

# Government Polytechnic Gulzarbagh Patna7

## Corrigendum of Tender No. GPP7/03/2024

S. No.	Item No. & Page No.	Previous Specifications	To be read as in revised Specifications
1	Item no.-7 of Specification, Page No- 16	<p style="text-align: center;"><b>Ultrasonic Pulse Velocity Instrument –</b></p> <p>Should be of high Performance, microprocessor based instrument that measures velocity, transit time and other parameters. The Ultrasonic Pulse Velocity instrument should supplied complete with; Two 54 KHz Transducers(transmitter and receiver) with 3m cable, calibration rod coupling agent(250 mm ) . Standard and Norms. EN 11504-4 &amp; IS 13311</p>	<p style="text-align: center;"><b>Ultrasonic Pulse Velocity Instrument-</b></p> <p>Should be of high performance, microprocessor based instrument that measures velocity , transit time &amp; other parameters. The Ultrasonic Pulse Velocity instrument should supplied complete with; Two 54 KHz transducers (Transmitter and Receiver) with 3 m cable, Calibration rod Coupling agent (250 mm). Standards and Norms: EN12504-4 and IS13311.</p>
2	Item no.-9 of Specification, Page No- 16	<p style="text-align: center;"><b>Oven-</b></p> <p>Digital Laboratory Oven (18"x18"x18") with Digital Indicator cum Controller with safety alarm, ranges from 50° C to 250°C ,Hot oven 450mm digital</p>	<p style="text-align: center;"><b>Oven-</b></p> <p>Laboratory Electric Oven, with Digital Indicator Cum Controller with Safety Alarm, range 50° to 250°C +/-1°C with Air Circulating Fan, S.S. Inside Minimum Size 450 x450 x 450mm</p>
3	Item no.-17 of Specification, Page No- 17	<p style="text-align: center;"><b>Digital weighing Balance-</b></p> <p>Electronic Balance, Capacity 30 kg x 5g Power Source: Battery Electric Display Type :Digital, LCD Display</p>	<p style="text-align: center;"><b>Digital weighing Balance-</b></p> <p>Electronic Balance, Capacity Min: 20kg ± 2g</p>
4	Item no.-37 of Specification, Page No- 22	<p style="text-align: center;"><b>Triaxial Test-</b></p> <p>Speeds between 0.0005 mm/min and 6.00 mm/min. Maximum Platen dia :- 130mm Tri-axial Cell , Stationary Bushing,38mm dia:- Ref Standard: IS : 2720 (Part XII) For testing specimen of size 38mm dia x 76mm long.</p> <ul style="list-style-type: none"> <li>• Triaxial Cell consists of Perspex chamber with anvil and loading plunger <ul style="list-style-type: none"> <li>• The cell is easily split by releasing four type rods.</li> <li>• It is leak proof upto 10 bar (10 kg/cm<sup>2</sup>) fluid pressure.</li> <li>• An oil plug and an air vent are provided for introducing a thin layer of oil over water. This provides effective sealing at the plunger for long duration tests.</li> <li>• The cell is fitted with four sleeve packed valves of no volume change type of base. Cell Consisting of followings: - <ul style="list-style-type: none"> <li>• Top loading pad, Perspex, 38 mm dia. 1 No.</li> <li>Plain Perspex disc 38mm dia x 6 mm thick 1 pair.</li> <li>Porous Stone 38mm dia x 6 mm thick. 1 pair.</li> <li>Sheath stretcher for 38 mm dia specimen 1 No.</li> <li>Two way split former for 38 mm dia specimen 1 No.</li> <li>Rubber sheath for 38 mm dia specimen 12 Nos.</li> <li>Drainage tube (short), 38 mm 4 Nos.</li> <li>Drainage tube (long), 38 mm 4 Nos.</li> <li>“O’ rings for 38mm dia specimen 4 Nos.</li> <li>Split Mould, 38mm dia 1 No.</li> <li>Top loading pad 38mm (plain) 1 No.</li> <li>Max Pressure - 12kg/cm<sup>2</sup> .</li> <li>oil pump - 1 variable pressure - 16 bar pressure Suitable for operation on 220 V, 50 Hz, Single Phase,AC supply.</li> <li>•Pressure Transducer, 20 bar (20 kg/cm<sup>2</sup>) capacity, an LVDT (Displacement Sensor) having a range of 0-20mm mm and a 3 - Channel Digital Indicator Digital Indicator :- Mode of Display : Micro controller multi line alpha numeric VFD display for all simultaneous channel</li> <li>Power supply Voltage : 220V, 50Hz, Single Phase Load cell:- Capacity : 10 kN Load Cell excitation : 5 V, DC</li> </ul> </li> </ul> </li> </ul>	<p style="text-align: center;"><b>Triaxial Shear Test Apparatus-</b></p> <p>Speeds between 0.0005 mm/min and 6.00 mm/min. Maximum Platen dia :- 130mm Tri-axial Cell , Stationary Bushing,38mm dia:- Ref Standard: IS : 2720 (Part XII) For testing specimen of size 38mm dia x 76mm long.</p> <ul style="list-style-type: none"> <li>• Triaxial Cell consists of Perspex chamber with anvil and loading plunger <ul style="list-style-type: none"> <li>• The cell is easily split by releasing four type rods.</li> <li>• It is leak proof upto 10 bar (10 kg/cm<sup>2</sup>) fluid pressure.</li> <li>• An oil plug and an air vent are provided for introducing a thin layer of oil over water. This provides effective sealing at the plunger for long duration tests.</li> <li>• The cell is fitted with four sleeve packed valves of no volume change type of base. Cell Consisting of followings: - <ul style="list-style-type: none"> <li>• Top loading pad, Perspex, 38 mm dia. 1 No.</li> <li>Plain Perspex disc 38mm dia x 6 mm thick 1 pair.</li> <li>Porous Stone 38mm dia x 6 mm thick. 1 pair.</li> <li>Sheath stretcher for 38 mm dia specimen 1 No.</li> <li>Two way split former for 38 mm dia specimen 1 No.</li> <li>Rubber sheath for 38 mm dia specimen 12 Nos.</li> <li>Drainage tube (short), 38 mm 4 Nos.</li> <li>Drainage tube (long), 38 mm 4 Nos.</li> <li>“O’ rings for 38mm dia specimen 4 Nos.</li> <li>Split Mould, 38mm dia 1 No.</li> <li>Top loading pad 38mm (plain) 1 No.</li> <li>Max Pressure - 12kg/cm<sup>2</sup> .</li> <li>oil pump - 1 variable pressure - 16 bar pressure Suitable for operation on 220 V, 50 Hz, Single Phase,AC supply.</li> <li>•Pressure Transducer, 20 bar (20 kg/cm<sup>2</sup>) capacity, an LVDT (Displacement Sensor) having a range of 0-20mm mm and a 3 - Channel Digital Indicator Digital Indicator :- Mode of Display : Micro controller multi line alpha numeric VFD display for all simultaneous channel</li> <li>Power supply Voltage : 220V, 50Hz, Single Phase Load cell:- Capacity : 10 kN Load Cell excitation : 5 V, DC</li> </ul> </li> </ul> </li> </ul>
5	Item no.-49 of Specification, Page No- 25	<p style="text-align: center;"><b>Impact Testing Machine-</b></p> <p>Impact testing machine: The machine consists of a metal base. A detachable cylindrical sheet cup of internal diameter 10.2 cm and depth 5 cm. A metal hammer of</p>	<p style="text-align: center;"><b>Aggregate Impact Test-</b></p> <p>Impact testing machine: The machine consists of a metal base. A detachable cylindrical sheet cup of internal diameter 10.2 cm and depth 5 cm. A metal hammer of weight between</p>

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		<p>weight between 13.5 to 14 kg, 10 cm in diameter and 5 cm long. An arrangement for raising the hammer and allow it to fall freely between vertical guides from a height of 38 cm on test sample in the cup. A tamping rod of circular cross section, 1 cm in diameter and 23 cm long rounded at one end. A cylindrical metal measure having internal diameter of 7.5 cm and depth of 5 cm for measuring aggregates.</p> <p>S sieve of sizes 12.5 mm, 10 mm and 2.36 mm.</p> <p>A balance of capacity not less than 500 grams, readable and accurate up to 0.1 gram.</p>	<p>13.5 to 14 kg, 10 cm in diameter and 5 cm long. An arrangement for raising the hammer and allow it to fall freely between vertical guides from a height of 38 cm on test sample in the cup. A tamping rod of circular cross section, 1 cm in diameter and 23 cm long rounded at one end. A cylindrical metal measure having internal diameter of 7.5 cm and depth of 5 cm for measuring aggregates.</p> <p>IS sieve of sizes 12.5 mm, 10 mm and 2.36 mm.</p> <p>A balance of capacity not less than 500 grams, readable and accurate up to 0.1 gram.</p>
6	Item no.-51 of Specification, Page No- 25	<p style="text-align: center;"><b>UTM-</b></p> <p style="text-align: center;">UTM (60 Ton)</p> <p>Measuring Capacity (KN) 100. 1st Range (KN) 0-100, Least Count (KN) 0.2 2nd Range (KN) 0-50, Least Count (KN) 0.1. 3rd Range (KN) 0-25, Least Count (KN) 0.05, 4th Range (KN) 0-10, Least count (KN) 0.02</p> <p>Measuring Capacity (KN) 100</p> <p>Max Tensile Clearance at fully descended piston position (mm) 50-700 Max Clearance for Compression Test (mm) (0-700)</p> <p>Distance between columns(mm) 450, Piston Stroke(mm) 150</p> <p>Max. straining speed at no load(mm/min) 300 power supply Total H.P. 1.5 Overall dimensions approx. (mm) 1950*800*1850 (Appx) with Standard accessories.</p>	<p><b>Universal Testing Machine, Computerized, Capacity 1000kN</b></p> <p style="text-align: center;">-</p> <p>Universal Testing Machine Computerized, 1000 kN, 6 pillar type with Hydraulic Jaws;</p> <p>Technical Specifications:-</p> <p>Machine capacity: 1000 KN</p> <p>Machine type: 6 Pillar with Hydraulic Jaws set Hydraulic Jaw set Hydraulic Jaw set Load Resolution: 0.01 KN</p> <p>Elongation Scale Resolution: 0.01 mm Extensometer Resolution: 0.001 mm</p> <p>Max Clearance for tensile test: 50-800 mm Max Clearance for compression test: 0-800 mm Clearance between columns: 540 – 650 mm Ram Stroke: 200 – 250 mm</p> <p>Straining/piston speed at no load: 0-100 mm/min</p> <p>Extensometer: Electronic extensometer strain gauge type with 25 mm extension and gauge length 25 &amp; 50 mm For Tension test,</p> <p>Clamping jaws for round specimens: 8-16 mm, 20-40 mm, 40-60 mm Clamping jaws for flat specimen thickness: 0-40 mm</p> <p>Flat specimen width: 70-110 mm For Compression test:</p> <p>Pair of compression plates Dia of circular platen: 200 – 233 mm</p> <p>For Transverse test:</p> <p>Table with the adjustable rollers Width of rollers: 160 mm Diameter of rollers: 50 mm</p> <p>Max clearance between supports: 600 mm Radius of punch tops: 16mm, 22 mm Crosshead geared motor (kW): 0.74kW Power pack motor (kW): 2.2kW</p> <p>Weight (approx.): 3500kg</p> <p>Suitable for operation on 440 V, 50 Hz, three phase, AC supply</p>

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			<p style="text-align: center;">Salient Features</p> <ul style="list-style-type: none"> <li>• Simple control to facilitate ease of operation.</li> <li>• Strain measurement at variable speed to cover a wide range of materials adjustable by the manual control valve.</li> <li>• Motor driven threaded columns for UP/DOWN movement of lower crosshead for quick change over of specimen, grips and attachment.</li> <li>• Loading accuracy as high as <math>\pm 1\%</math> of the indicating value</li> <li>• 6 pillar structure with hydraulic jaw grips.</li> <li>• High reading accuracy and rugged design of digital display.</li> <li>• Robust load frame with extremely rigid construction.</li> <li>• Large effective clearance between columns enables testing of standard specimen as well as structures.</li> <li>• Wide range of standards and special accessories including load stabilizer (Optional).</li> <li>• Clamping of jaws and specimen gap can also operate through remote control</li> <li>• Fully open front hydraulic wedge grips make it easy to insert and remove specimens for increased productivity and operator safety. Application</li> </ul> <p style="text-align: center;">Universal Testing Machine is designed for testing metals under tension, compression, bending, transverse and shear load, both in the form of test pieces and as finished product (optional).</p> <p style="text-align: center;">Principle of Operation</p> <p>The load is applied by a hydrostatically lubricated ram. The cylinder in turns receives pressure from the power pack. The load is transmitted to the test specimen and is displayed by a separately housed load indicator.</p> <p style="text-align: center;">Loading Units</p> <p>It consists of a hydraulic cylinder &amp; piston mounted on a robust base. The loading frame consists of an upper crosshead, middle crosshead and lower table. The upper cross-head and lower table are fitted on two/four hard chrome plated columns. The middle cross-head is fitted on two threaded columns. A reduction gear motor drives the chain and sprockets fixed at the bottom of the threaded columns for height adjustments. The cylinder and ram are individually lapped to eliminate friction. Axial loading of the system is ensured by provision of a ball seating under the lower table. An elongation scale with a least count of 0.1mm is provided for measurement of deformation of various samples.</p> <p>Tensile test is conducted by gripping the test specimen between the upper and middle cross-heads. Compression, Transverse, Bending and Shear test are conducted between the middle crosshead and the lower table.</p> <p>Hydraulic System The power pack has a directly driven pump which generates a maximum pressure of 300 kgf/cm<sup>2</sup>. The hydraulic pump produces a continuous non-pulsating oil flow. Hence the load application is very smooth. A pressure compensated flow control valve is provided which controls oil flow to the main cylinder. This maintains a constant rate of piston movement and hence straining rate is kept constant. This valve is hand operated and gives infinitely variable oil</p>

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			<p style="text-align: center;">flow to obtain different rates of straining.</p> <p style="text-align: center;">Electronic Control Panel</p> <p>This includes high precision, sealed in built electronic control panel and very accurate load cell mounted in the loading unit. A stable data acquisition system converts the analog output of pressure transducer into equivalent digital figures. The Load Cell, Encoder are used to measure Mechanical Load, Liner Displacement respectively. The Digital Indicator Comprises of a regulated power supply, excitation source, calibration port, signal conditioner cards, display &amp; keypad. The Digital panel is calibrated to display the load directly in kN, displacement in mm.</p> <p style="text-align: center;">Computerized Universal Testing Machine</p> <p>It has a microprocessor based electronic panel, Precision load cell for load measurement, Rotary encoder for crosshead displacement/ Extension indication, LAN card for PC interface, Data entry for specimen dimension, serial number, gauge length. Unit selection for load, displacement. Results include Load vs Displacement Curve, Maximum displacement, UTS, % Elongation, Young's Modulus &amp; Proof Stress (if Extensometer is used).</p> <p style="text-align: center;">Accuracy and Calibration</p> <p>Universal Testing Machines are controlled for precision and accuracy during every stage of manufacturing. The machines are calibrated in accordance with BS: 1610 and IS standards. UTM comply with grade A of BS 1610: 1964 and grade 1 of IS: 1828 - 1991. An accuracy of <math>\pm 1\%</math> is guaranteed from 20% of the load range selected to full load. Below 20% of the selected range the maximum permissible error is 0.2% of the full load reading.</p> <p>The Load Cell, Encoder are used to measure Mechanical Load, Liner Displacement respectively. The Digital Indicator Comprises of a regulated power supply, excitation source, calibration port, signal conditioner cards, display &amp; keypad. The Digital panel is calibrated to display the load directly in kN, displacement in mm. Suitable for operation on 440 V, 50 Hz, three phase, A C supply.</p> <p style="text-align: center;">Software for UTM</p> <p>The UTM should be ergonomically designed to suit the various needs of the customers as per their requirements and operation of the software is extremely user friendly and the features are self-explanatory.</p> <p style="text-align: center;">Features • Tensile Testing • Compression Testing • Transverse Test for flat sample • Bend &amp; Re-bend Test • Shear Test • Extensometer Test • Flexure Test • Rope Test</p> <p>The bright, large and prominent display for the load and displacement adds to the readability of the software and hence effortless observation of the online tests. The enhanced display of the test screen displays the value of the load and displacement and the online graphs as it is</p>

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			<p>generated during the tests. The selection of the scale on graph enables you to view the graph more prominently on the screen. The extensometer test screen incorporates the results of the normal Load Vs Displacement. Test as well as the Load Vs Extension and Stress Vs Strain online graphical view simultaneously, a unique facility on its own. Customization of report is the main feature of new software.</p> <p style="text-align: center;">Software Capability</p> <ul style="list-style-type: none"> <li>• Database backup &amp; restore facilities are available</li> <li>• Customizable report – header / footer</li> <li>• The default report generated automatically in crystal reports &amp; can be printed directly. The reports can also be exported to excel</li> <li>• User can set starting point of graph line</li> <li>• User can set failure detection percentage</li> <li>• Automatic change over graph scale</li> <li>• Display of Load Vs Displacement &amp; Stress Vs Strain graph in real time</li> <li>• Printout of Load Vs Displacement, Stress Vs Strain graph &amp; test results</li> <li>• User can analyse the report from test data &amp; also define 0.2% &amp; 0.5% proof stress line</li> <li>• Overload feature which stops the machine when the maximum define load is reached</li> </ul> <p style="text-align: center;">Statistical Analysis:</p> <ul style="list-style-type: none"> <li>• This powerful tool should enable the user to compare and study the results in a statistical format.</li> <li>• Most useful in places where the Batch Reports are studied for the production.</li> <li>• This extraordinary feature has been designed keeping in mind the ever-changing needs of the industry to achieve higher standards.</li> <li>• This flexibility can be achieved with the Software with an assurance of lifetime quality service and updates as per the latest industry standards.</li> <li>• The test data can be analysed for following graphical presentations: I Mean Deviation II Frequency Distribution III Skew Diagram IV Histogram</li> </ul> <p>Security Manager: This helps the user to protect and save the test data of all the previous tests with help of Password Protection feature. Additional Features include the facility to incorporate the users Company Logo on the Test Report and can provide wide variety of customization of the software features as per the needs of the customer.</p> <p style="text-align: center;">Minimum Recommended Computer Hardware</p> <ul style="list-style-type: none"> <li>• 2 GHz Pentium Dual Core or equivalent</li> <li>• 4 GB RAM, although using multiple testing machines may require additional memory and/or a faster Processor</li> <li>• 256 MB DirectX 9.0 capable video card</li> <li>• 250GB HD Drive</li> <li>• CD-ROM Drive</li> <li>• Mouse or pointing device and keyboard supported by Windows</li> <li>• Monitor that supports at least 1024 x 768 resolution and 32-bit color</li> <li>• 2 USB Serial Port adapter per machine</li> <li>• Windows compatible sound card and speakers (for audio playback)</li> <li>• Windows compatible printer recommended for reporting capabilities</li> <li>• Additional USB ports for measuring devices, barcode scanners, printer etc.</li> <li>• At least 1 integrated serial port (not USB) where possible</li> <li>Optional Accessories (should be supplied if ordered):</li> <li>• Brinell test attachment for 1000 kN UTM</li> <li>• Flexural Test Attachment</li> <li>• Shear test</li> </ul>

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			<p>attachment for 6, 8, 12, 16 &amp; 20 mm dia samples• Shear test attachment for 25, 30, 35 &amp; 40 mm dia samples• Bend test attachment 180°</p> <ul style="list-style-type: none"> <li>• Mandrels for Bend and Re-bend test: Mandrel Diameters in mm: 16, 20, 24, 30, 32, 36, 40, 48, 50, 56, 60, 64, 70, 72, 75, 80, 84, 96, 100, 108, 112, 120, 125, 128, 140, 144, 150, 168, 175, 180, 192, 200, 216, 224, 240, 252, 256, 270, 280, 288, 320, 324, 360.</li> <li>• Gripping device for threaded &amp; shouldered specimens</li> <li>• Pair of threaded holding heads 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 27 mm (per set),</li> <li>• Pair of split ring for shouldered specimen 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 27 mm (per set)</li> <li>• Fixture for Nut Bolt Testing• Wire Rope test attachment (Customized depending upon size of rope)</li> <li>• Gripping device for testing of strand wires• Computer System• Printer</li> </ul> <p>UTM should be supplied complete in all as per the above specifications along with required attachments ordered. Computer and Printer of desired specification (as per standard departmental specification) should also be supplied if ordered.</p>
7	Item no.-52 of Specification, Page No- 26	<p style="text-align: center;"><b>Flexural Strength Testing Machine-</b></p> <p>Tile Flexural Strength Testing Machine Ref. Standard - IS:654, IS:1237</p> <p>For clay roofing tiles (Mangalore Pattern) and Cement Concrete Flooring Tiles. This is a double lever (leverage 1:12) loading machine and the load is applied by flow of lead shots which automatically stops when the sample breaks. The load is applied at the rate of 450 to 550 N/minute or 2000 N/minute as per relevant standards test requirement. The accuracy of load indication is within <math>\pm 2\%</math>. The sample is mounted between rollers 40mm diameter or 12 mm diameter as per relevant standards test requirement. Capacity: 200kg (2kN approx.).</p>	<p style="text-align: center;"><b>Flexural Strength Testing Machine-</b></p> <p>Flexure Testing Machine Electrically Operated, Material of Construction:</p> <p style="text-align: center;">Weight of the Load Frame: Min. 130kg</p> <p>Hydraulic System: With Min. 15 liters, hydraulic oil feed and fuel pump separately, 0.5 hp, 1 Ph, 220V AC motor driven two-speed hydraulic pump. Standard conform to:- Conforms to IS 516 and IS : 14858, Machines conforming to ASTM C39.</p>
8	Item no.-53 of Specification, Page No- 26	<p style="text-align: center;"><b>Digital pH- meter-</b></p> <p>20 x 2 line back lighted LCD display., pH Meter complies to USP and DIN standards, alphanumeric splash waterproof polyester keyboard with soft keys., Range 0° to 150° C.</p>	<p style="text-align: center;"><b>pH- meter-</b></p> <p>20 x 2 line back lighted LCD display., pH Meter complies to USP and DIN standards, alphanumeric splash waterproof polyester keyboard with soft keys., Range 0° to 150° C.</p>
9	Item no.-54 of Specification, Page No- 26	<p style="text-align: center;"><b>Test Tubes-</b></p> <p>Test tube:- 150 mm tall x 16 mm with 14 mm inside diameter, made of borosil.</p>	<p style="text-align: center;"><b>Test Tubes and Porcelain dish--</b></p> <p style="text-align: center;">made of borosil.</p>
10	Item no.-55 of Specification, Page No- 26	<p style="text-align: center;"><b>Digital Turbidity meter-</b></p> <p>0 - 10,000 NTU , <math>\pm 2\%</math> of reading plus 0.01 NTU (0 to 1000 NTU) <math>\pm 5\%</math> of reading (1000 to 4000 NTU) <math>\pm 10\%</math> of reading (4000 to 10,000 NTU) , Response Time: less than 6 seconds, Sample Size: 30ml, Operating Temperature: 0° - 50°C</p>	<p style="text-align: center;"><b>Turbidity meter-</b></p> <p>0 - 10,000 NTU , <math>\pm 2\%</math> of reading plus 0.01 NTU (0 to 1000 NTU) <math>\pm 5\%</math> of reading (1000 to 4000 NTU) <math>\pm 10\%</math> of reading (4000 to 10,000 NTU) , Response Time: less than 6 seconds, Sample Size: 30ml, Operating Temperature: 0° - 50°C</p>
11	Item no.-56 of Specification, Page No- 26	<p style="text-align: center;"><b>Magnetic stirrer glass ceramic hot plate, Burette, Burette stand, Conical Flask, Pipette, Rubber gloves, Apron-</b></p>	<p style="text-align: center;"><b>MAGNETIC STIRRER WITH HOT PLATE-</b></p> <p style="text-align: center;">Number of stirring Positions: 1 Calibration: Automatic Calibration</p>

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		<p>Number of stirring Positions: 1 Calibration: Automatic Calibration Type of Drive Motor: Motorless magnetic coil type Display Option/Output Read out Option: Digital Magnetic stirrer is: with a hot plate or some other means for heating the liquid Controller type: Electronically controlled and Programmable Speed Control Accuracy of set speed (+/-) (RPM): 0 Maximum Stirring capacity per position: 2000 millilitre Ceramic Top Plate Material, Digital Front Panel, Last run memory CE certified Product (seller to furnish supporting document to Buyer on demand) SPEED Speed Mode: Variable Speed Minimum Speed Possible (RPM): 50 Maximum Speed (RPM) of variable speed mode equipment: 1600 DIMENSIONS External Dimension: (Height )200 millimetre External Dimension: Width 200 millimetre External Dimension: Depth: 50 millimetre Body Material: Stainless Steel Finish of Body material: Powder coated Top plate Finish: Ceramic coated STIR BAR Stir bar cover material: PTFE QUOTED ALNICO MAGNET Stir Bar length: 200 millimetre TOP PLATE Top plate area shape: Circular Circular Top plate diameter: 1000 millimetre Top plate Finish: Ceramic coated</p>	<p>Type of Drive Motor: Motorless magnetic coil type Display Option/Output Read out Option: Digital Magnetic stirrer is: with a hot plate or some other means for heating the liquid Controller type: Electronically controlled and Programmable Speed Control Accuracy of set speed (+/-) (RPM): 0 Maximum Stirring capacity per position: 2000 millilitre Ceramic Top Plate Material, Digital Front Panel, Last run memory CE certified Product (seller to furnish supporting document to Buyer on demand) SPEED Speed Mode: Variable Speed Minimum Speed Possible (RPM): 50 Maximum Speed (RPM) of variable speed mode equipment: 1600 DIMENSIONS External Dimension: (Height )200 millimetre External Dimension: Width 200 millimetre External Dimension: Depth: 50 millimetre Body Material: Stainless Steel Finish of Body material: Powder coated Top plate Finish: Ceramic coated STIR BAR Stir bar cover material: PTFE QUOTED ALNICO MAGNET Stir Bar length: 200 millimetre TOP PLATE Top plate area shape: Circular Circular Top plate diameter: 1000 millimetre Top plate Finish: Ceramic coated</p>
12	Item no.-59 of Specification, Page No- 28	<p><b>BOD bottles-</b> 300 ML bottle, made of borosilicate</p>	<p><b>BOD bottles-</b> 300 ML bottle, made of borosil</p>