

**भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद**

धनबाद, झारखण्ड, भारत, पिन-826004

(शिक्षा मंत्रालय, भारत सरकार के अधीन राष्ट्रीय महत्व का एक संस्थान)

**INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD****DHANBAD, JHARKHAND, INDIA, PIN-826004**

(An Institute of National Importance under Ministry of Education. Govt. of India)

**PROJECT PURCHASE SECTION** Phone: (0326)2235660 || Email: [projectpurchase@iitism.ac.in](mailto:projectpurchase@iitism.ac.in) || Website: [www.iitism.ac.in](http://www.iitism.ac.in)

MN-PRJ-062-23-24

Date: 27 December 2023

**Request for Quotation**

To,

**Subject: Supply & Installation of Slide2 – Personal Perpetual (Version 9.031)**

Sirs

Indian Institute of technology (Indian School of Mines), Dhanbad is interested for the purchase of the materials/ equipment listed below:

Sl. No.	Detailed Specifications	Quantity
1	<b>Supply &amp; Installation of Subject: Supply &amp; Installation of Slide2 – Personal Perpetual (Version 9.031)</b> <b>(Specification in Annexure –II)</b>	01 No

**INSTRUCTIONS:**

- 1) Please attach relevant technical literature of the item.
- 2) Please fill the attached form 01 regarding class of supplier.
- 3) Please mention warranty/ guarantee period in your offer. Equipment/ material supplied must have minimum warranty/ guarantee of **12 months**.
- 4) Please attached authorization certificate from OEM.
- 5) Please mention after sales service information in your offer.
- 6) ***Please attach a certificate that the quoted price is not more than that of any other Govt. organization/ institution in India. This has to be mentioned in the offer letter clearly.***
- 7) The rates should be quoted for each item separately as per price schedule attached as annexure I (A) & (B). The comparison between the indigenous and the foreign offers shall be made on FOR destination basis and CIF/CIP basis respectively. However, the CIF/CIP prices quoted by any foreign bidder shall be loaded further as under:  
-Towards customs duty, IGST and other statutory levies, custom clearance, inland transportation, currency fluctuation etc. – 30% of the CIF/CIP value. -Duties & taxes, if applicable, are to be shown separately clarifying whether those are extra or included in the price. Price bids of only technically qualified tenderers shall be opened in their presence on a pre-notified date and time.
- 8) The items/ materials shall be required to be delivered at Mining Engineering Department of IIT (ISM) Dhanbad at the risk and cost of the tenderer.
- 9) Your tender must be **valid for minimum 120 days** from the date of opening of tender.
- 10) The stores are required to be delivered within 30 days, late delivery may not be accepted.
- 11) Full details of stores offered should be given in the tender along with supporting & relevant literatures/ Technical Literature.
- 12) The items offered should be of good quality confirming to BIS standards, wherever applicable.
- 13) ***Advance payment is not admissible.*** Payment shall normally be made within 3-4 weeks subject to receipt and acceptance & installation (as per Purchase Order Terms) of the ordered materials/items.
- 14) In the event of the supplier failed to supply the materials or install the same as contractual condition, IIT (ISM) Dhanbad shall have the right to deploy suitable agency/ third party to get the job completed at the risk and cost of the supplier.
- 15) Tender may please be submitted ***in sealed cover only superscribed with MN-PRJ-062-23-24 latest by 17.01.2024.***
- 16) The offer must be submitted in the office of **Deputy Registrar (Project Purchase Section), Dean(R&D) office, IIT (ISM), Dhanbad– 826004 (Jharkhand, India)** (Jharkhand, India) only. Please send your offer by Regd.Post/ Speed Post/ Courier along with Courier receipt. Tender/ quotation will be received during IIT (ISM) Dhanbad working hours only (i.e. Monday to Friday). At any circumstances by hand delivery is not acceptable. Late or delayed tenders shall be summarily rejected. Bids sent through Email/Fax or submitted in unsealed cover(s) will not be accepted and such bids will be treated as non-responsive bids.
- 17) **Performance Bank Guarantee:** A bank guarantee issued by a Nationalized Bank in India towards PBG for an amount equal to 10% of total value of purchase order and valid till the period beyond two months of completion of warranty period should be submitted in favour of **Registrar, IIT (ISM) Dhanbad.**

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- 18) Any other information that you may like to obtain, you are free to contact IIT (ISM) Dhanbad before submission of tender.
- 19) IIT (ISM) Dhanbad reserves the right to accept and/or to reject any/all tenders without assigning any reason.
- 20) **Payment:** will be made within 30-45 days after satisfactory supply, inspection, installation/commissioning/ satisfactory services & acceptance and on submission of pre-receipted tax invoice, delivery challan, warranty certificate and installation report in triplicate
- 21) **Please attach purchase order copies of the same equipment which you have supplied to any other Govt., public sector and autonomous institutions.**
- 22) **a) In a tender, either the Indian agent on behalf of the principle/ OEM and the Principle/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.**

Deputy Registrar  
Project Purchase Section  
Dean (R&D) office  
IIT(ISM), Dhanbad

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**Annexure –I(A)****1. PRICE SCHEDULE FOR GOODS BEING OFFERED WITHIN INDIA**

Name of the Bidder \_\_\_\_\_

NIT Reference No. \_\_\_\_\_

File Reference No. \_\_\_\_\_

Sl. No.	Full Description of items with (HSN Code/SAC Code)	Quantity	Unit Price (in INR)	Total Amount (in INR)
1.				
2.				
3.				
Ex-Works Price-				
Packing & Forwarding				
Transportation				
GST/IGST (as applicable .....%)				
Insurance up to Destination/handover (in case of fabrication)				
Installation & Commissioning charge				
Training charges, if any				
FOR (IIT ISM) Dhanbad				
Additional Warranty Charges, if any				
Annual Maintenance Charge, if any				

\*(On the basis of the technical specifications submitted)

Total Bid Price \_\_\_\_\_

in words \_\_\_\_\_

Note :

(a) The Price schedule of optional items shall be indicated in a separate sheet in the same Performa.

(b) Cost spare parts may be indicated separately

Signature of Bidder

Name \_\_\_\_\_

Business

Address \_\_\_\_\_

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**Annexure –I(B)****2. . PRICE SCHEDULE FOR GOODS BEING OFFERED FROM ABROAD**

Name of the Bidder \_\_\_\_\_

NIT Reference No. \_\_\_\_\_

File Reference No. \_\_\_\_\_

Sl. No.	Description/Part No./Make Model	Quantity	Unit Price (in foreign currency)	Total Amount (in foreign currency)
1.				
2.				
3.				
Total Ex-Works Price-				
Packing & Forwarding and inland freight				
*FCA (at port)				
Terminal charges, loading on vassal				
**FOB (name of port)				
Air freight & insurance up to destination port				
*CIF				
Carrier charges & insurance up to final destination				
**CIP				
Concessional Custom Duty (Against DSIR Certificate)				
IGST rate (Against IIT (ISM) Certificate)				
Other Duties taxes/clearance charge, if any				
Transportation charges up to IIT ISM Dhanbad				
Chargeable weight/Gross weight of consignment				
Indian agency Commission (%)				
Installation & Commissioning charge				
Training charges, if any				
Additional Warranty Charges, if any				
Annual Maintenance Charge, if any				
Educational discounts, if any				

\*&amp; Mandatory requirement

Total Bid Price \_\_\_\_\_ in words \_\_\_\_\_

Note :

Total Bid price in foreign currency \_\_\_\_\_ in words

(a) Indian agent name &amp; address \_\_\_\_\_

(b) Installation, commissioning &amp; training charges, if any \_\_\_\_\_

(c) Please note that Indian agents' commission shall be paid in Indian Rupees only.

(d) Banker's details such as- Name of account holder, Account Number, Name of Bank, Branch code, RTGS code, NEFT code, SWIFT code etc.

(f) Price schedule of optional items shall be indicated in a separate sheet in the same performa.

(g) **Quoting Price for FOB/FCA and for CIF/CIP basis, otherwise bid will be rejected.**

(h) Wherever the price quoted on FOB/FCA and CIF/CIP basis are the same, the contract would be made on CIF/CIP basis only.

(i) Country of Origin Dimension and Gross Weight must be provided.

Signature of Bidder

Name \_\_\_\_\_

Business Address \_\_\_\_\_

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**Form-1****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 : 04<sup>th</sup> June 2020 and 2<sup>th</sup> March 2021 issued by DIPP, Ministry of Commerce and Industries, GoI.**

To,

The Director,

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 04<sup>th</sup> June, 2020 and P-45021/2/2017-BE-II-Part (1) (E-50310) dated 4<sup>th</sup> March 2021 I hereby declare that

I am aware about all provision mentioned in Tender No. «File\_No» as well as order No. P-45021/2/2017-PP (BE-II) dated 04<sup>th</sup> June, 2020 and P-45021/2/2017-BE-II-Part (1) (E-50310) dated 4<sup>th</sup> March 2021 and abides by the same.

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.

**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.

The services such as transportation, insurance, installation, commissioning, training and after sales service support like ACM/CMC etc. are not included as Local content in case of imported products.

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:





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**Annexure –II****Technical specification****Details of the Product (Software)****Software should include at least following items along with latest tools/functionalities, if any**

- **Analysis Methods**
  - Bishop Simplified
  - Corps of Engineers #1
  - Corps of Engineers #2
  - GLE/Morgenstern-Price
  - Janbu Corrected
  - Janbu Simplified
  - Lowe-Karafiath
  - Ordinary/Fellenius
  - Sarma Vertical & Non-vertical Slice
  - Spencer
- **Data Interpretation**
  - Annotation and dimensioning tool kit
  - Contour groundwater results—total head, pore pressure, velocity, gradient
  - Export image files
  - Export to Excel
  - Filter slip surfaces
  - Interactive data tips
  - Plot factor of safety along slope
  - Plot results directly on slip surface
  - Plot safety factor vs. time for transient Analysis
  - Plot slice data
  - Plot slip surface data
  - Print models at scale
  - Support force diagrams
  - Property viewer—contour material properties
- **Finite Element Groundwater Seepage Analysis**
  - Constant or time-dependent boundary conditions
  - Discharge sections
  - Mapped meshing
  - Multi-stage transient groundwater seepage
  - One-click automatic meshing
  - Saturated/unsaturated
  - Show mesh quality
  - Steady state seepage
  - View groundwater and slope stability results simultaneously
- **Loading**
  - Distributed loads
  - Line loads
  - Seismic loads
- **Modelling**
  - Borehole entry
  - CAD drawing tools
  - .dxf import/export



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- Geometry from soil profile
- Multi-scenario modelling
- One-click material assignment
- Weak layer boundary
- **Pore Pressure Definition**
  - Calculate excess pore pressure using B-bar method
  - Choose grid interpolation method
  - Finite element groundwater seepage analysis
  - Phreatic surfaces
  - Piezometric lines
  - Pore pressure grids—total head, pressure head, pore pressure
  - Rapid drawdown analysis
  - Ru coefficients
- **Probabilistic Analysis**
  - Advanced correlation between input parameters
  - Critical probabilistic surface
  - Spatial variability analysis
  - Distributions—Normal, Uniform, Triangular, Beta, Exponential, Lognormal, Gamma
  - Equate material properties
  - Histogram, cumulative, and scatter plots
  - Monte Carlo, Latin Hypercube, or Response Surface simulation
  - Probability of failure/Reliability index
  - Sensitivity analysis
  - Use any input parameters as random variables
- **Rapid Drawdown Methods**
  - Army Corps Engineering 2-stage
  - Duncan, Wright, Wong 3-stage
  - Effective stress using B-bar
  - Lowe and Karafiath
- **Search Methods**
  - Auto-refine search
  - Block search
  - Cuckoo search
  - Grid search
  - Non-circular surface optimization
  - Particle swarm
  - Path search
  - Simulated annealing
  - Slope search
- **Seismic Options**
  - Compute Kc critical acceleration
  - Newmark displacement (rigid, coupled, decoupled)
  - Pseudo-static analysis
  - Staged pseudo-static analysis Slip Surface Options
  - Circular surfaces
  - Composite surfaces
  - Non-circular/Planar surfaces
  - Tension cracks
- **Support**
  - Active vs. passive anchors



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- Back analysis (compute required support force for safety factor)
- Easily define/edit patterns
- End-anchored bolts
- Geotextiles
- Grouted tiebacks
- Piles and micro piles
- RSPile integration
- Soil nails
- User-defined support model
- Retaining Wall (EFP)
- Helical Anchor
- **Strength Models**
  - Anisotropic function
  - Anisotropic linear
  - Anisotropic strength
  - Barton-Bandis
  - Discrete function
  - Drained-Undrained
  - Generalized anisotropic
  - Generalized Hoek-Brown
  - Hoek-Brown
  - Hyperbolic
  - Infinite strength
  - Mohr-Coulomb
  - No strength (i.e., water)
  - Power curve
  - SHANSEP
  - Shear/normal function
  - Snowden modified anisotropic linear
  - Tension cutoff
  - Undrained ( $\Phi = 0$ )
  - Unsaturated shear strength
  - Vertical stress ratio