

SUPPLY ORDER**REGD**

From

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 Asha Scientific Works
3592, Timber market, Ambala Cantt-133001 (Haryana)
E-mail: ashascientificworks@gmail.com, Moblie-9996521710

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. 1127487 and your letter No. Nil dated 01.07.2025, this office acceptance letter No. 7097 dated 29.07.2025 & your letter No. NIL dated 05.08.2025, 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.	Triaxial Testing Apparatus Computerized (automatic) 50 KN capacity	04	3,06,800/-
2.	Flash Point Test Apparatus	01	20,000/-
3.	Automatic Compression Testing Machine (Digital) 2000 KN with Flexural testing attachments (100KN)	01	3,11,000

DETAILED TECHNICAL SPECIFICATIONS

S. No	Name of Apparatus / Equipment	Specifications of Apparatus / Equipment
1.	Triaxial testing apparatus - computerized (automatic) 50 kN capacity	<p>Triaxial testing apparatus computerized automatic (Capacity 50 kN load frame) for testing on soil samples conforming to IS 2720 (Part XI and XII)</p> <ul style="list-style-type: none"> • Load Frame of 50 kN capacity, with Universal Triaxial Cell for testing of soil specimens up to 100 mm in diameter. • A motor drive gear unit to give 30 different rates of strain ranging from 6 mm/min down to 0.00048 mm/min. Should be suitable for operation on 220V, 50 Hz, Single phase supply with different rate of strain ranging from 0.00048mm/min. to 6 mm/min. • Triaxial Cell (1000 kpa lateral pressure) for testing of 38 mm diameter x 76 mm high specimens should have four take off positions drilled in the base for cell pressure, pore water pressure, and for top and bottom drainage fitted with 4 no. volume change valves. The cell should be completed with one loading pad, two porous stones, one sheath stretcher, one split sand former, 10 latex rubber sheaths and four sealing rings for 38 mm dia samples. • Pneumatic Control Panel Capacity: 10.5 kg/sq cm. complete with Mechanical volume change Apparatus with necessary arrangements. The unit should have precision pressure regulators for controlling confining pressure, back pressure. • Air compressor (10Kg/cm²), Single stage compressor fitted over an air receiver with ON-OFF switch with pressure gauge and pressure outlet valve. Suitable for operation on 220 Volt 50 Hz, single phase supply. • De-Airing system with vacuum arrangement and vacuum pump. It should have a vacuum regulator with 20-liter water chamber and additional line for vacuum and vacuum gauge. • Electronic Data Acquisition System- The four-channel micro controller-based signal conditioning and touch panel display unit, suitable to measure Axial load, Pore/Back pressure, Vertical displacement, and Volume change. The system suitable to receive the output signal from the sensors i.e., Load cell, Pore/Back pressure sensor. • Displacement Sensor and Volume change sensor attached to the apparatus. The data of all four channels of apparatus should be transferred to computer through ethernet and should have online monitoring. The Unit should have the facility of online monitoring of data of all the sensors on touch panel display. The other following facilities should incorporate in the system are as follows: <ul style="list-style-type: none"> • Touch panels should be provided to perform various operations such as TARE, Programming, Start, Stop etc. • Independent Taring of each channel • Data transfer interval should be programmable (between 10 second to 1 hour) • Automatic data saving on stop button. • There must be 25 set results having a maximum of 200 data points per set

should be store in the electronic unit. The sample number should be programmed.

- Online date and time of test should be stored along with the data.
- Online (when the test is in progress) data transfer to the computer through RS232/Ethernet port.
- The Electronic unit should operate on 220V AC+ 10%, 50 Hz

Sensors Specification: -

LOAD CELL Capacity-1000 Kg, S Shaped

- Excitation Voltage :10VDC
- Nominal Output: 3.0m V/V
- Non-Linearity:< +/- 0.025% FSO
- Hysteresis:< +/- 0.02% FSO
- Non-Repeatability :< + 0.01% FSO
- Creep (30 Minutes) :< + 0.03% FSO
- Zero Balance: +1.0% FSO
- Input Resistance: 392 +/- 15 Ohms
- Output Resistance: 350 +/- 3 Ohms
- Insulation Resistance: >1000 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/ °C
- Temp. Effect on zero: <0.0020% FSO/ °C

PRESSURE TRANSDUCER Capacity:
2000kPa

- Excitation Voltage: 12V DC
- Nominal Output: 4-20mA
- Over Pressure Limit: 2 times F.S.
- Burst Pressure: 3 times F.S.
- Max. Loop Resistance: < (UB-12V)/0.02A
- Isolation Resistance:>100 MOhms at 50V DC
- Isolation Voltage: 250VAC
- Supply Current: 20mA for 4-20mA output
- Operating Temp. Range: -40° C to 105°C

**LINEAR VARIABLE DIFFERENTIAL
TRANSFORMER (LVDT)**

- Stroke: ± 20mm
- Linearity Deviation: ± 1% of rated capacity
- Repeatability: ± 0.1% of rated capacity
- Hysteresis: ± 0.5% of rated capacity
- Excitation: 2-volt rms 2 KHz sinusoidal
- Sensitivity: 1 mV/V/mm
- Safe Temperature Range: 0° - 50° C
- Core Fixture: Spring-loaded plunger

Software Specification: -

- Data acquisition from Signal Conditioning Unit to Computer
- Off-Line Tri-axial Data Analysis Software that should do all the calculations for UC, UU, CU, CU bar & CD Triaxial Test.
- Should have option for manual as well as automatic recording of data.
- Able to Calculate Dry density, Moisture content, Void ratio, degree of saturation, 100% saturation moisture content etc.
- Display the following Plots (Graphical)
 - Consolidation curve
 - Stress- Strain Curve for every test
 - Axial Strain vs Pore Pressure

		<ul style="list-style-type: none"> ➤ Effective Stress Ratio vs Axial strain ➤ A-parameter vs Axial strain ➤ p-q plot and gives the value of c and ϕ in terms of effective ratio ➤ Provisions for following calculations <ul style="list-style-type: none"> a) Evaluates t_{100} b) Strain rate depending upon drainage conditions for CD and CU tests
2.	Flash Point Testing Apparatus	<p>Flash point apparatus with energy regulator to comply with International Standards ASTM D92, IP - 36/57 & IS 1488(Part 1)</p> <ul style="list-style-type: none"> • This apparatus to be used for determination of Flash Point of petroleum products except fuel oil with open flash 80°C as per specifications mentioned in code. <p>The apparatus should consist of a cup heating plate to specific dimensions, thermometer clip and test flame applicator with swivel joint for passing over liquid surface in the prescribed manner. Heater with control energy regulator fitted to the apparatus. Should be suitable for operation on 220 Volts, 50 cycles, AC mains. Digital indicator cum controller with Motorized stirrer instead of Energy Regulator Thermometer (-6 to 400°C) (IP - 28C)</p>
3.	Automatic Compression Testing Machine (Digital) 2000 KN with Flexural testing attachments (100KN)	<p>Automatic Compression Testing machine of 2000 KN capacity with flexural testing attachments (100 KN) along with automatic load release conforming to IS: 14858(2000) and calibrated with an accuracy of $\pm 1\%$ as per the requirement of 1828(Class1). It should be supplied as per BS: 1881 and other associated International Standards.</p> <ul style="list-style-type: none"> • Large key catching display - 7" touch Screen operation • Fully automated operation to start, stop and hold loading with automatic pace rate control from 1-10 kN/sec.. • Load Least Count 0.1 kN • Double stage hydraulic pump with Automatic rapid approach and precise oil flow control • Controllable pace rate from 1 KN/sec to 10 KN/sec • Load v/s Time graph generating automatic on Touch Display directly in Pdf form with other details. • Facility to log all test reports data in Excel format like date-time, Test No, Pace Rate and Peak load, Stress N/mm^2 & Kg/cm^2 on Touch Display. • Facility to directly save the report in Pdf form with Load/Time Graph and other details after completion of the test. • Facility to insert different shapes and area in the Touch screen controller to calculate direct reading in N/mm^2 and KG/cm^2 • Calibration the Machine at min 8 points up to full capacity of Machine. • Connection to the Internet for remote online assistance. • Suitable for operation on 440 V, 50 Hz, three phase, AC supply. • Door Safety limit Switch • Emergency switch to stop the Machine • Control set max load limit through Electronics/software • Front safety door with Plexiglass • Loading Frame, The Loading Unit is of fully welded construction having a cross head, Base, and side plates. The Hydraulic jack is fixed to the Base. The Platens of the Machine are Hardened ground and polished. The upper platen is provided with self-aligning action. To facilitate testing of various size specimens, suitable sized spacers are provided. Ram Dia 222 mm or more, Ram Travel - 50 mm, Platen to Platen Gap - 370 mm or more, Gap between side plates - 340 mm or more. <p>Complete with Flexure Test Attachment of 100 kN Capacity</p>

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 successful inspection after supply order. The failure to supply within stipulated delivery period may tender 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.**

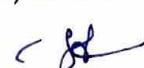
Delay in payments to the suppliers beyond the stipulated credit period indicated in the supply order, unless supported by cogent reasons and approved by a higher authority, will attract penal interest on the defaulting amount @ Rs.25/- per rupees one lakh per day of delay beyond the stipulated credit 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

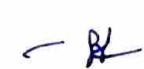
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Joint Director,
Supplies & Disposals, Haryana,
For & On behalf of Governor of Haryana.
Dated :


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

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.


Joint Director,
For Director General, Supplies & Disposals, Haryana.
Dated : 7-8-23

Endst.No. 117/HR/E-1/2023-2024/ 9
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, Ambala Cantt.
3. St. Section.
4.  Programmer O/o DGS&D, Haryana.


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