

**INDIAN INSTITUTE OF TECHNOLOGY
(INDIAN SCHOOL OF MINES), DHANBAD**



E-TENDER DOCUMENT

Notice Inviting Tender (NIT)

for

Supply and Installation of VMST Application Development

Tender No.: **ME-PRJ-180-22-23 (GTE)**

Date: 22 December 2022

Bid Submission deadline: 27.01.2023, 1:00 P.M.

DEPUTY REGISTRAR (PURCHASE & STORES)

Indian Institute of Technology (Indian School of Mines), Dhanbad

DHANBAD –826004 (INDIA)

www.iitism.ac.in, purchase@iitism.ac.in

GSTIN : 20AAAAI0686D1ZA

Registration:-

Registration with M/s ITI Ltd: - Intending bidders are requested to register themselves with M/s ITI Ltd (if not registered earlier) through <https://mhrd.euniwizarde.com> for obtaining user-id, by paying a registration fee (Rs. 2000/- +18% GST per year charge), and online tender processing fee (2500/-+18% GST, NOT REFUNDABLE) etc. **Bidders are also required to obtain Digital Signature Class-III (Signing + Encryption) for participating in the e-tender.**

E-Tender Processing Fee (2500/-+18% GST, NOT REFUNDABLE), pay to "ITI LTD. Through e-payment Gateway.

For participating in the e-Tendering process of Indian Institute of Technology (Indian School of Mines), Dhanbad the contractor shall have to get them registered on the site <https://mhrd.euniwizarde.com> by making required payment through only online payment mode so that they will get user ID and Password. This will enable them to access the website, <https://mhrd.euniwizarde.com> with the help of Digital Signature by which they can participate in E-Tender of Indian Institute of Technology (Indian School of Mines), Dhanbad.

Registration Fee and Tender Processing Fee is collected by ITI Ltd. For any query related to payment and GST return / GST Input Tax Credit, ITI Ltd is to be contacted directly.

For any Query contact to our helpdesk Number 011- 4960 6060, 23710092 Email - HELPDESKEUNIWIZARDE@GMAIL.COM, Mr. Dipak Kumar Jha (08448288981) & Mr. Siddharth Ghosh (9355030604).

NOTICE INVITING TENDER (E-TENDER)**Subject: Supply and Installation of VMST Application Development**

Quotations are invited for the supply and installation of the following items at Indian Institute of Technology (Indian School of Mines) Dhanbad.

Sl. No.	Description of Materials	Unit	Quantity	Indenting Deptt./section
1.	<p>Supply and Installation of VMST Application Development compatible with 360 degrees, touch screen and HMD VR Hardware setup with required no. of perpetual licenses to operate the three modes of training which includes 12 systems (10 HMD + One training Kiosk + One 360 degree theater) and other hardware support systems</p> <p><i>(Detailed Specification given in Annexure – I)</i></p>	No.	As per the attached Annexures	Mining Engg

Tender Schedule:

Last Date for submission of Pre-Bid Queries	31.12.2022 at 06:00 P.M.
Pre-Bid Meeting scheduled on	05.01.2023 at 05:00 P.M. Through Google Meet

Particulars	Date & Time
Bid Security or Earnest Money Deposit	Rs. 20,00,000.00 (Twenty Lakhs only/-)
Start date and Time for Submission of Tenders	22.12.2022 at 1:00 P.M.
Last date and time for submission of tenders	27.01.2023 at 1:00 P.M.
Date and time of opening of tenders	27.01.2023 at 4.00 P.M.

- Bid security/EMD should not be deposited/paid to <https://mhrd.euniwizarde.com>. Please refer point no 11 of page 08 for details.**
- You are requested to quote your lowest rates for the supply of above items in price bid.
- Tender documents and bids should be submit through online mode only.

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CHAPTER 1
Instructions to Bidders

IIT (ISM), Dhanbad was formerly known as Indian School of Mines (ISM) and was a Deemed University before it got converted into an Institute of National Importance under the Institutes of Technology (Amendment) Act, 2016 passed by the Parliament of India and got the assent of President of India. The Indian School of Mines, now IIT (ISM), Dhanbad, was formally opened on 9th December 1926, by Lord Irwin, the then Viceroy of India to address the need for trained manpower related to mining activities in the country with disciplines of Mining and Applied Geology. In 1967, it was granted the status of a deemed to be university under Section 3 of UGC Act, 1956 and it was renamed as Indian Institute of Technology (Indian School of Mines) in 2016. It started as an institution to impart mining education, and today, has grown into a technical institution with various academic departments. IIT(ISM) is located in the mineral-rich region of India, in the city of Dhanbad in the state of Jharkhand. It is the third oldest institute [after IIT Roorkee and IIT (BHU) Varanasi] which got converted into an IIT.

IIT (ISM), Dhanbad intends to procure the equipment “**VMST Application Development**” to enrich its teaching and research facility at Dhanbad.

Reputed manufactures or authorized distributors are invited to submit their bid for “**VMST Application Development**” for IIT (ISM), Dhanbad as per this tender document in a Two-Bid System: - (a) Techno-Commercial (also termed as technical bid) bid (Part-1) consisting of all technical details of the item along with commercial terms and conditions, EMD and (b) Price bid (Part-2) indicating price for their items mentioned in the technical bid. All instructions and terms and conditions must be followed, failing which bid(s) will liable to be rejected.

INSTRUCTIONS

1. Offer should be submitted under TWO-BID system i.e. “Techno-commercial bid” and “Price bid” in online mode only through <https://mhrd.euniwizarde.com>.
2.
 - a) In a tender, either the Indian agent on behalf of the principle/ OEM and the Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.
 - b) If an agent submit bid on behalf of the principle/ OEM, the same agent shall not submit a bid on behalf of another principle/ OEM in the same tender for the same item/product.
3. Bidder(s) must submit GST Certificate / TIN and Scanned Copy of PAN with the bid (if applicable).
4. The offer must be submitted online in **Two-Bid** system through <https://mhrd.euniwizarde.com> Please send EMD in the form of DD issued from any Nationalized/Scheduled commercial Bank in favour of Registrar, IIT(ISM), Dhanbad payable at Dhanbad in the office of **Deputy Registrar (Purchase & Stores), IIT (ISM), Dhanbad– 826004 (Jharkhand, India)** only. Scan copy of the same should be submitted online.
5. The tenderers who are currently registered and shall continue to remain registered during the tender validity period with Central Purchase Organisation (CPO) or as a Micro and Small Enterprise (MSE) as defined in MSEs Order 2012 issued by Ministry of Micro, Small and Medium Enterprises (MSME) or as a Start-up as recognised by Department for Promotion of Industry and Internal Trade (DPIIT), are exempted from payment of Tender Fee and Earnest Money Deposit (EMD) / Bid Security. In case the tenderer falls in these categories, it should furnish certified copy of its valid registration details (registration with CPO or as a MSE or Start-up, as the case may be). Micro & Small Enterprises must attach Registration Certificate issued by DIC / KVIC / KVIB / Coir Board / NSIC / Directorate of Handicrafts and Handlooms, or any other body specified by MSME for authentication such as updated Udyog Aadhaar Memorandum / Acknowledgment.

6. Bid document(s) and all enclosures must contain the signature and seal of the authorised representative of the bidder.
7. The bidder quoting for item(s) as per this tender should be the registered to provide the item/services with the appropriate government authority. Copy of registration certificate should be submitted with the tenders.
8. The Bank/RTGS detail on the letter-head of the bidder(s) must be submitted along with the technical BID.
9. The Eligibility, Purchase Preference and other conditions will be as detailed in Order No. P45021/2/2017-P (BE-II) dated: 04th June 2020 issued by DIPP, Ministry of Commerce and Industries, GoI. Bidders are mandatory to indicate whether they are under Class – I local supplier, Class – II local supplier or Non- local supplier. Please refer terms and condition for details.
10. After opening of the price bid no query pertaining to technical aspects will be entertained.

CHAPTER 2
Terms and Conditions

The offer must comprise of the following, failing which it will be treated as non-responsive bid hence will be rejected:

1. The bids under Two-Bid System will consist of two parts as per following details:-
 - a) Techno-Commercial bid (Part 1) consisting of all technical details along with required EMD amount, cost of tender form (if any), technical offer (catalogue/brochure/specifications etc.), supportive documents related to eligibility criteria (Copies of documents/Certificates like GST Registration/ PAN/ Authorization letters/ PO or Work order copies as proof of supply/work done, tax related documents etc.) along with ALL applicable forms / annexures of this tender except (Price Schedule). All the pages included as Tender Document should be legible, neatly numbered and signed by authorized person with official seal of the Firm as acceptance of the terms and conditions. Offers with Counter Conditions will be liable for Rejection. *No information regarding price should be mentioned in this part.* Any price indication in the Technical Bid will be summarily rejected. Techno-Commercial bid to be submitted in online mode only through <https://mhrd.euniwizarde.com>.
 - b) Price bid (Part 2) indicating price for the items / services mentioned in tender documents. Price Schedule exactly as per format duly filled and to be submitted online mode only through <https://mhrd.euniwizarde.com>.

In stage-one, only the Techno-Commercial (Part 1) shall be opened and evaluated. In stage-two, the Price bids (Part 2) of only the technically qualified and acceptable offers will be opened, for further evaluation.

Important Note: Offers submitted not in line with the above guidelines will be liable for rejection.

2. All relevant technical specifications/details of offered items, drawings, printed technical leaflets, and commercial details which are necessary to ensure that offer is complete in all respects should be attached with the techno-commercial bid documents.
3. A 'Compliance Statement' (Form-6) along with status of compliance.
4. All applicable forms duly filled, signed and sealed must be submitted along tender documents in bid. The bidder is expected to examine all instructions, forms, terms and specifications in the Bid Document. Failure to furnish all information required as per the tender document or submission of a bid not substantially responsive to the tender document in all respect will be at the Bidder's risk & responsibility and may result in rejection of their bids.
5. IIT(ISM) does not bind itself to offer any explanation to those bidders whose Technical Bids have not been found acceptable by the Evaluation Committee of the Institute.
6. Following documents have to be furnished by the bidders with the techno-commercial bids (part-1):
 - (a) Technical literature/catalogue with the detail specification of the material
 - (b) Satisfactory performance certificate from their customers for same/similar supply/service must be enclosed along with the technical bid.
 - (c) A copy of this tender document must be signed and sealed on all pages by the bidder(s) accepting the instructions and terms & conditions of the NIT and must be attached with the BID.
 - (d) All relevant / applicable forms as per tender documents.
7. The Bidder shall indicate on the appropriate price schedule form (provided with the Tender in the Price Bid), the unit prices of the goods / services it proposes to supply under the contract.

8. Price should be quoted exactly as per the format as mentioned. Multiple rates for a single item/variable rates unless solicited in the tender will not be accepted and would lead to rejection of offer. Price bids with conditions /Counter conditions are liable for rejection. Detailed Break up of charges may please be furnished. In case all-inclusive price is quoted without detailed price break up, then IIT (ISM) Dhanbad will not be able to consider re-imbursement of any increase in statutory levies, if any.
9. Educational discounts, if any, should be factored while quoting. Justification of the price quoted must be provided with the Bid. For this, Price List of the OEM and purchase order of govt. organizations / IITs/ NITs/ CSIR Labs / ISRO labs etc. should be attached. Price bids of only technically qualified tenderers shall be opened in on a pre-notified date and time. Decision of IIT (ISM), Dhanbad in this regard will be final and binding by all the bidders.
10. Bid Security or Earnest Money Deposit (EMD): It must be submitted with the techno-commercial bid (part-1). Bid received without EMD in part-1 (techno-commercial bid) will be rejected. No interest will be payable by IIT (ISM), Dhanbad on the Earnest Money Deposit. The earnest money of all the unsuccessful bidder(s) will be returned to the respective bidder(s) through bank / RTGS transfer without any interest within 60 (sixty) days only after placing the order / awarding the contract. The Earnest Money of successful bidder(s) shall be returned on receipt of Performance Security (Performance Bank Guarantee / PBG) as mentioned in this tender document. If the successful bidder(s) fails to furnish the performance security or fails to deliver/provide the item/installation/service as per the order's terms and conditions within stipulated period, the earnest money shall be liable to be forfeited. An undertaking to this is to be submitted.

The bid security shall be in Indian Rupees. The bid security shall be in one of the following forms at the bidders' option:

- In the form of Demand Draft issued from any Nationalized/Scheduled commercial Bank in favour of Registrar, IIT (ISM), Dhanbad payable at Dhanbad
- A bank guarantee issued/confirmed by a Scheduled Commercial Bank in India in the form provided in the bidding documents and valid for 45 days beyond the validity of the bid. In case a bidder desires to submit a BG issued from a foreign bank, then the same should be confirmed by a Scheduled commercial bank in India; or
- Fixed Deposit receipt pledged in favour of the Registrar, IIT (ISM), Dhanbad
- Through RTGS/NEFT; details mentioned below:

Bidder submitting EMD via RTGS/NEFT is required to send detail in format mentioned below to brs@iitism.ac.in with a copy to purchase@iitism.ac.in mentioned EMD for (tender no) in subject line.

Details of IIT (ISM) Bank Account

Name of Account Holder	IIT (ISM) Dhanbad
Complete Contact Address	Indian Institute of Technology (Indian School of Mines), Admin Block, Dhanbad -826004 (Jharkhand)
Telephone /E mail	Mob: (0326)-2235202/2296605/6606 Email: brs@iitism.ac.in

Bank Account Details

Bank Name	State Bank of India
Branch name with Complete Address	ISM, Campus Branch, Dhanbad Pin -826004 (Jharkhand) 0326-2203120
IFSC Code	SBIN0001641
Type of Bank Account	Saving Account
Complete Bank Account No	37052696309
MICR Code of Bank	826002006

PAN Card Number	AAAAI0686D
TIN/TAN Number	RCHI00063A
GSTIN	20AAAAI0686D1ZA

Bidders are advised to deposit/pay online in above bank account only. They should not deposit/pay online to <https://mhrd.euniwizarde.com>.

SL No	Particular	Details (to be filled by the bidder)
1.	Tender Ref. No. & Details	ME-PRJ-180-22-23 (Supply and Installation of VMST Application Development)
2.	Bidders Name & Address	-----
3.	Bidders Contact Details	-----
4.	Type of Payment	EMD
5.	Amount Paid	Rs. _____
6.	Bank Name	
7.	UTR No./Payment Reference No.	
8.	Payment Date	

EMD shall be submitted in the electronic format online (by scanning) while uploading the bid. This submission shall mean that EMD is received electronically. However, BG/FDR should each in original to the designated officer through post (by mentioning NIT No. and date on envelope) or by hand so as to reach by the time of tender opening. In case of exemption of EMD, the scanned copy of the document in support of exemption will have to be uploaded by the bidder during bid submission.

10.1 The bid security may be forfeited:

- If a Bidder withdraws or amends or modifies or impairs or derogates its bid during the period of bid validity specified by the Bidder on the Bid Form; or
- In case of a successful Bidder, if the Bidder fails to furnish order acceptance within 14 days of the order or fails to sign the contract and/or fails to furnish Performance Security within 21 days from the date of contract/ order.

11. Performance Security or Performance Bank Guarantee (PBG):- The successful bidder(s), on whom order will be placed, has to submit a performance security of 3% (if bidder quoting in Indian currency) / 10% (if bidder quoting in foreign currency) of the total order value at the earliest as per PO terms before release of any payment. Performance security has to be submitted in the form of Bank Guarantee/Demand Draft/FDR from any Nationalized/Scheduled commercial Bank in favour of the Registrar, IIT (ISM), Dhanbad. Performance security should remain valid for a period of two months beyond the date of completion of all contractual obligations of the successful bidder(s). No interest will be payable by IIT (ISM) Dhanbad on the Performance Security deposited. In case the contractor fails to provide satisfactory service, the Performance Security submitted by the bidder(s) is liable to be forfeited. An undertaking to this is to be submitted within 21 days of receipt of the notification of award/PO, the Supplier shall furnish performance security (PS).

The performance security must be received within 21 days. However, the Purchaser has the powers to extend the time frame for submission of Performance Security (PS). Even after extension of time, if the PS is not received, the contract is liable to be cancelled.

12.1. In case of submission of Bank Guarantee, the bidder should ensure that the concerned bank sends a copy of Bank Guarantee to IIT(ISM), Dhanbad immediately through Registered Post/Speed post/courier/email (purchase@iitism.ac.in).

12. Validity Period: -

The validity period of the tender should be clearly specified. It must be at least for **180 (One Hundred Eighty) days** from opening of Technical bid.

In exceptional circumstances, the Purchaser may solicit the Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing (by post, fax or e-mail). The bid security provided shall also be suitably extended failing which the bid would be summarily ignored. A Bidder may refuse the request without forfeiting its bid security. A Bidder granting the request will not be required nor permitted to modify its bid.

13. Finalization criteria: L1 bidder will be decided on Overall L1 basis i.e. on Supply, Installation & Commissioning of VMST Application Development**14. Award of purchase order/Contract:** Order will be placed on the selected party after evaluation and approval of competent authority. However, Registrar IIT (ISM) Dhanbad reserves the right to cancel/discontinue this order at any point of time, with a notice to the supplier.**15. Warranty:** The item supplied should provide comprehensive warranty for a period of **Twelve months** after the goods / services have been delivered, acceptance and successful installation as per terms of the contract.

16.1 The Supplier warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.

16.2 Goods requiring warranty replacements must be replaced on free of cost basis to the purchaser.

16. Comprehensive Annual Maintenance Contract / Annual Maintenance Contract (AMC/CAMC): The charges towards AMC/CAMC should be provided separately for extension of warranty for additional years (which is beyond the normal warranty period) in the price bid if applicable.

- 17. Denial Clause:** That no increases in price on account of any statutory increase in or fresh Imposition of customs duty, excise duty, Sales Tax, GST or on account of any other taxes/duty, including custom duty, leviable in respect of the Stores specified in the said contract which takes place after original delivery period; shall be admissible on such of the said Stores, as are delivered after the said delivery period.
That notwithstanding any stipulation in the contract for increase in price on any other ground including foreign exchange rate variation, no such increase which takes place after original delivery period shall be admissible on such of the said Stores as are delivered after the said delivery period.
- 18. Delivery Period:** As time is the essence for this procurement, hence the ordered materials/work complete in all respects are required to be delivered and installed within **90 days** from issue of Purchase Order / Work Order to successful bidder. Terms of Delivery will be F.O.R.IIT (ISM), Dhanbad only.
- 19. Liquidated Damage:** Liquidated damages of 1% per week for the delayed period subject to maximum of 5% of the total basic value of the order shall be deducted from the invoice of the supplier. Earliest/expected delivery period should be clearly indicated.
- 20. Inspection:** Inspection shall be carried out at IIT (ISM), Dhanbad after arrival of the materials and decision of the Institute in this regard shall be final.
- 21. Rejection and Replacement:** Rejection, if any, shall be notified to the supplier within 30 days of receipt and inspection of the material/workmanship. Rejected materials/work is to be removed by the supplier at his own risk and cost from IIT (ISM) Campus within 15 days of intimation of rejection. Defective Supplies are required to be replaced within 15 days of the removal of the rejected materials/work.
- 22. Risk Purchase:** IIT (ISM) shall be at liberty to realize from the supplier the differential amount, if any, which it shall have to incur on purchase of the material/work at higher price(s) from elsewhere in the market, if the supplier, due to their fault, fails to supply the ordered quality and quantity of the material/work within the stipulated time.
- 23. Conditional offer / counter condition will not be accepted. Bidders offering any counter condition / conditional offer may be liable for rejection.**

24. Payment:

i) **For Supplier quoting in Indian currency:** Payment may be released through RTGS / online payment mode against complete execution of the purchase order (PO) and submission of all the required documents as per the order preferably within 30-45 days after satisfactory supply, inspection, installation / commissioning & acceptance and on submission of pre-receipted tax invoice, delivery challan, warranty certificate and installation report in triplicate and Performance Bank Guarantee. The invoice should be duly certified by the Head of Deptt. of IIT (ISM), Dhanbad to which supply is made or any other IIT (ISM) official authorized for this purpose. Advance payment may not be released. Payment will be released through bank/ RTGS/Wire transfer after statutory deductions.

ii) **For Supplier quoting in foreign currency:**

a) 80% payment through irrevocable letter of credit against dispatch of materials and submission of required documents.

(b) Balance 20% through wire transfer only after satisfactory completion of the work/installation, Submission as well as confirmation from issuing bank of the PBG and certified bill(s) / invoice(s) along with Warranty Certificate, installation of equipment, satisfactory commissioning and testing of samples by the user department.

Or

Full payment will be released via wire transfer against complete execution of the purchase order (PO) and submission of all the required documents as per the order preferably within 30-45 days after satisfactory supply, inspection, installation / commissioning & acceptance and on submission of pre-receipted tax

invoice, delivery challan, warranty certificate and installation report in triplicate and Performance Bank Guarantee.

25. All communications are to be addressed to the Deputy Registrar (Purchase & Stores), IIT (ISM), Dhanbad through Email (purchase@iitism.ac.in) quoting the Tender No.: ME-PRJ-180-22-23 (GTE) and Date 8 December 2022.
26. IIT (ISM), Dhanbad reserves the right to accept or reject or cancel any or all tender notice or bid(s) or order(s) at any stage without assigning any reason thereof.
27. For any dispute, the place of jurisdiction shall be Dhanbad (Jharkhand, India) only.
28. **Governing Law:** The order, placed, will be the contract between the successful bidder(s) and IIT (ISM), Dhanbad and shall be governed by the LAWS of India and under the contract shall be taken by the parties only in Dhanbad (Jharkhand, India) to competent jurisdiction.
29. Bid(s) shall be as per tender document only. If submitted in any other form / format, the same shall be rejected. All pages must be numbered properly and there must be seal and sign of the bidder(s) on all the pages of its bid.
30. The bid is liable to be rejected if complete information is not given therein, or if the particulars and data (if any) asked for in the Schedule to the tender are not filled-in properly.
31. The successful bidder(s) will indemnify IIT (ISM), Dhanbad, in case of any damage or liability, which may arise on account of any act or omission directly/indirectly attributable to the bidder(s).
32. Dispute, if any arising out of providing the said service(s) shall be settled mutually or arbitration by sole Arbitrator to be appointed by the Registrar, IIT (ISM), Dhanbad at Dhanbad, mutually agreed as per the provisions of the Indian arbitration and Conciliation Act, 1996 and the Rules framed there under. The award passed by the said sole Arbitrator, will be binding upon the parties. The arbitration proceedings shall be held at Dhanbad only.
33. The bidder(s) should be registered with Income Tax, GST etc. and to enclose the copies of the relevant certificate along with the technical bids. The agency must be authorized by appropriate government authority to deliver the items/services at the IIT (ISM) Dhanbad (Not applicable for foreign supplier directly participating in tender)
34. The successful bidder(s) will ensure that its employees/staff/personnel would strictly follow all the security instructions and rules and regulations of IIT (ISM), Dhanbad during their visit in the campus.
35. Necessary corrigendum(s), if required, may be issued at any stage, which must be acceptable to the bidder(s). Any corrigendum will be published on our website www.iitism.ac.in, <https://mhrd.euniwizarde.com> and <https://eprocure.gov.in/epublish/app>. Bidder(s) must be in touch with our website www.iitism.ac.in, <https://mhrd.euniwizarde.com> and <https://eprocure.gov.in/epublish/app> for corrigendum(s). It will be sole responsibility of the bidder(s) that they will go through the corrigendum(s) published, if any, on our website www.iitism.ac.in, <https://mhrd.euniwizarde.com> and <https://eprocure.gov.in/epublish/app> and submit its tender accordingly.
36. Shortlisted bidder(s) may be called for presentation / demonstration / meeting at IIT (ISM), Dhanbad office with a short notice (Minimum seven days time). Request from the bidder(s) to change the date and time of presentation / demonstration / meeting will not be accepted. If the bidder(s) will not attend for the same, then their bid(s) will be treated as non-responsive and hence the bid(s) will not be considered for further process.
37. Price bids will be opened for those bidder(s) who are shortlisted and declared as technically qualified bidder(s) by the Committee of the IIT (ISM), Dhanbad. In this regard, decision of IIT (ISM), Dhanbad will be final and binding to all the bidder(s).

38. Part supply of the Purchase Order / Work Order is not acceptable unless until it is explicitly mentioned in Purchase Order / Work Order.
39. Bid complete in all respect must be submitted through applicable mode before submission deadline / last date & time for submission of the bids. The bids will be opened as per IIT(ISM) rules. In case bid opening-date is a holiday/declared as a holiday, then next working date will be the opening date of tender. Submission deadline or bid opening date & time will not be changed upon any request from the bidder side. However, it may be changed as per IIT(ISM) rules. In this regard, decision of the IIT (ISM), Dhanbad will be final and binding to all the bidders.
40. For the items / services, the bidders must ensure the required quality, quantity, materials, dimensions & other parameters (HSN Code etc.) and quote accordingly. In case items / services provided are not same as quoted/ordered, the claim for payment shall not be accepted. No payment, claims for such items / services shall be released. In this regard, decision of IIT (ISM), Dhanbad will final and binding to the bidders.
41. IIT (ISM), Dhanbad at its discretion may change the quantity/quality/parameters/upgrade the criteria/drop any item(s) or part thereof at any stage. In case of any dispute, the decision of IIT(ISM) shall be final and binding on the bidders/tenderers.
42. IIT (ISM), Dhanbad reserves the right to accept or reject any or all the bids in part or in full without assigning any reason. The decision of the competent authority of IIT (ISM), Dhanbad will be final and binding to the bidder(s).
43. Professional(s) to be deployed by the successful bidder(s) for the supply of the item / installation / execution of the work in order to provide the item(s) /service(s) as per order must be well qualified.
44. ***If any fraudulent document submitted by the vender/firm is detected at any stage during the procurement or after the procurement, the institute will take appropriate legal action against the vender/firm including the recovery of two times of purchase order/award of work and equipment/items will not be returned.***
45. All the tenders received will first be scrutinized to see whether the tenders meet the basic requirements as incorporated in the tender enquiry document. The tenders, who do not meet the basic requirements, are to be treated as non-responsive and ignored. The following are some of the important points, for which a tender may be declared as unresponsive and to be ignored, during the initial scrutiny:
- i. The Bidder is not eligible.
 - ii. The Bid validity is shorter than the required period.
 - iii. The Bidder has quoted for goods manufactured by a different firm without the required authority letter from the proposed manufacturer.
 - iv. Bidder has not agreed to give the required performance security or has not furnished the bid security.
 - v. The goods quoted are sub-standard, not meeting the required specification, etc.
 - vi. Against the schedule of Requirement (incorporated in the tender enquiry), the bidder has not quoted for the entire requirement as specified in that schedule.
 - vii. The bidder has not agreed to some essential condition(s) incorporated in the tender enquiry.
46. **Purchase Preference (Gol no. P-45021/2/2017-PP (BE-II), dated 04/06/2020) P-45021/2/2017-PP (BE-II) dated 04th June, 2020 and P-45021/2/2017-BE-II-Part (1) (E-50310) dated 4th March 2021**
- A.** Subject to the provisions of above Order and to any specific instructions issued by the Nodal Ministry or in pursuance of Gol no. P-45021/2/2017-PP (BE-II) dated 04th June, 2020 and P-45021/2/2017-BE-II-Part (1) (E-50310) dated 4th March 2021 Purchase preference shall be given to 'Class-I local supplier' in procurements undertaken by procuring entities in the manner specified here under.
- B. In the procurements of goods or works, which are covered by para 3(b) of order no. P-45021/2/2017-PP (BE-II) dated 04th June, 2020 and P-45021/2/2017-BE-II-Part (1) (E-50310) dated**

4th March 2021 and which are divisible in nature, the 'Class-I local supplier' shall get purchase preference over 'Class-II local supplier' as well as 'Non-local supplier', as per following procedure.

- (i) Among all qualified bids, the lowest bid will be termed as L1. If L1 is 'Class-I local supplier', the contract for full quantity will be awarded to L1.
- (ii) If L1 bid is not a 'Class-I local supplier', 50% of the order quantity shall be awarded to L1. Thereafter, the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price for the remaining 50% quantity subject to the Class-I local supplier's quoted price falling within the margin of purchase preference (the margin of purchase preference shall be 20%), and contract for that quantity shall be awarded to such 'Class-I local supplier' subject to matching the L1 price. In case such lowest eligible 'Class-I local supplier' fails to match the L1 price or accepts less than the offered quantity, the next higher 'Class-I local supplier' within the margin of purchase preference shall be invited to match the L1 price for remaining quantity and so on, and contract shall be awarded accordingly. In case some quantity is still left uncovered on Class-I local suppliers, then such balance quantity may also be ordered on the L1 bidder.

C. In the procurements of goods or works, which are not divisible in nature, and in procurement of services where the bid is evaluated on price alone, the 'Class-I local supplier' shall get purchase preference over 'Class-II local supplier' as well as 'Non-local supplier', as per following procedure:

- i) Among all qualified bids, the lowest bid will be termed as L1. If L1 is 'Class-I local supplier', the contract will be awarded to L1.
- ii) If L1 is not 'Class-I local supplier', the lowest bidder among the 'Class-I local supplier', will be invited to match the L1 price subject to Class-I local supplier's quoted price falling within the margin of purchase preference, and the contract shall be awarded to such 'Class-I local supplier' subject to matching the L1 price.
- iii) In case such lowest eligible 'Class-I local supplier' fails to match the L1 price, the 'Class-I local supplier' with the next higher bid within the margin of purchase preference shall be invited to match the L1 price and so on and contract shall be awarded accordingly. In case none of the 'Class-I local supplier' within the margin of purchase preference matches the L1 price, the contract may be awarded to the L1 bidder.

D. Definitions: As prescribed in DIPP Order No. P-45021/2/2017-PP (BE-II) dated 04th June, 2020 and P-45021/2/2017-BE-II-Part (1) (E-50310) dated 4th March 2021:

- **'Local content'** means the amount of value added in India which shall, unless otherwise prescribed by the Noda! Ministry, be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent.
- **'Class-I local supplier'** means a supplier or service provider, whose goods, services or works offered for procurement, has local content equal to or more than 50%, as defined under said Order.
- **'Class-II local supplier'** means a supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%, as defined under said Order.

- **'Non -Local supplier'** means a supplier or service provider, whose goods, services or works offered for procurement, has local content less than or equal to 20%, as defined under above Order.

47. Bid Prices: Bidders are requested to note that they should necessarily submit their price bids in the format provided and no other format is acceptable. Bidder shall indicate on the appropriate price schedule form, the unit prices and total bid prices of the goods it proposes to supply under the contract. Bidders are required to quote each and every item in price bid. Failing to this bid may be liable for rejection.

Note: IIT (ISM) Dhanbad will not be responsible or liable to pay if bidder fails to mentioned packing, forwarding, freight, insurance charges, taxes etc. in its price bid.

50. Pre-bid Conference (PBC): A Pre-bid Conference may be held, if indicated in invitation to bid. All prospective bidders are requested to kindly attend the Pre-bid Conference. In order to facilitate the purchaser the proper conduct of the Pre-bid Conference, all prospective bidders are requested to kindly submit their queries (with envelope bearing Tender No. and Date on top and marked "Queries for Pre-bid Conference") so as to reach the purchaser as indicated in invitation to bid. **Bidder may also email pre-bid queries to purchase@iitism.ac.in highlight tender no., tender date and tender name while communicating.** The purchaser shall answer the queries during the pre-bid conference, which would become a part of the proceedings of the Pre-bid Conference. The proceeding of the Pre-Bid Conference would be hosted on the website of the purchaser. Before formulating and submitting their bids, all prospective bidders are advised to surf through the purchaser's website after the Pre- bid Conference, in order to enable them take cognizance of the revised tender conditions.

51. If the successful bidder(s) commits breach of any of the above or Order's terms and conditions or is not able to deliver the item / provide the services / complete the work on time, the contract will be cancelled and security deposit shall be forfeited and a damage liability at the discretion of IIT (ISM), Dhanbad will be imposed on the bidder(s).

52. Eligibility in case of Land Border Share: I. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority as per order F.N. 6/18/2019-PPD dated 23 July 2020.

CHAPTER 3: Other Forms

Form-1
Bid-Securing Declaration Form

Date: _____
Bid No. _____

To,

The Registrar,
Indian Institute of Technology (Indian School of Mines)
Dhanbad -826004

I/We. The undersigned, declare that: I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration.

I/We accept that I/We may be disqualified from bidding for any contract with you for a period of two year from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or refuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Date:

Signature:

Name of Authorized Signatory:

Name of Bidder:

Seal of Bidder:

Form-2
Contract Form

To,
The Registrar,
Indian Institute of Technology (Indian School of Mines),
DHANBAD– 826004.

Ref.: Your Notice Inviting Tender No. IIT-ISM / ME-PRJ-180-22-23 (GTE), Dated: 22 December 2022

Sir/ Madam,

1. I/We have gone through all Chapters of the tender document such as Instructions and Terms and conditions, minimum eligibility criteria, schedule of requirements, Specifications and allied technical details etc. as enlisted by you in your Notice Inviting Tender for the subject under reference.
2. I/We, hereby confirm that we have understood all the above and confirm my/our commitment to abide by them.
3. If our tender is accepted, I/we undertake to supply the goods and perform the services as mentioned above, in accordance with the delivery schedule specified in the tender document.
4. I/We agree to keep our tender valid for acceptance for a period up-to as required in tender documents or for subsequently extended period, if any, agreed to by us. We also accordingly confirm to abide by this tender up-to the aforesaid period and this tender may be accepted any time before the expiry of the aforesaid period. I/We further confirm that, until a formal contract is executed, this tender read with your written acceptance thereof within the aforesaid period shall constitute a binding contract between us.
5. I/We further understand that you are not bound to accept the lowest or any tender you may receive against your above-referred tender enquiry.
6. I/We hereby declare that all statements/details made in this tender are true, complete and correct to the best of my knowledge and belief. I/We understand that in the event of any information being found false or incorrect at any stage or we do not satisfy any of the stated criteria, our offer is liable to be cancelled automatically and IIT (ISM), Dhanbad may take an action against this firm for such false information including legal action.

Documents Required	Document No. (Submit a copy of the same)
Photo identity of Authorized signatory (i.e. PAN Card/Voter ID/Aadhaar Card/Official ID Card)	
GSTIN of Bidder	
PAN of Bidder	

Date:

Signature:

Name of Authorized Signatory:

Designation of Authorized Signatory:

Name of Bidder:

Address of Bidder:

Seal of Bidder:

Form-3**FORMAT FOR BANK GUARANTEE FOR PERFORMANCE SECURITY
(PERFORMANCE BANK GUARANTEE)**

To
The Registrar
Indian Institute of Technology
(Indian School of Mines) Dhanbad-826004 (JHARKHAND)

Reference :P.O.No._____dated_____

Dear Sir,

GUARANTEENO._____date:_____

AMOUNT OF GUARANTEE Rs._____

GUARANTEE COVERS FROM _____ TO _____

LAST DATE FOR LODGEMENT OF CLAIM:_____

This deed of Guarantee executed by the (_____ name of the Bank) constituted under _____
Act, _____ having its Central Office at _____ and amongst other places a
branch at _____ (hereinafter referred to as "The Bank") in favour of The
Registrar, Indian Institute of Technology (Indian School of Mines), Dhanbad-826004 (hereinafter referred to as "The
Beneficiary" for an amount of not exceeding Rs _____
(Rs. _____) at the request of M/s _____
(hereinafter referred to as the
"Contractor(s)"/"Supplier(s)").

In consideration of The Registrar, Indian Institute of Technology (Indian School of Mines), Dhanbad-826004
(hereinafter called the Purchaser) having entered into an agreement vide their Purchase Order No.
_____ dated _____ with M/s _____ (hereinafter called the
Supplier) to carry out the supply and installation of the _____ (Name
of the equipments/work/Job)

at their Indian Institute of Technology (Indian School of Mines), Dhanbad as per their above order, the supplier
agreed to execute a Bank Guarantee for _____% of the supply order value viz. Rs. _____ (Rupees
_____) towards Performance Warranty obligation for a period of _____
year(s) from _____ to _____.

We, the _____ Bank, _____ Branch (hereinafter referred to as a Guarantor) at
the request of the supplier, irrevocably undertake to indemnify and to keep indemnify the Company without any
demur to the extent of Rs. _____ (Rupees _____) in the event of
the aforesaid supplier failing to comply the Warranty Obligation as per the agreed terms to the full satisfaction of the
Company.

We _____ Bank, further agree that the Guarantee herein contained shall remain in full force and affect during the period that would be taken for the performance of the equipment as stated in the Purchase Order issued by the Company and that it shall continue to be enforceable till the completion of the period and certified that warranty obligation have been fully carried out by the supplier and accordingly discharges the Guarantee subject. However, the Company shall have no right under after the expiry of the Guarantee, i.e. _____ (date).

We, _____ Bank undertake not to revoke this Guarantee, during its currency except with the previous consent of the Company in writing.

Notwithstanding anything contained herein.

1. Our liability under the Bank Guarantee shall not exceed Rs. _____ (Rupees _____).
2. This Bank Guarantee shall be valid up to _____.
3. We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written claim or demand on or before expiry of date (i.e. _____).

NOTWITHSTANDING anything contained herein above, our liability under this Guarantee is restricted to Rs. _____ (Rupees _____ only) our guarantee shall remain in force until. Unless a Demand or claim under the guarantee is made on our bank in writing on or before _____ all your rights under the said guarantee be forfeited and we shall be relieved and discharged from all liabilities thereunder.

Details of the Issuing Bank

Name of the Bank	
Branch Name	
Branch Code	
IFSC Code	
E-mail Id	
Phone/Mobile No.	

Seal & Signature of the Bank

Note: Whenever, the bidder chooses to submit the Performance Security in the form of Bank Guarantee, then he should advise the banker issuing the Bank Guarantee to immediately send a copy of the same by Email (purchase@iitism.ac.in) to IIT (ISM) with a covering letter to compare with the original BG for the correctness, genuineness, etc.

Form-4

**FORMAT OF BANK GUARANTEE TOWARDS BID SECURITY
(EARNEST MONEY DEPOSIT)**

To
 The Registrar
 Indian Institute of Technology (Indian School of Mines)
 Dhanbad-826004 (JHARKHAND)
 Reference:NIT. No. _____ dated _____

Dear Sir,

GUARANTEE NO. _____ date: _____

AMOUNT OF GUARANTEERS. _____

Whereas _____ (hereinafter called "the Bidder") has submitted its bid dated _____ (date of submission of bid) for the supply of _____ (name and/or description of the goods) (herein after called "the Bid") against Notice Inviting Tender (Tender Document) No. _____ dated _____ of the Indian Institute of Technology (Indian School of Mines), Dhanbad.

KNOW ALL PEOPLE by these presents that WE _____ (name of bank) of _____ (name of country), having our registered office at _____ (address of bank) (hereinafter called "the Bank"), are bound unto _____ (name of Purchaser) (hereinafter called "the Purchaser") in the sum of _____ for which payment will and truly to be made to the said Purchaser, the Bank binds itself, its successors, and assigns by these presents. Sealed with the Common Seal of the said Bank this _____ day of _____ (year).

THE CONDITIONS of this obligation are:

- 1) If the Bidder withdraws its Bid during the period of bid validity specified by the Bidder on the Bid Form; or
- 2) If the Bidder, having been notified of the acceptance of its bid by the Purchaser during the period of bid validity:
 - a) fails or refuses to execute the Contract Form if required; or
 - b) fails or refuses to furnish the performance security, in accordance with the Instruction to Bidders; We undertake to pay the Purchaser up to the above amount upon receipt of its first written demand,

Without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions. This guarantee will remain in force up to Six/ Eight Months from the date of opening of tender or the period of the bid validity whichever is later and any demand in respect thereof should reach the Bank not later than the above date.

Details of the Issuing Bank

Name of the Bank	
Branch Name	
Branch Code	
IFSC Code	
E-mail Id	
Phone/Mobile No.	

Deal & Signature of the Bank

Note: Whenever the bidder chooses to submit the Bid Security in the form of Bank Guarantee, then he should advise the banker issuing the Bank Guarantee to immediately send by Registered Post (A.D.) an unstamped duplicate copy of the Guarantee directly to the Purchaser with a covering letter to compare with the original BG for the correctness, genuineness, etc.

Details of the Bank Account of IIT (ISM) Dhanbad for Bank Guarantee purpose

INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD	
Bank Account Details for Bank Guarantee purpose	Bank: State Bank of India Branch: I.S.M. Campus Branch, Dhanbad – 826004 (Jharkhand) Branch Code: 01641 IFSC: SBIN0001641 A/c No.: 37052696309
PAN	AAAAI0686D
GSTIN	20AAAAI0686D1ZA
TIN / TAN Number	RCHI 00063A
DSIR Certificate No. (for custom duty and excise duty exemption)	No.: TU/V/RG-CDE(367)/2020, Dated: 28th September 2020

Registrar

Form-5

MANUFACTURERS' AUTHORIZATIONFORM

The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer and be enclosed with the technical bid.

Date:

Tender No.:

Address of the Manufacturer:

We do hereby authorize *[insert complete name and address of Bidder]* to submit the bid as per above-mentioned tender no. and to subsequently negotiate and sign the Contract. This is to confirm that the item(s) as per the tender is/are manufactured by our firm.

We hereby extend our full guarantee and warranty in accordance with Clause 14 of the Terms & Conditions, with respect to the Goods offered by the above firm.

We hereby confirm the compliance of the technical specifications submitted by our authorized Bidder (Form-7)

Signed: *[insert signature(s) of authorized representative(s) of the Manufacturer]*

Name: *[insert complete name(s) of authorized representative(s) of the Manufacturer]*

Title: *[insert title]*

Duly authorized to sign this Authorization on behalf of: *[insert complete name of Bidder]*

Dated on _____ day of _____ *[insert date of signing]*

Form-6**COMPLIANCE STATEMENT FORM**

S. No. (as per NIT)	Required Specifications /Parts/Accessories of Tender Enquiry	Quoted specification including Model No. if any	Compliance (Yes / No)	Deviation, if any to be indicated with technical justification (The compliance/ deviation should be supported with relevant Technical literature/brochure)
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Seal and Sign of Bidder

UNDERTAKING BY THE BIDDER

- ❖ If the bidder offers more than one model, then the Compliance Statement must be enclosed for each and every model separately.
- ❖ The technical and commercial deviations should be indicated separately.
- ❖ If the bidder fails to enclose the technical compliance statement, the bid will be rejected.
- ❖ If the bidder furnishes document(s) (including compliance) or makes statement(s)/declaration(s) which is found to be false/wrong/forged at any point of time prior/during/post purchase process, the EMD of the bidder will be forfeited including cancellation of the bid, blacklisting of bidder/Manufacturer and appropriate legal action by the Institute. The decision of the Institute will be final in such cases.
- ❖ After opening of the price bid no clarification/query on technical aspects will be entertained by the Institute.

Signature and Seal of the Bidder

Place:-

Date:-

Form-7**Declaration by bidder****(Please specify Class of Supplier and Local Content percentage)****In accordance and manner as specified in Order No. P45021/2/2017-PP (BE-II) dated : 04th June 2020 and 2th March 2021 issued by DIPP, Ministry of Commerce and Industries, GoI.**

To,
The Registrar,
Indian Institute of Technology (Indian School of Mines)
Dhanbad -826004

Respected Sir,

In accordance with the order No. P-45021/2/2017-PP (BE-II) dated 04th June, 2020 and P-45021/2/2017-BE-II-Part (1) (E-50310) dated 4th March 2021 I hereby declare that

- i) I am aware about all provision mentioned in Tender No. ME-PRJ-180-22-23 (GTE) as well as order No. P-45021/2/2017-PP (BE-II) dated 04th June, 2020 and P-45021/2/2017-BE-II-Part (1) (E-50310) dated 4th March 2021 and abides by the same.
- ii) I declare that for this tender, I am a **Class-I local supplier / Class-II local supplier / Non-local supplier** (Strike out whichever is not applicable) and classification is based on local content of goods/services/work offered by bidder in this tender.
- iii) **Local content (in percentage) in offered** good/services/work is: _____ %
Whereas 'Local Content' means the amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent.
- iv) The services such as transportation, insurance, installation, commissioning, training and after sales service support like AMC/CMC etc. are not included as Local content in case of imported products.
- v) The local content for all inputs which constitute the said goods/services/works has been verified and bidder is responsible for the correctness of the claims made therein.

Date:

Signature:

Name of Authorized Signatory:

Name of Bidder:

Seal of Bidder:

Form-8**Quality Control Requirements / Declaration by Tenderer**

[Supplier shall fill the following format and submit along with the bid.]

Subject: Tender Enquiry NoME-PRJ-180-22-23 (GTE) dated 22 December 2022

Sl No.	Para-Meters	Requirements	Offered	Deviation, (if any.)
1.	Specifications	I shall supply, install & commission the material exactly as per specifications in ANNEXURE-I	Accepted	
2.	Contract Form	Duly filled, signed and sealed is to be submitted in the prescribed format as per form-2	YES (Page no. ____)	
3.	Seal/Signature	All the pages of the Tender Documents are numbered, sealed, signed & Submitted.	YES	
4.	Authorization certificate	Tenderers have to submit Manufacturer's Authorization form certificate along with bid. (Form-5)	YES (Page no. ____)	
5.	Other Essential Certificate	GST Certificate, TIN and Scanned Copy of PAN with the bid	YES (Page no. ____)	
6.	Catalogue/ Brochures /technical literature	Catalogue giving the Technical details of Advance Polarizing Microscope with Digital Camera and Imaging Software for Live XY Building. is attached.	YES (Page no. ____)	
7.	Purchase orders	Copies of previous Purchase orders/Work Orders pertaining to Experience and Past Performance against Qualification/Eligibility criteria (if applicable)	YES (Page no. ____)	
8.	Payment terms	Payment terms as per tender conditions is accepted	YES (Page no. ____)	
9.	Delivery schedule	Successful bidder should supply, install & commission the item within 60 Days after placement of Purchase Order	YES (Page no. ____)	
10.	Compliance Statement	Submitted as per Form-6	YES (Page no. ____)	
11.	EMD	Submitted in form of DD/PBG/Bid Securing declaration/ Valid Exemption Certificate	YES (Page no. ____)	
12.	Bank Detail	The Bank/RTGS Detail on the letter head of the bidder(s)	YES (Page no. ____)	
13.	Vendor's Registration Certificate	Registration Certificate to provide the Item/ services with the appropriate Govt. Authority.	YES (Page no. ____)	
14.	Warranty Clause	Warranty clause as per tender conditions is accepted.	YES (Page no. ____)	
15.	Class Of Supplier	Class of Supplier -----(Class I/class II/Non-local Supplier) in accordance with Order No. P45021/2/2017-PP (BE-II) dated 04 th June 2020 issued by DIPP, Ministry of Commerce and Industries, GoI. (to be enclosed with the technical bid) Form No.: 7	YES (Page no. ____)	

Yours faithfully,

Date:

Signature:

Name of Authorized Signatory:

Name of Bidder:

Seal of Bidder:

Annexure A

DEVELOPMENT OF VIRTUAL REALITY MINE SIMULATOR (VRMS) FOR IMPROVING SAFETY AND PRODUCTIVITY IN INDIAN COAL MINES**Technical Specifications**

Sl. No.	Item	Quantity
1	360-degree immersive display system (VR Theatre) with accessories including shipping, 5 year maintenance, training etc. installation of the mine safety and operation modules	1 Set
1A	Screen and Support Structure <ol style="list-style-type: none"> 8 m diameter, 3.1 m high aluminum cylinder frame 4-way self-standing floor mounted truss to secure AV and projector/ceiling mounted mechanics/Gantry structure as applicable 2.8 m high, 25 m circumference, 360-degree high contrast single piece screen capable of remaining vertically straight Curved locking door with inner panel to complete 360-degree screen having same optical characteristics Screen gain of less than unity Half-gain viewing of 60 deg (both horizontal & vertical) 360-degree Polyester outer cover printed to 300DPI, branding to IIT (ISM) design. (Institute template will be provided) Blackout fabric cap to control light 5 kW portable air conditioning unit 	1 set
1B	Projection System 6 + 1 (spare) nos. of LCD/DLP Laser Projectors with 4.3 million pixels or better with appropriate lens system for projection in VRMS theatre with 3 spare bulbs Specifications: <ol style="list-style-type: none"> 7,000 lumens or better 4K Enhancement Technology Powered zoom lens with vertical shift Multiple modern display ports (as used by Professional Simulation Projectors) Laser light source up to 20,000 hours of life use High dynamic range (HDR) DP1.2, HDMI 2.0 and dual-link DVI input ports, to support high resolution or compatible with 4K 60 Hz or better 3D Stereo Ready with type C port Image size range from 60" to 1000" diagonal Projector mounting poles (compatible with projectors and screen sizes and focal length) Calibration capability Appropriate cables (upto 25 m ± 5 m) for connecting with image servers 	7
1C	Support Systems <ol style="list-style-type: none"> Server to create real-world alignment-based images; <ul style="list-style-type: none"> o RAM- 128 GB or better; Storage-10TB, o Intel® Core i7 or better, o Graphics card – NVidia RTX 4000 or better o Network Switch - Unmanaged switch 24 port o Wi-Fi router of 10 Gigabit (Mesh Network) or better for networking 49-inch 4k HDR curved monitor, Full HD or larger Touch Screen for 360 degree VR operation Cloud storage - 20 TB for 5 years External Hard disk - 5 TB in 2 nos for backup Sound card spec (Interface)PCIe; (SNR (dB))116 dB or better; (THD+N)0.00251 %(-92 dB) (Headphone output power)2Vrms (5.65Vp-p) (I/O)3 x 3.5 mm jack (1/8") (Front out/Side out/Rear out) 1 x 3.5 mm jack (1/8") (Line-in/Mic-in); 1 x S/PDIF out (1 x Optical (To slink)) 1 x Front audio header; (Audio Processor) Cmedia 6620A (D-A Converter) Realtek S1220A, (A-D Converter) Realtek S1220A Night Vision CCTV for trainee monitoring in 360 degree theatre Audio system (5.2 or better) with ceiling mounted speakers (flush type) 	1 set or as applicable

1D	Wireless 360-degree navigation gamepad or equivalent or better for interactive fly through equipped with precision twist rudder control, 12 programmable buttons, 8-way hat switch, rapid-fire trigger, contoured grip, and stable weighted base or better	1 set
1E	iOS/Android/Windows based Tablet for wireless control (256 GB storage or better, 16 GB RAM or better, Quad-core processor or better, 12-inch diagonal or better, 2736 x 1824 -pixel resolution or better)	1
1F	Training Kiosk - 85 inch or better touch screen size with stand, 4K resolution (3840 x 2160), Wide color gamut & HDR and multi-source viewing-Intel i5 or better, 8GB RAM, 128 GB SSD, Windows 10, 4K camera, HFOV 130 degrees or better with WiFi 5.0 & Bluetooth 5.0	1
1G	HMD immersive VR setups with associated hardware (Standalone wireless HMDs) with WiGig (Wireless Gigabit) technology. a) HMD Head set – 3 cameras, spatial Audio; 256GB, 12GB RAM; HMD- Snapdragon (XR2T) b) Controller- Snapdragon 662 mobile processor; 3 cameras, haptic Feedback c) Real Time Expression Tracking	10
1H	High End Graphic Laptop for configuring VR Modules and Scenarios and interfacing with HMDs Specifications: i7 or better Processor; 32 GB memory; 1 TB SSD storage, 8 GB Graphics, Windows 11	2
1I	Compatible VR Content development software package with perpetual licenses. Features required: a) Warping - Geometry correction of cylindrical screen, controlled by Desktop/Laptop/Tablet as applicable, seamless blending of multiple projectors, colour correction/calibration with minimum latency, Provide sub-degree pixel and geometric accuracy b) Control - Multi-layer content playback and scheduling. Drag and drop content set-up, pan, tilt and zoom 360 content c) Remote - Take full control of the content playback from Desktop/Laptop/Tablet as applicable. d) Interact - Allows playback of OS e) Web - Immerse yourself in the web and view up to 7 web browsers at once and enable things like 360 street view f) Should be hardware independent	5
1J	Support and Maintenance Hardware and Software a) 5-year comprehensive SLA b) Video remote support kit c) Minimum 10 days (two weeks) extensive software training d) On-site support as an when required	5 Years
1K	Project Services a) System design b) System Installation and Configuration c) System Control programming d) System Training e) Project Management	As applicable
2	Data Capture for VMST (Virtual Mine Safety Training) Data Capture for Jhanjra Underground Mine, ECL and Nigahi Opencast Mine, NCL, for developing safety and operation modules as detailed in Annexure B and C including a) 360-degree photo and video capture of relevant mine locations, equipment, operations, plans, sections and SOPs b) Capturing technology must be compatible to generate high quality images/videos for true immersive experience (4K Recording+4K Rendering+4K Projection)	As applicable in two mines

3	VMST Application Development compatible with 360-degree, touch-screen and HMD VR Hardware setup with required no. of perpetual licenses to operate the three modes of training which includes 12 systems (10 HMD+one Training Kiosk+ one 360 degree Theatre) Safety and operation modules need to be implemented w.r.t underground as well as surface mine with voice over capability in English and Hindi languages are as follows: Safety Modules:	
	a) Escape from hazardous situation unaided	Refer Annexure B and Annexure C (as applicable for Nigahi OCP and Jhanjra UGP)
	b) CPR training	
	c) Firefighting	
	d) Electrical equipment isolation	
e) Heavy and light vehicle interactions		
f) Hazard awareness both underground and opencast		
g) Mine induction training (General)		
3	Operation modules: • Opencast mine – Drilling, Blasting, Dragline, Shovel-Dumper and General Maintenance	Refer Annexure B
	• Underground mine: Longwall Retreat Mining, Development by Roadheader, Continuous Miner-Shuttle Car, Man riding, Roof bolting, Hoisting and General Maintenance	Refer Annexure C
4	Scenario Generation for Indian VMST Application compatible with 360-degree, Training Kiosk and HMD VR Hardware setup (Two scenarios or better for each module of two selected mines as explained in Annexure B and C)	2

Software training of personnel must include:

- Basic training for recording, rendering, projection of training modules & scenario development
- Everyday operation (start-up and shut-down etc)
- Loading content
- Switching between content sources
- Warping procedures
- Fault finding
- Creating software ready content

Bid Eligibility Criteria:

- Supplier should have previous experience of VR Application Development
- Experience in mining or allied industry preferred
- Should have past supplies done in VR development with relevant PO/WO to different clients detailing the development done alongwith successful delivery in any reputed firm
- A turnover per year above 4 crore in the last three (3) financial years

Other Terms:

The ownership of the VR Modules developed will be with IIT(ISM) Dhanbad. An agreement to this effect shall be signed with the successful Bidder at the time of placement of firm order.

Encl.:

Annexure B: VMST Application Development and Scenario Generation, Nigahi Opencast Project, NCL
Annexure C: VMST Application Development and Scenario Generation, Jhanjra Underground Project, ECL
Annexure D: Plan of VR Theatre (in ready condition with UPS backup and Power)

cont...Annexure B

SOP based operation module: Drilling Operation, Nigahi Opencast Project, NCL

Note: This is to give an idea of for VR Content Development and shall be developed and provided by IIT(ISM) Dhanbad for other modules once the work is awarded. Most of these can be captured in photos and videos in the mine environment in consultation with the mine authority.

Equipment	Tasks	Procedure/Action		
Drilling	General	1	Wear PPE kit and carry all safety accessories (helmet, dust mask, reflective jacket, goggles)	
		2	Working in intoxicated condition during duty is strictly prohibited	
		3	Do not use mobile phone and headphones while in work	
		4	Tight fitting clothes should be worn during duty by individuals	
	Inspection	1	Awareness and knowledge of safety provisions of the related work before commencement of operation.	
		2	Inspection of the workplace before commencement of the operation.	
		3	Ensure the working of light, audiovisual alarm, side mirror etc.	
		4	Inspect brake lever, steering lever and other safety devices like brake, light, emergency stop button	
		5	If drill is of electrical type, make sure that the rotatable wire cable box has at least one cable ring.	
	Operation	1	If there is any cut in cable cover then the cable man should not touch it and inform the concerned officials about it.	
		2	While marching the machine, make sure the cable is loose otherwise it may come out of the junction box.	
		3	While marching make sure the chain idler is kept forward and chain socket is kept backward.	
		4	Drill mast should be placed in downward position.	
		5	Before commencement of drilling operation, driller should ensure ground stability to avoid any kind of accidents	
		6	Drill bit should be in clean condition and the driller should ensure that no debris lies around the area to be drilled	
		7	Controlled electricity load should be applied on the drill rod	
		8	Do not try to repair if there is oil leakage during working of the machine	
		9	Do not operate the machine in case of any unusual noise and do not know the reason behind its occurrence	
		10	Do not sit and allow anyone to sit/move around the compressor and hydraulic parts of the machine	
		11	Inform the concerned officials in case of any danger is anticipated around the drill face	
		12	Keep the machine in switch off condition during filling of fuel (in case of diesel) in the drill machine	
		13	Do contact supervisor if there is oil leakage or any other fault found in the drill machine	
14		Do not leave the machine on the road unless overburden material is filled for ground support on both sides		
15		Do not haul the machine over electrical cables.		
16		In case of any fire accident, turn off the machine, use emergency fire suppression system and inform the officials		
17		Use emergency swap switch during emergency		
18		Do not place the machine under the overhead cables		
19	Hydraulic jack to be used during drilling			
20	Do not march the machine with boom held high			
21	Do not move the machine to places where crack is developed by blasting			
22	The mouth of the blower should always be in the opposite direction of the working of the machine			

cont...Annexure B

SOP based operation module: Drilling Operation, Nigahi Opencast Project, NCL

Note: This is to give an idea of for VR Content Development and shall be developed and provided by IIT(ISM) Dhanbad for other modules once the work is awarded. Most of these can be captured in photos and videos in the mine environment in consultation with the mine authority.

Equipment	Tasks	Procedure/Action
Drilling	General	1 Wear PPE kit and carry all safety accessories (helmet, dust mask, reflective jacket, goggles)
		2 Working in intoxicated condition during duty is strictly prohibited
		3 Do not use mobile phone and headphones while in work
		4 Tight fitting clothes should be worn during duty by individuals
	Inspection	1 Awareness and knowledge of safety provisions of the related work before commencement of operation.
		2 Inspection of the workplace before commencement of the operation.
		3 Ensure the working of light, audiovisual alarm, side mirror etc.
		4 Inspect brake lever, steering lever and other safety devices like brake, light, emergency stop button
		5 If drill is of electrical type, make sure that the rotatable wire cable box has at least one cable ring.
	Operation	1 If there is any cut in cable cover then the cable man should not touch it and inform the concerned officials about it.
		2 While marching the machine, make sure the cable is loose otherwise it may come out of the junction box.
		3 While marching make sure the chain idler is kept forward and chain socket is kept backward.
		4 Drill mast should be placed in downward position.
		5 Before commencement of drilling operation, driller should ensure ground stability to avoid any kind of accidents
		6 Drill bit should be in clean condition and the driller should ensure that no debris lies around the area to be drilled
		7 Controlled electricity load should be applied on the drill rod
		8 Do not try to repair if there is oil leakage during working of the machine
		9 Do not operate the machine in case of any unusual noise and do not know the reason behind its occurrence
		10 Do not sit and allow anyone to sit/move around the compressor and hydraulic parts of the machine
		11 Inform the concerned officials in case of any danger is anticipated around the drill face
		12 Keep the machine in switch off condition during filling of fuel (in case of diesel) in the drill machine
		13 Do contact supervisor if there is oil leakage or any other fault found in the drill machine
14 Do not leave the machine on the road unless overburden material is filled for ground support on both sides		
15 Do not haul the machine over electrical cables.		
16 In case of any fire accident, turn off the machine, use emergency fire suppression system and inform the officials		
17 Use emergency swap switch during emergency		
18 Do not place the machine under the overhead cables		
19 Hydraulic jack to be used during drilling		
20 Do not march the machine with boom held high		
21 Do not move the machine to places where crack is developed by blasting		
22 The mouth of the blower should always be in the opposite direction of the working of the machine		

Annexure C

VRMS Application Development and Scenario Generation–Jhanjra UGP, ECL

Development of the following VR modules in respect of Jhanjra Underground Coal Mine Project, ECL is required. The description of the VR content, module-wise, is narrated briefly. Relevant SOP shall be provided by IIT(ISM) in consultation with the mine for better understanding of the detailed components. Necessary audio-visual data needs to be obtained by the VR developer for building these modules and also create two scenarios in each module. Most of these modules can be captured in photos and videos in the mine environment or rendered as applicable.

Safety Modules – SOP steps and scenarios, as applicable, shall be provided by IIT (ISM)	
Modules	Description
Escape from hazardous situation unaided	<ul style="list-style-type: none"> Principle hazards of mine- Fire, Inundation, Roof and Side Fall Depending upon the type of hazard PPEs to be used Safe escape route to be followed using joystick depending on hazards
CPR training	<ul style="list-style-type: none"> Identify the case whether CPR is needed or not CPR training to be done using CPR manikin
Firefighting	<ul style="list-style-type: none"> Type of Fires & Fire Extinguishers and their usage Dealing with fire in Underground Equipment
Electrical equipment isolation	<ul style="list-style-type: none"> Use of circuit breakers (shut down / electricity cut-off procedure) Lock-out and tag-out system for electrical and mechanical energy Flame Proof and Intrinsically Safe features
Heavy and light vehicle interactions	<ul style="list-style-type: none"> Multi-utility vehicle and other machinery in the operational area Condition of Mine Roadway and Transport Rule
Hazard awareness	<ul style="list-style-type: none"> Ability to recognize underground mine hazards such as roof/rib failure, spontaneous heating, gas/dust explosion, inundation
Mine induction training	<ul style="list-style-type: none"> Equipment, methods, mine familiarization and inspection procedures
Operation modules –SOP steps and scenarios, as applicable, shall be provided by IIT(ISM)	
Module	Description
Birds Eye View of Mine	<ul style="list-style-type: none"> A 360 degree view of mine setting with key operational equipment in place
Longwall retreat mining (Face: 200 m x 10 m x 5 m)* Gate Roads: 2 x 50 m x 6 m x 5 m)*	<ul style="list-style-type: none"> Pre-start checks for equipment operation Condition of Hydraulic circuit like hoses, connectors Shearer and powered support operation AFC operation, Stage Loader, Feeder Breaker
Road header development (100 m x 6 m x 5 m)*	<ul style="list-style-type: none"> Cutting and Supporting Transporting and Ventilation
Continuous Miner and Shuttle Car (200 m x 200 m x 5 m)*	<ul style="list-style-type: none"> Cutting, Cut out distance Loading onto shuttle car and unloading at feeder breaker Shuttle car routing Salvaging of trapped CM
Man riding (Multi-utility vehicle and chair lift) (50 m x 5 m x 5 m)*	<ul style="list-style-type: none"> Passenger pickup and drop sequences Operational and Safety Controls
Roof bolting (Quad Bolter) (50 m x 6 m x 5 m)* (SOP is provided as an example)	<ul style="list-style-type: none"> Roof Dressing, Collaring, Drilling Securing the rock bolts and Pull out Testing
Hoisting (2 x 100 m x 5 m x 5 m)*	<ul style="list-style-type: none"> Shaft hoisting, cage landing, over speed/ overwind control
General maintenance	<ul style="list-style-type: none"> Different check points and signaling arrangement (Shearer, Powered support, Continuous miner, Shuttle Car, Roof Bolter, AFC operation, Stage Loader, Feeder Breaker)

- Operational area is typical to respective equipment and method. General area of coverage is mentioned in each operation (**may change $\pm 10\%$**) (*).
- Two scenarios** in each module in consultation with the IIT (ISM) and participating mine team

cont....Annexure C

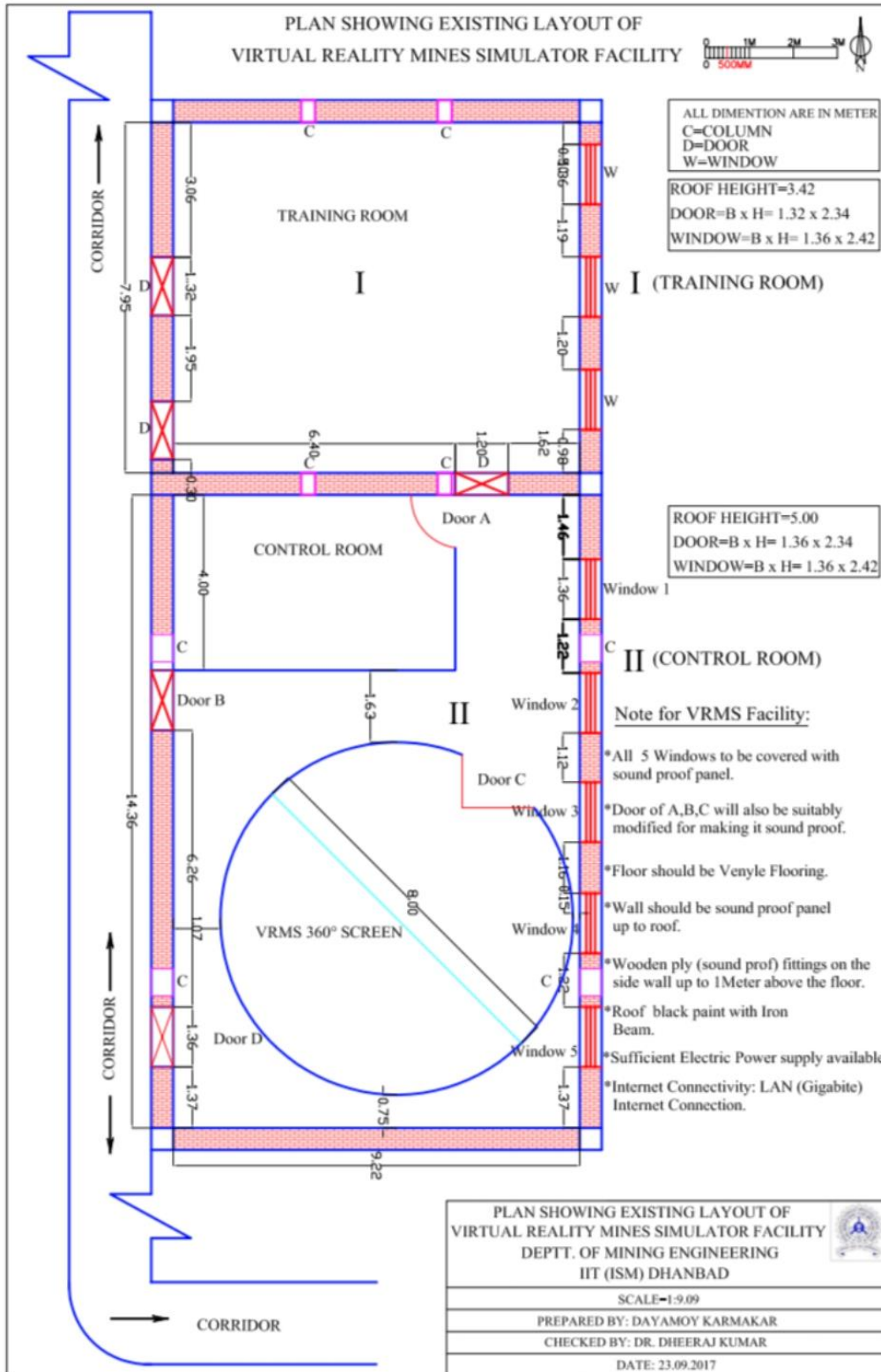
SOP based operation module: Roof Bolting Operation, Jhanjra UG Project, ECL

Note: This steps or details are to give an idea for VR Content Development and shall be developed and provided by IIT(ISM) Dhanbad for other modules once the work is awarded. Most of these can be captured in photos and videos in the mine environment in consultation with the mine authority and a walk around/querying can be developed.

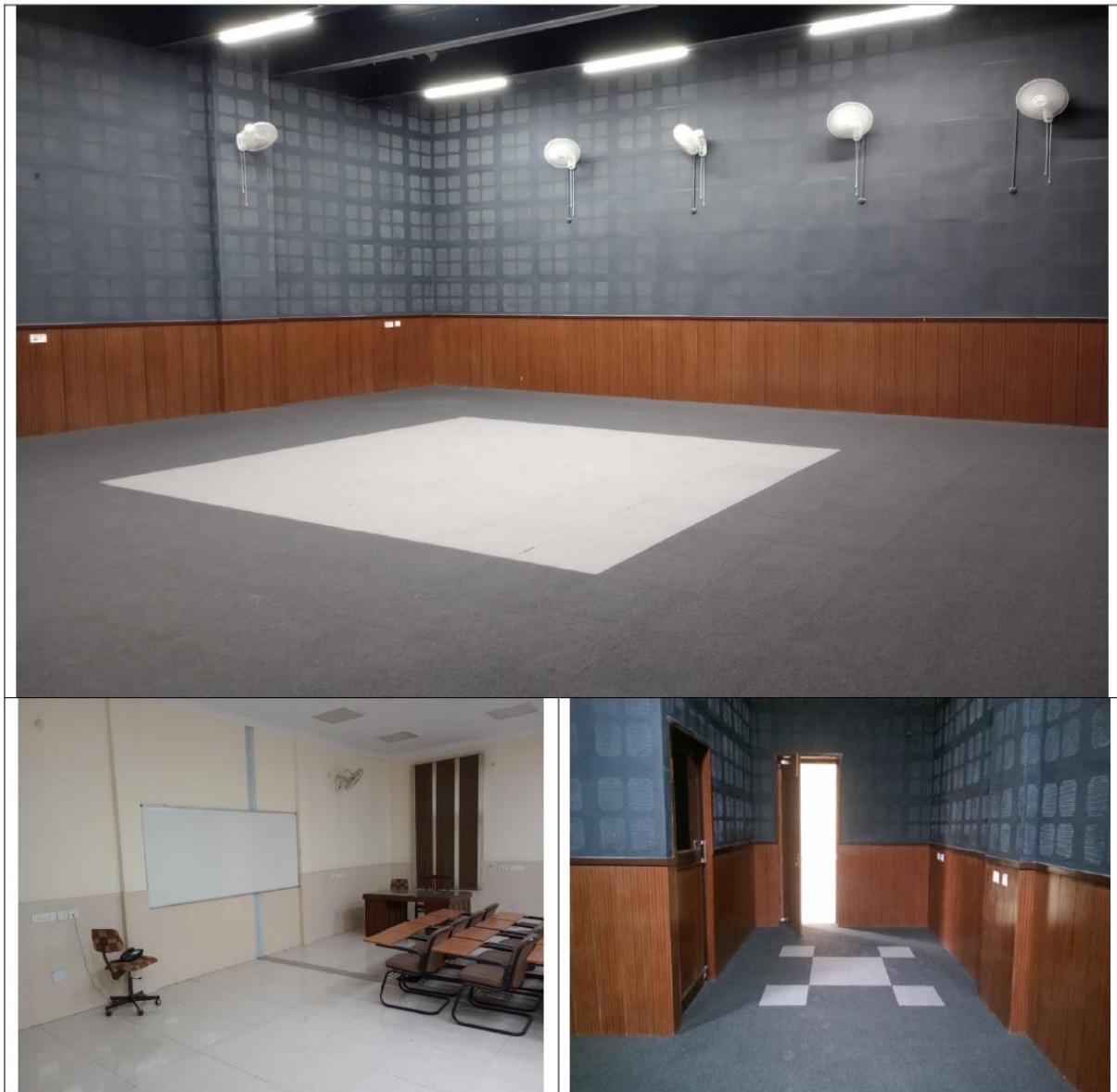
Equipment	Tasks	Procedure/Action	
Roof Bolting	General	1	Wear PPE kit and carry all safety accessories (helmet, dust mask)
		2	Do not come to duty in intoxicated condition and consumption of alcohol and intoxicated material during duty is strictly prohibited
		3	Do not use mobile phone and headphones during duty
		4	Tight fitting clothes should be worn and follow the instructions of supervisor while working
	Requirements	1	Awareness and knowledge of safety provisions of the related work before commencement of operation.
		2	Inspection of the workplace before commencement of the operation.
		3	Ensure the working of light, audiovisual alarm, side mirror etc.
		4	Inspect brake lever, steering lever and other safety devices like brake, light, emergency stop button
		5	Ensure the working of parking brakes and check for any oil leakages
		6	Ensure the driver seat is secure, adequate lighting (lamp grill, broken headlight, loose fixture), working of alarm (control and cleanliness of horn)
		7	If drill is of electrical type, make sure that the rotatable wire cable box has at least one cable ring.
		8	Flushing material should be available with the roof bolter
		9	Roof bolts should be of tor-steel material quality
		10	Roof bolt length should not be less than 1.5 m and diameter should be at least 20-22 mm (ribbed), length of the thread should be 125-150 mm.
		11	Bearing plate material should be at least 6 mm thick and 150 sq. mm in size.
		12	Bolt length should be 80 mm more than the designed drill hole length.
		13	Nuts should be of hexagonal shape and 20 mm height.
	Operation	1	Check and ensure proper working of safety parts of roof bolter machine before operation
		2	Always check for emission of methane gas in and around the place of bolting before commencement of this operation.
		3	Inspect the area for any possible fall of loose rock using roof dresser around the working area
		4	Mark all the geological unconformities before commencement of operation
		5	Drilling is to be generally carried out in good roof.
		6	Drilling is to be carried out as per the proposed roof bolt grid pattern without deviation in a given geomining condition
		7	Resin capsule should be used instead of cement capsule.
		8	At least 10% of installed roof bolts should be subjected to anchorage testing (at random) and results thereof should be maintained
		9	Minimum anchorage of 3 tons after 30 min and 5 tons after 2 hrs of setting time for resin capsule grouting material
		10	Keep the ventilation adequate to take away the heat from working area of machine.
		11	Anchorage testing equipment should be regularly maintained and calibrated.
		12	Ensure the availability of all support material during operation
		13	Recommended air velocity of 0.6 m/s or 0.8 m ³ /min per person whichever is better on the roadways on which machine is working

VRMS Theatre cum Training Room – A Snap Shot

Plan View



Furnished Theater



PRICE SCHEDULE / PRICE BID (ANNEXURE – II)

Tender Inviting Authority: INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD

Name of Work: Supply and Installation of VMST Application Development

Tender No: ME-PRJ-180-22-23 (GTE)
(To be submitted in soft copy only)

PRICE SCHEDULE

(This FORM must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

If packing charges, transportation charges, insurance charges, Installation Commissioning & Training charges already included in unit price then please mentioned zero "0" in respective cell.

Name of the bidder														
NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #	TEXT #	NUMBER #	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make/ HSN Code	Quantity	Units	Quoted Currency in INR	UNIT PRICE without any tax In Figures To be entered by the Bidder	SUB TOTAL AMOUNT Without Taxes	Packing & Forwarding if any (in INR)	Charge for Inland Transportation Insurance etc.	Installation Commissioning & Training C	TOTAL AMOUNT Without Taxes	GST in Percentage	TOTAL AMOUNT With Taxes	TOTAL AMOUNT IN WORDS
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1.01	Supply and Installation of VMST Application Development		As per the attached Annexures	Lot	INR		0.00					0.00	0.00	

Note:- 01. Only Indian bidders should fill this sheet.**02. Detailed Price breakup to be provided by the bidder as and when required.**

PRICE SCHEDULE / PRICE BID (ANNEXURE – II)

Tender Inviting Authority: INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD

Name of Work: Supply and Installation of VMST Application Development

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Name of the bidder

PRICE SCHEDULE

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If packing charges, transportation charges, insurance charges, Installation Commissioning & Training charges already included in unit price then please mentioned zero "0" in respective cell.

Name of the bidder															
NUMBE R #	TEXT #	NUMBER #	TEXT #	TEXT #	NUMBER #	NUMBER #	NUMBER #	NUMBE R #	NUMBE R #	NUMBER #	NUMBE R #	NUMBER #	NUMBER #	NUMBER #	NUMBER #
SI No.	Description of the item	QTY	Brief description of goods (with make & model)	Country of origin and Currency	Gross FOB price at sea/airport of Lading (inclusive of agency Commission	Amount of Agency Commission (if any) ** [To be quoted in INR]	Net FOB (excluding Agency Commission) (a-b)	Insurance & Freight	Net CIP by Air/Sea at the port of entry (c+d)	Custom Duty amount as % of Net CIP (amount with CDEC as applicable) ** [To be quoted in INR]	Custom Clearance & Handling charges ** [To be quoted in INR]	Loading/ Unloading, inland transportation, insurance & incidental costs till consignee's site ** [To be quoted in INR]	Installation commissioning, supervision. Demonstration & training at the consignee's site ** [To be quoted in INR]	Unit price on DDP basis at consignee's site	
					(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	In foreign currency (e)	In Indian rupees =(b+f+g+h+i)
1.01	Supply and Installation of VMST Application Development	01 Lot							0.00						
** To be quoted in Indian Currency Total price at Consignee's site															
Total price at Consignee's site															
(A)	In Foreign currency	: (QTY x e)				(In figures and words) plus									
** (B)	In Indian Rupees	: QTY x (b+f+g+h+i) Rs.				(In figures and words) plus									
1	The tendered will be fully responsible for the safe arrival of the goods at the consignee site in good condition as per terms of contract.														
2	Indian agent submitting bid on behalf of foreign supplier may also bid in Indian currency.														
3	The bidder break up of price under various columns is for comparison of price up to delivery of goods at consignee's site for tender evaluation.														
4	The quoted price should be indicate the percentage of agency commission included in the FOB prices (if any). Indian Agent to be paid in Indian currency.														
5	All the components of the DDP price will be paid by the tenderer. The purchaser will make the payment of DDP price after receipt of goods at consignee's site in good condition as per payment terms in the contract. The purchaser have right to place the order on FOB or CIP or DDPFOR basis.														
6	The price quoted in foreign currency in column (e) shall be converted in Rupees at the selling rate of exchange applicable on the date of tender opening. The customs duty amount so worked out as percentage of net CIP value in rupees will be taken for evaluation and comparison of tenders. The bidder who wish to quote upto CIP/CIF price only in foreign currency in column e shall be converted in Rupees at the selling rate of exchange applicable on the date of tender opening. Further 30% of the CIP/CIF value loaded towards custom duty, IGST and other statutory levies, custom clearance, inland transportation etc to arrive FOR/DDP Dhanbad price														
7	IIT (ISM) Dhanbad is eligible for concessional custom duty certificate. Bidders are advised to put custom duty considering CDEC certificate														

Note:- Only Foreign bidders or Indian agent on behalf of foreign bidder should fill this sheet. Detailed Price breakup to be provided by the bidder as and when required.