



Ph. EPAN-23063800, 23063802, 23063803, 23063804, 23063805 & 23063806

No. 65(02)/TCD/B03/2024-25 (E- 4027766)

Date: 30/06/2025

To,

The Joint Director,
MSME- Testing Center, Chennai
MSME- Testing Center, Kolkata
MSME- Testing Center, Delhi
MSME- Testing Center, Mumbai
MSME- Testing Station, Jaipur

Subject: Sanction and allocation of fund Rs. 2,00,000,00/- to MSME-Testing Centre, Chennai/Kolkata/Delhi/Mumbai and MSME-Testing Station, Jaipur under the object head Machinery and Equipment (4851.00.102.33.00.52) for the year 2025-26.

Sir,

I am directed to convey the administrative approval and financial sanction & allocation of AS & DC (MSME) for fund Rs. 2,00,000,00/-(Two crore only) to MSME-Testing Centre, Chennai/Kolkata/Delhi/Mumbai and MSME-Testing Station, Jaipur under the object head Machinery and Equipment (4851.00.102.33.00.52) for the year 2025-26 for procuring Machinery and Equipment as per the details given below:

| S. No. | Name of Institutes | fund allocation | List of machinery |
|--------|--------------------|-----------------|-------------------|
| (i) | MSME-TC, Chennai | 42,12,485/- | Annexure-I |
| (ii) | MSME-TC, Kolkata | 1,19,89,782/- | Annexure-II |
| (iii) | MSME-TC, Delhi | 7,39,491/- | Annexure-III |
| (iv) | MSME-TC, Mumbai | 28,80,062/- | Annexure-IV |
| (v) | MSME-TS, Jaipur | 1,78,180/- | Annexure-V |
| Total | | 2,00,00,000/- | |

- The expenditure of Rs. 2,00,00,000/- to be incurred by the above MSME-TCs & TS shall be accommodated in Demand No. 68 – Ministry of Micro, Small & Medium Enterprises (MSME) under the object head Machinery and Equipment (4851.00.102.33.00.52) for the year 2025-26.
- The procurement shall be made strictly through GeM/ CPP portal as per GFR norms /Government prescribed procedures / Rules and Guidelines/ PPP-MII-, 2020, 2021 order /as per the specifications mentioned in the attached Annexure/ meeting at least the requirement of National / International standards. There should not be any deviation on the BIS/ International specification.

All PPs are requested to update
in PPS.

विकास आयुक्त का कार्यालय
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
भारत सरकार / Govt. of India
Ministry of Micro, Small & Medium Enterprises
निर्माण भवन (एन 70 एन 70) का कार्यालय
Office of the Dev. Commr. (MSME)
निर्माण भवन, नई दिल्ली-110011 / Nirman Bhawan, New Delhi-110011

अजय बाजपेई / AJAY BAJPEI
संयुक्त निदेशक (आई ई डी एस) / Joint Director (EDS)
भारत सरकार / Govt. of India
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
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विकास आयुक्त (सू. ल. एवं म. उद्यम) का कार्यालय
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निर्माण भवन, नई दिल्ली-110011 / Nirman Bhawan, New Delhi-110011

4. In order to promote Indian products Make in India, preference to be given to Indian manufacturers meeting same specifications.
5. Machinery and Equipments should not be proprietary item.
6. If applicable, procured item should have provision for software interfacing to generate printable digital output.
7. Procurement should be on life-cycle basis i.e. Warranty + Extended Warranty.
8. The purchase committee should have an officer as member from nearest MSME DFO/TC/TS not below the rank of Asstt. Director Gr.- I.
9. HoO of respective TCs & TSs should furnish the progress report of the work/ Procurement and statement for actual expenditure incurred to this office by 2nd of the following month inter alia with the reason or variation if any and ensure utilization of fund within the current FY 2025-26.
10. A separate register shall be maintained for each machinery on its utilization/ job booking details.
11. HoO of respective TCs & TSs shall furnish installation report and commissioning certificate of the procured Machinery & Equipments along with expenditure incurred and fund utilization certificate.
12. This issues with the approval of AS & DC (MSME) vide e-office no. 4027603, dated 26.06.2026.

Annexure
Name

Sl.
No.



(Ajay Bajpai)
Joint Director

अजय बाजपेई / AJAY BAJPAI
संयुक्त निदेशक (आईईडीएस) / Joint Director (IEDS)
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निर्माण भवन, नई दिल्ली-110011 / Nirman Bhawan, New Delhi-110011

Copy to:

1. Pay & Accounts Office (MSME), Chennai/Kolkata/Delhi/Mumbai.
2. B & A Division, O/o DC (MSME), Nirman Bhawan, New Delhi
3. SENET Division with the request to upload on DC (MSME) website.
4. Sanction File.



बिबेक बिहारी साहू / B. B. SAHOO
असिस्टेंट निदेशक / Asstt. Director
भारत सरकार / Govt. of India
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(Ajay Bajpai)
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Annexure-I

Annexure to No. 65(02)/TCD/B03/2024-25 (E-4027603)

Date: 30/06/2025

Name of Institute: MSME Testing Centre, Chennai

| Sl. No | Name of Machinery & Equipments and Qty. | Used for | IS Specification & No. / Relevant specification |
|--------|---|---|--|
| (a) | Chemical Lab | | |
| (i) | Inductively Coupled Plasma-Mass Spectrometer (ICP-MS), PC controlled Dual View - 1 no. | To determine metals quantitatively from higher concentration to trace level (ppt) in Natural mineral water (IS13428). Packaged Drinking water (IS14543) and drinking water (IS 10500) | IS:3025 (Part 65) Instrument shall be equipped with concentric Nebulizer, high precision or more multi channel. minimum 3 peristaltic pump or suitable pump set up. Capable of analyzing samples with varying TDS. Must have Pellier cooled Spray chamber. Sample introduction system, Torch, Injector and cones should be easily accessible for maintenance RF Generator 27/34 MHz or suitable, Power range-500 to 1600 W or better Torch with alignment and computer controlled 2)Oil Mist Filter 3)4 Rack Auto sampler ideal for high throughput includes extraction suct hosing connected to the port 4)Exhaust hood and suitable vibration free table 5)Peristaltic pumps suitable calibration standards 6)Gas pipeline 15 KVA UPS Suitable PC (i9processor,1TBHDD,21inch Monitor with laser printer |
| (ii) | Triple Quadrupole Gas Chromatograph -Mass Spectrometer (GCMSMS) with EI Source - 1 set. | To determine pesticides and organic compounds as per IS: 14543. 13428 and 10500 | USEPA method and APHA methods Ultra fast Mass Spectrometry, GC with Split/Splitless Injection port with advanced flow Technology, Fast GCMS capability with colour touch screen. Carrier gas head pressure setting up to 1035 kPa. Injection port heating up to 450 °C High power column oven, mass range 10m/z to 1090 m/z Resolution of R> 1.5M/Unit Mass Resolution Maximum Scan Rate of 20000 amu's, electron impact ionization (EI) EI scan Sensitivity S/N ratio> 2000 for 1 pg. OFN m/z x 272 Vacuum system with 360 lit/se. TMP with Jual inlet (170lit/sec for Ion source and 190 lit/sec for detector) in differential pumping modes Auxillary pumping with 30 lit/min Rotary pump. Direct Interface between GC and MS with independent heating upto 350°C. Direct compatibility of capillary columns with ID 50 am to 530 µm. Independent Ton source heating up to 300°C Variable ionization voltage from 10 to 200 eV, Variable ionization current from 5 to 250uA Q1 and Q3 analysers: Rock solid Inert Metal Quadripole analyser with ratable pre rod. UF sweeper collision cell with energy energy upto 60 eV with Argon as CID gas. GCMS Insight software Package Rotary Pump Assy includes a Rotary pump and connecting kits 2)Auto Injector and sampler with Auto sampler and mounting parts 3)Screw thread clear vial PTFE/while silicone septa 100pcs 4)Mass Spectral library for GCMS 5)Exhaust Duct Assembly and pets for Ulvac RP pump 6)Head Space Sampler with loop and valve based static with direct interface with GC. electronic carrier gas controlvial pressurization with leak check 7)Advance flow controller with hand crimper for 20mm top 11S vials, Gas purification panel with SS Tubing, PVC casing etc. 8)PC with 19 configuration with Printer 9)10 KVA UPS with 1 hr back up 10)Working Table |


30/06/25

| | | | |
|-------|--|--|--|
| (iii) | <p>Triple Quadrupole Liquid Chromatograph-Mass Spectrometer (LCMSMS) with Heated ESI ionization source - 1 set</p> | <p>To determine Organo Phosphorus pesticide and Isopruturon as per IS 14543, 13428 and 10500</p> | <p>USEPA and APHA Methods 1) Instrument with mass rang w m/z 2- 2000. Mass stability 0.05u/24hr, max scan speed-30,000u/sec. Interface replacement is possible without breaking vacuum. ESI Probe, max flow rate 0.001-2 ml/min. Ultra-Fast polarity switching from positive to negative 5m/sec. MRM Transition speed max 555 channels/sec. Sensitivity- ESI (positive- S/N> 550,000:1 based on 1 pg/ul Reserpine on column, Ful injection volume based on MRM mode. ESI (negative)- S/N > 550,000:1 on 1 pg/ul Chloramphenical on column. Ful injection volume based on MRM mode. Scan modes Q1.Q3 and MRM precursor ion scan, product ion scan and neutral loss scan. Collision cell, ultra fast MRM transistions with high sensitivity. 2) Vacuum system: Rotary pump with 28m3/hr, Triple Inlet Turbo molecular pump and auto start up and auto shut down. Mass analyser Q1 & q3 are molybdenum hyperbolic mass filters with Pre rods. Q1 includes post rods, lon optics, A-array focus optics operating in field flow mode. multipole Transfer optics. Detector: secondary electron multiplier with off axis conversion dynode. Detectable ions: Positive and negative. selective Tuning: auto tuning manual tuning with standard samples. Built in fusion pump for auto tuning and calibration 3) LCMSTQ License, peak intel bundle, standard sample for start up procedures, LCMS Data Kit. IQ/QQ Papaverine standard sample. Programmable flow divertable valve. Rotary Pump. Pump oil 4) Nitrogen Generator with built in air compressor 5) Liquid pump with max pressure 130 Mpa. high pressure binary gradient solvent delivery system, built in online membrane vacuum degasser. Mixer with mixer recognition device 6) Auto sampler with sample cooler, injection volume 0.1 50µl accuracy 1%, linearity >0.9999% Sample for processing: 162. Injection volume reproducibility: RSD 1.0% 7) Vial plate 1.5ml. vial 1.5ml glass, sample loop for loop injection 20µl 8) High performance column oven, forced oven, forced air circulation, temperature control range -room temperature 10 Celsius 85 C accuracy.0.8 C Temperature precision 0.2C Active per heater 9) LCMS Clipping kit, MPM, bottle holder with all installation accessories 10) E-1QQQ License 11) Branded PC with 19 configuration and printer 12) 10 KVA UPS with 1 hr back up</p> |
| (b) | <p>Mechanical Lab</p> | | |
| (i) | <p>Pull out Test attachment for BS UT-2000 JD -1 No .</p> | <p>Carry out the Pull out test for TMT Bars and assemblies attached to UTM 2000 KN</p> | <p>IS 2770 (Part 1):1967 Attachment For pull out Test and related accessories.</p> |
| (ii) | <p>Bend Rebend-Testing machine -1 No</p> | <p>Carry out the Bend and Rebend Test for TMT Bars</p> | <p>IS 1599: 2023 Remote operated Bend Re bend -Testing Machine Operation of the machine will be via Remote Control. The following Mandrels are included. 16 20 24 30 32 36 40 48 50 56 60 64 70 72 75 80 84 96 100 108 112 120 125 128 140 144 150 160 175 180 192 200 216 224 240 252 256 280 288 320 Includes 180-degree bending fixture</p> |
| (iii) | <p>MOR Testing Machine -500 kgf up to 120 x 120 CM Tiles with Automatic pace rate control - 1 no.</p> | <p>Carry out the Modulus of Rupture Test for ceramic Tiles</p> | <p>IS 13630 (Part 6). 2019 IS 15622:2017 Touch Screen Control panel and automatic pace rate control. Control to rate of loading at 1 Newton per mm square per second. Capacity:500 kgf, Least Count 0.1 kgf, Accuracy: 0.2% of full scale. Working on 230 Volts AC, Single phase 60Hz, PC Connectivity with software. PC Software for MOR Testing machine. Calibration Charges (NABL)</p> |

| Electrical Lab | | | |
|----------------|--|--|---|
| (i) | Swedish Chimney – 1 no. | Flame Retardation Test for Single Cable (Part 61) | IS 1554 Part1, 1554 Part2 & IS 10810 (Part 61) Swedish Chimney with Digital Dial Indicator, Digital Thermocouple and Ethanol Fuel Tray |
| (ii) | Flammability Test Chamber – 1 no. | Flame Retardation Test for Bunched cable | IS 1554 Part1, 1554 Part2 & TS 10810 (Part 62) Flammability Test Chamber 4x2x1 meter in stainless Steel 304 with Ladder 500mm *800mm Burners 70,000btu/hr - 2Nos *Flow Console for Air 10-100l/min and Propane 1-13 L/min (Set x 2 Nos) to operate two burners *Conventional Flow meters Glow Stick Ignition Air System with Differential Pressure Probe Automatic Ladder Loading. Unloading System |
| (iii) | Dielectric Break down Tester – 1 no. | To Measure Breakdown Voltage and Strength for Insulation Mats | IS 15652:2006 *Maximum Capacity :200kV *Out Put Current: 100mA *Trip Current: 10,20,50 & 100mA *Voltage Measurement Accuracy: +1.5% of reading, +0.25 of full Scale *Input :230V @ 50Hz |
| (iv) | Melt Flow Index Apparatus material – 1 no. | To determine Melt Flow Rate of Thermoplastic | IS 14255 :1995 Melt Flow Index Test with automatic sample Cutting, In-Build weighing balance and Automatic MFI Calculation |
| (v) | Vicat Softening Point Apparatus – 1 no. | To determine Vicat Softening Point of Thermoplastic material | IS 14255:1995 VST Apparatus with LVDR (With Silicon Oil) *Twin Station machine to have two sample to be tested at the time. *Jacked bath to have cooling water circulation. *Heating rate of 50°C/hr & 120°C/hr combined in a single PID controller. *Max. working temp 250°C *Machine is supplied with required weights to perform both the tests. *LVDT 02 Nos *Software program: Graphic display and print through your PC/LAPTOP, Penetration/Deflection Vs Temperature graph and Values of vicat softening temperature and heat deflection temperature could be obtained to PC |
| (vi) | Carbon black content setup – 1 no. | To determine carbon black content of thermoplastic material | IS 14255 :1995 *Tube Furnace 300mm long *Temp Ambient to 1000°C temp controlled by PID Controller *Accuracy ±1.2 °C *Quartz tube of 30mm ID and 400mm Long 75mm Quartz boat *Rotameter is of the range 0.5 to 2.5 lpm flow of nitrogen *Timer 30Min |
| (vii) | Air Bomb and Oxygen Bomb Apparatus – 1 no. | Air Bomb and Oxygen bomb Apparatus test for Elastomer insulated cable | IS 9968 Part: 1988 *The Chamber Cylindrical in Shape and its inner Dia 250mm and Height 500mm *Sample Hang :24Nos *Air pressure inside Chamber 0-2.5Mpa± 0.02Mpa *Digital PID Controller *Digital Pressure Indicator |
| (viii) | Environmental Stress Crack Apparatus – 1 no. | To determine susceptibility of thermoplastic material to Environmental Stress Cracking | IS 14255:1995 *Water Bath Inside SS and Out side M.S with heat Insulation Inner size 12x14x12 inches *RTD Sensor *PID temp. controller *Max temp :200°C *Resolution :0.1°C *Accuracy:0.5°C |
| (ix) | Glow wire test Apparatus with timer – 1 no. | To determine resistance to flame propagation of thermoplastic material | IS 14927 Part 2:2001 *Glow Wire: A loop of 4mm Dia *Wire Temp.: Ambient to 1000°C *Temperature Controller: Four Digit, PID *PLC: Logic Controller *Volume:0.5+Cubic meter |
| (x) | Water Bath – 1 no. | To Test Insulation Resistance | IS 9537 Part 3 & 1 Hot water bath ambient to 60 degrees with Stainless Steel Tank, sample holding capacity 3 samples |

(Signature)
30/06/24


Analytical Bar
1 no.

| | | | |
|-----------------------------------|--|--|---|
| (xi) | AC HV Test Equipment –1 no. | To Test High Voltage | IS:694 IS:1554 & IS:7098 AC HV Test equipment with 10nos HV outputs, leakage current 25m, |
| (xii) | Digital Micro ohm meter –1 no. | To Test Resistance and Resistivity | IS:694,IS:1554 & IS:7098 Range :0.1 micro 2000 ohm to 50 k ohm Resolution:0.1 Micro Ohm Test current:10A Max Accuracy: +-0.25% |
| (xiii) | Online UPS –1 no. | To test high Voltage and insulation Resistance | IS:694, IS:1554 & IS:7098 Online UPS 10KVA input voltage:230V Output Voltage:230V Range: 0-10 KVA Battery: Included |
| (d) Leather & Footwear | | | |
| (i) | Whole shoe flexing tester –1 no. | It is a balancing facility to test all the parameter of physical and chemical tests, as per the requirement of BIS and Tamilnadu Textbook Corporation, Govt. of Taminadu who has placed order for testing footwear/school bag/tool kit | IS 15298-part 1 Flexing frequency 140±10 cycles/minute, Maximum angle of flexing of shoe 45, Number of shoes, tested at a time Two Timer Digital timer of range 99.9 s having a resolution of 0.1%, Counter capacity upto 999999 |
| (ii) | Penetration resistant Insert flexing tester –1 no. | It is a balancing facility to test all the parameter of physical and chemical tests, as per the requirement of BIS and Tamilnadu Textbook Corporation, Govt. of Taminadu who has placed order for testing footwear/school bag/tool kit | ISO 20344-2020 Bending stroke 33mm, Distance between guide rod and fixture 70 mm, Test speed 960CPM, Test time 10 times |
| (iii) | Bursting strength tester –1 no. | It is a balancing facility to test all the parameter of physical and chemical tests, as per the requirement of BIS and Tamilnadu Textbook Corporation, Govt. of Taminadu who has placed order for testing footwear/school bag/tool kit | ISO 1060-I, IS 15844 Bursting capacity 0-70 kg/cm ² , Opening in upper clamp 31.5 mm dia, Opening in lower clamp 30.5 mm dia, Rate of fluid displacement 95cc/min, Least count of sensor 0.01kg, Glycerine capacity 100 ml. |
| (iv) | FTIR library–1 no. | It is a balancing facility to test all the parameter of physical and chemical tests, as per the requirement of BIS and Tamilnadu Textbook Corporation, Govt. of Taminadu who has placed order for testing footwear/school bag/tool kit | ISO 20344-2020 Polymeric standard library-Attachment to the existing machinery (FTIR) |
| (v) | Brightness tester–1 no. | It is a balancing facility to test all the parameter of physical and chemical tests, as per the requirement of BIS and Tamilnadu Textbook Corporation, Govt. of Taminadu who has placed order for testing footwear/school bag/tool kit | ISO 1060-I Automation Grade: Automatic, Display Type: 4 line Character LCD Green, Light Source: Quartz Tungsten Hologen Lamps, Measurement Value: 5,00,000, Dimension: 30 mm dia |
| (e) Microbiology Lab | | | |
| (i) | Environmental Chamber –1 no. | Mould growth test in Electronic/Electrical/Automotive Defence military /Aerospace / optical products / sensor plastic/ paints & To meet NABL Guideline requirement. | JSS 55555-2020, MIL-STD 810 F, , MIL-STD 810 G, , MIL-STD 810 H, JSS 5855, JSS 0256, IS: 9000- X *Chamber capacity 500lit *Temperature range:25 to 180 °C *Humidity: Ambient to 93% *Control-PLC and HMI *No of trays-3 no's *Capacitance based humidity sensor *Suitable stabilizer *Data logger suitable for above *PC computer suitable for above |



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| | | | |
|-------|------------------------------------|---|---|
| | Analytical Balance – 1 no. | | <p>JSS 55555-2020, MIL-STD 810 F, , MIL-STD 810 G, , MIL-STD 810 H, JSS 5855, JSS 0256, IS: 9000- X</p> <p>*Capacity:200gm</p> <p>*Resolution 0.1mg</p> <p>*Accuracy:0.05%</p> <p>*Measurement time in second:5-10 sec.</p> <p>*Electronic display: LCD/LED with touch pad.</p> <p>*Capacity: 100-149 lit</p> <p>Overall length/wid height (in mm):600millimeter</p> <p>*Temperature range: Sto 6000</p> <p>*Temperature Accuracy 1°C</p> <p>*Temperature uniformity:</p> <p>*Body material stainless</p> |
| (iii) | BOD Incubator –1 no. | Mould growth test in Electronic/Electrical/Automotive Defence military /Aerospace / optical products / sensor plastic/ paints & To meet NABL Guideline requirement. | <p>JSS 55555-2020, MIL-STD 810 F, , MIL-STD 810 G, , MIL-STD 810 H, JSS 5855, JSS 0256, IS: 9000- X</p> <p>*Capacity: 100-149 lit</p> <p>Overall length/wid height (in mm):600millimeter</p> <p>*Temperature range: Sto 6000</p> <p>*Temperature Accuracy 1°C</p> <p>*Temperature uniformity:</p> <p>*Body material stainless Steel</p> <p>* Features: PID Temp controller, Analog ampere meter, pilot lamp, Safety thermostat, refrigeration system, safety alarm.</p> |
| (iv) | Bio safety cabinet class II –1 no. | | <p>JSS 55555-2020, MIL-STD 810 F, , MIL-STD 810 G, , MIL-STD 810 H, JSS 5855, JSS 0256, IS: 9000- X</p> <p>*Class of biosafety cabinet LASS II (A2 TYPE)</p> <p>*Direction of air flow: Vertical</p> <p>*Type of air flow pattern: 70% air recirculated through filter 30% exhausted.</p> <p>*Pressure monitoring: 13 to 14 min Hg</p> <p>*working area: stainless steel 304 grade.</p> <p>*Material used for cabinet area stainless steel 304 grade.</p> <p>*Type of sterilization: UV germicidal tube.</p> <p>*Filtration efficiency of HEPA filter: 99.99% for 0.3 micron particles.</p> <p>*Depth of the working the area in feet: 2ft and more.</p> <p>*Height of the working the area in feet: 2ft and</p> <p>Type of display LCD Front door clear,</p> |


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Annexure to No. 65(02)/TCD/B03/2024-25 (E-4027603)

Date: 30/06/2025

Name of Institute: MSME Testing Centre, Kolkata

| Sl. No | Name of Machinery & Equipments and Qty. | Used for | IS Specification & No. / Relevant specification |
|--|--|---|---|
| (a) Items carried forward from the year 2024-25 | | | |
| (i) | Three-Phase Transformer Winding Resistance Meter /Winding Ohmmeter & Tap Changer and Winding Analyzers Qty: One No | This equipment is used for Measurement of winding Resistance of Distribution Transformer and other Electrical products. | IS 1180(Part-1): 2014 and IS: 2026 |
| (ii) | Load & No Load Test Bench with Temperature –Rise/ Heat Run test with accessories for Distribution transformer upto and including 2.5 MVA of voltage class 11kV/433V, 22kV/11KV, 22kV/433V & 33kV/11KV, 33kV/433V Qty: One No | This equipment is used for Measurement of following Parameter of Distribution Transformer: a) Measurement of short-circuit impedance (principal tapping, when applicable) and load loss at 50 percent and 100 percent load b) Measurement of no-load loss and current c) Temperature-rise test d) No Load current at 112.5% Voltage | IS 1180(Part-1): 2014 and IS: 2026 |
| (iii) | Insulation Tester 5kV with accessories Qty: One No | This equipment is used for Measurement of insulation Resistance of Distribution Transformer and other Electrical products | IS 1180(Part-1): 2014 and IS: 2026 |
| (iv) | High Frequency Double Voltage Test set for Transformer Upto 2.5MVA & upto 33kV/22kV/11kV with accessories Qty: One no. | This equipment is used for Measurement of Induced over-voltage withstand test of Distribution Transformer | IS 1180(Part-1): 2014 and IS: 2026 |
| (v) | Automatic Break Down Voltage Test Set/Kit (0-100KV) with accessories Qty: One No | This equipment is used for Testing of Break Down Voltage Test of Transformer Oil | IS 1180(Part-1): 2014 and IS: 2026 |
| (vi) | Moisture Content in Oil Test Set with accessories Qty: One No | This equipment is used for Testing of moisture content of oil in transformer | IS 1180(Part-1): 2014 and IS: 2026 |
| (b) New machinery | | | |
| (i) | Radiological Contamination Monitor –1 no. | To detect abnormal Radio nucleotides range for radioactive contaminated water samples during receipt of sample for testing. | <ul style="list-style-type: none"> Radiation Detected: Alpha, Beta, Gamma, X-Rays. Efficiency: More than 25% Detector: Pan cake GMT Back ground: <15 CPH Scintillation Window Diameter: 5 cm or More Counting Range: 0-999999 counts Materials Thickness: 0.1 to 999 Alarm: To Be Available Display Screen: LCD/LED Timer: To Be Available |



अजय बाजपेई / AJAY BAJPAI
संयुक्त निदेशक (आईडीईएस) / Joint Director (IEDS)


भारत सरकार / Govt. of India
सूक्ष्म, सान्छ एवं मध्यम उद्यम मंत्रालय
Ministry of Micro, Small & Medium Enterprises

नियंत्रण आयोग (म. स. एवं म. उद्यम) का कार्यालय
Office of the Dev. Commissioner (MSME)

निराला भवन, नई दिल्ली-110011 / Nirala Bhawan, New Delhi-110011

- Accuracy: $\pm 5\%$
- Frequency: 50 Hertz
- Data Storage: 2000 or more
- High Voltage: 0-1000vdc
- Rechargeable Battery: To Be Available
- Accessories: Operating manual, Alpha Blocker, Beta Blocker etc.

Warranty: 1 year, Min


 30/06/21
 अजय बाजपई / AJAY BAJPAI
 संयुक्त निदेशक (आईईडीएस) / Joint Director (IEDS)
 भारत सरकार / Govt. of India
 सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
 Ministry of Micro, Small & Medium Enterprises
 विकास आयुक्त (सू. ल. एवं म. उद्यम) का कार्यालय
 Office of the Dev. Commissioner (MSME)
 निर्माण भवन, नई दिल्ली-110011 / Nirman Bhawan, New Delhi-110011

Annexure to No. 65(02)/TCD/B03/2024-25 (E-4027603)

Date: 30/06/2025

Name of Institute: MSME Testing Centre, Delhi

| Sl. No | Name of Machinery & Equipments and Qty. | Used for | IS Specification & No. / Relevant specification | | | | | | | | | | | | | | | | | | | | |
|------------------------------|--|--|---|-----------------|------------|---------------|-----------|---------------|------------------|--------------|---|-------------------|------------------------|------------------|-----------------|------------------------------|--------------|---------------|------|-----------------|----------------------|---------------------------|-------------|
| (a) | Electrical Division | | | | | | | | | | | | | | | | | | | | | | |
| (i) | DIGITAL MICRO OHM METER 3 and 1/2 digit - 1 no | At present 2 nos. micro ohm meter is available in division out of which 1 no. is defective and non repairable. So one micro ohm meter is required as replacement. | Display: 3½ digit meter Measuring Ranges: 1999 µOhm; 19.99 mOhm; 199.9 mOhm; 1999 mOhm; 19.99 Ohm; 199.9 Ohm, 1999 Ohm; 19.99KOhm Accuracy: 0.5% ± 3 digit IS:- 694-2010, 1554(1)-1988, 7098(1)-1988 | | | | | | | | | | | | | | | | | | | | |
| (ii) | DIGITAL MILLION MEGA OHM METER -1 no. | At present 3 nos. million mega ohm meter is available in division out of which 1 no. is defective and non repairable. So million mega ohm meter is required as replacement. | Measurement Range: 1 Mohms to 100 Million Megohms in seven ranges Accuracy: Within ± 5% Test Voltage: High Stable: 100, 250, 500, 750, 1000VDC, adjustable accurately by Set H.T pot. Overload Protection: Input operation amplifier protected against accidental overload in first four ranges Meter: 200µA moving coil type for good resolution Power Supply: 230V ±10% at 50Hz IS:- 694-2010, 1554(1)-1988, 7098(1)-1988 | | | | | | | | | | | | | | | | | | | | |
| (iii) | Non-Contact type Digital Tachometer (Range 5 to 999999RPM) -1 no. | At present 2 nos. Non-Contact type Digital Tachometer is available in division out of which 1 no. is defective and non repairable. So Non-Contact type Digital Tachometer is required as replacement. | <table><tr><td>Type of Product</td><td>Tachometer</td></tr><tr><td>Resolution</td><td>0.1/1 RPM</td></tr><tr><td>Accuracy</td><td>±(0.05% +1)</td></tr><tr><td>Accessories</td><td>Carrying Case, Instruction Manual, & 2 Pcs. Of Reflecting Tape 350 mm</td></tr><tr><td>Type</td><td>Non Contact Tachometer</td></tr><tr><td>Tachometer Range</td><td>5 to 999999 RPM</td></tr><tr><td>Test Range</td><td>Auto ranging</td></tr></table> IS:374-2019, IS-2312-1967, IS:996-2009 | Type of Product | Tachometer | Resolution | 0.1/1 RPM | Accuracy | ±(0.05% +1) | Accessories | Carrying Case, Instruction Manual, & 2 Pcs. Of Reflecting Tape 350 mm | Type | Non Contact Tachometer | Tachometer Range | 5 to 999999 RPM | Test Range | Auto ranging | | | | | | |
| Type of Product | Tachometer | | | | | | | | | | | | | | | | | | | | | | |
| Resolution | 0.1/1 RPM | | | | | | | | | | | | | | | | | | | | | | |
| Accuracy | ±(0.05% +1) | | | | | | | | | | | | | | | | | | | | | | |
| Accessories | Carrying Case, Instruction Manual, & 2 Pcs. Of Reflecting Tape 350 mm | | | | | | | | | | | | | | | | | | | | | | |
| Type | Non Contact Tachometer | | | | | | | | | | | | | | | | | | | | | | |
| Tachometer Range | 5 to 999999 RPM | | | | | | | | | | | | | | | | | | | | | | |
| Test Range | Auto ranging | | | | | | | | | | | | | | | | | | | | | | |
| (iv) | Infrared Thermometer Temperature Range -30 to 350°C Accuracy ±1.5% -1 no | It is 1 st time purchase used for measuring back side temperature of geyser. -measuring temp in flame retardant test in cable. -At present we are using contact type temperature meter, which is difficult to use from back side of geyser. So infrared type thermometer is proposed to purchase. | <table><tr><td>Accuracy</td><td>±1.5%</td></tr><tr><td>Repeatability</td><td>±1 %</td></tr><tr><td>Response Time</td><td>Less Than 500 ms</td></tr><tr><td>Display Type</td><td>LCD / LED</td></tr><tr><td>Temperature Range</td><td>-30-350°C</td></tr><tr><td>Material</td><td>Plastic</td></tr><tr><td>Thermopile/Spectral Response</td><td>8-14 µm</td></tr><tr><td>Repeatability</td><td>±1 %</td></tr><tr><td>Type of Product</td><td>Infrared Thermometer</td></tr><tr><td>Maximum Temperature Range</td><td>0° to 350°C</td></tr></table> | Accuracy | ±1.5% | Repeatability | ±1 % | Response Time | Less Than 500 ms | Display Type | LCD / LED | Temperature Range | -30-350°C | Material | Plastic | Thermopile/Spectral Response | 8-14 µm | Repeatability | ±1 % | Type of Product | Infrared Thermometer | Maximum Temperature Range | 0° to 350°C |
| Accuracy | ±1.5% | | | | | | | | | | | | | | | | | | | | | | |
| Repeatability | ±1 % | | | | | | | | | | | | | | | | | | | | | | |
| Response Time | Less Than 500 ms | | | | | | | | | | | | | | | | | | | | | | |
| Display Type | LCD / LED | | | | | | | | | | | | | | | | | | | | | | |
| Temperature Range | -30-350°C | | | | | | | | | | | | | | | | | | | | | | |
| Material | Plastic | | | | | | | | | | | | | | | | | | | | | | |
| Thermopile/Spectral Response | 8-14 µm | | | | | | | | | | | | | | | | | | | | | | |
| Repeatability | ±1 % | | | | | | | | | | | | | | | | | | | | | | |
| Type of Product | Infrared Thermometer | | | | | | | | | | | | | | | | | | | | | | |
| Maximum Temperature Range | 0° to 350°C | | | | | | | | | | | | | | | | | | | | | | |
| (v) | Analytical weighing balance 220gm accuracy 0.1mg - 1 no | The existing weighing balance bearing id MSME-TC/Elect/179, make - Sartorius was non repairable. So said item was GFR on GeM. This is the replacement of the same. | <ul style="list-style-type: none">• Accuracy: 0.1 mg (0.0001 g).• Capacity: Typically upto 220g.• Readability: 0.1 mg.• Repeatability: The ability to display the same value when the same weight is placed on the balance multiple times.• Interfaces: May have RS232 interfaces for data transfer to a computer.• Features: May include a draft shield to protect against air currents, a built-in under hook for below weighing, and an easy-to-read LCD display. IS:694-2010, IS: 7098(1)-1988, IS: 1554(1)-1988 | | | | | | | | | | | | | | | | | | | | |

Digital Leaf
Meters
Ch-1

| | | | |
|---|--|--|--|
| | Digital Leakage Current Meters for single phase / CI-1/CI-2/CI-3 appliances - 1 no | Division has leakage current meter but as mentioned in IS 302-1-2008 not available. This is also pointed out by NABL 600mm x 600mm | Range 0.1 micro amps to 20 mA Accuracy $\pm 2\%$ rdg, ± 5 dgt to $\pm 1\%$ Measuring Leakage Current in Different Types of Appliances: <ul style="list-style-type: none"> Class I Appliances: These appliances have a ground (earth) connection and a maximum permissible leakage current of 0.75 mA for portable appliances and 3.5 mA for fixed motor-operated appliances. Class II Appliances: These appliances have double or reinforced insulation and a maximum permissible leakage current of 0.25 mA. Class III Appliances: These appliances are powered by a low-voltage supply and have a maximum permissible leakage current of 0.5 mA IS: 4250-1980 IS:2082-1993 IS:996-2009 IS.8978-1992. |
| (vii) | Electronic Platform Weighing Scale Mild Steel Capacity 200kg, Platform measures 600mm x 600mm Accuracy 20g - 1 no. | To weight the large large. i.e. scrap, cable etc | <ul style="list-style-type: none"> Non Slip Platform, Backlit Display, Tare Function Platform measures 600mm x 600mm. Maximum Weighing capacity: 200 kg, Precision: 20 gram. Comes with Initial Calibration/ certificate. |
| (viii) | Thermocouple with 4N load - 1 no. | For measuring surface temperature of appliances | <ul style="list-style-type: none"> Thermocouple wire dia 0.3mm Adhesive type Handle arrangement permitted a contact force of 4N\pm1N Polycarbonate tube inside India 3 mm, outside dia 5mm Tinned copper disc 5mm thick with a flat contact face |
| Total(a) | | | |
| (b) Mechanical & Metallurgy Division | | | |
| (i) | Gas Analyser - 1 no. | The CO/CO ₂ has ratio measurement is compulsory for testing of LPG stoves and water heaters. | The measuring capacity of present CO ₂ has instrument is upto 9999 PPM whoever during testing of LPG stove, the results are going beyond 99999 PPM(1.0 %) and our equipment is unable to read those readings. As per IS, higher value of CO ₂ are considered as safe. |
| (c) | Chemical Division | | |
| (i) | Humidity Chamber - 1 no. | Humidity chamber is generally used for conditioning of paper sample before test and testing of paint & polish etc. | Chamber Volume min. 200 liter, Internal material SS 304, Internal dimension Min. (HxVxD) 600x600x600, Temperature range +10-70 degree Celsius or higher, Humidity range +10- 95% RH or higher, LCD smart graphic controller |
| (ii) | pH meter - 1 no | pH meter is used for determination pH of different sample i.e shoe polish, water for construction. soap & detergent, cosmetic product etc. | Micro controller based type, Temperature compensation type- automatic, temperature accuracy min ± 10 degree Celsius, Mode-pH, mv, resolution of pH 0.0(min), pH range 0.0 to 14 |



Annexure to No. 65(02)/TCD/B03/2024-25 (E-4027603)

Date: 30/06/2025

Name of Institute: MSME Testing Centre, Mumbai

| Sl. No | Name of Machinery & Equipments and Qty. | Used for | IS Specification & No. / Relevant specification |
|-----------------------|---|--|--|
| (a) Mechanical | | | |
| (i) | Digital weighing scale 6 kg capacity -1 no. | Equipment is as per requirement of weighing of products. | Type: Electronic balance Capacity: 6 kg Class: Min. Class-II No. of scale division/Least count: 100 mg/0.1 g Power requirement: Mains operated & battery operated Platform Size: Minimum 200 X 200 mm |
| (ii) | Semi Electric Pallet Stacker - 1 no. | It will be used for transportation of heavy sample from door to Laboratory | Type: Semi-Electric Pallet Stacker Capacity: 1500 kg Protect arm: With Adjustable fork: With Application: Semi-electric Lift height: Min. 1 m |
| (b) Electrical | | | |
| (i) | Endurance Test setup for Switches -1 no. | Testing of switches from making & breaking capacity, normal operation load A & load B. | Endurance Test Machine for Switches As per IS 3854: 2023 (Cl.18 & Cl.19) (To test 3 Switches at a time - 3 stations) Electrically operated PLC based Endurance machine to operate 3 Switches Sequentially (Three Phase Supply) 3 Stations HMI display to set required parameters like ON Time/OFF Time, Max. No. of Operation (Common for 3 station) and Station selection ON/OFF Load Bank of Making Breaking Test and Normal Operation for carrying out testing of 3 switches in Sequential mode at Rated Voltage 230V, 240V and 250V and at Rated current 6A, 10A, 13A, 16A, and 20A as per Cl. 18.2 & 19.1 of IS 3854:2023 Tungsten Filament Lamp Load (Rating 6A, 10A, 13A, 16A at 230V, 240V and 250V) as per Cl. 18.3 of IS 3854:2023 Externally Ballasted Lamp Load (Load A) (Rating 6A, 10A, 13A, & 16A at 230V, 240V and 250V & p.f. 0.9) as per Cl.19.2 of 6 3854:2023, Self-Ballasted Lamp Load (Load B)(Rating 6A, 10A, 13A, 16A, & 20A at Rated Voltage) as per C. 19.3 of IS 3854:2023. Digital Storage Oscilloscope, 2-Channel, Frequency 200MHz along with Probes Universal fixture on which all types of switches can be mounted, Flush mounting boxes as per Clause 17.1 of S 3854:2023 for mounting a rating of switches-6 nos. Multifunction-Meter to indicate the parameters set for the switches under test Voltmeter: Range: 0-300V, L.C 0.1V, Accuracy: 1% Ammeter: Range: 0-100A, LC 0.1A, Accuracy: 1% Power factor meter: Range: -1to +1, L.C.: 0.01, Digital Counter: 0-999999, Safety precaution switches |
| (ii) | Insulation Tester -1 no | Measurement of insulation resistance/Volume resistivity of XLPE cables Switchgears etc | Type: Hand held Measurement Range: 10 K to 35 T Ohm Measurement Accuracy: 3 percent Measurement Resolution: 0.01megaohm Test Voltage: 500 Volt Test current : 1 milliampere Safety mrrating Category III 1000 V of IEC 61010 AC/DC Voltage measurement 600 Volt AC/DC Voltage Measurement Resolution: 0.1 Volts AC/DC Voltage Measurement Accuracy: 2.0% |



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विमान मंडल, नई दिल्ली-110011 / Nandan Bhawan, New Delhi-110011

Annexure to No. 65(02)/TCD/B03/2024-25 (E-4027603)

Date: 30/06/2025

Name of Institute: MSME Testing Station, Jaipur

| Sl. No | Name of Machinery & Equipments and Qty. | Used for | IS Specification & No. / Relevant specification |
|--------|--|------------------------------|---|
| (i) | Digital Vernier and Digital Micrometer (2 nos) | Replacement of old machinery | - |
| (ii) | Single disc polishing/grinding machine -1 no. | Replacement of old machinery | - |



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