

[CSIR-SERC]
PROCUREMENT PLAN*

(*Please read the note given at the end)

A	FOR THE FINANCIAL YEAR 2025-26
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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.	Servo Hydraulic Dynamic Universal Testing Machine of 2500 kN	1	800.00
2.	300T Capacity Vibrating Wire Load Cells (to be imported)	20	30.00
3.	Inclinometer with Measuring Range + 30 with resolution 0.001° or lesser and accuracy + 0.1 degree or lesser	2	4.00
4.	Laser Triangulation Displacement Sensor with measuring range 50mm, Laser Class II with measuring rate up to 4kHz with integrated cable of minimum 6m along with DC power supply	2	3.00
5.	3D Ultrasonic Tomography	1	60.00
6.	Lidar	1	50.00
7.	Petrography analyzer for concrete	1	25.00
8.	Industrial Camera - For capturing and processing of high dynamic range images for improved surface damage identification (for lab & field investigations)	2	9.00
9.	Workstation - For data collection and processing the high dynamic range images	1	3.00
10.	Compressometer device inbuilt with displacement and force transducer for normal and high strength concretes with strain capacity up to 50000×10 ⁻⁶	3	15.00
11.	Accelerometer (Uniaxial)	4	10.00
12.	Computer PCI card and software for CTM 3000 KN	1	10.00
13.	G1 PLUS upgradation for existing MTS Power pack	1	35.00
14.	Reaction frame (5m Height 100T capacity) with accessories	1 Set	16.00
15.	Vibration Table (Casting Purpose Size 2mx 1m)	1	3.00
16.	Heavy Duty Vacuum floor Cleaner (Heavy test floor, NAFAMMS Cleaning Purpose)	2	2.50
17.	Needle vibrator motor with needle (needle Size 20mm&25mm)	2	2.00
18.	Automatic Stainless-Steel Sieve Shaker with sieve	1	2.00
19.	Steel Cupboards	6	2.50
20.	LVDT (50mm & 100mm)	4	10.00
21.	Pan mixer (50kg capacity)	1	1.50
22.	Color Printer	1	0.50
23.	Industrial air circulator Pedestal fan (600mm & 400rpm) (Heavy Test floor NAFAMMS)	3	1.50
24.	Anti-vibration table (sturdy base for vibration tests)	1	10.00
25.	Modal/vibration exciter of forces till 500 N	1	15.00
26.	40 channels of hand-held data acquisition system for field measurement with a laptop	1	60.00
27.	Uniaxial accelerometer with cables	15	15.00
28.	UPS 1Kva	10	1
29.	Laser displacement sensors	6	20
30.	Laser levelling equipment (2D/3D)	1	0.50
31.	Wireless vibration sensor with accessories	10	5.00
32.	Motorized Rolling Shutter at Powerpack Room and Diesel Generator Room	3	10.00
33.	Electrically Operated Drum Type Mixer machine (One bag capacity)	1	3.00
34.	Electrically operated Pan Mixer	1	3.00

	(60kg capacity)		
35.	Electrically operated Needle Vibrator 25mm Diameter and 40mm Diameter	2	1.00
36.	Modal shakers with power amplifiers	2	30.00
37.	LCR Meter	1 set	15.00
38.	Load cells	6	40.00
39.	Insulation tester-Megger	1	0.50
40.	Industrial Vacuum Cleaner (80 Litres)	1	0.75
41.	Rotary Drilling Machine	1	0.25
42.	Professional Blower with dust extraction	1	0.25
43.	Professional Cordless Drill Driver	1	0.25
44.	50 T double-acting Hydraulic Jack and Pump	3	35.00
45.	Chiller facility for hydraulic power pack System	1 Set	75.00
46.	Servo Valves for Actuators	4	15.00
47.	Magnetic Core Drilling / Annular Cutter and Accessories	1 Set	6.00
48.	Non-Contact Displacement Sensor	8	10.00
49.	Cross Beams for reaction frames 5-meter span and load distribution beam	1 Set	7.50
50.	Hydraulic oil filtration system	1	10.00
51.	Universal Reference Load Cell 1000 kN	1	20.00
52.	Hydraulic based cross head moving system for reaction frames	1	20.00
53.	1000 kN hydraulic grip assembly for actuators with grip control	1	25.00
54.	Motorized Torque wrench and Torque multiplier with accessories	1	7.00
55.	Computer for analytical studies	5	10.00
56.	Universal accumulator charging kit	1	0.50
57.	Digital Precision Multimeters	2	1.00
58.	Non-contact based displacement / vibration measurement system for bridge applications	1	50.00
59.	Drones with attached visualization and measuring system for condition monitoring of large-scale structures	2	30.00
60.	Distributed fiber optic based acoustic sensing	1	35.00
61.	Optical frequency domain reflectometry for distributed strain and temperature sensing	1	25.00
62.	Data logger for vibrating wire based long term health monitoring with all-weather enclosures	2	25.00
63.	75 Ton Fatigue rated, high precision servo-hydraulic UTM	1	150.00
64.	Data Acquisition systems for strain and displacement measurement (Compatible with existing DAQ)	2	30.00
65.	LVDT of different gauge length (for ongoing R&D projects and ECF projects)	10	15.00
66.	Spare module for Augmentation of existing AE DAQ	LS	24.00
67.	Equipment and accessories for fabrication of indigenously developed sensors (film type and specific size sensors)	LS	5.00
68.	Equipment and accessories for FRP-based composite fabrication and mechanical characterization system	1	50.00
69.	Active Infra-Ref Thermography System	1	23.00
70.	Double acting hydraulic cylinders for load application (compatible to the existing energpac pump)	3	10.00
71.	Wide lens for existing IR thermography system		10.00
72.	Computer systems	10	12.00
73.	Device for porosity measurement of cementitious composites	1	30.00
74.	De-mineralized water purifier	1	2.00
75.	Heavy duty Dehumidifier for sensitive instrumentation/controller rooms	2	2.00
76.	Laboratory stirrer with controlled speed	1	1.50
77.	Weighing Balance (100kg)	1	0.50
78.	Color Printer	1	2.00
79.	Residual stress measurement device (RS-200 residual stress milling guide with accessories, strain indicator and software)	1	40.00
80.	Interactive flow detector (condition assessment of welded joint)	1	10.00
81.	Ultrasonic thickness gauge with probe	1	2.00
82.	Portable hardness and tensile strength tester	1	2.00

83.	Mapping drone with payload, multispectral camera and RKT	1	8.00
84.	Lidar with Camera	1	12.75* (* proposal for revision of cost to Rs. 25 Lakhs)
85.	Chain pulley blocks 1) 1 Tonne 2) 2 Tonne	1 1	0.20
86.	Portable drilling machine with accessories	1	2.00
87.	Initium for pressure measurement & Electronic pressure scanners	1 2	15.00 20.00
88.	Data acquisition module	1	10.00
89.	Sonic anemometer	1	8.00
90.	Non-contact-based laser displacement sensors	2	12.00
91.	LiDAR (Light Detection and Ranging) wind measurement system	1	35.00
92.	Hot-wire anemometry system	1	60.00
93.	Desktop Computers	5	12.50
94.	600 W Impact Drill Kit (100 Pcs)	1	0.06
95.	JIGSAW Professional	1	0.10
96.	ARC Welding Machine, ARC 400, Three Phase	1	0.40
97.	Professional Corded 110 V Planer	1	0.11
98.	Rotary Hammer 1.2 kg (GBH 2.26 DRE + DRILL CHUCK)	1	0.24
99.	Telescopic Ladder - Double sided	1	0.23
100.	Telescopic Ladder - Single sided	1	0.14
101.	Wheel Barrow	1	0.13
102.	Platform Trolley	1	0.15
103.	Scissor lift pallet truck	1	0.75
104.	Chain pulley block - 3 Ton	1	0.16
105.	Digital Vernier caliper	1	0.07
106.	10 KVA UPS	2	10.00
107.	Smart Cooling Rack	1	20.00
108.	Auditorium AV upgradation (Full set up including speakers, mikes, console etc.,)	1 Set	50.00
109.	Streaming Kit and Laptop	1 Set	5.00
110.	e-Scan Open System Book Scanner	1	20.00
111.	Rebound Hammer (This equipment will be useful during lab demonstration on NDT Test)	5	2.00
112.	8 Channel Isothermal Conduction Calorimeter (Heat of Hydration) (This equipment will be useful during lab demonstration to the course participants.)	1	50.00
113.	Electrical spectrum analyzer with tracking generator of range 9KHZ to 7.5ghz	1	9.3
114.	Mechanical (Gear-Drive) Shaping Machine with Accessories	1	4.9
115.	Power Hacksaw Machine with Accessories	1	4.9
116.	RFID Station (Includes RFID gates, tagging system, antenna, kiosk, drop box & interface software)	1	12.00
117.	Barcode Printer	1	0.25
118.	Mortar mixing machine	1	12.00

(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.	3D printer – Polymer	1	FBR 040303	5.00
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	700.00
5.	Sieve shaker	1	HCP-54	1.0
6.	pH meter	1	HCP-54	1.0

7.	Cover meter	1	HCP-54	4.0
(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)
	-NIL-			

A (b)	CONSUMABLES
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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)	698	94	30	822
2	Chemicals (ex.- Name the different chemicals like Solvents, Biochemical/s, Biochemical kits & enzymes, Diagnostic kits, Sequencing, Oligonucleotides, etc.)	1.1	2	-	3.1
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.)	128	38	20	186
4	Glass wares (ex- name the different glass wares)	-	1	-	1
5	Plastic wares (ex- Name the different plastic wares)	-	-	-	-
6	Toner Cartridges.	19	1	-	20
7	Batteries, etc.	15	-	-	15
8	Gases (Helium, Co2, etc.,)	2	3	-	5
9	Maintenance/AMC/repairing of existing equipment	164	-	-	164
10	Stationery items (Registers, Sheet protector, file folders, etc.,)	2	-	-	2
11	IT / software-related Items (Name the items required during year)	64	6	-	70

	<ul style="list-style-type: none"> • <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> • <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) <ul style="list-style-type: none"> • <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> 	124	-	-	124

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.