

[CSIR-CMERI, Durgapur]

Procurement Plan
[Financial Year 2025-26]

[A] Equipment:

Table 1: Equipment for procurement during the FY 2025-26 and subsequent 3 – 5 years:

Sl. No.	Name of Equipment / Item	Quantity	Approximate Cost (Rs. in Lakhs)
1.	High Voltage E-Motor and Controller Test Bed for EV power train	1 No	1000.00
2.	Infrared camera for thermal mapping from distance	1 No	20.00
3.	Investment casting unit for aerospace component development	1 No	500.00
4.	Vacuum Induction Melting and Casting Systems (Aluminium and Ferrous, one each)	1 Lot	1000.00
5.	Supply and Installation of Clean Room Class 10000 (ISO-7) Facility for 200 to 250 square feet area	1 No	25.00
6.	Upgradation of existing FESEM (SIGMA HD) with texture feature facility along with vacuum level enhancement	1 No	320.00
7.	Supply and installation of Drop shape analysis system	1 No	42.00
8.	Laser Interferometer measurement system along with compensation unit & calibration certificate from NMI	1 No	65.00
9.	Cold Metal Transfer System	1 No	42.00
10.	Supply and Installation of 80 kW Atmospheric Plasma Spray System	1 No	230.00
11.	Selective laser melting based powder bed fusion machine	1 No	240.00
12.	Gantry type CNC filament winding machine	1 No	60.00
13.	Video Extensometer	1 No	60.00
14.	100 kN High-Temperature Thermo-Mechanical Fatigue System with supporting accessories	1 No	275.00

15.	Gauge Block Comparator with Calibration certificate from NMI or NABL accredited LAB	1 No	40.00
16.	2x100 kW (or higher) Modular, Live/Hot Swappable Parallel Redundant UPS System at 8 different locations	1 No	400.00
17.	Gas Booster Unit (Nitrogen)	1 No	25.00
18.	Burst Pressure Test Unit (Hydraulic/Water)	1 No	20.00
19.	Automatic Proximate Analyser	1 No	35.00
20.	CHNS Analyser	1 No	50.00
21.	Thermal conductivity meter for liquids	1 No	15.00
22.	Benchtop lab scale parallel twin screw extruder with micro-injection moulding, filament spooler, and LASER-based diameter monitoring system	1 No	190.00
23.	Fourier Transform Infra-Red (FTIR) Spectrometer	1 No	45.00
24.	Supply of Control Console Container Size 20 ft X 8 ft X 8.5 ft. for testing of underwater robotic systems with associated accessories and tools	1 No	24.00
25.	Coriolis Mass Flow Meter with Controller and Test Control Panel	1 No	18.00
26.	Thermal Calibration and Testing Equipment	1 No	20.00
27.	Planetary Ball Mill	1 No	20.00
28.	Upgradation of existing Sigma Zeiss FESEM with correlative microscopy	1 No	50.00
29.	License servers and one GPU-based computational platform for CFD/FEA simulations using ANSYS software.	1 Lot	60.00
29.	FESEM with EBSD Facility	1 Set	600.00
30.	Hyper Converged Infrastructure (HCI) Hardware, Software and Backup Solution	1 Lot	200.00
31.	Siemens Software Bundle (NX CAD, NC CAM, Simcenter, Amesim, Star CCM+ etc.)	1 Lot	300.00
32.	Hexagon Software Bundle (MSC Software, Cradle, Digimat etc.)	1 Lot	100.00
33.	Ansys Software Bundle (Mechanical, CFD, Maxwell, MotorCAD etc.)	1 Lot	100.00
34.	Mathworks Matlab & Simulink Bundle	1 Lot	100.00
35.	Various Network Switches compatible with existing Network	1 Lot	100.00
36.	Micro/Nano Volume Spectrophotometer	1 No	12.00

37.	Picoammeter / Voltage Source	1 No	12.50
38.	Electrochemical Workstation	1 No	20.00
39.	Potentiostat/Galvanostat (Biosensor applications)	1 No	20.00
40.	High Speed Precision conventional Lathe	1 No.	40.0
41.	Universal Milling Machine - conventional	1 No.	60.0
42.	CNC WireCUT EDM machine	1 No.	450.0
43.	CNC Turn Mill centre	1 No.	80.0
44.	CNC High Precision Waterjet Cutting Machine	1 No.	450.0
45.	General Purpose Entry Level Workstations	1 lot	50.00
46.	Mid-level Workstations for CAD & CAE	1 lot	50.00

Note:

1. Equipment costing less than INR 10 lakh is not included in the list.
2. The names of the equipment and the approximate costs are tentative and subject to change as per the recommendations of TSC/PC.

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Procurement Plan

[Financial Year 2025-26]

[B] Consumables:

The following categories of consumables are likely to be procured during the FY 2025-26.

Table 3: Consumables likely to be procured during **Financial Year 2025-26** (Annual):

Sl. No.	Category	Expected Procurement Value (Rs. In Lakhs)
1	Chemicals	300.00
2	Other Consumables (materials, workshop tools, fixtures, die & punch, spares, kits & consumables for running machines etc.)	500.00
3	Glass wares	80.00
4	Plastic wares	50.00
5	Cartridges, Batteries, etc.	40.00
6	Gases	40.00
7	Maintenance/AMC/repairing of existing equipment	200.00
8	Stationary items (toners, cartridges, papers, clips, etc.)	20.00
9	IT / software-related Items	150.00
10	Furniture	30.00
11	Electric Items	20.00
12	Mechanical Fabrication	100.00

Note:

- The above procurement plan is dynamic and could be revised as often as may be necessary with the approval of competent authority.
- The procurement of the chemicals & consumables would be based on the need and time to time requirement of the R&D activities.
- The procurement is subject to the funds availability/release of sufficient grant from CSIR / or funding agency.
- The indicated procurement value is an estimate only.

This is issued with the approval of the competent authority.