

[CSIR-SERC]
PROCUREMENT PLAN*

(*Please read the note given at the end)

A	FOR THE FINANCIAL YEAR 2026-27
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A (a)	EQUIPMENT
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(i)	Equipment: Out of CSIR Infra Grant
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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 50000×10 ⁻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 ± 1000 kN, ± 500 kN, ± 100 kN & ± 50 kN actuators	1	50.00
41.	Digital servo controller for Walter+Bai ± 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.	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
120.	i9 Desktops	LS	60.00
121.	i7 Desktops	LS	27.00
122.	Workstation	LS	55.00
123.	Auditorium Digital podium etc	LS	50.00
124.	Portable hardness tester	1	5.00
125.	Shock testing machine	1	150.00
126.	Campus wireless network	LS	40.00
127.	Full-Scale Roofing Sheet Uplift Testing Equipment	1	35.00

(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.	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

(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	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

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	789.9	33.0	30	852.9

	equipment name eg. Kits for Illumina sequencer)				
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 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.)	24.3	-	-	24.3
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	<i>IT / software-related Items (Name the items required during year)</i> • <i>Origin Pro v2023 (software)</i> • <i>Spares/software update for existing data acquisition system</i> • <i>Computing and communication Spares (HDD/ Mem/ switches /adaptors/mini-routers etc.)</i>	158	-	-	158

	• <i>Network Management System (NMS) software</i> • <i>Website Maintenance (including Security Audit + NIC cloud Hosting)</i> • <i>NIC Email services</i> • <i>Network maintenance services (including Rate Contract)</i> • <i>Internal and External HDD</i>				
12	Furniture (AC, Almirah, Storage Shelves, Chairs, Book Shelves, etc.,)	30	-	-	30
13	Electric Items (Name the items required during year) • <i>DG Panel board and MV Panel Board</i> • <i>Electrical Consumables</i> • <i>Underground complete electrical lighting systems</i> • <i>Electrical junction box (5,10,20 mtrs)</i>	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.