

Maulana Azad
National Institute of Technology Bhopal- 462 003

(An Institution of National Importance under MoE, Govt. of India)



**LIMITED TENDER ENQUIRY
FOR**

Supply of Resistivity Equipment (Geophysical Natural Electrical Prospecting MT Instrument for
Hydro geological studies) in Civil Engineering Department

Website: www.manit.ac.in
Email Address: info@manit.ac.in

Fax No: 0755-2670562
Telephone No: 0755-4051000, 0755-4052000

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No. MANIT/S&P/Civil/2021/05

Date: 06/01/2022

NOTICE INVITING TENDERS

Sub: *Supply of Resistivity Equipment* (Geophysical Natural Electrical Prospecting MT Instrument for Hydro geological studies)

Tenders are invited for *Supply of Resistivity Equipment* (Geophysical Natural Electrical Prospecting MT Instrument for Hydro geological studies) *in Civil Engineering Department*. Interested Manufacturers/Authorized Partner/Agencies may log on Institute website www.manit.ac.in and CPPP website www.eprocure.gov.in/epublish/app for further details. Tender Document can be downloaded and the duly completed be submitted to the Assistant Registrar, Stores & Purchase, Maulana Azad National Institute of Technology- Bhopal- 462 003.

Last date of receipt of complete tender document is 25/1/2022 up to 17.00 hours. The Director of the Institute reserves the right to accept or reject any or the entire tender in full or in part without assigning any reason whatsoever.

Registrar

Maulana Azad
National Institute of Technology Bhopal- 462 003

IMPORTANT INFORMATION AT A GLANCE		
Tender No & Date	No. MANIT/ Civil/2021/05	
	Date: 06/01/22	
SCOPE OF TENDER		
Brief Description of Goods/Items	Quantity	Remarks
Resistivity Equipment (High Precision Ground Water Detector for Hydro geological studies)	01 No.	Detailed Specification at Annexure-I
Estimated cost of Tender	Rs. 4,00,000.00	
Location of Supplies & Installation	Civil Engineering Department, MANIT, Bhopal at Institute	
TENDER DOCUMENT		
Tender Document can be downloaded free of cost from Institute website www.manit.ac.in and CPPP website www.eprocure.gov.in/epublish/app		
Last Date & Time of Submission of Tender	25/01/2022 up to 17:00 hours	
Date & Time of Opening of Bids	27/01/2022 at 12:00 hours	
Tender Validity period	60 days from the date of opening of the Technical Bid	
Delivery/ Supply period	04 to 06 weeks from the date of issue of Supply Order	
Warranty Period	Two year (s) from the date of successful Installation & Commissioning of equipments/ items	
Bid Security/ EMD	NIL	
Performance Security	10% on Basic Value of PO	
Details of Contact Persons for Query if any		
Name : Dr. Jyoti Sarup Designation : Professor Tel No: 9479377993 ,0755-4051219 Email: sarup@gmail.com	Name : Dr. Rutuja Chavan Designation: Assistant Professor Tel No: 0755-4051239 Email: rutujachavan297@gmail.com	

INSTRUCTIONS TO BIDDERS		
1	Scope of Supplies & Work:	
a	The Goods/ Items shall be supplied as per the Bill of Quantity and Specifications mentioned in ANNEXURE-I . However higher specification of equipment may be considered subject to their cost economics competitiveness.	
b	Bidder should supply illustrated leaflet giving technical details of Resistivity Equipment (Geophysical Natural Electrical Prospecting MT Instrument for Hydro geological studies) and attach the same with the tender to facilitate evaluation.	
c	Bidder should quote the price of only one best & appropriate model of Resistivity Equipment (Geophysical Natural Electrical Prospecting MT Instrument for Hydro geological studies) available with them.	
d	Bidder should quote preferably other than made in China items as mentioned in the Bill of Quantity due to current relation between India & China. Certificate of origin shall also be submitted along with the bid.	
e	Where ISI certification marked goods are available in market, procurement should generally be limited to goods with those or equivalent marking only. The warranty/AMC required must be specified	
f	After the supply of Resistivity Equipment (Geophysical Natural Electrical Prospecting MT Instrument for Hydro geological studies) as mentioned in the ANNEXURE-I , the bidder has to execute its installation at the designated location(s).No extra cost shall be paid for this reason.	
2	Delivery of Supplies & Installation:	
a	The purchaser interested for complete delivery of equipments along with Installation, Testing and Commissioning within the period as mentioned at IMPORTANT INFORMATION AT GLANCE sheet. However, the bidder has an option to submit the best delivery with installation time.	
b	The material shall be inspected on receipt at site and bidder shall be responsible for any damage during the transit of Goods/Items.	
c	The insurance cover including insuring the goods against the loss or damage incidental to manufacture or acquisition, transportation, storage and delivery/ installation shall be obtained by bidder in his own name and not in the name of purchases.	
3	Warranty & After Sales Services:	
a	The bidder shall offer on-site comprehensive warranty of equipments as mentioned at IMPORTANT INFORMATION AT GLANCE sheet at the designated location & shall cover each and every part of the equipments including parts having limited life etc. The purchaser is not liable to pay any extra charges on any account during warranty period.	
b	The bidder shall ensure to render after sales services during the warranty period to the satisfaction of purchaser.	
c	The performance security at the rate 10% of the basic value is required for the	

		warrantee period plus sixty days extra.
4	Eligibility Criteria:	
	a	If the bidder is a authorized distributor or dealer, he should authorized dealer of the Manufacturer. Copy of authorization certificate should be enclosed along with the bid.
	b	Bidder should have minimum annual turnover (Double value of estimated cost of tender) in last year .CA certification in this regard is to be submitted.
	c	Bidder should have GST Number & Income PAN both.
	d	OEM Authorization Letter and ISO Certificate should be attached along with the Tender Document.
	e	Service Center must be in India.
	f	Copies of P.O and installation certificate of similar equipment installed at IITs, NITs and Reputed Organizations/Institutes must be submitted with offer.
5	Amendment of Tender Document:	
	a	At any time prior to the date submission of bids, the purchaser, may, for any reason, whether at its own initiative or in response to a clarification sought by a prospective bidder, amend bid document by issuing corrigendum. The corrigendum will be notified/ published in e-tendering website www.eprocure.gov.in/epublish/app and Institute website only.
6	Price Bid	
	a	The Prices should be quoted in Indian Rupees only.
	b	Purchaser (being a research Institution) is registered with the Department of Scientific & Industrial Research (DSIR) for the purpose of availing custom duty exemption in terms of GoI Notification No. 51/96-Customs dated 23 July 1996. The bidder should quote their prices considering the exemption certificate. If any certification needed by bidder, may be given to avail this benefit.
	c	Government of India, Ministry of Finance (Department of Revenue) Notification No: 47/2017 integrated Tax dated 14/11/2017, the NITs are exempted from GST in excess of the amount calculated at the rate of 5 per cent under the following categories: (a) Scientific and technical Instruments, Apparatus, Equipment (including Computers); (b) Accessories, Parts, Consumables and live animals (experimental purpose); (c) Computer Software, Compact Disc-Read only Memory (CD-ROM), recorded magnetic tapes, Microfilms, Microfiches; (d) Prototypes, the aggregate value of prototypes received by an institution does not exceed fifty thousand rupees in financial years. The bidder should quote their prices considering the exemption. If any certification needed by bidder, may be given to avail this benefit.
	d	Bidder shall take into account all costs including unloading at the location of purchaser, cartage etc. for giving delivery of material at site(s) before quoting the rates. In this regard no claim what so ever shall be entertained.
	e	The bidders are advised not to indicate any separate discount. Discount, if any, should be merged with the quoted unit prices.

	f	The price quoted in price bid shall be firm but subject to change in rate of applicable taxes if any.
	g	The Bidder should avoid the use of vague term such as “Extra as applicable”. Such offers shall be treated as non-responsive.
	h	No extra payment shall be paid on account of any discrepancy in nomenclature of items. The bidder shall seek clarifications if any before submitting the tender.
7	Bid Submission:	
		The tender must be placed in a properly sealed envelope super-scribed “ Tender for Resistivity Equipment (Geophysical Natural Electrical Prospecting MT Instrument for Hydro geological studies) with tender inquiry number and its due date addressed to The Director, Maulana Azad National Institute of Technology-Bhopal- 462003 and must reach the office of The Assistant Registrar- Stores & Purchase, Maulana Azad National Institute of Technology, Bhopal on or before as mentioned at IMPORTANT INFORMATION AT GLANCE sheet. The sealed Envelop should be consisting of followings:
	a	Copy of Certificate of Registration of firm, GST Number and Income Tax PAN.
	b	Certificate mentioning of Turnover for the last year and OEM authorization letter.
	c	BOQ Annexure-I and Price Bid Annexure-II duly filled and signed.
8	Evaluation of Bids:	
		The Institute shall evaluate all the items together or separately depending upon nature of items of circumstance and compare the quotations determined to be substantially responsive i.e. which
	a	are properly signed;
	b	Confirm to the eligibility criteria of the vendor; and
	c	Confirm to the terms & conditions, and technical specifications.
	d	In case, required goods/items in this tender are independent and complete in nature. Institute may evaluate independently as far as price is concerned for placing order(s).
9	Validity of Tender:	
	a	The tender shall be valid as mentioned at IMPORTANT INFORMATION AT GLANCE sheet. Terms and financial details submitted in the bid shall be treated as firm during the validity period.
	b	In exceptional circumstances, prior to the expiry of the bid validity period, the purchaser may request bidders to extend the period of validity of their bids. The request and the responses shall be made in writing.
10	Notification of Award:	
	a	Prior to the expiry of the period of bid validity, the purchaser shall notify the successful bidder, in writing, that its bid has been accepted. The notification letter shall specify the sum that the purchaser will pay to the bidder in consideration of the Supply of Geophysical Natural Electrical Prospecting MT Instrument for Hydro geological studies) with the details of selected location.
11	Penalty Clause:	
	a	The bidder shall indicate the period within which the ordered quantity will be supplied along with Installation & Commissioning of Goods/ Items. The bidder shall note that in case bidder fails to do so within the period of delivery indicated

		by the bidder in price bid of this tender, penalty @ 0.50 % on basic value of the PO per week of delay would be levied subject to maximum 10 weeks. It means, the bidder shall have the liability of delayed supply to the maximum of 10 weeks after expiry of scheduled delivery date.
12	Terms of Payment:	
	a	The Payment shall be made by purchaser after supply and installation of Goods/ Items and proper training to concern staff at free of cost.
13	Jurisdiction:	
	a	In the event of any dispute the legal matter shall be subjected to the jurisdiction of Bhopal court only.

Maulana Azad

National Institute of Technology Bhopal- 462 003

BILL OF QUANTITY

Geophysical Natural Electrical Prospecting MT Instrument for Hydrogeological studies					
Principle	Instrument should monitors abnormal variation of electrical resistivity, which is generated by different geological bodies.It uses the nature electrical field as a signal source and does not need a heavy power supply equipment. With qualitative analysis and quantitative analysis, it can find water flowing direction, water depth, water quantity at various depth range.				
Input Impedance	$\geq 10M\Omega$				
Maximum depth	$\leq 500\text{mbgl}$				
No of Input Channels	Single				
MN Electrodes	Cu12mm ϕ 12 or self-made electrode				
Standard Electrode Spacing	0.5m -20 m				
Depth swtich Option	Maximum depth can switch,60/100/200/300/400/500 mbgl				
Profiles	20-50 layers				
Temperature	-20°C ~+60°C; Humidity: 80%				
Connection Mode	Wifi,Serial port, Bluetooth 4.0 USB				
Display	(7 inch IPS) wide Angle video178°Visual touch screen				
Operating Unit	Android Version 6.0.1 Running memory 1G memory 8G(expandable 128G)				
Central Processing Unit	2.0Hz; ARM Cortex-A7 8CoreCPU				
Graphical Processing Unit	It should be OpenGL ES 2.0				
Measurement Output	Display Pseudo-section of sub-surface weak in real-time 2D/3D drawing / Data file should be available for further analysis for export via USB to Mobile or Tablet PC or Desktop				
Measurement Interval	20 readings @5m upto 100mbgl	40 readings @5m upto 200mbgl	60readings @5m upto 300mbgl	40 readings@10m upto 400mbgl	50 readings @10m upto 500mbgl
Unit of Measurement	milli volts (mv)				
Data Output	It should provide Pseudo-section of weak zone in color contour images in 2-				

	Dimensional and 3-Dimensional pattern in X-Y axis instantaneously.It should have provision to transfer data wireless to android mobile or provision to e-mail the final output.	
Interface	Provision to access field data and Pseudosection in Device Display, Mobile phone and PC screen	
Survey methodology	MN Single Channel continous Profiling (upto 20 stations)	
Terrian Conditions	Equipment should be suitable to work in natural ground measurment.It should have provision to work in hard topography such geological outcrops or exposure of rocks, cemented platfrom, asphalt road using surface ground adapter	
Parameter Setting	User selectable Setting range of 0 to 8 , for resistivity value ranges 20-100 ohm m	
Stacking function	16 times	
Frequency range(HZ)	0.001—8Kilo HZ	
Suppression of industrial interference	>80Db	
Detection mode	MN electrodes & Surface electrode adapter	
Resolution	0.001mV±2%	
Sampling time (seconds)	120—1200	
Inbuilt Power Source	600mA/H (Lion Battery); Power Source should be rechargeable and detachable from mainframe	
Weight (mainframe)	2.0 to 3.0 kg	
Date:		BIDDER'S NAME & SIGNATURE WITH SEAL

		ANNEXURE- II
FORMAT FOR SUBMISSION OF BID PRICE		
To, The Director MANIT- Bhopal- 462 003		

Sub:	Price Bid with reference to Tender Document No: _____ dated _____
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SN	Product Description with make & Model	Discounted unit price	Qty	Qty Price	GST	Total Price
1	2	3	4	5	6	7(5+6)
1						
2						

Total offered Price						
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Total (In Words):

Delivery Period required:

The followings things are confirmed and undertake by us that:

a	The price quoted above are inclusive of basic price, statutory levies and taxes, duties, Transportation, Incidental services (including Insurance, Loading/ unloading, Packing & Forwarding charges, Installation etc.) at site.
b	Taxes are subject to change/ revision.
c	We agree with the terms and conditions specified in "Instructions to Bidders" and if selected, the execution of supplies would be made in compliance.

Date:	Signature of Authorized Bidder with proper rubber stamp
	Name:
	Designation:
	Mobile No: