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No. 65(03)/TCD/B03/2022-23/09

Date: 21/06/2022

To,

The Joint Director,
MSME – Testing Centre,
65/1, GST Road, Guindy,
Chennai-600 032, Tamilnadu.

Subject: Sanction and allocation of amount Rs. 1,84,52,201/- to MSME-Testing Centre, Chennai under the object head Machinery and Equipments (4851.00.102.33.00.52) for Financial year 2022-23.

Sir,

I am to convey the administrative approval and financial sanction of As & DC (MSME) for allocation of amount **Rs. 1,84,52,201/- (One Crore Eighty Four Lakh Fifty Two Thousand Two Hundred One Only)** to MSME- Testing Centre, Chennai during the current FY 2022-23 for procurement of Machinery and Equipments to enhance testing facilities/ balancing/ replacement of machinery used for conducting tests and auxiliary equipments/ accessories required for modification or upgradation / to create complete new test facility under object head Machinery and Equipments (4851.00.102.33.00.52) of Infrastructure Establishment DC (MSME) for FY 2022-23. As per the details mentioned in the attached Annexure.

2. The expenditure of **Rs. 1,84,52,201/-** shall be accommodated in Demand No. 68 – Ministry of Micro, Small & Medium Enterprises (MSME) under object head Machinery and Equipments (4851.00.102.33.00.52) of Infrastructure Establishment DC (MSME) for FY 2022-23.
3. 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.
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.

दयालन. के./DHAYALAN. K
उप निदेशक / Deputy Director
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-110108 / Nirman Bhawan, New Delhi-110108

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6. The purchase committee should have an officer as member from nearest MSME-DI, not below the rank of Asstt. Director Gr.- I.
7. ADC/ Joint Director/ Asst. Director I/c 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 2022-23.
8. A separate register shall be maintained for each machinery on its utilization/ job booking details.
9. ADC/ Joint Director /Asst. Director I/c shall furnish installation report and commissioning certificate of the procured Machinery & Equipments along with expenditure incurred and fund utilization certificate.
10. This issues with the approval of Secretary (MSME) vide E- office no. 4021277, Note # 4 dated 17.06.2022.

(Dhayalan K)
Deputy Director

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उप निदेशक / Deputy Director
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Copy to:

- 1) Pay & accounts office (MSME), Chennai.
- 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.

(Dhayalan K)
Deputy Director

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Sl. No.	Name of Machinery & Equipments & Qty.	Used for	IS Specification No. /Relevant specification	Complete Technical specifications
1	Universal Testing machine-2000KN - 1 no.	Testing for TMT bars	IS 1828,	Computer Control Electro-Hydraulic Servo Universal Testing Machine, Capacity 2000 KN (200T) with suitable interface controller & software Accuracy as per IS1828 Class 1 Suitable extensometer 50mm GL with 5mm Bend test attachment with branded suitable Desktop PCwith printer 1. Loadcapacity:2000Kn/20 Ton (Both Tension & Compression) 2.Effective load measuring range 04-100% stepless of full scale 3.LoadAccuracy(%)+- 0.5% class 0.5 According to ISO 7500-1 4.Extensometer deformation accuracy (%) 0.5% 5.Test Loading speed (mm/Min) 0.5-90 6.Load Method-vertical /servo hydraulic 7.Control By Servo Closed Loop-stress. Strain and speed control etc 8.Control Modes- both manual and automatic. 9.Stress ControlRange-1-60 (Nmm2)S 10.Strain controlrange-0.00025 /s-0.0025/s 11.Tensile Space(mm)-1450 12.Effective Compression Space (mm)-1250 13.Piston Stroke (mm)-250 14.Clamps for Flat specimen Thickness (mm)-0-20,20-40,40-70 15.Compression Platen dia (mm)-200 16.Clamps for circular specimen dia (mm)- dia20-40,dia-40-60,60-80
2	Air Compressor -01 no.			Air Compressor oil free single Phase 230V Ac,%0 Hz 70 Liters rated discharge 36 Kg /cm ² Single Stage compression, Tank mounted Direct drive, TEFC (Totally Enclosed Fan-Cooled) Electric Motor capacity of Air receiver 70 Liters
3	Buoyancy Balance - 01 no.		IS 2386 Pt3	Buoyancy Balance confirming to IS 2386 Pt3 220-240 v single phase weighing capacity15 Kg with Rigid support frame incorporating water Tank mounted on platform, Mechanical Lifting device with Weighing balance
4	Smoke density Test Apparatus -01 no.	To carry out Density of smoke from the burning or decomposition of PVC samples For Electrical testing laboratory	IS 694:2010 & IS13360 (Part 6/sec 9) : 2001	Smoke density test apparatus is designing to measure the smoke density from the burning or decomposition of plastics as per the requirements of the IS 13360 (Part6/sec9) : 2001 standard the Apparatus will consist of smoke chamber and control console. The front side of the chamber will be provided with hinged door fitted with glazed heat treated glass. A blower will be mounted on one side of the chamber. The inlet duct to the blower will be equipped with a close fitting damper. Provision to switch ON or switch OFF by operating a single button.

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				Operating voltage 230 volt, 50 Hz. The lamp voltage, timer, temperature and smoke density values will be digitally displayed with illuminated legends on the converting red display window. Data acquisition system: Necessary A/D converter, connecting cables and other hardware and software for plotting graph making necessary tables. With SCADA (licensed), Computer with ND2, ND4 & ND8 filters
5	Boiling Water Bath -01 no.	To make Conditioning of sample for additional Ageing test & Testing and Evaluation.	IS 694:2010	Digital Temperature Controlled Cum Timer Range Ambient to 100°C (Boiling Water); LC: 0.1°C; Accuracy: $\pm 2^\circ\text{C}$. with Timer Range Settable 99.9/999Hours Range Water Bath working Chamber Size: 350mm X 250mm X 250mm Deep. With Motorized Stirrer. Working Chamber Made in Stainless steel and outer made in Mild steel duly powder coated
6	Flammability Test Apparatus -01 no.	To burning of cable and Measure unaffected portion of tested sample.	IS694:2010 & 10810(Part 53)	Flammability Test Apparatus as per IS: 10810 Part-53 with Two Burner.
7	Dumbbell Cutting Press (Hydraulic) -01 no.	To prepare PVC and XLPE Samples for Physical test for Insulation	IS 7098 (Part1):1998 & 10810 (Part7) & (Part30)	Dumbbell Cutting Press Hydraulic and Dumbbell Die 50mm and 75mm
8	Gauges for Checking Minimum Outside Diameter -07 no.	To Check Minimum Outside Diameter of Non-Metallic Conduit Pipes.	IS 9537 (P3):1983	16,20, 25,32,40,50 & 63mm
9	Gauges for Checking Maximum Outside Diameter -07 no.	To Check Maximum Outside Diameter of Non-Metallic Conduit Pipes.	IS 9537 (P3):1983	16,20, 25,32,40,50 & 63mm
10	Gauges for Checking Minimum Inside Diameter -07 no.	To Check Minimum Inside Diameter of Non-Metallic Conduit Pipes.	IS 9537 (P3):1983	16,20, 25,32,40,50 & 63mm (light, medium, heavy)
11	Gauges for checking collapse test -03 no.	To Check Minimum Inside Diameter of after collapse test in Non-Metallic Conduit Pipes.	IS 9537 (P3):1983	16,20 & 25mm. (light, medium, heavy)
12	Bending Test Apparatus -01 no.	To Check Flexibility of Non-Metallic Conduit Pipes.	IS 9537 (P3):1983	Manually operated, the Apparatus comprises a holding device for the conduit pipes (light, medium, heavy) of sizes 16, 20 & 25mm dia and is supplied along with required size of mandrels. The mandrels are interchangeable and complete with spring for above size of pipes.
13	Bending Aid (Round / Square wire) -01 no.	To Check Flexibility of Non-Metallic Conduit Pipes.	IS 9537 (P3):1983	Spring Size, 16mm (light, medium, heavy) Spring Size, 20mm (light, medium, heavy) Spring Size, 25mm (light, medium, heavy)
14	Gauges for checking Max Outside Diameter of socket ends. Gauges for checking max inside Diameter of socket ends. -07 no.	To Check Minimum and maximum Outside Diameter of Non-Metallic Conduit Pipes. To Check Minimum and maximum inside Diameter of Non-Metallic Conduit Pipes.	IS 9537 (P3):1983	20.1, 24.5, 29.8, 37.8, 46.1, 57.3 & 69.6mm

Sl. No.	Name of Machinery & Equipments & Qty.	Used for	IS Specification No. / Relevant specification	Complete Technical specifications
15	Gauges for checking Max Outside Diameter of socket ends. Gauges for checking max inside Diameter of socket ends. -07 no.	To Check Minimum and maximum Outside Diameter of Non-Metallic Conduit Pipes. To Check Minimum and maximum inside Diameter of Non-Metallic Conduit Pipes.	IS 9537 (P3):1983	(Dia :16.1mm +0.2 & H :40mm), (Dia :20.1mm+0.2 & H :40mm), (Dia :25.1mm+0.3 & H :40mm), (Dia :32.1mm+0.3 & H :50mm), (Dia :40.1mm+0.4 & H :60mm), (Dia :50.1mm+0.4 & H :60mm), (Dia :63.1mm+0.5 & H :60mm). No -ve tolerance for all Dimension.
16	Fume Hood with Cup board -01 no.	To exhaust poison gas produced during the oxygen index test	-IS 694-	Auxiliary equipment
17	Primary Injection Test Set- 10K Amps -01 no.	To test heat cycle test and Temperature rise test	IS 5561, 2021	3 phase input, single phase output Motorized control, Micro processed complete with on board digitalized panel , with 3 numbers of Digital Ammeter with 0.5 classes CT, Output is brought on copper bus bars with tinned copper flexible shunts length of 1200 mm
18	Platinum Crucible with lid -01 no	To fuse the cement, ores and other materials	IS 4032/IS 228/IS12308	Platinum Crucible Capacity 40 cc approx and approx weight 50g with Lid
19	Digital semi Automatic Flashpoint tester (closed Cup) -01 no	Find Flash point of Paints, petroleum products	IS 101 IS 1441	Flash Point apparatus System with remote operating unit Stirrer, igniter, igniter mechanism checked during initialisation, High speed fan 20 watt@ 24 V/Band heater 450 watts @ 230 VAC, heat rate control with precise ten turn potentiometer, speed control by précised from 50 to 250rpm, Ignition electric/Gas igniter interchangeable With a single push button(stirring and heating stops with electric lighter lightning dipping resume, if flash detects cooling starts with beeps permanently fixed sample lid, stirrer sample temperature sensor, flash detector and igniter for easy operation Glass PT 100, class A with digital indication/thermometer interchangeable
20	ECD Exceed cell with spares (accessory for GC (Toshwin make)	Determination of organo choloro pesticides and organo phosphorus pesticide and also reduce the workload of GCMSMS at the time of receipt of more samples	IS: 13428 and USEPA method	1.Electron capture Detector, controller ECD-2010 Exceed English(part no.221-77550-42) 2.ECD-2010 Exceed 230V (part no.221-77510-48) 3.Oxgen Purifier DG goods (part no.221-46985-91) 4.Bypass Kit, ECD+EX (part no.221-49664-42) 5.Gas filter, molecular sieve (part no.221-05619-01)