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From

SUPPLY ORDER

The Director General, Supplies & Disposals, Haryana,
S.C.O. No. 09 (1st & 2nd Floors), Sector-16, Panchkula.
Tel. Nos. 0172-2570121-124.
Fax No. 0172-2570121, E-mail: supplies@hry.nic.in

To

M/s Hydraulic & Engineering Instruments
B-59/4, Naraina Industrial Area, Phase-II
New Delhi-1100028
E-mail: info@heicoin.com, Moblie-9999368189

Memo No. 117/HR/E-1/2023-24/
Dated Panchkula, the :-

Subject:- Purchase of various types of Workshop Machinery and Equipments, required by The Director General, Technical Education Department, Haryana.

With reference to your offer No. 1075606 and your letter No. Nil dated 01.07.2025, this office acceptance letter No. 7093 dated 29.07.2025 & your letter No. 374 dated 07.08.2025, on the subject noted above.

2. Please supply as given below from the date of issue of supply order the following material under the terms and conditions already accepted by you in the tender to the Consignee to be intimated by the Technical Education Department, Haryana, Sector-4, Panchkula.

3. The material may please be sent directly to the consignees to be intimated by the Technical Education Department, Haryana, Sector-4, Panchkula to you and for payment, the bill of the cost in triplicate be sent to the consignees for payment under advice to the this office.

Sr. No.	Description of Store	Qty. (In Nos.)	Rates in Rs. per machine, inclusive of all GST/Taxes, Freight, consignee stores FOR etc
1.	Direct Shear Testing Apparatus (Electronic)	05	2,03,000/-
2.	Theodolite Digital	11	47,247/-

DETAILED TECHNICAL SPECIFICATIONS

S.No	Name of Apparatus / Equipment	Specifications of Apparatus / Equipment
1.	Direct Shear Testing Apparatus (Electronic)	Direct shear test apparatus to be used for performing the test soil samples confirming to IS:2720 (Part XIII) The complete outfit should have the following items: - <ul style="list-style-type: none">Shear box assembly, 60 mm square, complete with a U-bracket, guide pins

and spacing screws, made of brass.

- The gripper assembly consisting of two plain grid plates, two perforated grid plates, one base plate and one loading pad, all made of brass.
- Two porous stones 6 mm thick, fitting the shear box.
- Shear box housing of brass, complete with two roller strips.
- Loading Unit with normal loading capacity of 8 kg/cm^2 on 60 mm square specimen with motor driven 12 speed gear drive providing twelve constant rates of strain i.e., 1.25, 0.625, 0.25, 0.125, 0.05, 0.025, 0.01, 0.005, 0.002, 0.001, 0.0004, and 0.0002 mm/min.
- Specimen cutter for a specimen size of 60 mm x 60 mm x 25 mm.
- Set of weights to give a normal stress up to 3 kg/cm^2 on the specimen through lever comprising 4 of 0.05 kg/cm^2 , 1 of 0.1 kg/cm^2 , 1 of 0.2 kg/cm^2 , 3 of 0.5 kg/cm^2 and 1 of 1.0 kg/cm^2 .

Electronic data acquisition system

The three-channel micro controller-based signal conditioning and touch panel display unit, suitable to measure Horizontal load, Horizontal Displacement and Vertical displacement directly indicated in their respective units during testing. The system receives the output signal from the sensors i.e. Load cell and Displacement Sensors attached to the apparatus. The data of all three channels of Direct Shear Test can be transferred to computer through RS-232/ Ethernet. The Unit should have facility of online monitoring of data of all the sensors on Touch Panel Display.

The other incorporated features in the system are as follows: -

- Touch panel is provided to perform various operations such as TARE, PROGRAMMING, START, STOP etc.
- Independent Taring of each channel
- Data transfer interval is programmable (between 1 second to 1 hour)
- Automatic data saving on stop button.
- There are 25 set results having a maximum of 200 data points per set can be stored in the electronic unit. The sample number can be programmed.
- Online date and time of test will be stored along with the data.
- Online (when test is in progress) data transfer to the computer through RS-232/ Ethernet.

Sensors Specification: -

Load Cell:

- Capacity: 200kg, S-shaped
 - Excitation Voltage: 10VDC
 - Nominal Output: 3.0mV/V
 - Non-Linearity: $< \pm 0.025\%$ FSO
 - Hysteresis: $< \pm 0.02\%$ FSO
 - Non-Repeatability: $< \pm 0.01\%$ FSO
 - Creep (30 Minutes) : $< \pm 0.03\%$ FSO
 - Zero Balance: $\pm 1.0\%$ FSO
 - Input Resistance: $392 \pm 15 \text{ Ohms}$
 - Output Resistance: $350 \pm 3 \text{ Ohms}$
 - Insulation Resistance: $> 1000 \text{ MOhms}$
 - Safe Overload: 150% of rated capacity
 - Ultimate Overload: 250% of rated capacity
 - Temp. Range: 0°C to 60°C .
 - Temp. Effect on output: $< 0.0015\%$ FSO/ $^\circ \text{C}$
 - Temp. Effect on zero: $< 0.0020\%$ FSO/ $^\circ \text{C}$
- Linear variable differential transformer (LVDT)**
- Stroke: $\pm 20 \text{ mm}$

		<ul style="list-style-type: none"> • Linearity Deviation: $\pm 1\%$ of rated capacity • Repeatability: $\pm 0.1\%$ of rated capacity • Hysteresis: $\pm 0.5\%$ of rated capacity • Excitation: 2-volt rms 2 KHz sinusoidal • Sensitivity: 1 mV/V/mm • Safe Temperature Range: $0^\circ - 50^\circ \text{C}$ • Core Fixture: Spring-loaded plunger <p>Software specifications</p> <ul style="list-style-type: none"> • It should have Data Acquisition from Signal Conditioning Unit to Computer • It should have Off-Line Data Analysis Software that does all the calculations of Direct Shear Test • It should have option for manual as well as automatic recording of data • It must calculate Area, Volume, Bulk density, Dry density, Moisture content etc. of the specimen • It must display the following Plots (Graphical) <ul style="list-style-type: none"> ➤ Horizontal Displacement vs Shear Force ➤ Horizontal Displacement vs Vertical Displacement ➤ Normal stress vs Shear Force ➤ Maximum value of the Dilation Angle <p>The software should be windows based and must be user friendly. It will be easy to operate and has the flexibility to enter different sizes of test specimen.</p>
2.	Theodolite Digital	<p>TELESCOPE</p> <ul style="list-style-type: none"> • Tube Length 157mm • Imaging Erect • Effective Aperture 47 mm • Magnification 30X • Field of View 1 Degree 30 Min • Resolving Power 3" • Minimum Focus Distance 1.5 m • Stadia Ratio 100 • Stadia Constant 0 • Angle Measurement ---- • Method Absolute Encoding • Diameter of Circle (Vhz) 79 mm • Minimum Reading 1"/5"/10"/20" (Selectable) • Accuracy 2" • Measuring Unit 360° • Electronic tilt sensor Vertical compensation • Compensation range $\pm 3"$ • Resolving power 6" • Display Screen Type Dual face LCD • Power Supply 6V Rechargeable Ni - MH Battery & AA Battery • Operations Time About 20 hours • Tripod stand • Plumb bob • Rod

1. **F.O.R. :-** The above rates are FOR destination basis anywhere in Haryana at supplier's risk.
2. **GST :-** Inclusive in above rates.

3. **Freight Charges :-** Inclusive in above rates.
4. **Delivery Period:-** Within 90 days from the date of placement of supply order after successful inspection. The failure to supply within stipulated delivery period may render to forfeiture of Earnest Money/ Security Deposit and other penal action as per terms and conditions of contract.
5. **Payment:-** 80% payment will be released within 45 days after physical delivery of inspected/ accepted goods in physically good condition at consignee destination. Remaining 20% will be released after satisfactory installation/ working of the machine/ demo at the consignee destination. **The Indenting Departments would have option to release payments in RTGS/ Electronics mode also.**

Delay in payments to the suppliers beyond the stipulated credit period indicated in the supply order, unless supported by cogent reasons and approved by a higher authority, will attract penal interest on the defaulting amount @ Rs.25/- per rupees one lakh per day of delay beyond the stipulated credit period. Non provision of adequate budget will be no ground for delay in payments to the supplier.
6. **Warranty Period:-** All the machines/ equipment's will be warranted for three years from the date it has been made operational at the consignee location. Performance guarantee shall be released after the completion of performance guarantee period.
7. **Complaint attending mechanism:** In case of any complaint in the working of the machines during the warranty period, the firm shall attend the same within 72 hours from the time of logging of first complaint call by the consignee and the machines must be repaired within 15 days thereafter. The complaints would be logged by the Department officers by email/ fax in order to keep the proper delivery records. Further in case of failure to do so, penalty @ Rs. 1000/- per day per machine will be applicable. If equipment is not repaired within 30 days without any justified reasons, the department/ institute shall be at liberty to repair the same from local market at the cost of the tendering firm to be recovered from the performance guarantee.
8. **Inspection:-** The indenting department will inspect the material twice. First inspection will be done for one sample of each item and second inspection will be carried out for all the items before dispatch of the material. The inspection committee will also sign on each of the items during the inspection before the dispatch of material by the supplier. Thereafter, the consignee will also ensure

the quantity received in their institution. The warranty of the material will be three years and the billing should be from Haryana. The inspection will be conducted at the premises of Manufacturer before affecting the supplies.

Only 02 inspections will be allowed, in case, the material offered for inspection by the firm fails to meet the specifications as per the NIT/Order/ Contract and the samples are rejected by the inspecting Committee, the Indenting Department will have the right to take penal action including forfeiture of EMD, risk purchase, debarring/ blacklisting in future etc. and no further opportunity for inspection would be provide to the supplier firm.

In case, the material offered for inspection by the firm fails to meet the specifications stipulated in NIT/Order/Contract and the samples are rejected by the inspecting Committee, the indenting Department will have the right to levy a penalty at 0.1% of the total order value. In case, the martial offered for inspection fails during the 2nd inspection also, the Indenting Department will have the right to increase the penalty to 0.25% of the total order value. In case, the material offered fails during the 3rd and final inspection also, the firm will be liable for penal action including forfeiture of EMD, risk purchase, debarring/ blacklisting in future, and no further opportunity for inspection would be provided to the supplier firm.

9. **PENALTY CLAUSE :-** Penalty to firm on Delay in delivery: If the contractor fail to deliver or dispatch any consignment within the period prescribed for such delivery or dispatch stipulated in the supply order, the delayed consignment will be subject to 2% penalty per consignment per month recoverable on the value of the stores supplied. The other details will be as per provision contained in Sr. No. 14 of "Schedule-'B' Condition of Contract".
10. **PRICE FALL CLAUSE :-** The price charged for the stores shall not exceed in any way the lowest price at which you quote/supply the stores of identical description of stores to State Govt./Central Govt./Institutions/ undertaking/ GeM any other person during the delivery period/ currency period of the rate contracts. If at any time during the delivery/currency period, you reduce the rate, sale price of quoted stores to any person at the price lower than the price chargeable under this supply order/contract, you are required to inform this office and price payable under the supply order/contract for the stores supplied after the date of coming into force of such reduction of rates shall stand correspondingly reduced to that level. You shall promptly notify the reduction of rates to this office as well as to concerned Indenting Officers/ Consignees. You

shall also give a certificate on your bills that the rates charged by you are not in any way higher to these quoted to the GeM, New Delhi and other State Govt. Central Govt. Institutions etc. during the corresponding period. The Indenting Officer shall be required to ensure that requisite certificate is given by the concerned firm on the bills before releasing their payments. Full benefit due to reduction in GeM rate contract or Net Dealer Price during the period of rate contract/ supply will be passed on to the consignee in addition.

11. Failure the effect supply within the stipulated delivery period or repeatedly offering supply liable for rejection may render to forfeiture of Earnest Money/ Security and other penal action as per terms & conditions of the contract will also be taken.
12. SCHEDULE "B":- One copy of the Schedule "B" i.e. conditions of contract applicable is sent herewith duly signed on behalf of Governor of Haryana.

Other terms & conditions will be as per NIT(Schedule-A/Schedule-B) attached

Encls.a/a

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Joint Director,
Supplies & Disposals, Haryana,
For & On behalf of Governor of Haryana.

Endst.No. 117/HR/E-1/2023-2024/

Dated :

A copy of the above is forwarded to The Director General, Technical Education Haryana, Bays No. 7-12, Sector-4, Panchkula for information and necessary action. Payment may please made to the supplier strictly as per approved payment terms.


He is also requested to issue consignee wise dispatch instructions direct to the firm immediately under intimation to this office.

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Joint Director,
For Director General, Supplies & Disposals, Haryana.

Endst.No. 117/HR/E-1/2023-2024/ 11/5

Dated : 22/8/25

A copy is forwarded to the following for information and necessary action:-

1. The Accountant General (Audit) Haryana, Sector-33, Chandigarh.
2. The Excise & Taxation Commissioner, New Delhi.
3. St. Section.
4.  Programmer O/o DGS&D, Haryana.

4-
Joint Director,
For Director General, Supplies & Disposals, Haryana.