

[CSIR-AMPRI, Bhopal]
PROCUREMENT PLAN*

(*Please read the note given at the end)

A

FOR THE FINANCIAL YEAR 2026-27

A (a)

EQUIPMENT

(i)

Equipment: Out of CSIR Infra Grant

| Sr. No. | Name Category of Equipment/ Vehicle Item | Quantity (Nos.) | Approximate Cost (Rs. In Lakhs) |
|----------------|--|------------------------|--|
| 1 | Thermal Evaporation System | 1 | 25 |
| 2 | Inductively Coupled Plasma Optical Emission Spectroscopy | 1 | 92 |
| 3 | UV colour printer & Cutting Plotter machine | 1 | 13 |
| 4 | Automatic Hydrogen Storage material analyzer | 1 | 200 |
| 5 | Impedance tube system with accessories | 1 | 100 |
| 6 | Fabrication of a Structure for stirrer motor positioning during foam making | 1 | 15 |
| 7 | Multichannel Potentiostat-Galvanostat with SERS Accessories | 1 | 120 |
| 8 | Bench Top Excitation Energy -Dispersive X-Ray Fluorescence Spectrometer (ED-XRF) | 1 | 150 |
| 9 | Gantry based 3D Concrete Printer | 1 | 55 |
| 10 | Fully Automated Chemisorption Analyzer | 1 | 172 |
| 11 | High resolution physisorption Analyzer | 1 | 150 |
| 12 | COMSOL Multiphysics Software | 1 | 50 |
| 13 | Total Organic Carbon Analyzer | 1 | 45 |
| 14 | Network system , Network switches etc | 1 | 7 |
| 15 | Thermocole software with modules and databases | 1 | 100 |
| 16 | Fully Automatic Fibre analyzer with Hot & Cold extraction unit | 1 | 40 |
| 17 | Vector Network Analyzer | 1 | 13 |

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|----|---|---|-----|
| 18 | High Score plus software | 1 | 18 |
| 19 | Fume Hood | 1 | 10 |
| 20 | Muffle Furnace | 1 | 4 |
| 21 | Multi-GPU server with rack and enabled modes | 1 | 165 |
| 22 | Probe station | 1 | 20 |
| 23 | Dual channel source meter | 1 | 20 |
| 24 | Ion Chromatography System | 1 | 170 |
| 25 | GPU Workstation (Blackwell architecture) | 1 | 33 |
| 26 | Customised furnace with electrolysis set up | 1 | 10 |
| 27 | Hot pressing machine | 1 | 05 |
| 28 | Coin cell crimping machine | 1 | 05 |
| 29 | Ultrasonic atomizer setup for fabrication of thin film coatings | 1 | 12 |
| 30 | Ultrasonic processor (Probe-type sonicator) with different types of probes, stand and other accessories | 1 | 15 |
| 31 | Ball milling with tungsten carbide bowl and balls with inert gas atmosphere lids | 1 | 25 |
| 32 | Sound and vibration analyser with accelerometer and calibrator | 1 | 25 |
| 33 | Building acoustic system with accessories | 1 | 100 |
| 34 | Mass spectrometer-integrable with TGA-DSC system | 1 | 130 |
| 35 | ABAQUS Software | 1 | 30 |

(ii) Equipment: Out of CSIR Funded Projects

| Sr. No | Name Category of Equipment/ Vehicle Item | Quantity (Nos.) | Project Number/ Code | Approximate Cost (Rs. In Lakhs) |
|--------|---|-----------------|----------------------|---------------------------------|
| 1 | Multiplex analyzer with flow analysis accessories | 1 | CSIR-FTT | 30.00 |
| 2 | Lateral flow assembly with accessories | 1 | CSIR-FTT | 20.00 |
| 3 | Desktop Computer | 10 | CSIR Skill | 08.00 |
| 4 | Color Multifunction Printer | 4 | CSIR Skill | 02.00 |
| 5 | High-end GPU workstations, Mobile computing platforms, data storage systems | 3 | CSIRCLAIMMMP-015203 | 17.00 |

| | | | | |
|----|---|---|---------------------|--------|
| 6 | SMT pick and place machine, environmental chamber, 3D printer, NDT, 3D hand-held scanner, IT-related products, and other small equipment. | 2 | CSIRCLAIMMMP-015203 | 00.723 |
| 7 | Electrochemical workstation | 1 | ANRF-ARG | 40 |
| 8 | Hot air oven | 1 | DBT-EFG | 1.5 |
| 9 | Centrifuge system | 1 | DBT-EFG | 3 |
| 10 | Laser engraving machine | 1 | DBT-EFG | 1 |
| 11 | Inkjet printing machine | 1 | DBT-EFG | 19.5 |
| 12 | Bipotentiostat-based electrochemical workstation | 1 | DBT-EFG | 25 |
| 13 | High-energy ball milling | 1 | CSIR-FBR-EED | 10 |
| 14 | Probe type sonicator | 1 | CSIR-FBR-CLP | 10 |
| 15 | High-energy ball milling or an electrochemical workstation | 1 | CSIR-FIRST | 20 |
| 16 | Multi-channel battery tester | 1 | B2C | 20 |
| 17 | Electrochemical workstation, magnetic stirrer, pump, recirculating chiller, refrigerator | 1 | CSIR-FIRST | 20 |
| 18 | Pump, Recirculating chiller, UV chamber, Refrigerator | 1 | FBR | 10 |
| 19 | High Vacuum pump, Hydrothermal reactor | 1 | MNRE | 1.2 |

(iii) Equipment: Out of Externally Funded Projects (EFP)

| Sr. No | Name Category of Equipment/ Vehicle Item | Quantity (Nos.) | Project Number/ Code | Approximate Cost (Rs. In Lakhs) |
|--------|--|-----------------|----------------------|---------------------------------|
| 1 | Electrochemical Analyzer | 1 | ICMR | 11.00 |
| 2 | 3D Printer with SLA & FDM Printing mode | 1 | ICMR | 13.70 |
| 3 | Plasma chamber | 1 | ICMR | 1.50 |
| 4 | Multi-channel Potentiostat /Galvanostat/Impedance Analyzer | 1 | DST | 45.00 |
| 5 | FDM 3D printer & accessories | 1 | DST | 10.00 |
| 6 | Flat panel X-ray detector-integrable with X-ray | 1 | GAP0153 | 50.00 |

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|-------|--|---|-------------------|-------|
| | attenuation testing facility: 50 lakhs (GAP 0153) | | | |
| 7 | Refractometer with sample presser | 1 | GAP0153 | 12.00 |
| 8 | Rotavap | 1 | GAP0153 | 10.00 |
| 9 (i) | High Performance Computing Platforms: workstations, | 3 | GAP0162 | 15.00 |
| (ii) | Mobile computing platforms | 2 | | |
| (iii) | Display | 1 | | |
| 10 | Small equipment such as power supplies, UPS, displays/monitors, and an environmental chamber | | GAP0162 | 07.00 |
| 11 | Resin 3D Printer with washing and curing unit | 1 | DST Funded | 09.50 |
| 12 | Multi-channel Potentiostat-Galvanostat-EIS Workstation | 1 | DST Funded | 45.00 |
| 13 | Computer/Laptop | 1 | GAP0155 & GAP0144 | 3.0 |
| 14 | Printers | 2 | GAP0155 & GAP0144 | 1.0 |
| 15 | Monitor | 1 | GAP0155 & GAP0144 | 0.6 |
| 16 | Work Station | 1 | GAP0155 & GAP0144 | 04 |
| 17 | Power Amplifier | 1 | GAP0155 & GAP0144 | 0.26 |
| 18 | Weather sensor with data logger | 1 | GAP0155 & GAP0144 | 8.00 |
| 19 | UPS | 1 | GAP0155 & GAP0144 | 0.6 |
| 20 | Color and Black & White Printer | 2 | GAP0155 & GAP0144 | 1.0 |
| 21 | Digital Storage Oscilloscope | 1 | GAP0155 & GAP0144 | 2 |
| 22 | Function Generator | 1 | GAP0155 & GAP0144 | 1.6 |
| 23 | Hammer Drill Machine/Drill Machine | 1 | GAP0155 & GAP0144 | 0.30 |
| 24 | Computer Table/Chair | 1 | GAP0155 & GAP0144 | 1.0 |

| | | | | |
|--------------|--------------------|--|--|--|
| A (b) | CONSUMABLES | | | |
|--------------|--------------------|--|--|--|

| Sr. No. | Category | Expected Procurement Value (Rs. In Lakhs) | | | |
|----------------|--|--|------------------------------------|---|-----------------------------|
| | | Out of CSIR Infra Grant | Out of CSIR Funded Projects | Out of Externally Funded Project (EFP) | Total (Rs. In Lakhs) |
| 1 | R&D Consumables for closed loop systems (by equipment name eg. Kits for Illumina sequencer, Components for Demo Make In India Raman spectrometer, 3D printer consumables etc.) | 47 | 35 | 3 | |
| 2 | Chemicals (ex.- Name the different chemicals like Solvents, Biochemical/s, Biochemical kits & enzymes, Diagnostic kits, Sequencing, Oligonucleotides, etc.) | 10 | 7 | | |
| 3 | Other Consumables (ex- Insecticide, Raw Materials, Packing Material, Column, Syringes, Transcriptome and Metagenome Analysis, Metabolites analyses, Farm Consumables, TLC Plates, Filter papers, Planting materials, seeds, Chemical standards, Essential oils, Standard aroma molecules, Animal feed, Cell Lines, Agriculture accessories, Meta powders Ti alloys and CM247, Electronics and mechanical consumables etc.) | 95 | 13.5 | 4 | |
| 4 | Glass wares (ex- name the different glass wares) | 10 | 2 | | |
| 5 | Plastic wares (ex- Name the different plastic wares) | 10 | 2 | | |
| 6 | Toner Cartridges. | 10 | 2 | | |
| 7 | Batteries, etc. | 10 | | | |
| 8 | Gases (ex- tentative names) | 10 | 1.5 | | |
| 9 | Maintenance/AMC/repairing of existing equipment | 10 | 11 | | |
| 10 | Stationery items (ex- name a few) | 10 | 2 | | |
| 11 | IT / software-related Items (Fusion-360 Subscription etc) | 10 | 0.50 | 0.50 | |
| 12 | Furniture (Name the items required during year) | 10 | | | |
| 13 | Electric Items (Name the items required during year) | 10 | | | |

B

FOR NEXT 2-4 FINANCIAL YEARS (2027-30)
(From 01/04/2027 to 31/03/2030)

B (a)

EQUIPMENT

| Sr. No. | Name of Equipment / Item | Quantity (Nos.) | Approximate Cost (Rs. In Lakhs) |
|----------------|---------------------------------|------------------------|--|
| | | | |
| | | | |
| B (b) | CONSUMABLES | | |

| Sr. No. | Category | Expected Procurement Value (Rs. In Lakhs) |
|----------------|---|--|
| 1 | R&D Consumables for closed loop systems (by equipment name) | |
| 2 | Chemicals (ex.- Name the different chemicals like Solvents, Biochemical/s, Biochemical kits & enzymes, Diagnostic kits, Sequencing, Oligonucleotides, etc.) | |
| 3 | Other Consumables (ex- Insecticide, Raw Materials, Packing Material, Column, Syringes, Transcriptome and Metagenome Analysis, Metabolites analyses, Farm Consumables, TLC Plates, Filter papers, Planting materials, seeds, Chemical standards, Essential oils, Standard aroma molecules, Animal feed, Cell Lines, Agriculture accessories, etc.) | |
| 4 | Glass wares (ex- name the different glass wares) | |
| 5 | Plastic wares (ex- Name the different plastic wares) | |
| 6 | Toner Cartridges. | |
| 7 | Batteries, etc. | |
| 8 | Gases (ex- tentative names) | |
| 9 | Maintenance/AMC/repairing of existing equipment | |
| 10 | Stationery items (ex- name a few) | |
| 11 | IT / software-related Items (Name the items required during year) | |
| 12 | Furniture (Name the items required during year) | |
| 13 | Electric Items (Name the items required during year) | |

Note:

- The above procurement plan is dynamic and could be revised as often as may be necessary with the approval of the Competent Authority.
- The procurement of the chemicals & consumables would be based on the need and ongoing requirement of R&D activities of Lab/Instt.
- The procurement is subject to the fund's availability/release of sufficient grant from CSIR / funding agency.
- The indicated procurement value is an estimate only.