts and data analysis requirements shall be issued to successful bidder ONLY within 60 days of the issue of work order.
5. For UHD (which is essentially a web-portal), one of the video walls shall be the landing page, and the remaining shall be swiped right/left. The overall architecture shall be accordion collapsible menu – type.
6. For RTEMA, the interface shall mirror the video walls, for which; configuration shall be provided after release of the above two (video wall and the web-portal).
7. The hardware of the video wall shall be provided by the successful bidder. The screen size of each video wall is envisaged to be minimum 120 inches. So, either a large LED panel is envisaged or a vertical short throw projector with minimum 8K resolution against illuminated projector screen is envisaged. Though there is NO bar on picking an alternative technology, however, the quality must be at par with as envisaged in this para.
8. The scrolling of cursor shall be across the dashboard without needing for separate mouse or pointing device for each video wall.
9. The UX shall be enhanced with drop down menus, categorized searched, smooth transitions effects, etc. for preventing fatigue to the users.
10. Changes in dashboard layout must be provided without any additional cost (no limit on changes envisaged). Such requests shall be made through CRS (please see Table – 02).
11. Such changes in dashboard layout must be provided within 07 days of CRS intimation.
12. Use of proprietary library (if any) must NOT affect the accessibility and usability of the dashboard/portal. There shall NOT be any recurring cost for MCL in this regard, for the entire duration of the work.
13. There shall be an AI-enabled analytics tab for insights into captured data.
14. The solution provider shall conduct VAPT of the system once in 06 months or after each case of breach (if any) detected, whichever is earlier, through a CERT-In certified organization.

D. Administrative Structure and Work Execution Documents:

1. The system shall function within the administrative structure of MCL.
2. The enterprise-level portal shall be accessible to authorized personnel at MCL HQ, Sambalpur.
3. The unit-level portal shall be accessible to authorized personnel at each unit customized to their visual requirement including report generation.

Table – 01: Administrative Structure for Work Execution

Sl	Role	Particulars	Remarks
1	Engineer In-Charge (EIC)	As per work order at MCL HQ.	All communications.
2	Unit Head	SO(X) of the area heading the unit.	First point of communication.
3	Site In-Charge (SIC)	PE(X) of the unit.	Facilitating site-access.
4	Payment Authority	GM(F), MCL HQ.	Based on AR.
5	Appeal for Resolution	HOD (X), MCL HQ.	--
6	Final Appeal for Resolution	D(T), MCL.	--
7	Role-Based Access (User)	Authorized Person of Unit and MCL HQ.	Also includes OEMs.

4. The documents related to this work are given in Table – 03 below:

Table – 02: Work Execution Document

Sl	Document*	Issued By	Remarks
1	Work Order (WO)	Tendering Department	--
2	System Commissioning Report (SCR)	Jointly by SIC and EIC.	For each site.
3	Availability Report (AR)	Auto-Generated.	--
4	System Generated Reports (SGR)	Auto-Generated.	Initiated by SIC or HOD(X).
5	Role-Based Access Control (RBAC) Sheet	EIC.	Internally approved.
6	Data-Flow Chart (DFC)	EIC.	Internally approved.
7	Change Request Sheet (CRS)	EIC.	Initiated by SIC or HOD(X).
8	SOPs for operation.	EIC.	Internally approved.
9	Equipment ID (EID) Sheet.	EIC.	Approved codification scheme.
10	Any other document.	EIC.	Internally approved.

*SOPs and format of documents (wherever applicable) shall be issued to each sites and successful bidder within 20 days of issue of work order by EIC.

E. System Generated Reports:

1. The system shall generate following reports:
 - i. SEHM: Shift Equipment Health Report.
 - ii. ELR: Equipment Locus Report.
 - iii. MRR: Maintenance Recommendation Report.
 - iv. EER: Enterprise Equipment Report.
 - v. SAR: System Availability Report.
 - vi. CMRXX: Custom Management Report. This report shall be unit-wise. There shall be no limit on the custom reports.
2. SOPs/DFC/RBAC and format of all the above reports shall be provided to successful bidder ONLY.
3. These reports shall be sent to concerned RBAC user through email and app as specified later during the deployment activity as per end user.
4. Accessibility to OEMs shall be restricted to their equipment fleet ONLY.
5. Accessibility to units shall be restricted to their equipment fleet ONLY.
6. Accessibility to CWS shall be restricted to their command area ONLY.
7. Accessibility to MCL HQ shall be unrestricted.
8. Further accessibility shall be communicated by EIC as and when required through updated RBAC sheet.

----- End of Document -----

Annexure – 02: Format of BOQ

RFQ Reference: क्रमांक संख्या: एम.सी.एल/मुख्यालय/ नवोन्मेष विभाग/2025-26/1196

दिनांक: 16/10/25

A. Timeline

After the award of work, site-access permission shall be given by MCL within 20 days from the issue of work order. Thereafter, the project is envisaged to be executed in two phases after site-access permission:

1. Phase – I: 180 days. (06 months for installation and commissioning): The installation and commissioning of the system in one site i.e., Lajkura OCP must be completed within 120 days from the day of issue of site-access permission. Thereafter, 60 days shall be given for installation and commissioning of the system in the entire fleet of MCL. Cost of Phase – I shall therefore subsume all the activities envisaged as per Annexure – 01 at Lajkura OCP, wherein; the software and portal related developments are envisaged for the entire MCL.
2. Phase – II: 1095 days. (03 years of operations – and maintenance).
3. Hence, total timeline of the work is as given in Table – 01 below:

Table – 01: Timeline and Period of Work Execution

Sl	Activity	Period of Work	Remarks
1	Site-access permission	20	No Payment envisaged.
2	Phase – I	180	One-time payment at the end.
3	Phase – II	1095	Monthly payment on actual no. of HEMMs deployed with the developed system.
4	Total Work	1295	Total period of work execution.

B. BOQ – Bill of Quantities

The BOQ for response to the RFQ is as given below in Tables – 02 and 03, respectively for Phases – I and II:

Table – 02: Phase – I: Installation and Commissioning and Go-Live.

Sl	Location	Scope of Deployment	Basic Cost	GST	Total
1	Lajkura OCP	As per Annexure – 01*			
7	Total for Phase – I (180 days)	--			

*Note that portal and/or dashboard and/or app shall be developed for entire MCL (even during Phase – I). No payment shall be made in Phase – II for development of unit-wise app/portal or dashboard. It will be subsumed in Phase – I. So, Phase – II will be essentially expansion in fleet coverage in remaining location of MCL and shall NOT be a fresh development of portal/app/dashboard.

Table – 03: Phase – II: Period of Comprehensive Operation and Maintenance

Sl	Location	Scope of Deployment	Basic Cost*	GST	Total
1	Remaining units of MCL for 01 HEMM.	As per Annexure – 01.			
2	Total per Month for 800 HEMM	As above.			
3	Total for Phase – II (1095 days)	--			

*Per month. Provide the basic cost in the format (A+B). A for hardware and B for software. Remaining cells can be provided combined.

Table – 04: Summary

Sl	Phase	Basic	GST	Total	Remarks
1	I				Billed once at end.
2	II				Billed Monthly.
3	Total			[Total Work Value]	--

C. NOTE:

1. Evaluation of tender (if floated) shall be on total-cost-basis (total work value) and NOT item-wise.
2. Break-up is sought for imposing penalty as the case may be.
3. There is NO commitment of minimum fleet size from MCL towards implementation of the developed system.
4. This shall be over and above those equipment which are NOT designed to be enabled with real-time performance parameters.
5. Inconsistency in the tables above while tendering response to this RFQ shall be deemed as invalid response. MCL reserves the right to seek clarification or terminate evaluation of the response.
6. In case, OEM provides the hardware for data reading and data transmission; only the cost of software shall be paid as per the break-up of basic cost in Table – 03.

----- End of Document -----



Annexure – 03: Payment Terms

RFQ Reference: क्रमांक संख्या: एम.सी.एल/मुख्यालय/नवोन्मेष विभाग/2025-26/1196

दिनांक: 16/10/25

A. Phase – I

1. Payment as per BOQ for Phase – I shall be made after successful completion of the work corresponding to Phase – I at the designated site as per Annexures – 01 and 02.
2. For the above, a System Commissioning Report (SCR) shall be issued by SIC and EIC to the solution provider.
3. Note that MCL may change the site of Phase – I before issue of site-access permission. In such case, the number of equipment shall be treated at par with those at Lajkura OCP. Remaining conditions shall remain the same.

B. Phase – II

1. Payment shall be made to the successful bidder based on auto-generated 'availability' report of the entire system; on monthly basis, proportionated on hourly basis (unit-wise); for deductions, if any.
2. The availability shall be calculated as follows:

$$\% \text{ Availability of Entire System} = (\text{Available Hours} / 24 \text{ Hours}) \times 100\%$$

3. The availability shall be auto-generated/calculated and must be in-built in the dashboard itself. Biometric / digital signature authentication can be explored to enable role-based access. This summarized document shall form the basis of monthly payment.
4. Facility for auto-updation of availability data WITHOUT MANUAL entry shall be provided by the solution provider integrated with any third-party application designated by MCL (viz. SAP). No additional cost of integration shall be provided by MCL.
5. The availability of the system shall always be above 99% (cumulative).
6. Penalty shall be deducted, site-wise, as follows:

Sl. No.	Availability	Penalty
1	Above 99%	0
2	99% and below.	Proportionate deduction from dues of the successful bidder i.e., [98-99]: Penalty of 1%. [97-97.99]: Penalty of additional 1% over and above previous slot of 1%. Further calculation of penalty shall be done likewise for slots of [96-96.99] and so on.

7. Unavailability of ANY scope of work in any site shall be deemed as NO AVAILABILITY of the entire system and shall be treated accordingly for penalty calculations.
8. In case of non-availability of any sub-component (features of the integration platform) of the system, the payment for the period of non-availability shall not be made. Additionally, penalty shall be deductible from the remaining payment.
9. The specific breakdown or reason for unavailability should be addressed within 02 hours and restored within 24 hours. No formal notice shall be given for breakdown or unavailability.
10. This shall be applicable for all the locations/units.

11. In other words, all breakdowns should be attended within two hours and restored within 24 hours. It shall be assumed that the successful bidder has real-time knowledge of any such breakdown occurrence, even without formal intimation by MCL authorities (as the system is real-time).
12. In case the breakdown is not restored within 7 days by the successful bidder, MCL shall have the right to get the equipment restored by any other agency and the cost of such restoration along with 10% handling charges; additional, shall be deducted from the dues of the successful bidder.
13. It must be noted that notwithstanding unavailability or breakdown of the system, loss of data is not acceptable. In such occurrences, payment of the particular unit for that period (10 days to be considered for withholding entire month's payment) shall be withheld till recovery of the data.
14. All breakdowns shall be considered for penalty ONLY to those attributable to the system ONLY and NOT due to breakdown of the host equipment.
15. Maintenance of the system shall be with permission of SIC and the down-time due to the same shall be NOT considered for penalty ONLY in cases where the equipment is off and in workshop or designated parking areas in non-operational mode.

----- End of Document -----



Annexure – 04: List of Documents Envisaged

RFQ Reference: क्रमांक संख्या: एम.सी.एल/मुख्यालय/नवोन्मेष विभाग/2025-26/1196

दिनांक: 16/10/25

A. The Annexure – 04 consists of two parts as follows:

1. Part I – Checklist of Documents for Response to RFQ:

The response to this RFQ shall only be considered if supporting documents as per indicated in subsequent pages of this annexure is furnished along with the BOQ.

2. Part II – Checklist of Tentative Documents for Participation in the Tender:

These are tentative/indicative documents which shall be required for participation in the tender (which is a sole prerogative of MCL to consider). The checklist is to facilitate early preparation of prospective bidders for impending tender (if floated). These documents are NOT required to be submitted in the RFQ response.

B. **Please Note:**

1. Merely based on this RFQ, MCL is NOT obligated to float a subsequent tender based on response(s) received or a modified version thereof.
2. Follow-ups to this RFQ shall NOT be entertained.
3. No reason shall be provided regarding consideration or non-consideration of RFQ response.
4. Respondents of this RFQ are highly encouraged to visit the sites BEFORE responding to this RFQ.
5. In case of identical response; the one with site visit shall be considered. Note that this has nothing to do with subsequent eligibility in participation of tender (if floated).
6. MCL may, without prior notice, modify checklist(s) provided as per part – II of this annexure and is NOT bound to freeze the same provided here at the time of floating the tender (if any).



Annexure – 04, Part – I: Checklist of Documents for Response to RFQ

RFQ Reference: क्रमांक संख्या: एम.सी.एल/मुख्यालय/नवोन्मेष विभाग/2025-26/1196

दिनांक: 16/10/25

1. Interested legal entities are required to submit scanned copy of the documents as per the table below with a cover letter tabulating the documents furnished (as in the table) that correspond to the claims made:

Table – 4.1.1: Documents for Response to RFQ

Sl	RFQ Response Document	Information to be Furnished	Remarks
1	BOQ	Cost of work execution	Annexure – 03.
2	Legal status document	Status of legal entity	Copy of legal status document.
3	MSE/Startup Certificate	MSE/Startup	Copy of MSE/Startup Certificate.
4	PAN	PAN	Copy of PAN.
5	GST	GST	Copy of GST certificate.
6	Work Experience	Proof of work executed of similar nature.	Furnish proof of work executed of similar nature viz. <i>execution of real-time HEMM (Heavy Earth Moving Machinery) health monitoring in mining conditions..</i> Experiences of academic nature shall NOT be acceptable.
7	Assurance of Site Visit	<p>An undertaking in the format given below that site visit of the work experience claimed and furnished shall be facilitated in case team of MCL intends to visit.</p> <p style="text-align: center;">----- [Format] ----- ~ Under Letter Head ~ Reference_____ Date:_____</p> <p><i>We hereby assure that we will facilitate visit of the sites of our work execution (Work Reference: _____ Dated_____) submitted as part of our RFQ response; in case MCL team intends to visit and verify.</i></p> <p><i>Signed Authorized Person</i></p>	This is to assess the nature and quantum of work actually executed on ground by the RFQ respondent versus the work experience claimed/furnished to accord realistic parity in assessment of quotation submitted.
8	Other(s)	Any other document to support the claim of Sl. No. 06 above.	Scanned copy of the document to be furnished.
9	Annexure – 01	--	Signed and scanned copy.

2. Please Note:

- a. Signature of authorized personnel is required on all pages.
- b. Pending/incomplete documents are not acceptable.
- c. ONLY response(s) in the format provided shall be acceptable.
- d. Modified or incomplete BOQ shall NOT be acceptable.

Annexure – 04, Part – II: Checklist of Tentative Documents for Participation in Tender

RFQ Reference: क्रमांक संख्या: एम.सी.एल/मुख्यालय/नवोन्मेष विभाग/2025-26/1196

दिनांक: 16/10/25

1. **In case a tender is floated**, bidders shall be required to submit scanned copy of the documents as per the table below with a cover letter tabulating and highlighting the content of the documents that corresponds to the claims made as part of eligibility by the bidder for each documents submitted (in a single .pdf document). The table shall indicate work experience quantum, period of work, location, exact clause of work order/BOQ of the work and/or percentage of work if composite work has been executed. **Bids shall NOT be accepted without a cover letter** accompanying and indicating the submitted documents.

Table – 4.2.1: Documents for Participation in Tender

Sl	Eligibility Criteria	Information to be furnished by the Bidder	Scanned copy of documents, to be uploaded by in support of information/ declaration furnished online by the Bidder against Eligibility Criteria as Confirmatory Document
1	<p>Work Experience</p> <p>The Bidder must have experience of works (includes completed / ongoing) of similar nature valuing 50 % of the annualized estimated value of the work put to tender (for period of completion over 1 year) / 50 % of the Estimated value of the work (for completion period up to one year) put to Tender, in any year (consecutive 365 days) during last 7(seven) years ending last day of month previous to the one in which bid applications are invited.</p> <p>Definition of Similar Work*:</p> <p><i>'Execution of real-time HEMM (Heavy Earth Moving Machinery) health monitoring in mining conditions'.</i></p> <p>*To be read along with Point – 'C' of the last column.</p> <p>"Annualized value" of the work shall be calculated as the "(Estimated value ÷ Period of completion in Days) x 365".</p> <p>The value of executed works shall be given a simple weightage to bring them at current price level by adding 5% for each completed year (total number of days/365) after the end date of experience till the last day of month previous to one in which e-Tender has</p>	<ol style="list-style-type: none"> 1. Start date of the year for which work experience of Bidder is to be considered for eligibility. 2. Start date & end date of each qualifying experience (similar nature). 3. Work Order Number/Agreement Number of each experience. 4. Name & address of Employer/Work Order Issuing authority of each experience. 5. Percentage (%) share of each experience (In case the experience has been earned by the Bidder as a partner in a joint venture firm/partnership firm then the proportionate value of experience in proportion to actual share of Bidder in that joint venture firm/ partnership firm will be 	<ol style="list-style-type: none"> A. For work experience, Bidders are required to submit completed Work Experience Certificate along with work order, issued by the employer against the experience of similar work containing all the information sought. B. BOQ, TDS etc. may be sought during clarification or along with deficient documents, if felt necessary by the Tender Evaluation Committee. C. The documents submitted for work experience shall indicate the following or must be self-evident: <ol style="list-style-type: none"> 1. Use of standard global protocol like CANBUS or equivalent to read and wirelessly transmit equipment data in real-time to central server. 2. Deployment of the system in mining conditions. 3. Dashboard to monitor enterprise-level equipment monitoring interface.

Sl	Eligibility Criteria	Information to be furnished by the Bidder	Scanned copy of documents, to be uploaded by in support of information/ declaration furnished online by the Bidder against Eligibility Criteria as Confirmatory Document
	been invited.	considered against eligibility else it shall be taken as 100%). 6. Executed Value of work against each experience	
2	<p>The Availability of Working Capital</p> <p>Evidence of possessing adequate working capital (at least 20% of the "Annualized value or Estimated value whichever is less" of this work) inclusive of access to lines of credit and availability of other financial resources to meet the requirement. The Bidder should possess the working capital within three months prior to the date of opening of tender</p>	<ol style="list-style-type: none"> 1. Amount of available working capital inclusive of lines of credit and availability of other financial resources 2. Date on which the Bidder possesses the required working capital 3. Date of issue of W.C. Certificate by CA 4. Name of the Chartered Accountant (CA) 5. Membership Number of CA who certifies the Bidder's working capital on a particular date. 6. Unique identification number of the document (UDIN) 	<p>Certificate with UDIN of Working Capital issued by a Practicing Chartered Accountant having a membership number with Institute of Chartered Accountants of India containing the information sought as furnished by Bidder on- line.</p> <p>Please ensure validity of UDIN for the entire bidding period.</p>
3	<p>Permanent Account Number</p> <p>The bidder should possess a Permanent Account Number (PAN) issued by Income Tax Department, Govt. of India.</p>		Scanned copy of the PAN CARD.
4	<p>Goods and Service Tax (Not Applicable for Exempted Goods / Services)</p> <p>The bidder should be either</p> <ol style="list-style-type: none"> a. GST Registered Bidder under Regular Scheme (or) b. GST Registered Bidder under Composition Scheme (or) 		<p>Scanned copy of the</p> <ol style="list-style-type: none"> a. GST Registration Certificate (i.e. GST identification Number) issued by appropriate authority of India (or) b. GST Registration Certificate under composition scheme (i.e. GST identification Number)

Sl	Eligibility Criteria	Information to be furnished by the Bidder	Scanned copy of documents, to be uploaded by in support of information/ declaration furnished online by the Bidder against Eligibility Criteria as Confirmatory Document
	c. GST unregistered bidder		<p>issued by appropriate authority of India.</p> <p>(or)</p> <p>c. A Certificate from a practicing Chartered Accountant having membership number with Institute of Chartered Accountants of India certifying that the bidder is GST unregistered bidder/ dealer in compliance with the relevant GST rules of India</p> <p>Note:</p> <p>If turnover of bidder exceeds exemption/threshold limit, the bidder must have GST registration as per GST Act and rules</p>
5	<p>Legal Status of the Bidder</p> <p>Bidders must be an individual, proprietorship firm, partnership firm, company registered under company's act.</p>		<p>Any one of the following documents:</p> <ol style="list-style-type: none"> 1. Affidavit or any other document to prove proprietorship/individual status of the bidder. 2. Partnership deed containing name of partners. 3. Memorandum & Article of Association with certificate of incorporation containing name of bidder. 4. JV agreement having valid UDIN.
6	<p>Non-Banning</p> <p>The bidders would give a declaration that they have not been banned or delisted by any Govt. or Quasi Govt. agencies or PSUs. If a bidder has been banned or delisted by any Govt. or Quasi Govt. agencies or PSUs, this fact must be clearly stated and it may not necessarily be a cause for disqualification. If the declaration is not given, the bid will be rejected as non-</p>		<p>Undertaking on Bidder's letter head mentioning the following (as applicable)</p> <p>I/ We have not been banned or delisted by any Govt., or Quasi Govt. Agencies or PSUs</p> <p>(or)</p> <p>I / Wehave been banned by the organization named "....." for a period of..... year/s,</p>

Sl	Eligibility Criteria	Information to be furnished by the Bidder	Scanned copy of documents, to be uploaded by in support of information/ declaration furnished online by the Bidder against Eligibility Criteria as Confirmatory Document
	responsive.		effective from to.....
7	Undertaking		An undertaking on the bidder's Letter Head regarding genuineness of the information furnished by him on-line and authenticity of the scanned copy of documents uploaded by him on-line in support of his eligibility, as per the provided format.
8	MII Compliance		<p>Self-Certification on Bidders Letter Head mentioning the following:</p> <p>We certify that the works/services offered by us against the(Name of work) with GeM Bid No..... dated meet the minimum local content requirement and has local content:</p> <p>* Equal to or more than 50% (Select this, in case of Class-I Local Suppliers) i.e.....% (indicating the percentage of local content)</p> <p>* More than 20% but less than 50% (Select this, in case of Class-II Local Suppliers) i.e%. (indicating the percentage of local content)</p> <p>*Delete whichever is not applicable.</p>
9	Cybersecurity		Furnish nationally acceptable cybersecurity compliance certificate viz. ISO 27001 or CMMI Level 3 or above or equivalent.
10	VAPT		<ol style="list-style-type: none"> VAPT report or certificate of the test conducted of work experience submitted at Sl. No. – 01. Letter of support or collaboration of any active

Sl	Eligibility Criteria	Information to be furnished by the Bidder	Scanned copy of documents, to be uploaded by in support of information/ declaration furnished online by the Bidder against Eligibility Criteria as Confirmatory Document
			CERT-In empaneled agency for conducting VAPT.
11	Dashboard Link		Furnish dashboard link of the integration performed in previous claimed work as per Sl. No. – 01 above. Provide login/IDs/Password and access should be open till conclusion of this tender. OR. Screenshots compiled in a pdf may be uploaded.
12	Integrity Pact		Format shall be provided.
13.	Letter of Bid		Format shall be provided.
14.	Proforma for undertaking to be uploaded by bidder/s (on their letterhead) regarding relatives as employees of company , arbitration clause (in case of partnership firm/jv/consortium), local supplier status of the bidder, cipp etc.		Format shall be provided.
15.	Local Content Certificate		Format shall be provided. UDIN shall be valid for the bid validity period.
16.	Proforma for declaration towards code of integrity for public procurement to be accepted unconditionally by bidders.		Format shall be provided.

2. Please note that extant government policies/guidelines regarding Startups and SMEs shall be followed.
3. Documents mentioned in Table – 4.2.1 above; is **NOT** required to be submitted with the RFQ response. These are only indicative and tentative, intended to provide preparatory instructions and time.
4. For tender participation (in case it is floated); please follow the tender documents **ONLY**. Hence, clarification related to Table – 4.2.1 of this annexure shall **NOT** be entertained.