

**[CSIR-SERC]  
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.	Low Strain Pile Integrity Tester	1	8.00
2.	Ultrasonic Pulse Velocity Tester	2	18.00
3.	Digital Rebound Hammer	2	8.00
4.	Resistivity Meter	1	6.00
5.	Rebar Scanner	1	9.00
6.	Ultrasonic Pulse Echo Array	1	50.00
7.	Motorised Hydraulic Power Pack	1	1.50
8.	Concrete Cutting machine Circular upto 400mm wheel with guide	1	2.00
9.	Compressometer device for stress-strain measurements for hardened and fresh concrete with a strain capacity up to $50000 \times 10^{-6}$ strain	1	15.00
10.	Salt-spray test chamber	1	20.00
11.	Tabletop Scanning Electron Microscope (SEM) with Energy Dispersive X-ray Spectroscopy (EDS) Resolution	1	200.00
12.	Field Emission SEM (FE-SEM) with Energy Dispersive X-ray Spectroscopy (EDS) (Resolution - < 2nm or better)	1	450.00
13.	3D (Stereo) Digital Image Correlation (DIC) system equipment for measuring strain in fresh and hardened state of mortar and concrete	1	60.00
14.	High speed Camera with Accessories	1	65.00
15.	Portable Data acquisition system (DAQ)	3 Modulus	50.00
16.	Heavy Duty Vacuum floor cleaner (Heavy test floor, Nafamms Cleaning Purpose)	1	1.50
17.	Industrial air circulator Pedestal fan (600mm & 400rpm)	3	1.50
18.	Weighing Balance 100kg capacity	1	0.20
19.	Magnetic Base steel core drilling machine (max 40mm dia) with drill bit	1	0.50
20.	Heavy Duty Power Saw (Steel Cutting Machine)	1	0.50

21.	Vibration Table (Casting Purpose Size 2mx 1m)	1	2.00
22.	Needle vibrator motor with needle (needle Size 20mm&25mm)	2	2.00
23.	40 channels of hand-held data acquisition system for field measurement with a laptop	1	60.00
24.	Walkie-talkies with a license fee	3	2.50
25.	Dynamic strain conditioner	2	30.00
26.	Accelerometers with accessories	10	30.00
27.	Laser displacement sensors with accessories	10	40.00
28.	Electrically Operated Drum Type Mixer machine (One bag capacity)	1	4.00
29.	Electrically operated Pan Mixer (60kg capacity)	1	4.00
30.	Electrically operated Needle Vibrator 25mm Diameter and 40mm Diameter	2	1.50
31.	Modal shakers with power amplifiers	2	45.00
32.	LCR Meter	1	25.00
33.	Load cells	3	20.00
34.	Insulation tester-Megger	1	2.00
35.	Industrial Vacuum Cleaner (80 Litres)	2	1.00
36.	Rotary Drilling Machine	1	0.50
37.	Professional Blower with dust extraction	1	0.50
38.	Professional Cordless Drill Driver	1	0.50
39.	50 T double-acting Hydraulic Jack and Pump	3	35.00
40.	Two Channel Digital servo controller for Instron $\pm 1000$ kN, $\pm 500$ kN, $\pm 100$ kN & $\pm 50$ kN actuators	1	50.00
41.	Digital servo controller for Walter+Bai $\pm 500$ kN UTM	1	60.00
42.	Hydraulic pump and motor assembly for Moog hydraulic power pack	1	40.00
43.	UPS 10 kVA with batteries	1	4.50
44.	Universal reference load cell 1000 kN	1	20.00
45.	Hydraulic based cross head moving system for reaction frames	1	20.00
46.	1000 kN hydraulic grip assembly for actuators with grip control	1	25.00
47.	Cross beams for reaction frames 5 meter span and knee support	1 Set	25.00
48.	Digital controller for Instron 250 kN UTM	1	25.00
49.	Hydraulic grip assembly for MTS 500 kN UTM	1	100.00
50.	Air compressor	1	4.00
51.	Digital measuring microscope system for crack profile measurement	1	10.00
52.	Industrial wall mounted fans and pedestal fans	LS	3.00
53.	Low temperature environmental chamber and controller	1	8.00
54.	Air-driven high pressure Haskel pump	1	5.00

55.	Welding plant	1	1.00
56.	Servicing and upgradation of existing Long-stroke reaction mass type vibration exciters, related power amplifiers, and accessories for dynamic testing of bridges	4	50.00
57.	Distributed fiber optic based acoustic sensing	1	50.00
58.	High speed data acquisition system with associated software and accessories for strain and temperature measurement in bridges during field testing from fiber optic sensors	1	60.00
59.	Augmentation of channels in existing data acquisition system for high speed strain, displacement and acceleration measurement in bridges during field testing	4	60.00
60.	Optical frequency domain reflectometry for distributed strain and temperature sensing	1	25.00
61.	Rebound Hammer	5	2.00
62.	8 Channel Isothermal Conduction Calorimeter (Heat of Hydration)	1	50.00
63.	Multi-channel high frequency Impedance Analyser	1	50.00
64.	Non contact acoustic emission equipment with data acquisition system, sensors, cables and other accessories	1	50.00
65.	Component for active thermography	1	25.00
66.	Accessories for splicing, cleaning for fiber optic sensors	1 Set	10.00
67.	High precision system for thermal control, with plates and accessories	1 Set	5.00
68.	Compact vacuum degassing system for epoxy polymers	1	3.00
69.	De-mineralized water purifier	1	3.00
70.	Double acting hydraulic cylinders for load application (compatible to the existing enerpac pump)	3	10.00
71.	Digital Weighing Balance (100kg)	1	0.50
72.	Server	1	5.00
73.	Sewer Jetting machine	1	2.00
74.	Power sprayer	1	0.25
75.	Needle vibrator	1	0.10
76.	Earth Rammer	1	0.50
77.	Mosquito Fogging machine	1	0.65
78.	Drum Lifter 350Kg With Lifting Height 1.4m	1	0.70
79.	Angle Grinder	1	0.05
80.	Cordless Impact Drill / Driver	1	0.15
81.	7.2m (24 ft) Portable & Compact Ultra-Stable Aluminium Multipurpose Step Ladder	1	0.15
82.	Aluminium Light Hand Tower Ladder	1	0.10
83.	600 W Corded Electric Drill 0 - 2600 rpm 13 mm	1	0.06
84.	Megger insulation tester 1000V	1	0.10

85.	400A 600V Digital AC Clamp Meter	1	0.10
86.	Digital Earth Resistance Tester with Kit	1	0.13
87.	Light Meter Sampling rate of 2.5 times/second for the digital display	1	0.15
88.	3kVA online UPS (3 hrs. Backup with 4 Feet height stand)	1	0.70
89.	Hyper converged Infrastructure	1 Set	400.00
90.	Campus Wi-Fi	1 Set	70.00
91.	A.V. Boardroom	1 Set	90.00
92.	Workstation	2	25.00
93.	Multi-function printer- Laser	2	2.00
94.	Kit with onboard processing	1	4.00
95.	Lidar with Mapping Camera	1	30.00
96.	250kVA Line Isolation Transformer 440/440delta/star with non-shorting foil between primary and secondary	1	20.00
97.	Additional QuantumX family modules and accessories for existing Data Acquisition System (MX1615B & CX22B modules; AC Power Supply Unit; Firewire connection Cable; Push-in-connectors for QuantumX (16 No. 2 sets))	1	34.00
98.	Controller for pressure testing equipment	1	20.00
99.	50 ton UTM with power packs	1	300.00
100.	Servo-controlled jack	1	25.00
101.	Ultrasonic cleaner for oil filter	1	4.00
102.	Hand drilling machine	1	0.10
103.	Wire / laser- cutting machine	1	10.00
104.	Angle grinder machine	1	0.10
105.	Laser LVDT	2	5.00
106.	Non-contact-based laser displacement sensors	2	15.00
107.	Miniature Force Balances	2	17.00
108.	IMU Units	2	10.00
109.	Sonic anemometer	2	15.00
110.	LiDAR (Light Detection And Ranging) wind measurement system	1	35.00
111.	Laser Doppler Anemometry (LDA)	1	50.00
112.	Hot-wire anemometry system	1	60.00
113.	Desktop Computers	5	12.50
114.	Printer, Scanner	2	5.00
115.	Tachometer	1	2.00
116.	Hand held anemometer	2	0.20
117.	Multi meter	1	0.10

118.	Pallet Truck	2	1.00
119.	SeismoSoft Bundle	1	15.00

<b>(ii) Equipment: Out of CSIR Funded Projects</b>				
Sr. No	Name Category of Equipment/ Vehicle Item	Quantity (Nos.)	Project Number/ Code	Approximate Cost (Rs. In Lakhs)
1.	Pressure Scanner with DTC	1	MMP045201	25.0
2.	Drop testing machine	1	FCP 512401	100.00
3.	Shock test system	1	FCP 512401	200.00
4.	Electrodynamic shaker system with climatic chamber	1	FCP 512401	1400.00
5.	State-of-the-Art RTDCS with Electrical Winches	1	PEF000001	600.00

<b>(iii) Equipment: Out of Externally Funded Projects (EFP)</b>				
Sr. No	Name Category of Equipment/ Vehicle Item	Quantity (Nos.)	Project Number/ Code	Approximate Cost (Rs. In Lakhs)
1	UPV, Resistivity & Thickness gauge	1 Set	SSP 446	8.0
2	Triaxial accelerometers, LVDTs	1 Set	SSP 440	5.0
3	Small Modal/Vibration Exciter setup	1	GAP 63	16

<b>A (b) CONSUMABLES</b>					
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)	789.9	33.0	30	852.9
2	Chemicals (ex.- Name the different chemicals like Solvents, Biochemical/s, Biochemical kits & enzymes, Diagnostic kits, Sequencing, Oligonucleotides, etc.)	24.95	-	-	24.95
3	Other Consumables (ex-Insecticide, Raw Materials, Packing Material, Column, Syringes, Transcriptome and	24.3	-	-	24.3

	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.	17.6	-	-	17.6
7	Batteries, etc.	17	-	-	17
8	Gases (Helium, Co2, etc.,)	-	-	-	-
9	Maintenance/AMC/repairing of existing equipment	146.1	-	-	146.1
10	Stationery items (Registers, Sheet protector, file folders, etc.,)	2.32	-	-	2.32
11	<p><i>IT / software-related Items (Name the items required during year)</i></p> <ul style="list-style-type: none"> <li>• <i>Origin Pro v2023 (software)</i></li> <li>• <i>Spares/software update for existing data acquisition system</i></li> <li>• <i>Computing and communication Spares (HDD/ Mem/ switches /adaptors/mini-routers etc.)</i></li> <li>• <i>Network Management System (NMS) software</i></li> <li>• <i>Website Maintenance (including Security Audit + NIC cloud Hosting)</i></li> <li>• <i>NIC Email services</i></li> <li>• <i>Network maintenance</i></li> </ul>	158	-	-	158

	<i>services (including Rate Contract)</i> <ul style="list-style-type: none"> <li>• <i>Internal and External HDD</i></li> </ul>				
12	Furniture (AC, Almirah, Storage Shelves, Chairs, Book Shelves, etc.,)	30	-	-	30
13	Electric Items (Name the items required during year) <ul style="list-style-type: none"> <li>• <i>DG Panel board and MV Panel Board</i></li> <li>• <i>Electrical Consumables</i></li> <li>• <i>Underground complete electrical lighting systems</i></li> <li>• <i>Electrical junction box (5,10,20 mtrs )</i></li> </ul>	21	-	-	21

**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.