

Updated on 19-04-2024

[Name of the Laboratory/Instt/Unit]
PROCUREMENT PLAN*

(*Please read the note given at the end)

| | |
|----------|---------------------------------------|
| A | FOR THE FINANCIAL YEAR 2024-25 |
|----------|---------------------------------------|

| | |
|--------------|------------------|
| 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 | Rotavapour with Chiller | 1 | 4.07 |
| 2 | Water Circulating Chiller | 1 | 1.35 |
| 3 | Histopathology Tissue processor | 1 | 16.00 |
| 4 | Hematology analyzer (Veterinary Mode) | 1 | 40.00 |
| 5 | Embedding Machine | 1 | 12.00 |
| 6 | Surgical stereozoom microscope with camera | 1 | 8.00 |
| 7 | Animal euthanasia chamber (02) | 1 | 1.00 |
| 8 | Multimode Microplate Reader | 1 | 25.00 |
| 9 | PCR Machine (Dual block temp grad) | 1 | 6.50 |
| 10 | Deep Freezer (-20 deg C) | 1 | 1.60 |
| 11 | BOD incubator with shaker | 1 | 1.30 |
| 12 | Swing-bucket plate rotor for Centrifuge (model HERMLE Z36HK) | 1 | 2.50 |
| 13 | Fluorescence Upgradation of Existing Nikon microscope | 1 | 6.00 |
| 14 | Fluorescence Microscope with platform | 1 | 20.00 |
| 15 | UPS for electrophysiology setup | 1 | 1.00 |
| 16 | -80°C Freezer | 1 | 8.00 |
| 17 | Homogenizer | 1 | 2.50 |
| 18 | pH meter (pH/CON 510 benchtop meter, 110/220VAC) | 1 | 1.00 |
| 19 | Cryostat | 1 | 22.00 |
| 20 | Magnetic stirrer (4) | 4 | 4.80 |
| 21 | MillQ equivalent water production unit for Centralized Utility Services | 1 | 4.00 |
| 22 | Biostatistical analysis platform | 1 | 4.00 |
| 23 | Stata Mp 18.0 S/W for GLP data analysis | 1 | 3.00 |
| 24 | Stata MP 18.0 S/W for non-GLP data basic science, clinical trial and machine learning work | 1 | 3.00 |
| 25 | Co2 Incubator | 1 | 6.00 |
| 26 | Refrigerated Centrifuge | 1 | 3.32 |
| 27 | Water Bath | 1 | 0.44 |
| 28 | Hot air Oven | 1 | 0.41 |
| 29 | PH Meter | 1 | 0.24 |

| | | | |
|----|-------------------------------|-----|-------|
| 30 | Analytical Balance | 1 | 0.95 |
| 31 | Multiplate reader (with FL) | 1 | 4.00 |
| 32 | Desktop | 21 | 17.20 |
| 33 | Printer | 13 | 3.80 |
| 34 | Photocopier machine | 1 | 2.20 |
| 35 | UPS Battery server room | 1 | 4.37 |
| 36 | Batteries for Centralized UPS | 1 | 40.00 |
| 37 | Fire Extinguishers | 300 | 28.00 |
| 38 | Stability Chamber-1 | 1 | 75.00 |
| 39 | Probe sonicator | 1 | 10.00 |
| 40 | Single Punch Tablet Machine | 1 | 8.00 |

(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 | Microscope camera | 1 | MMP075201 | 8.00 |
| 2 | Ultra low freezer (-80 degree) | 1 | MMP075201 | 8.00 |
| 3 | Deep freezer (-20 degree) | 1 | MMP075201 | 4.00 |
| 4 | Glove box / Benchtop DNA synthesizer | 1 | FTT070503 | 30.30 |
| 5 | Photodiode array detector for HPLC | 1 | FTT070503 | 12.00 |
| 6 | Rack server with intel Xeon 3.2 GHz processor | 1 | FTT070503 | 7.00 |

(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 | Ultra-high-performance liquid chromatography-high-resolution mass spectrometer (LC-MS system) with accessories | 1 | GAP0003 | 600.00 |
| 2 | Cryo Rack with ventilated system | 1 | GAP0357 | 0.32 |
| 3 | mPAGE mini wet transfer system | 1 | GAP0383 | 0.97 |
| 4 | Rotary set (Rotary evaporator, vacuum pump with controller and chiller) | 1 | GAP0431 | 12.00 |
| 5 | Acoustic detector Spectra Plus SC 2 channel | 1 | GAP0434 | 1.85 |
| 6 | Needle hydrophone | 1 | GAP0434 | 1.60 |
| 7 | HEATING MANTLE | 1 | GAP0440 | 0.28 |
| 8 | Fast Protein Liquid Chromatography (FPLC) system | 1 | GAP0446 | 53.00 |
| 9 | IVOSII-TOX on Windows 10 Pro (computer assisted reproductive toxicology testing/sperm analysis of rat sperm) | 1 | GAP0446 | 70.00 |
| 10 | Refrigerated centrifuge machine | 1 | GAP0446 | 10.00 |
| 11 | Multidetector Microplate Reader | 1 | GAP0446 | 14.87 |
| 12 | Refrigerated incubator shaker | 1 | GAP0446 | 8.50 |
| 13 | Scireq - Flexivent Complete System | 1 | GAP0447 | 32.00 |
| 14 | Scireq-Flexivent | 1 | GAP0447 | 32.00 |
| 15 | Refrigerated Centrifuge with rotors and adapters | 1 | GAP0448 | 10.00 |
| 16 | Western Blot Scanner/Imager | 1 | GAP0448 | 12.00 |

| | | | | |
|----|--|---|---------|-------|
| 17 | Daihan LED Display Orbital Shaking Incubators | 1 | GAP0448 | 4.90 |
| 18 | Centrifuge with Rotors refrigerated centrifuge | 1 | GAP0449 | 7.28 |
| 19 | Desktop computers with accessories including, external storage devices, UPS etc. | 4 | GAP0449 | 2.00 |
| 20 | Storage Freezer (-20°C) | 1 | GAP0449 | 0.90 |
| 21 | Storage refrigerator (4°C) | 2 | GAP0449 | 0.90 |
| 22 | Centrifuge with Rotors | 1 | GAP0449 | 7.28 |
| 23 | Gel Electrophoresis System | 1 | GAP0449 | 2.00 |
| 24 | Weighing Balance | 2 | GAP0449 | 0.71 |
| 25 | Magnetics Stirrer | 2 | GAP0449 | 0.30 |
| 26 | Orbital Shaker | 1 | GAP0449 | 0.88 |
| 27 | Microplate Washer 96 well plate washer | 1 | GAP0451 | 3.98 |
| 28 | Liquid Nitrogen tank with accessories For cell storage | 1 | GAP0451 | 2.00 |
| 29 | Computer workstation | 1 | GAP0456 | 3.00 |
| 30 | Computer workstation, Miner equipments | 1 | GAP0456 | 10.00 |
| 31 | Gas Chromatograph | 1 | GAP0460 | 18.00 |
| 32 | Air Handling Unit for IVCs-AHU | 1 | GAP0462 | 8.00 |
| 36 | 1. Incubator Shaker | 1 | GAP0448 | 28.40 |
| 37 | Refrigerated Centrifuge | 1 | GAP0448 | |
| 38 | Westem Blot scanner | 1 | GAP0448 | |
| 39 | Liquid Nitrogen tank with accessorie | 1 | GAP0451 | 9.97 |
| 40 | Microplate washer | 1 | GAP0451 | |
| 41 | Microcentrifuge | 1 | GAP0451 | |
| 42 | Peristaltic pump | 1 | GAP0452 | 1.50 |
| 43 | 4° C Refrigerator (400 litre, double door) | 1 | GAP0452 | |
| 44 | Heating magnetic Stirrer-2 | 2 | GAP0460 | 18.00 |
| 45 | Recirculating chiller-1 | 1 | GAP0460 | |
| 46 | Gas chromatography-1 | 1 | GAP0460 | |
| 47 | Refrigerator-1 | 1 | GAP0460 | |
| 48 | Desktop and printer-1 | 1 | GAP0460 | |
| 49 | Power pack for western blotting (X2)@80000 each | 1 | GAP0463 | 16.60 |
| 50 | Inverted fluorescent microscope with Z stacking | 1 | GAP0463 | |
| 51 | Vacuubrand vacuum pump with controller-1 | 1 | GAP0465 | 19.90 |
| 52 | Recirculating chiller-1 | 1 | GAP0465 | |
| 53 | Rotary evaporator full set-1 | 1 | GAP0465 | |
| 54 | Refrigerator-1 | 1 | GAP0465 | |
| 55 | Laboratory Electric oven-1 | 1 | GAP0465 | |
| 56 | Rotary Microtome | 1 | GAP0466 | 8.80 |
| 57 | pH meter | 1 | GAP0466 | |
| 58 | Micropipettes Set | 1 | GAP0466 | |
| 59 | Bench Top Shaker Incubator | 1 | GAP0428 | 9.40 |
| 60 | Biophotometer Plus | 1 | GAP0428 | |
| 61 | Spectrophotometer | 1 | GAP0428 | |
| 62 | CO2 Incubator | 1 | GAP0428 | |
| 63 | Protein Gel Running Apparatus | 1 | GAP0428 | |
| 64 | Refrigerated Microcentrifuge | 1 | GAP0428 | |

| | |
|--------------|--------------------|
| 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 1. NMR 2. Mass 3. Electron Microscopy 4. X Ray 5. Biacore | 150.00 | | 50.00 | 200.00 |
| 2 | Chemicals (ex.- Name the different chemicals like Solvents, Biochemical/s, Biochemical kits & enzymes, Diagnostic kits, Sequencing, Oligonucleotides, etc.) | 300.00 | 300.00 | 600.00 | 1200.00 |
| 3 | Other Consumables (ex- Animal Feed, 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.) | 500.00 | 300.00 | 800.00 | 1600.00 |
| 4 | Glass wares (ex- name the different glass wares) | 100.00 | 100.00 | 200.00 | 400.00 |
| 5 | Plastic wares (ex- Name the different plastic wares) | 100.00 | 100.00 | 200.00 | 400.00 |
| 6 | Toner Cartridges. | 40.00 | | 2.00 | 42.00 |
| 7 | Batteries, etc. | 30.00 | | | 30.00 |
| 8 | Gases (ex- tentative names) | 30.00 | | 2.00 | 32.00 |
| 9 | Maintenance/AMC/repairing of existing equipment | 200.00 | 50.00 | 15.00 | 265.00 |
| 10 | Stationery items (ex- name a few) | 45.00 | 5.00 | 5.00 | 55.00 |
| 11 | IT / software-related Items (Name the items required during year) | | | | |
| 12 | Furniture (Name the items required during year) | 25.00 | | | 25.00 |
| 13 | Electric Items (Name the items required during year) | | | | |

| | |
|----------|---|
| B | FOR NEXT 2-4 FINANCIAL YEARS (2025-29) (From 01/04/2025 to 31/03/2029) |
|----------|---|

| | |
|--------------|------------------|
| B (a) | EQUIPMENT |
|--------------|------------------|

| Sr. No. | Name of Equipment / Item | Quantity (Nos.) | Approximate Cost |
|----------------|--|------------------------|-------------------------|
| 1 | LC-MS | 1 | 450.00 |
| 2 | Confocal based super-resolution microscope | 1 | 300.00 |
| 3 | Probe sonicator with cup-horn assembly | 1 | 14.00 |
| 4 | Stereotaxic Instrument for Rats | 1 | 10.00 |
| 5 | Heidolph Mild Steel Vacuum Pump, Air Tank Capacity 2.03 LITER | 1 | 5.00 |
| 6 | stereo microscope | 1 | 2.50 |
| 7 | 64 Channel NVR with (10x4) 40 TB raw storage | 1 | 2.25 |
| 8 | Deep freezer (-20 degree) | 1 | 1.50 |
| 9 | IR | 1 | 1.48 |
| 10 | Oil Radiators | 1 | 1.32 |
| 11 | Hostel CCTV Cameras | 1 | 0.50 |
| 12 | Microscope | 1 | 15.00 |
| 13 | Refrigerator Centrifuge | 1 | 8.00 |
| 14 | Particle Size Analyser | 1 | 84.80 |
| 15 | Single Quadrupole Mass Detector | 1 | 100.00 |
| 16 | Ultra Low Temperature Deep Freezer | 1 | 7.00 |
| 17 | 3D Bioprinting for organ, organoid and tissue printing for replacement or reduction of bioactivity profiling in animal models. | 1 | 30.00 |
| 18 | Camera for fluorescence microscope (Lieca) | 1 | 3.00 |
| 19 | Inverted Microscope | 1 | 5.00 |
| 20 | GloMax® Explorer Multimode Microplate Reader | 1 | 30.00 |
| 21 | High Content Analysis System | 1 | 340.00 |
| 22 | Anaerobic Incubator Cum Workstation | 1 | 15.00 |
| 23 | Fluorescence Microscope | 1 | 25.00 |
| 24 | MS Directed Purification Facility (MSDpF) | 1 | 350.00 |
| 25 | Refrigerated centrifuge for protein applications | 1 | 18.00 |
| 26 | Referigerator incubator shaker | 1 | 5.50 |
| 27 | IVC cage for Malaria work | 1 | 18.00 |
| 28 | Cage changing station | 1 | 4.00 |
| 29 | Upgrade of Existing Nikon fluorescent microscope | 1 | 8.50 |
| 30 | Ice machine | 1 | 7.60 |
| 31 | IVC cage for Filariasis work | 1 | 18.00 |
| 32 | Cage changing station for Filariasis work | 1 | 4.00 |
| 33 | IVC cage for Leishmaniasis work | 1 | 18.00 |
| 34 | Cage changing station | 1 | 4.00 |
| 35 | Water cooler with purifier | 1 | 0.75 |
| 36 | Ice maker machine | 1 | 4.00 |
| 37 | PCR Machine | 1 | 4.00 |
| 38 | IVC cage system for metabolic Disorders work | 1 | 18.00 |
| 39 | qPCR machine for multiple Breast cancer projects (Most essential) There is none in LSN ground floor. | 1 | 15.00 |
| 40 | -80 Freezer (Present one broken down and not repairable) (Most essential) | 1 | 8.00 |

| | | | |
|----|--|---|--------|
| 41 | Multi mode Microplate Reader (There is none in the LSN ground floor) | 1 | 20.00 |
| 42 | Deep Freezer (-20 degree C) | 1 | 1.60 |
| 43 | Biosafety cabinet for cell culture | 1 | 8.00 |
| 44 | Simulated annealing Furnace for Glass Blowing Repairing Work | 1 | 5.00 |
| 45 | Oxygen Generator | 1 | 10.00 |
| 46 | Glass /diamond cutter m/c | 1 | 0.60 |
| 47 | Aluminium alloy rotary vacuum pump | 1 | 2.60 |
| 48 | Multimode Microplate Reader | 1 | 28.00 |
| 49 | Hot air gun | 1 | 0.40 |
| 50 | Refrigerated centrifuge | 1 | 12.00 |
| 51 | Programmable orbital shaker | 1 | 5.50 |
| 52 | Biosafety cabinet for cell culture | 1 | 9.00 |
| 53 | Inverted Fluorescence Microscope | 1 | 25.00 |
| 54 | Refrigerator | 1 | 1.00 |
| 55 | Hot-plate Magnetic Stirrer | 1 | 0.25 |
| 56 | Rotors for Centrifuge | 1 | 0.60 |
| 57 | qRT-PCR machine | 1 | 20.00 |
| 58 | Test-tube rotator | 1 | 0.15 |
| 59 | Water Bath | 1 | 0.25 |
| 60 | VDRL Shaker | 1 | 0.40 |
| 61 | UPS for deep freezer (-80C) | 1 | 2.00 |
| 62 | Hypoxia Chamber | 1 | 3.00 |
| 63 | Air vibration table | 1 | 2.50 |
| 64 | Multiclamp 700A amplifier | 1 | 4.75 |
| 65 | Digidata 1440A Low-noise Data Acquisition System | 1 | 5.00 |
| 66 | Liquid Nitrogen Cryo Container | 1 | 3.00 |
| 67 | Chem-Doc | 1 | 35.00 |
| 68 | Gel Casting Stand & Western Blotting Tank | 1 | 0.50 |
| 69 | Homogenizer | 1 | 2.50 |
| 70 | Shaking Rocker | 1 | 1.00 |
| 71 | Liquid Nitrogen Cryo Container to save stable cell lines | 1 | 6.00 |
| 72 | CO2 regulators (2pcs) | 1 | 0.25 |
| 73 | Circulating Water Bath (Julabo) | 1 | 3.00 |
| 74 | Complete Set-up of Individually Ventilated Cage System | 1 | 35.00 |
| 75 | Micro-Manipulator along with Inverted Microscope | 1 | 50.00 |
| 76 | IVOS-II for CASA (including microscopy) | 1 | 70.00 |
| 77 | Cooling Incubator | 1 | 2.50 |
| 78 | Semidry Transfer Cell | 1 | 3.00 |
| 79 | Powerpack | 1 | 1.00 |
| 80 | Circulating Water Bath | 1 | 2.50 |
| 81 | Camera and PC for Microscope | 1 | 2.30 |
| 82 | Autoclave | 1 | 7.00 |
| 83 | Rotatory shacker | 1 | 0.50 |
| 84 | -20 degree freezer | 1 | 1.20 |
| 85 | Ultracentrifuge with rotors | 1 | 65.00 |
| 86 | Upgradation of of 19-year-old electronics of 300 MHz NMR | 1 | 200.00 |
| 87 | BOD Incubator | 1 | 1.50 |
| 88 | Deep Freezer (-20 degree C) | 1 | 1.60 |
| 89 | UPLC | 1 | 92.00 |
| 90 | Lyophilizer | 1 | 35.00 |
| 91 | Microplate reader | 1 | 24.00 |
| 92 | Spare parts of Rheometer | 1 | 8.00 |

| | | | |
|-----|--|---|-------|
| 93 | Refrigerated centrifuge | 1 | 7.00 |
| 94 | pH meter | 1 | 1.20 |
| 95 | Digital Vortex mixer | 1 | 0.60 |
| 96 | Western blot assembly | 1 | 3.00 |
| 97 | -80 degree refrigerator | 1 | 8.00 |
| 98 | liquid nitrogen tank | 1 | 5.00 |
| 99 | pH meter | 1 | 1.00 |
| 100 | Weighing balance | 1 | 3.00 |
| 101 | UV spectrophotometer | 1 | 7.50 |
| 102 | Vacuum pump for lyophilizer | 1 | 4.00 |
| 103 | BSL-2 biosafety cabinet | 1 | 9.00 |
| 104 | Rocker | 1 | 1.50 |
| 105 | Refrigerator, 500 L | 1 | 0.70 |
| 106 | - 20C Deep Freezer | 1 | 2.00 |
| 107 | Differential Pressure Instrument (3 Nos.) | 3 | 0.50 |
| 108 | Bio safety cabinet | 1 | 4.90 |
| 109 | CO2 Incubator | 1 | 8.00 |
| 110 | High speed centrifuge with rotars | 1 | 12.00 |
| 111 | Sonicator | 1 | 6.00 |
| 112 | Chemi-Doc | 1 | 25.00 |
| 113 | Sonicator | 1 | 15.00 |
| 114 | Nano-Drop | 1 | 15.00 |
| 115 | High Speed centrifuge | 1 | 25.00 |
| 116 | Rotaryevaporator | 1 | 5.00 |
| 117 | Chiller | 1 | 2.50 |
| 118 | -78 oC reaction bath (Julabo) | 1 | 6.00 |
| 119 | Vacuum pump for rotaevaporator | 1 | 2.00 |
| 120 | Water bath | 1 | 2.00 |
| 121 | Differential Pressure Instrument | 1 | 0.50 |
| 122 | Gradient PCR machine | 1 | 5.50 |
| 123 | Multimode plate reader | 1 | 22.00 |
| 124 | Flow Chemistry instrument | 1 | 20.00 |
| 125 | Solvent purification system | 1 | 30.00 |
| 126 | Glove Box | 1 | 40.00 |
| 127 | Aerosol infection equipment | 1 | 65.00 |
| 128 | Programmable chiller with ramping, soaking function (Temp range -20 to 150C) and rotavap | 1 | 8.50 |

| | |
|--------------|--------------------|
| B (b) | CONSUMABLES |
|--------------|--------------------|

| Sr. No. | Category | Expected Procurement Value (Rs. In Lakhs) |
|---------|---|---|
| 1 | R&D Consumables for closed loop systems (by equipment name) 1. NMR 2. Mass 3. Electron Microscopy 4. X Ray 5. Biacore 6. In vivo image analyser | 1000.00 |
| 2 | Chemicals (ex.- Name the different chemicals like Solvents, Biochemical/s, Biochemical kits & enzymes, Diagnostic kits, Sequencing, Oligonucleotides, etc.) | 6000.00 |
| 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.) | 8000.00 |
| 4 | Glass wares (ex- name the different glass wares) | 2000.00 |
| 5 | Plastic wares (ex- Name the different plastic wares) | 2000.00 |
| 6 | Toner Cartridges. | 210.00 |
| 7 | Batteries, etc. | 150.00 |
| 8 | Gases (ex- tentative names) | 160.00 |
| 9 | Maintenance/AMC/repairing of existing equipment | 1325.00 |
| 10 | Stationery items (ex- name a few) | 275.00 |
| 11 | IT / software-related Items (Name the items required during year) | |
| 12 | Furniture (Name the items required during year) | 125.00 |
| 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.