

CSIR- Central Building Research Institute
PROCUREMENT PLAN FOR THE FINANCIAL YEAR 2026-27

ACSC

EQUIPMENT

(i) Equipment: Out of CSIR Infra Grant

Sr. No.	Name Category of Equipment/ Vehicle Item	Quantity (Nos.)	Approximate Cost (Rs. In Lakhs)
1.	Servo Controlled Actuator	1	30
2.	Humidity chamber	1	5.00
3.	Magnetic Stirrer	1	0.25
4.	Colour printer	1	0.30
5.	Water distillation unit	1	2.00
6.	Extrusion machine	1	32.0
7.	Injection moulding	1	28.0
8.	Environmental chamber	1	37.0
9.	UTM (50KN)	1	10
10.	Polymer extrusion unit	1	20
11.	Impact testing machine	1	5
12.	High Temperature Electric furnace (1600°C)	1	15
13.	Laboratory Autoclave	1	5
14.	Ball mill (10 kg capacity)	1	5
15.	Digital Analytical balance (220 gm)	1	5
16.	Ultrasonicator	1	1
17.	Doubled distilled water apparatus	1	2
18.	Resin blender	1	1
19.	Homogenizer	1	1
20.	Disc Pelletizer	1	5
21.	Load Cell (50 ton)	1	3
22.	Load Cell (100 ton)	1	3
23.	LVDTs (50 mm and 100 mm)	10	5
24.	Concrete Mixture	1	8
25.	Jaw Crusher	1	5
26.	Rheometer and Accessories	1 Set	105
27.	Laptop	2	3
28.	ATENA +GID	1	20
29.	Actuator (1000 kN) and other components and accessories	1 Set	400
30.	GPU Workstation/ Server	1	30
31.	Rheometer with DMA coupled	1	140
32.	3D X-Ray micro-Tomograph	1	600
33.	Workstation	1	6
34.	Printer	1	0.5
35.	LVDT (100/300mm)	4	6

36.	Displacement Laser Sensors(300m)	2	2
37.	DAQ (32 Channels)	1	5
38.	Load cells: (i)5000 KN (ii)4000KN (iii)3000KN	1 1 1	3
39.	Compression moulding hydraulics heating press – 50 Ton	1	8.80
40.	High-Pressure Reciprocating Air Compressor	1	5
41.	Double water distillation unit 2.5 LPH	1	1.5

(ii)	Equipment: Out of CSIR Funded Projects
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Sr. No	Name Category of Equipment/ Vehicle Item	Quantity (Nos.)	Project Number/ Code	Approximate Cost (Rs. In Lakhs)
1.	Adiabatic concrete calorimeter	1	Institute Fund	50
2.	Programmable Vacuum Mixing Unit	1	Institute Fund	9
3.	Auto-Shrink System apparatus	1	Institute Fund	17
4.	Oxygen Permeability Tester	1	Institute Fund	20
5.	Convection laboratory oven	1	Institute Fund	15
6.	Air content meter (Mortar)	1	Institute Fund	5
7.	DSLR Camera	1	Institute Fund	2
8.	Maturity Meter	1	Institute Fund	5
9.	Consistometer	1	Institute Fund	1
10.	Accelerated Curing Tank (for bulk specimens)	1	Institute Fund	15
11.	Length Comparator, Digital	1	Institute Fund / Externally Funded Projects	0.5
12.	Mooney Viscometer	1	Institute Fund	35
13.	Lupke pendulum/bashore resiliometer	1	Institute Fund	10
14.	Durometer	1	Institute Fund	2.5
15.	Compression set apparatus	1	Institute Fund	1
16.	Moving Die Rheometer	1	Institute Fund	10
17.	Brittleness temperature	1	Institute Fund	15
18.	Disc Pelletizer	1	Appropriate Institute Fund/LRF	5
19.	Load Cell (50 ton)	1	Appropriate Institute Fund/LRF	5
20.	Load Cell (100 ton)	1	Appropriate Institute Fund/LRF	5
21.	LVDTs (50 mm and 100 mm)	4	Appropriate Institute Fund/LRF	2
22.	Concrete Mixture	1	Appropriate Institute Fund/LRF	8

23.	Jaw Crusher	1	Appropriate Institute Fund/LRF	5
24.	Rheometer and Accessories	1 Set	Appropriate Institute Fund/LRF	105
25.	Laptop	1	Appropriate Institute Fund/LRF	1.5

(iii)	Equipment: Out of Externally Funded Projects (EFP)
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Sr. No	Name Category of Equipment/ Vehicle Item	Quantity (Nos.)	Project Number/ Code	Approximate Cost (Rs. In Lakhs)
1.	Servo Controlled Actuator	1	GAP 1094	15-25
2.	Accelerometer	2	GAP 1094	3.0
3.	Creep Instrumentations	4	GAP 1094	3.0
4.	Load Cell	2	GAP 1094	3.0
5.	Workstation	1	GAP 1094	5.0
6.	DAQ	1	GAP 1094	8.0
7.	Seismometer	1	GAP 1094	3.0
8.	Pressure Transducer	2	GAP 1094	2.0
9.	Digital Microscope	1	GAP 1094	1.0
10.	Impact Sensor	1	GAP 1094	3.0
11.	Drilling Machine	1	GAP 1094	0.25
12.	Rebound Hammer	1	GAP 0265	
13.	Compression moulding	1	SSP08525	20.50
14.	Shredder	1	SSP08525	10.50
15.	Humidity chamber	1	SSP08525	4.20

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.	Coarse Sand				
2.	Coarse Aggregate				
3.	Cement OPC, PPC				
4.	Admixture				
5.	Strain Gauges				
6.	Steel rebars, Tubes, Channels, Plates				
7.	Textile grids				
8.	Fibers				
9.	Lab Consumables				
10.	Chemicals				
11.	Mineral Admixtures, Fly Ash, Silica Fume, GGBS, micro silica				
12.	Epoxy, Monomers, Polymers				

13.	Fabrications of Setups				
14.	Rebar Couplers				
15.	Small Sensors				
16.	Anchors, Nuts, Bolts				
17.	Welding Rods,				
18.	Cutting Wheels, Grinding Wheels,				
19.	Gloves, Grease, Oil, Goggles,				
20.	Duster, Permanent markers, LED bulbs, Chalks				
21.	Wires, Switches, Electrical Boards				
22.	SSD upgradation,				
23.	Keyboard, Mouse, Web Camera, Mic,				
24.	Camera lens, Camera bags				
25.	Printer Cartridges				
26.	R&D Consumables for closed loop systems (by equipment name eg. Kits for Illumina sequencer)				
27.	Chemicals (ex.- Name the different chemicals like Solvents, Biochemical/s, Biochemical kits & enzymes, Diagnostic kits, Sequencing, Oligonucleotides, etc.) Hydrofluoric acid Sodium chloride Hydrochloric acid Ethanol Sodium hydroxide Sodium silicate Sodium sulphate Magnesium sulphate Isopropyl alcohol	2.0			2.0
28.	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.) Cement				

	Fine aggregates/Sand Coarse aggregates GGBS Face Mask Gloves Apron Filter papers Tissue paper Face shield Zip lock bags	1.0			1.0
29.	Glass wares (ex- name the different glass wares) Mortar pastel Measuring cylinders Beakers (different capacity) Volumetric flask Laboratory bottles Stirring rods Desiccators Petri dishes	1.0			1.0
30.	Plastic wares (ex- Name the different plastic wares) Wash bottles Air tight containers Buckets Trays	0.25			0.25
31.	Toner Cartridges. Canon cartridges	0.25			0.25
32.	Batteries, etc. UPS Batteries	1.0			1.0
33.	Gases (ex- tentative names) CO2 cylinders	0.5			0.5
34.	Maintenance/AMC/repairing of existing equipment -UTM (5 ton.) -Oven	3.0			3.0
35.	Stationery items (ex- name a few) Permanent marker Sticky notes Stapler/pin Battery cell				
36.	Chemicals and glass wares		2.0	3.0	5.0
37.	Chemicals & Consumables Chemical, glasswares, cement aggregates	20			
38.	Chemicals (ex. Different chemicals like Solvents, Biochemical/s, Biochemical kits & enzymes, Diagnostic		3	3	6

	kits, Sequencing, Oligonucleotides, etc.)				
39.	Other Consumables (ex-Aggregates, Steel Plates, Steel Sections, Steel Tubes, Reinforcements, CO ₂ Binding wires, Cement, Sand, Super Plasticizer, Cutting/grinding Blades, Epoxy, latex, Hydraulic Oil, Gear Oil, Bricks, Textiles, FRP, Grids, Adhesives of any , Strain Gauges, Wrench set, Electrical/Strain Gauges Wires, Bolts, Pipes, Nuts, Fabrication of Loading Frame, Test bed, Extension box, Oil Filter, Seal, Pressure Gauge, Crack Meter, DPT Kit, Welding Gauge, Welding Rods, Adhesive Tapes, White Putty, Water Pipe, Cotton/Coir bags, Paints, Primer, POP, Brushes, Oil, Moulds, Bolt and Nuts, Chain Pulley, Sensors-Humidity, Thermal, Temp, Creep Setup fabrication , Flat Jack, Flat Plates, Hyd. Pipes, Couplers, U Bolts, Anchors, Chemicals, Injection able Adhesives, Grease , Steel/Concrete Drill Bits, Anchor Rods/Bolts, Hinges, Water Pump, Trowel Set, Spade, Scoop, Gloves, Shoes, Helmets, Masks, Goggles, Safety Nets, Safety Guard Dress, Lab Coats, Aprons, heating elements, Coils, Fibres, Mineral Admixtures, Graphene, Glass wool, Steel Wool, Computer Accessories, Acrylic Sheets, Steel Mesh, Plywood, Power Banks, Dongle, Wires, IOT Sensors with DAQ, Boards, Mobiles, White board, Notice board, Sodium Hydroxide, Sodium silicate, Pigment, GGBS, Fly Ash, Realising Agents, Sand,		2	2	4

	Coarse Sand, Aggregates, Gunny Bags, Ziplock Bags, HDPE Bags, LDPE Bags, Filter, Paper, Tongs, Clams, Spatula, Scoop, Flat Spoon, Spoon Spatula, Ointment Spatula, Scoop, Blunt Dissecting, Examination Gloves, Mask, PPE kit, Lab Safety Shoes, Lab Safety hat, R&D Raw Materials, Round PP Disposable Cap, etc.)				
40.	Plastic wares (ex- Name the different plastic wares)				
41.	Toner Cartridges.		0.20	0.20	0.40
42.	Batteries, etc.		0.20	0.20	0.40
43.	Gases (ex- tentative names)				
44.	Other Consumables (Aggregates, Steel Plates, Steel Sections, Steel Tubes, Reinforcements, Binding wires, Cement, Sand, Super Plasticizer, Cutting/grinding Blades, Welding Rods, strain gauges with wires, Steel Bolts and rods)				10
45.	Maintenance/AMC/repairing of existing equipment				
46.	Stationery items (ex- name a few)		0.10	0.10	0.20
47.	IT / software-related Items (ATENA Full +GiD)		20	0	20
48.	Furniture (Name the items required during year)				
49.	Electric Items (Name the items required during year)				
50.	Other IT / software-related 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.

BMES

A (a)	EQUIPMENT
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(i) Equipment: Out of CSIR Infra Grant			
Sr. No.	Name Category of Equipment/ Vehicle Item	Quantity (Nos.)	Approximate Cost (Rs. In Lakhs)
1	Lyophilizer freeze dryer	01	20.00
2	Manual carbonation chamber with cylinder and CO ₂ detector fitted with it	01	12.00
3	Portable/ Benchtop Potentiostat/ Galvanostat	01	27.00
4	Shredder machine for crushing solid scrap samples into fine particle	01	10.00
5	Powder grinding machine	01	10.00
6	TDS, pH, Ionic conductivity meter, other minor physical parameter measurement instrument	01	0.50
7	Mixer grinder	01	0.10
8	Electric water boiler (Glass) transparent	01	0.10
9	DC source 1-12 volts with digital voltage, ampere readings	01	0.50
10	Multimeter for Volts/Amp Measurement reading	01	0.10
11	Milli Q water system	01	8.00
12	X-ray Fluorescence (XRF)	01	100.00
13	X-ray diffractometer (XRD)	01	180.00
14	Differential Scanning Calorimeter (DSC)	01	50.00
15	Deep freezer	01	12.00
16	Isothermal Calorimeter	01	40.00
17	Rheometer	01	30.00
18	MIP	01	75.00
19	Oven	01	1.8
20	Heat press machine for compression of thin film rectangle sheet etc.	01	3.9

21	Adhesion tester Pull off	01	3.5
22	Refracto-meter for refractive index measurement	01	2.9
23	EDX	01	30
24	Gold sputter coater	01	10
25	Temperature data logged system	01	10
26	Double distillation plant	01	1
27	12v 26Ah batteries foe UPS FESEM	16	0.70
(ii)	Equipment: Out of CSIR Funded Projects		

Sr. No	Name Category of Equipment/ Vehicle Item	Quantity (Nos.)	Approximate Cost (Rs. In Lakhs)
1.	Nano silica plant (contain agitator vessel, plate & frame filtration unit, mechanical stirrer etc.)	01	10.00
2.	Dryer	01	1.00
3.	Planetary ball mill	01	2.00
4.	Spray dryer	01	6.00
5.	Oven	02	1.50
6.	De-ionized water plant	01	1.00
7.	CO ₂ cylinders	10	1.00
8.	Weighing balance	03	0.1 /each
9.	Mechanical stirrer	05	0.1 /each
10.	Furnace	01	1.5
11.	Sonicator	02	0.2 each
12.	Magnetic stirrer	05	0.1 each
13.	Fabrication of multiple agitator vessel	01	0.5
14.	pH meter	05	0.1 each

(iii)	Equipment: Out of Externally Funded Projects (EFP)			
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Sr. No	Name Category of Equipment/ Vehicle Item	Quantity (Nos.)	Project Number/ Code	Approximate Cost (Rs. In Lakhs)
1.	Laptop	01	New project	Rs 1.00
2.	Printer	01	New project	Rs. 0.50
3.	Laptop	01	Central equipment lab fund	Rs.1.00

CONSUMABLES

Sr. No.	Category	Expected Procurement Value (Rs. In Lakhs)		
		Out of CSIR Infra Grant	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)	-	-	-
2	Chemicals (ex.- Name the different chemicals like Solvents, Biochemical/s, Biochemical kits & enzymes, Diagnostic kits, Sequencing, Oligonucleotides, etc.)	<p>10.00</p> <p>Carbon dioxide cylinders with regulators and refilling charges, spraying and atomizing units along with nozzles, hoses, valves, and fittings for carbonation curing, essential chemicals such as phosphoric acid, hydrogen peroxide, glycerol, glycerin, polyvinyl alcohol powder, acetone, ethanol, isopropanol, and other laboratory-grade solvents and reagents, heating elements, thermocouples, glassware including beakers, flasks, measuring cylinders, pipettes, petri dishes, crucibles, and storage bottles, processed aluminum waste, raw materials like fly ash, ground granulated blast furnace slag, slag waste, cement and alternative binders, coarse and fine aggregates for mortar and concrete preparation, enamel trays and sample collection containers, fasteners including wires, bolts, nuts, washers, screws, steel plates, rebars, and other miscellaneous</p>	<p>Rs. 0.25</p> <p>Lab safety, Wears (Apron, gloves & mask etc.)</p>	10.25

		hardware items, as well as laboratory safety consumables and personal protective wears.		
3	Glass wares (ex- name the different glass wares)	08.00 Glassware used in Lab, electrolytic cell compartment/chamber fabrication, filtration/distillation evaporation unit of glass component	-	8.00
4	Plastic wares (ex- Name the different plastic wares)	03.00 Tray, bucket, various mould, tub, plastic laminated sheet etc	-	3.00
5	Toner Cartridges.	2.00 Toner B & W, coloured	-	2.0
6	Batteries, etc.	2.0	-	2.00
7	Gases (ex- tentative names)	4.00 N ₂ , CO ₂	-	4.00
8	Maintenance/AMC/repairing of existing equipment	3.00 Fridge, AC, Oven, distillation unit	-	3.00
9	Stationery items (ex- name a few)	2.00 register, knife gum, duster, file, stapler, pin, highlighter seal, ink etc	Rs. 1.50 Notepads, diaries, markers, L folder, ream, files, stationary items, etc.	3.50
10	IT / software-related Items (Name the items required during year)	1.00 Antivirus, MS word etc	-	1.00
11	Furniture (Name the items required during year)	2.50	-	2.50
12	Electric Items (Name the items required during year)	10.0 Kettle, microwave oven, dryer, air conditioner, Fan, electric extension, LED bulb, Table fan, digital clock (time, temp, humidity CO ₂ , other various parameter), etc	-	10.00

GEGH

Tentative Annual Procurement Plan for Year 2026-27 (GEGH Group)

S.No	Equipment Name	Quantity	Approximate budget
1.	FBG interrogator and sensor system	01	Rs. 65.00 lakhs
2.	Cyclic simple shear apparatus	01	Rs.1.90 Crore
3.	Bi-axial shake table (5m × 5m) 10 T capacity	01	Rs.18.00 Crore
4.	Uniaxial Compression Machine for rock cores testing, along with sample preparation accessories	01	Rs. 2.50 Crore
5.	Fredlund SWCC equipment	01	Rs. 40.00 lakhs
6.	Seismograph - 24 Channel or higher (MASW)	01	Rs. 55.00 Lakhs
7.	Ground Penetrating Radar (shielded and Unshielded antennae with various frequencies)	01	Rs. 1.30 Crore
8.	Electrical Resistivity Tomography (2D and IP)	01	Rs. 1.00 Crore
9.	Schmidt rebound hammers: N-type & L-type	01+01	Rs. 20 Lakhs
10.	Digital geological compass (high accuracy)	01	Rs. 0.75 Lakhs
11.	Core drill	01	Rs. 5.50 Lakhs
12.	Rock saw (diamond blade): precision lab saw (automatic feed)	01	Rs. 8.00 Lakhs
13.	Core trimmer and grinding machine: combined unit	01	Rs. 6.00 Lakhs
14.	Tilt Test Apparatus with digital/motorised tilt table	01	Rs. 4.00 Lakhs
15.	Barton's Comb (Profilometer);		Rs. 0.50 Lakhs
16.	2D DIC upgradation accessories	01	Rs.10.00 lakhs
17.	Small Value Apparatus, Instruments, and Accessories etc, Sensors - Pore Pressure (4 Nos.), Acceleration (4 Nos.), Soil Moisture (4 No.), Earth Pressure Cell (4 nos.), and Strain Gauges, Lab Chemicals	Various	Rs.40.00 lakhs
18.	Load cell		Rs.10.00 lakhs
19.	Triaxial system	01	Rs. 5.00 lakhs
20.	Environmental chamber for Geosynthetic Machine	01	Rs. 50.00 lakhs
21.	Temperature Controlled Direct Shear System	01	Rs. 30.00 lakhs
22.	Workstation	02	Rs.15.00 lakhs
23.	Online UPS 2 KVA	02	Rs. 1.0 lakhs
24.	Online UPS 6 KVA	01	Rs. 1.0 Lakhs
25.	Ground vibration monitoring Standard Triaxial Geophones	04	Rs. 26.0 Lakhs
26.	Laptop	01	Rs. 1.5 Lakhs
27.	Different sensors Accelerometer (10 nos), laser displacement sensor (05 nos)		Rs. 10.00 lakhs
28.	Strain gauges		2.00 lakhs
29.	Lab consumables		3.00 lakhs
30.	Geogrid/geotextiles/geomembrane		20.00 lakhs
31.	Experimental fabrications		15.00 lakhs
32.	Geophones	05 nos	15.00 lakhs
33.	Res 2D (Multi User Licence)	01	Rs.10.00 Lakhs
34.	ArcGIS (Multi User Licence)	01	Rs. 30.00 Lakhs
35.	Remote sensing software (Multi User Licence)	01	Rs. 35.00 Lakhs
36.	RAMMS (Multi User Licence)	01	Rs. 8.00 lakhs
37.	Geo 5 (Multi User Licence)	01	Rs. 30.00 Lakhs
38.	Geo Slope (Multi User Licence)	01	Rs. 40.00 Lakhs

39.	Fabrication of a reaction frame for existing test facility in GeoTech Lab	01	Rs. 1.08 Lakhs
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HSS**EQUIPMENT****(i) Equipment: Out of CSIR Infra Grant**

Sr. No.	Name Category of Equipment/ Vehicle Item	Quantity (Nos.)	Approximate Cost (Rs. In Lakhs)
1.	Antenna for GPR	01	70
2.	3D Terrestrial Laser Scanner with accessories and processing software suite/plug-in	01	60
3.	3DEC	01	50
4.	Test Setup for compression, flexure, shear of bricks/stone masonry	01	80
5.	CTM 200 ton	01	25
6.	Portable DAQ	01	25
7.	Vibration Shaking Table	01	20
8.	Accelerometers, Load cells, Strain Gauges, Pressure Sensors etc	01	30
9.	Gate for Flash flood simulator	01	10
10.	Sensors (Load cells, Earth pressure cells, Accelerometer, Pore Pressure Sensors, Potentiometers, Test Setups, Fabricated Setup)	-	10
11.	SHM Setup for Historic Masonry and Tall Buildings	01	150
12.	Ultrasonic Imaging setup for metals (Phased array)	01	30
13.	Pix 4D/Metashape/Other software	01	04
14.	Ambient Vibration Measurement system	01	100
15.	LIDAR processing Software	01	10
16.	Fabrication of Laboratory Loading and Testing Setups	01	20
17.	High Resolution RGB Camara	04	06
18.	Handheld Portable GPR Scanner	01	50
19.	Hydraulic actuators	01	150
20.	DigiMaT Software	02	50
21.	3D- Digital Image Correlation (DIC) system	01	100
22..	Handheld EM wave-based Scanner	01	20
23.	STAAD Pro. Software	01	5
24.	ETABS Software	01	05

25.	Tables & Chairs for CoE on Heritage		6
26.	Server, High end workstation, Computers, All in One, UPS, Printer	01	35
27.	Data collection system for monitoring	02	06
28.	Geophone with data logging arrangement	01	18
29.	3D Printer	01	3
30.	Metal Detector	01	5
31.	Computers	04	2.5
32.	Printers	04	1
33.	Lab Air Conditioners	03	1
34.	UPS	03	10
35.	Oscilloscope	01	03
36.	Concrete/Lime Mixer Machine	01	2
37.	DC Regulated Power Supply	02	1
38.	Half Cell Potential	02	14
39.	Power Amplifier	01	10
40.	Laboratory minor equipment's (Fan, exhaust fan, wood planer, Bar locator, battery charger, distance meter, power supply, 3phase motor, trolley, strain gauges)	-	5
41.	Other necessary minor instruments (Core cutting machine, Steel Cutter, Grinder, Drilling machine, Color meter, moisture meter, stone cutter, grinder, DSLR camera, humidity chamber etc.)	-	10
42.	Blast Load simulator	01	60
43.	Load Cell Range 0-30 Tons	01	05
44.	High Speed Camera (30,000 fps, 320x256 pixel resolution, ISO 5000, 4GB)	01	85
45.	Oscilloscope (500 MHz, 5 GSa/s, 30 MHz-ARB, 4 channels)	01	10
46.	Dynamic Spectral Analyzer (25.6 kHz-4 channel, 90 dB, 6 Ms)	01	8
47.	Signal conditioner (8 channels, +/-10V, 30 kHz)	01	8
48.	Power Amplifier (150V, 70 kHz,-3dB)	01	9
49.	Linear stage (X-Y axis) (1 meter slide, 25 rotation/2.5	01	3

	cm)		
50.	MEMS High-G Shock Accelerometers (0-20000g, 60 kHz)	01	16
51.	High Frequency, General Purpose Pressure Sensors (345 kPa, 500 kHz)	01	16
52.	Preamplifier 1/4" Free-field Microphone (6 Hz to 20 kHz, Pre-polarized)	01	16
53.	High Frequency, General Purpose Force Sensors (20 KN, 100 kHz)	01	8
54.	High Frequency, Piezoelectric strain sensors (50mV/ μ strain, 10,000 g pk)	01	8
55.	Time-of-arrival, ICP [®] Micro-pressure Sensors (345 kPa, 100 kHz)	01	8
56.	Ballistic peak pressure monitoring system (Voltage gain 0.1-1000, 50 kHz)	01	10
57.	Piezo-Actuator (35 μ m- stroke length, 50 kHz-resonating frequencies)	01	11
58.	Academic licence (Annual Subscription based) of LS-DYNA	01	8
59.	Ballistic Gas Gun	01	50

(ii)	Equipment: Out of CSIR Funded Projects
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Sr. No	Name Category of Equipment/ Vehicle Item	Quantity (Nos.)	Project Number / Code	Approximate Cost (Rs. In Lakhs)
	Instrumentation/ specialized Fabrication: Highly sensitive Sensors such as pressure sensors, accelerometers, and LVDTs etc.	-	New Project	10
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(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	01	SSP1373,	6
2.	Deep Freezer	01	GAP 311	0.25

3.	Airflow Cabinet	01	GAP 11625	1
4.	Half Cell Potentiometer	01		8
5.	Incubator Shaker	01		1
6.	Spectrophotometer	01		0.4
7.	Drone for building g monitoring	01		4
8.	Autoclave	01		0.25
9.	Computers	04		10
10.	Printers	04		1
11.	Air Conditioner	03		1

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)	10	01	03	14
2	Chemicals (ex.- Name the different chemicals like Solvents, Biochemical/s, Biochemical kits & enzymes, Diagnostic kits, Sequencing, Oligonucleotides, etc.)	05		05	10
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.)	02		05	07
4	Glass wares (ex-	02			02

	beakers, flask, test tubes etc.)				
5	Plastic wares (ex- PLA, ABS etc.)	02			02
6	Toner Cartridges.	01		02	03
7	Batteries, etc.	01			01
8	Gases (ex-N2)	01		01	02
9	Maintenance/AMC/repairing of existing equipment	02			02
10	Stationery items (ex- files, pens, notebooks etc.)	01		01	02
11	IT / software-related Items (MS Office, Anti-virus etc.)	05		05	10
12	Furniture (Tables, Chairs etc.)	30		05	35
13	Electric Items (Air Coolers, Air Conditioners, UPS, extension cable, cables etc.)	1		1	2
14	R&D consumables: raw material for concrete, technical textile, steel wire mesh, etc.	5		7	12

B	FOR NEXT 2-4 FINANCIAL YEARS (2026-30) (From 01/04/2026 to 31/03/2030)
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B(A)	EQUIPMENT
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Sr. No.	Name of Equipment / Item	Quantity (Nos.)	Approximate Cost (Rs. In Lakhs)
1.	Boundary Layer Wind Tunnel	01	750
2.	Closed Loop Pneumatic Pressurization System with Digital Controller for Testing of Facades under Simulated Wind Pressure	01	500
3.	2 kW Wind Turbine with Generator	01	10

4.	Lab Furniture (Stool, Table, storage, chair etc.)	-	1
5.	Laboratory minor equipment's (Fan, exhaust fan, wood planer, Bar locator, battery charger, distance meter, power supply, 3phase motor, trolley, strain gauges)	-	2
6.	Other necessary minor instruments (Core cutting machine, Steel Cutter, Grinder, Drilling machine, Color meter, moisture meter, stone cutter, grinder, DSLR camera, humidity chamber etc.)	-	4
7.	Shock Tube and Blast Testing Facility (length-5m, 3 km/s, and caliber-20 cm)	01	150
8.	Load Cell Range 0-30 Tons	01	12
9.	High Speed Camera (30,000 fps, 320x256 pixel resolution, ISO 5000, 4GB)	01	75
10.	Oscilloscope (500 MHz, 5 GSa/s, 30 MHz-ARB, 4 channels)	01	10
11.	Dynamic Spectral Analyzer (25.6 kHz-4 channel, 90 dB, 6 Ms)	01	8
12.	Signal conditioner (8 channels, +/-10V, 30 kHz)	01	8
13.	Power Amplifier (150V, 70 kHz,-3dB)	01	9
14.	Linear stage (X-Y axis) (1 meter slide, 25 rotation/2.5 cm)	01	3
15.	MEMS High-G Shock Accelerometers (0-20000g, 60 kHz)	01	16
16.	High Frequency, General Purpose Pressure Sensors (345 kPa, 500 kHz)	01	16
17.	Preamplifier 1/4" Free-field Microphone (6 Hz to 20 kHz, Pre-polarized)	01	16

18.	High Frequency, General Purpose Force Sensors (20 KN, 100 kHz)	01	8
19.	High Frequency, Piezoelectric strain sensors (50mV/ μ strain, 10,000 g pk)	01	8
20.	Time-of-arrival, ICP® Micro- pressure Sensors (345 kPa, 100 kHz)	01	8
21.	Ballistic peak pressure monitoring system (Voltage gain 0.1-1000, 50 kHz)	01	10
22.	Piezo-Actuator (35 μ m-stroke length, 50 kHz-resonating frequencies)	01	11
23.	Academic licence (Annual Subscription based) of LSDYNA	01	6

CONSUMABLES

Sr. No.	Category	Expected Procurement Value (Rs. In Lakhs)
1	R&D Consumables for closed loop systems (by equipment name)	50
2	Chemicals (ex.- Name the different chemicals like Solvents, Biochemical/s, Biochemical kits & enzymes, Diagnostic kits, Sequencing, Oligonucleotides, etc.)	30
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.)	20
4	Glass wares	10
5	Plastic wares	10
6	Toner Cartridges.	05
7	Batteries, etc.	05
8	Gases	05
9	Maintenance/AMC/repairing of existing equipment	30
10	Stationery items (ex- name a few)	10
11	IT / software-related Items (Name the items required during year)	20
12	Furniture (Name the items required during year)	50

13	Electric Items (Name the items required during year)	10
14	R&D consumables: raw material for concrete, technical textile, steel wire mesh, etc.	20

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.

FSE

Tentative Annual Procurement Plan for Year 2026-27				
Sr. No	Name	Quantity (Nos.)	Cost (Lakhs)	Application
1	Electrospinning unit	01	36.00	Insulating mats and membranes
2	Sputtering unit	01	80.00	Metal/oxide coatings on polymer or ceramic substrates
3	Humidity Chamber	01	20.00	Samples conditioning
4	Freeze Dryer	01	50.00	Fire-retardant, Thermal insulation & absorbent
5	Tube furnace in control atmosphere upto 1700 degree Celsius	01	20.00	Heat treatment of different material, material synthesis, development of new material etc.
6	Setup of displacement monitoring with non-contact sensor with DAQ	01	25.00	Monitoring of displacement of test samples with non-contact sensors during fire test
7	UPV and RH	01	10.00	For evaluating the condition of fire damaged elements
8	NBS smoke density Chamber (ISO 5659-2) with FTIR (EN17084)	01	170	
9	Cone calorimeter	01	90	
10	Lateral spread of flame test apparatus (ISO 5658-2)	01	45	
11	Distilled water Apparatus	01	2	
12	500 li capacity air compressor	01	4.5	
13	Smoke Density Tester	01	1	
14	Rheometer	01	20	

APEE

Sr. No	Name	Quantity (Nos.)	Approximate Cost (Rs. In Lakhs)	Application
1	Solar Photo Voltaic Panels 5 KW,	1 nos	2.0	
2	Small-scale wind turbines 2 KW,	1 nos	5.0	
3	IoT-enabled inverters 5KVA	5 nos	5.0	
4	IoT sensors	20 nos	5.0	
5	Microcontrollers and communication modules (e.g., Wi-Fi/GSM) for IoT networking	5 nos	5.0	
6	(PHIL) testing systems	1 nos	5.0	
7	High-performance computing servers with GPUs	1 nos	10.0	
8	Battery testing equipment & Software	1 nos	5.0	
9	NdFeB magnets and other suitable magnets, Active Magnetic Regenerator (AMR), Heat Exchanger, Flow meter, VSM, Squid Magnetometer, Physical property measurement system, Adiabatic Magnetocaloric Measurement Setup, Gaussmeter/Hall Probe, controller, DC Supply, 3D printer, 3D scanner, COMSOL software or other suitable software, data acquisition system, and precision chillers and other minor equipment.	-	15	Essential for generating, quantifying, and simulating magnetic fields, regenerator prototyping, thermal modeling, and obtaining accurate experimental data, thereby ensuring the successful design, fabrication, and evaluation of the magnetocaloric cooling prototype. Also these funds will be utilised for procurement of other minor equipment as per need.

CAR

Sr. No	Name	Quantity (Nos.)	Approximate Cost (Rs. In Lakhs)
1	Welding Machine (All in one machine)	1	1.5
2	Lathe Machine	1	5
3	Milling machine	1	5
4	Centerless surface grinder	1	4

STRUCTURAL ENGINEERING

Sr. No	Name	Quantity (Nos.)	Approximate Cost (Rs. In Lakhs)	Application
1	Workstation, instrumentation (LVDT, load cells, DAQ system, vibration sensors)	-	10	For capturing load–deformation response, dynamic characteristics, and failure mechanisms during full-scale seismic testing.
2	Servo Hydraulic Actuator system by authorized service engineer	-	0.7	

List of to be Procure from Ongoing R&D Projects (CSIR Funded)

Project No.		Project Title	
MMP055202		Assessment and Mitigation Strategy for Geo-Hazard in the Himalaya (AMOGH)	
Sr. No.	Name Of Equipment(s)	Approx Cost of Equipment(s)	Justification
1.	Microtremor Measurement System	24,00,000	For quick seismic site characterization using ambient noise measurement
2.	MASW system	51,00,000	Dynamic site characterization
3.	Minor Equipment and workstations	20,00,000	Load cells, accelerometers, displacement transducers, etc., for small-scale laboratory experiments and workstations for numerical simulations

Project No.		Project Title	
MMP015203		CSIR League for AI-Based Industrial Manifestation (CLAIM)	
Sr. No.	Name Of Equipment(s)	Approx Cost of Equipment(s)	Justification
1.	3 Work Station	20,00,000	4 Workstation for 3D numerical analysis of geostructures, training of AI models, etc.
2.	OPTUM Software	15,00,000	Numerical analysis software

Project No.		Project Title	
MMP045201		Smart Village	
Sr. No.	Name Of Equipment(s)	Approx Cost of Equipment(s)	Justification
1.	Workstation	5,00,000	This equipment will be deployed in the rented office room in each village (6 No.)
2.	Laptop	3,00,000	
3.	Display Unit	5,00,000	
4.	Printer Colour & BMW (A4-A3 Page)	2,00,000	
5.	Wi-Fi Routers	15,000	
6.	Online UPS (3 KVA)	1,00,000	
7.	Cam	3,000	
8.	Mic & Speaker	20,000	
9.	Office Table	40,000	
10.	Office Chair	20,000	
11.	Office File Racks.	40,000	
12.	Fan & Cooler	20,000	
13.	Digital Rebound Hammer	10,00,000	Required for conducting non-destructive testing of village infrastructure, including schools, Anganwadis, primary health

14.	Ultra Pulse Velocity Advance	26,00,000	centres (PHCs), and other facilities, to assess retrofitting requirements.
15.	Resistivity Meter	11,00,000	
16.	Half Cell Potential meter	24,00,000	
17.	Moisture meter	12,00,000	
18.	Rebar Locator Cover Meter	26,00,000	
19.	Core Cutter	5,00,000	
20.	Hammer Drill Machine	2,52,000	
21.	Weather Monitoring Station	90,00,000	
22.	Microclimate monitoring Devise thermal comfort like WBGT and Tg	12,00,000	Building retrofitting done by CSIR-CBRI side should ensure thermal comfort like cool roof and other structural components.
23.	Temperature Sensors and thermal Imager	18,00,000	For monitoring difference of indoor and outdoor temperature.
24.	COMSOL 3D Modelling Software	50,00,000	For village Cooling and Climate Adaptive Planning
25.	Block and Brick Making Machine	18,00,000	For deployment across six villages, making use of locally available resources for construction