

भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद

घनबाद, झारखण्ड, भारत, पिन-826004

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

(An Autonomous Institute under Ministry of HRD, Govt. of India)

Phone: (0326) 2235678 | Email: drps@ismdhanbad.ac.in | Website: iitism.ac.in

No. MME-500058-2017-18

Date: 12 May 2017

NOTICE INVITING TENDER

Subject: Supply & Installation of Hydraulic Test setup

Indian Institute of Technology (Indian School of Mines), Dhanbad invites quotations for the following to be supplied and delivered in MME Department/ Center/ Section.

S No	Full Description of items/ store	Qty	Delivery
1	Supply & Installation of Hydraulic Test setup (Detailed Specification is given in Annexure – I and II)	01 Set	At the Earliest /Ex-Stock

Tender Schedule

Particulars	Date & Time		
Date and time for submission of tenders	13.06.2017 at 1:00 P.M.		
Date and time of opening of tenders	13.06.2017 at 4.00 P.M.		

- 1. You are requested to quote your lowest rates for the supply of above items in the attached format for Financial Bid (Annexure III)
- 2. You may send your representative in the office of the undersigned at the scheduled date and time of opening of tender.
- 3. Tender should be submitted in sealed cover only superscribed with Enquiry No. and due date at the following address only:

The Deputy Registrar (P&S)
Indian Institute of Technology (Indian School of Mines),
Dhanbad – 826 004 Jharkhand

BEY-18



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Date: 22-May 2017

Terms & Conditions

- 1) Please submit authorized dealership certificate, if you are not a manufacturer.
- 2) Please mention Sales Tax, CST, VAT, TIN and PAN numbers and Bank Account Number and name of the bank/ branch in your offer.
- 3) Please indicate rate of taxes/ duties clearly. Rates quoted will be taken as inclusive of all taxes unless given separately.
- 4) The rates should be quoted for each item separately.
- 5) Conditional offer will not be accepted.
- 6) Tender Cost of Rs. 500/- (non refundable) is to be paid by way of Demand Draft drawn in favor of Registrar, ISM payable at Dhanbad. Non-submission will lead to rejection of your bid.
- 7) IIT (ISM) does not issue any Form 'C' or 'D' towards sales tax concessional rate. Hence, full rate of sales tax/VAT applicable should be quoted.
- 8) *Educational discount*, if any, should be clearly mentioned.
- 9) You are requested to submit your quotation strictly as per the specifications mentioned in the NIT.
- 10) Your tender must be valid for minimum 90 days from the date of opening of tender.
- 11) Please mention warranty/ guarantee in your offer clearly. Material/ equipment to be supplied must have minimum warranty/guarantee of 12 months.
- 12) Each page in the bid document should be numbered properly.
- 13) The items/ materials shall be required to be delivered at MME Department/ Section through Purchase & Store Section, IIT (ISM) Dhanbad at the risk and cost of the tenderer.
- 14) Unloading and installation shall be the complete responsibility of the supplier.
- 15) The stores are required to be delivered within 30 days/ weeks. Late delivery may not be accepted.
- 16) The items offered should be of good quality confirming to BIS standards, wherever applicable.
- 17) A 'Compliance Statement' along with a certificate and duly signed that the tenderer satisfies the technical requirements given in ANNEXURE-I should also be submitted to facilitate early finalization of the tendering process.
- 18) 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.
- 19) In the event date on which the tender is opened for acceptance is declared to be a holiday, the tenders shall be deemed to remain open for acceptance till the next working day.
- 20) Please send your offer by Regd.Post/ Speed Post/ Courier along with Courier receipt. Tender/ quotation will be received during IIT (ISM) working hours only (i.e. Monday to Friday). Late or delayed tenders shall be summarily rejected.
- 21) Any other information that you may like to obtain, you are free to contact IIT (ISM) before submission of tender.
- 22) IIT (ISM) reserves the right to accept and/or to reject any/ all tenders without assigning any reason.

Assistant Registrar

INI STORES & PURCHASE SECTION

भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), घनबाद

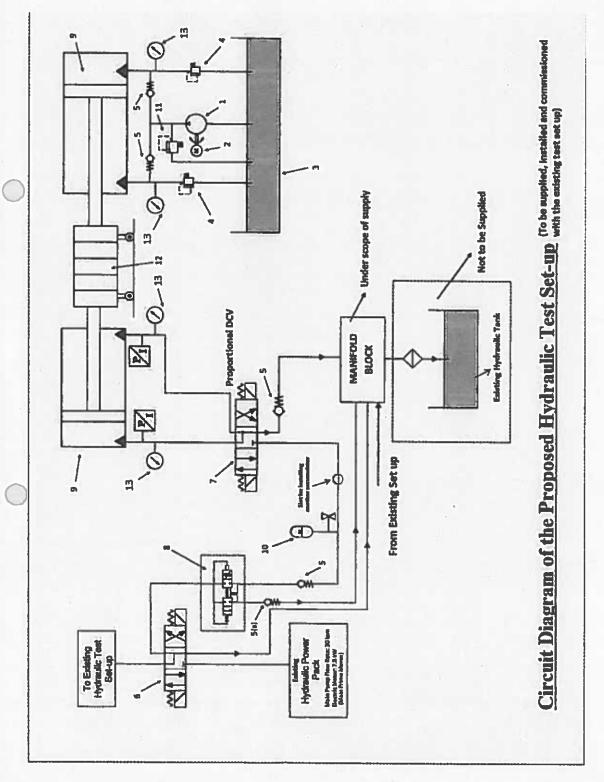
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Annexure · I



STORES & PURCHASE SECTION

भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद धनबाद, झारखण्ड, भारत, पिन-826004

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Annexure-II

Bill of Materials

Sl. No.	Components	Qty	Specifications	
1.	Gear Pump @1500 rpm	1	8 cc	
2.	Induction Motor compatible with pump along with assembly	I	1 hp 3 - Φ Squirrel Cage Induction Motor	
3.	Hydraulic Tank	1	40 ltrs	
4.	Pressure Relief Valve	2	110 bar	
5.	Non Return Valve	4	For Max Flow of 15 lpm	
5 (a).	Non Return Valve	1	For Max Flow of 25 lpm	
6.	Sub-plate mounted 4/3-way Solenoid operated Direction Control Valve (coil voltage = 24 V DC) (As per the drawing attached, Annexure I (Revised))	1	For Max flow of 30 lpm Working Pressure: 300 bar	
7.	Sub-plate mounted 4/3-way Proportional Direction Control Valve (coil voltage = 24 V DC) (As per the drawing attached, Annexure I (Revised))	1	For max flow of 12 to 15 lpm. Max. Operating Pressure: 35 MPa Max. Tank Line Back Pressure: 21 MPa Rated Flow (@ΔP = 1 MPa): 15-20 lpm Hysteresis 0.1% or less Repeatability 0.1% or less Ambient Temperature: -15 - +60 °C Spool Stroke to Stops: ±2.5 mm Coil Resistance [20 °C]: 3 Ω Current Consumption: 2 A (Implulse Load 3 A) Electric Connection: 6 + PE Connector	
8.	Priority Flow Control Valve	1	Flow Capacity - 30 lpm (inlet) Priority Flow Setting = 10 lpm	
9.	Hydraulic Cylinder	2	Bore Dia-90 mm/ 100 mm Rod Dia-45 mm Stroke-450 mm/ 500 mm	
10.	Bladder type Hydraulic Accumulator with safety valve and gas charging kit.	1	15 ltr	
11.	Pressure Relief Valve	1	10 bar (for maintaining 2 bar of pressure)	
12.	Load assembly Trolley	1	The width of Structure will be around 2 Mtrs. (The load assembly trolley will be having slots as per the drawing. Annexure I (Revised) for putting dead weights and will move on tracks installed beneath the trolley for its motion)	

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13.	Pressure Gauges	5	Max. Pressure = 150 bar	
14.	Hydraulic hoses and accessories like connectors, Hydraulic Filter, Filler Breather, Level Gauge with thermometer, Suction Strainer, Drain Ball Valve and Anti-Vibration Pad etc.	-		
15.	Test Bench along with fixtures and provision for installing force sensor	1		
16.	Electric Control Panel along with SMPS	1	For control of item nos. 2, 6, 7, 8 and display output signals. Also, the panel must be equipped for displaying the voltage and current output signals of item no. 2 and output signal of the flosensor.	
17.	Pressure Transducers	8	Model: S-10 Range: 0-160 bar (04 Nos.) 0-100 bar (04 Nos.) Voltage: 0-10 V, Current: 4-20 mA Size: ½" BSP (M)	
18.	Displacement Transducer	1	Range 500 mm Type: K-WA-L-500W-32K-K1-F1-2-2; Displacement Transducer Plunger Version, Measuring Range: 0-500 mm	
19.	Process Indicator (Analog Output Converter)	2	Input: 4- 20mA Output: 0-10 VDC Operating Voltage: 24 VDC / 230 VAC DIN RAIL Mount	
20.	Ali-in-one Energy Meter (For measuring electrical parameters like AC current, Voltage, frequency, Power, Energy (Active/Reactive/Apparent), Harmonic Distortion)		Digital Display with Analog Output All-in-One measuring energy, power rating, voltage and current (Power Rating of Main Prime Mover — 7.5 kW). Digital Multifunction Instrument with onsite pluggable output options. • For measuring electrical parameters like AC current, Voltage, frequency, Power, Energy (Active/Reactive/Apparent), Harmonic Distortion. The instrument has optional output as one pulse output or two pulse output for energy measurement. Input Voltage: Nominal input voltage (AC RMS): • Phase –Neutral 63.5 / 133 / 239.6 / 254VL-N • Line-Line 110 / 230 / 415 / 440 VL-L System PT primary values: • 100VLL to 692kVLL programmable on site. Max continuous input voltage: • 120% of rated value	
			Input Current:	



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		Nominal input current: 5A AC RMS. System CT secondary values: 1A & 5A programmable on site. System CT primary values: From 1A up 9999A (for 1 or 5 Amp) Max continuous input current: 120% of value	
21.	Flow Sensor	For Max flow of 26 lpm Working Pressure: 150 bar Voltage: 0-10 Vdc, Current: 4-20 Ma	
		(To be installed in the hydraulic line of Item and Item No. 9)	10. 7

- Detailed specifications of all the items are to be submitted thoroughly supported by detailed technical literatures specifically for the item nos. 1, 2, 4, 6, 7, 8, 9, 10, 11, 18, 19 & 20 to be supplied along with quotations.
- Power available at site: 220 V AC supply.
- All valves will be operating at 24 V DC which will be the operating coil voltage for the
 valves.
- All necessary fittings and accessories to be provided by the supplier for the complete
 installation and commissioning at the site for the new installation and for connecting
 the new set-up with the existing hydraulic set-up.



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No. MME-500058-2017-18

Date: 22-May 2017

Annexure - III

Format for Commercial Bid

Our NIT No.:MME-500058-2017-18

Date:

Bidders Ref: No.

Date:

Sub: Hydraulic Test setup

Sl. No.	Full Description of Items	Qty.	Rate	Amount
		Packin	g & Forwarding (if ar	ny)
		Total		
			CST/VAT (if any)	
		Freight (if any) Installation (if any)		ny)
				ny)
Amount should be in figure as well as word			Grand Total	

Note:

- 1) All the details must be provided as per prescribed format only
- 2) Prices quoted by the bidders should include all local taxes, VAT, service tax, duties, livies, transportation cost and insurance costs etc. if any
- 3) Must have submit their PAN No. TIN No. etc.
- 3) All the rates must be quoted in Indian Rupees.

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