

क्रय कार्यालय मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद, प्रयागराज—211004 Purchase Office





No: 959/Purchase Office/OT-06/2020-21

Dated: 24.02.2021

REFERENCE: Tender# OT-09/PO/CED/Soil Static Cyclic Triaxial Testing System/2020-21 dated 20.11.2020

(A.) <u>List of Bidder(s) found as NON-RESPONSIVE In Technical Evaluation</u> तकनीकी मूल्यांकन में अन्तरदायी पाए गए बोलीदाताओं की सूची

SI.	Name of Bidder	Status
	NIL	

(B.) <u>List of Bidders found as RESPONSIVE in Technical Evaluation</u> तकनीकी मूल्यांकन में उत्तरदायी पाए गए बोलीदाता की सूची

SI.	Name of Bidder	Status
1.	M/s Aimil Limited, New Delhi	Responsive
2.	M/d Hydraulic Engineering Instruments, New Delhi	Responsive

Price Bid Opening

Date	Time	Venue
26.02.2021	1530 Hrs.	Room # 205, Purchase Office
		Administrative Building,
		MNNIT Allahabad

Harfor 34/2021



प्रयागराज-211004 (भारत)

Motilal Nehru National Institute of Technology Allahabad Prayagraj-211004 (India)

Ph. # 0532-227-1057, 1030; Mail: purchase@mnnit.ac.in

TECHNO-COMMERCIAL COMPLIANCE STATEMENT

Open Tender #:

OT-09/PO/CED/Soil Static Cyclic Triaxial/2020-21 dated 20.11.2020

For:

Procurement of Soil Static Cyclic Triaxial

Date of Technical Bid Opening:

18.01.2021 at 1530 Hrs.

Venue:

Room No. 203 (Conference Hall, Purchase office)

Eligibility		[1/2]	[2/2]
Criteria under GCC (Page # 07/20)	Title/Requirement	M/s Aimil Limited, New Delhi	M/s Hydraulic & Engineering Instruments, New Delhi
Clause 4(i)	The Bidder must be a legally valid entity i.e. a Proprietary/Partnership Firm/Limited Company/Society Legally constituted or registered under the relevant act	Complied (Registration # 55-6093 dt. 23.08.2001) (Pg. no. 17)	Complied (Pg. no. 45 to 52)
Clause 4(ii)	Bidder must have an annual average turnover of Rs. 135.00 lakhs during the past three financial years i.e. 2017-18, 2018-19 and 2019-20.	-	
Clause 4(iii)	Must have supplied the same equipments with same set of accessories to reputed Indian organizations especially NITS/IITs/Central Universities/IISERs/CSIR/Labs etc. during the last three financial years i.e. 2017-18, 2018-19 and 2019-20.	Complied (Pg. no. 13)	Complied (Pg. # 69 to 71, 76 to 81)
Clause 4(iv)	Duly filled in format 'A' to 'F'.		
	Annexure-A: Bid Proposal Sheet	Complied (Pg. no. 14)	Complied (Pg. # 23 & 24)
	Format – B : Technical Compliance of Goods	Complied (Pg. no. 15 & 16)	Complied (Pg. # 18 & 19)
	Format – C : Price Reasonability Certificate	Complied (Pg. no. 16)	Complied (Pg. # 38)
	Format – D : Manufacturers' Authorization Form (MAF)	Complied (Pg. no. 17)	Complied (Pg. # 22)
	Format – E : Affidavit Regarding Blacklisting/ Non-Blacklisting Firm	Complied (Pg. no. 18)	Complied (Pg. # 31)
	Format – F: Proforma for Direct Payment/Transfer to Bank Account by MNNIT Allahabad	Complied (Pg. no. 19)	Complied (Pg. # 39)
Clause 4(vi)	Must have submitted the EMD required unless exempted	MSE Exempted (Pg. no. 03)	Not Applicable (Pg. no. 2)
Criteria for Techni	cal Assessment under GCC (Page # 10/20)		
Clause 10(1)	Preference will be given to ISO 9001:2000 certified Manufacturer/suppliers, who can ensure the manufacturing of the machine as per the required testing standards IS/BS/BIS/ASTM standards and within the specified tolerance limits.		Complied (Pg. # 53)
Clause 10(2)	Should have NABL accredited testing and calibration facility from minimum last five years.	Complied (Pg. # 26 to 35)	Complied Certificates attached at (Pg. # 26 to 29)
Clause 10(3)	Bidders should provide list of plant and machineries and inspection tools along with quotation.	Complied (Pg. # 36 to 44)	Complied (Pg. # 35 to 38)

[Vilay Kumar]

[Anupam Rawat]

[R. P. Tiwari]

[Assistant Registrar (Accounts-I)]

[Assistant Registrar (Admin-III)]

[Manisha Yadav

(R&C Core Committee Member)]

[Dean (R&C)]

		M/s Aimil Limited, New Delhi	M/s Hydraulic & Engineering Instruments, New Delhi
Clause 10(4)	Manufacturer should have in-house R&D center duly recognized by Department of Scientific & Industrial Research, Ministry of Science & Technology. Bidder has to provide the certificate alongwith the tender.	Complied (Pg. # 45)	Complied (Pg. # 31 to 34)
Clause 10(5)	Manufacturer will ensure the tractability (Source of Calibration) of the calibration unit to NCCBM, NPL etc. Bidders should quote make of the quoted equipment alongwith authorized letter from manufacturer.	Complied (Pg. # 45 to 46)	Complied Certificates attached at (Pg. # 54 to 57)
Clause 10(6)	Before placing the orders, supplier should offer us factory visit to ensure the capability of supplier.	Agreed (Pg. # 25)	Agreed (Pg. # 21)
Clause 10(7)	Bidders should provide copies of original Memorandum and Articles of Association, defining the constitution or legal status, place or registration and place of business of the company.	Complied (Pg. # 46 to 49)	Complied (Pg. # 45 to 52)
Clause 10(8)	Bidders should provide details of service centre and information on service support facilities that would be provided after the warranty period. Manufacturer should have trained and qualified customer support staff with ample experience in the required field.	Complied (Pg. # 38 to 44)	Complied (Pg. # 35 to 36)
Clause 10(9)	Offer should be submitted with Original Technical Literature by bidder.	Complied (Pg. # 7 & 9)	Complied (Pg. # 9 & 17)
Clause 10(10)	Warranty period should be two years from the date of installation.	Complied (Pg. # 04)	Complied (Pg. # 08)
	STATUS	RESPONSIVE	RESPONSIVE

RECOMMENDATION:

On the basis of the above, the Committee found both the bidders as RESPONSIVE, therefore the Committee recommends for cost opening of both the bidders.

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(Anuram Rawat

R P Tiwari)

[Manisha Yadav (R&C Core Committee Member)]

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[Assistant Registrar (Accounts-I)]

[Assistant Registrar (Admin-III)]

[Dean (R&C)]



प्रयागराज-211004 (भारत)

जनपदीय अभियांत्रिकी विभाग





TECHNICAL COMPLIANCE STATEMENT

Tender #:

OT-09/PO/CED/Soil Static Cyclic Triaxial/2020-21 dated 20.11.2020

For:

Procurement of Soil Static Cyclic Triaxial

Date & Time of Opening of Bid: 18.01.2021 at 1530 Hrs.

SI.	Item Details	Qty.	M/s AIMIL Ltd. New Delhi	M/s Hydraulic and Engineering Instrument New Delhi
1.	 Soil Static Cyclic Triaxial Testing System 10kN/10Hz It should have a computer-controlled servo-hydraulic system, design to perform static as well as cyclic loading stage of triaxial test. The data acquisition & control system should be provide to perform with the same which is used for controlling hydraulic actuator together with a hydraulic power pack for applying dynamic pressure to perform close loop vertical load and displacement, to measure load, displacement and also pore water pressure. Pressure volume controller system should be control cell pressure and back pressure of system. Features of Servo-hydraulic dynamic (cyclic) triaxial Apparatus: PID vertical load/ displacement closed loop loading. The system should manage three loop axis. Vertical load/displacement: up to 10kN / ±25mm Cell pressure up to 1000 kPa Back pressure up to 1000 kPa Online Monitoring with measurement through graph Suitable for Specimen's size upto 100mm Technical Specification: Maximum Dynamic Load: 10kN Waveform: Sine, Triangular, Square No. of control points: 1 kHz Control: Servo hydraulic Back pressure controller: 1000 kPa Cell pressure controller: 1000 kPa Triaxial load frame: 100 kN Transducers: Loadcell (type submersible)- up to 10 kN Displacement-50mm Pore Pressure 2 mpa Technical Specification of Load Frame:	01	Yes	Instrument New Delhi
	Max. Working pressure: 300 bars or betterOil tank delivery: 10-70 LPM			

[Anupam Rawat]



प्रयागराज—211004 (भारत) जनपदीय अभियांत्रिकी विभाग

Motilal Nehru National Institute of Technology Allahabad,

Prayagraj-211004 (India)



	Civil Engineering Depart	ment	
	Oil Tank delivery: 100-500 ltrs		
	Hydraulic ports for connection of test frames		
	Oil flow control via servo/proportional value		
	Oil water cooling system with forced ventilation		
	 Operating temperature range for servo valve- 29°C to 135°C 		
	Burst pressure: 250% max. supply pressure		
	 Vibration: 30g, 3axes or better 	P 127 11 1	
	 Power Supply : 220VAC, 3 phase 		
5.	Actuator Specifications: Double acting hydraulic actuators have digitally controlled and include an external LVDT displacement transducer to control the position and the displacement of the position during the test. Dynamic loading capacity: up to 10kN		
	 Dynamic vertical displacement : ± 25mm 		
	 Nominal Operating Frequency : up to 10Hz 		
6.	Triaxial Cell Details: Triaxial Cell of size 38mm, 50mm and 100mm dia have suitable for both static and dynamic test (compression and extension), Seal Friction less cell with submersible load cell is connected to transfer bar, Sensor connectivity from bottom of cell like pore pressure, cell pressure etc. Specimen's size range from 38mm dia to 100mm dia. Should be supplied along with standard Accessories. Must be supplied along with the essential accessories	Yes	Yes
	as following:		
	 De-airing apparatus should be supply along with system 		
	 Vacuum Pump should be supply along with system 		
7.	Transducer Specifications: Submersible load cell available in various ranges such as 2kN, 5kN, 10kN or better as per ASTM standard. Displacement transducer ±25mm. Pore Pressure transducer 2Mpa		
8.	Data Acquisition & Control system Details: The unit manages the three-closed loop axis (vertical load/displacement, cell and back pressure) with a control loop rate of 10 kHz. It Should provide the automatic control of the system and dives the servo-valve units of the three axis and two on/off valves, one connected to the drainage line and one connected to the air main supply of the triaxial cell		
9.			

Vijack mar [Vijay Kumar]

Type of control and it range

[Anupam Rawat]

[R. P. Tiwari]



प्रयागराज-211004 (भारत)

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Prayagraj-211004 (India) Civil Engineering Department

C.	Static Triaxial Testing: The analysis and reporting of following test should be		
	perform on		
	 Unconsolidated Undrained Triaxial Test 		
	 Consolidated Undrained Triaxial Test 		
	 Consolidated drained test 	~	
D.	Cyclic Triaxial Testing: This test should have the following features		
	 Dynamic cyclic loading tests at required frequency 		
	 Provided sinusoidal cyclic control of axial displacement or axial force. 	Yes	Yes
	 Plotting saved results gives cyclic stress paths based on average cross-sectional area i.e. the area of the volumetrically equipment right cylinder 		
	 A complete cycle of data saved every N cycle where the value of N is defined by the user. 		
10	. Laptop/Desktop and coloured printer with latest configuration.		
Stan 3999	dards: As per IS: 2720 (Part 12), ASTM D 5311/ASTM D		

Recommendation:

Technically Qualified for the items as mentioned against each. Therefore, the Committee recommends the commercial evaluation of . ______ the technical qualified bidders.

[Anupam Rawat]