

CSIR- Central Glass & Ceramic Research Institute

Procurement Plan

[Financial Year 2025-26]

[A] Equipment:

Table 1: Equipment for procurement during the FY 2025-26 and subsequent 3 – 5 years (under **Non-project mode**; out of **CSIR Grant / Lab Grant**):

Financial Year 2025-2026		
S. No.	Name of Equipment / Item	Approximate Cost (Rs. in Lakhs)
4M		
1	Waveform generator >100 MHz, Amplifier 50 V pp, GPIB interface	9.00
2	Source Meter	8.00
3	10 KVA UPS for Rigaku XRD System	5.00
4	Turbomolecular Pump (TMP) for FIB- 1 no. (Shifted to P07)	15.00
5	Vacuum Cleaner	0.20
6	Mercury Intrusion Porosimeter	70.00
ACCD		
1	Glove box	15.00
2	Atomic force microscope	98.00
BMDD		
1	Xolography Based Volumetric 3D Printing System	24.00
EMDD		
1	ISA-220 Integrating Sphere for EVO 220/260/One Plus with accessories	10.40
2	Gas chromatography instrument with tcd-methanizerfid for analysis of h2, n2, o2, co, co2, methane and hydrocarbons upto c6	44.50
3	<i>COMSOL Multiphysics Software includes: Comsol Multiphysics Base Package, Design Module, CFD Module, Structural Mechanics Module, Optimization Module, Fuel Cell & Electrolyzer Module</i>	25.00
FMDD		
1	Micro-volume Analyte Concentration and Purity Analyzer	16.00
2	High Resistance Measurement unit including electrometer, sourcemeter and software	22.00
3	20 Kg Force Gauge	0.20
FOPD		

1	Photodiode	3.50
2	Oscilloscope	4.00
3	Power Meter / Sensor Meter Display	4.00
4	Laser Power Sensor and Power Meter (10 W)	2.50
5	40 kVA online UPS with external batteries	7.00
6	Exhaust system with motors and scrubber system	15.00
MSTD		
1	Total Organic Carbon (TOC) Analyser with auto sampler	16.50
2	Fluorimetry-based uranium analyser	10.00
3	Ceramic support tube extruder	18.00
RTCD		
1	Control Atmosphere Furnace (1600C)	15.00
2	Hot Modulus of Rupture Apparatus (1400C)	10.00

SGD		
1	Scattered light polariscope	15.00
2	Magnetron Sputtering Unit	15.00
3	Glass Cutting Machine	6.00
4	Magnetic separator rod	2.50
5	Vibrating table	4.00
6	<i>Armor Glass Lamination Machine. Operation Temperature 220 deg C. Vacuum Bag & Vacuum pump Will be used</i>	17.50
Central F/C		
1	Movable mould heating system	2.50
2	Gas manifold system -two nos.	1.50
Central WS		
1	CNC Lathe	36.00
Compumat Grp		
1	42U Rack Enclosures Networking/Server Rack.	1.30
IITD		
1	Desktops – 44 Nos.	44.00
2	Laptops – 1 no Mac.	1.00
3	Printers-cum-scanners – 2 Nos.	0.60
4	Label printer	0.50
5	Firewall 201F (For Backup)	10.00
INSTRUMENTATION		
1	Wireless Lapel Mic System - 03 nos	1.00
2	Delegate Unit Microphone - 02 nos	1.00
3	Handheld wireless microphone -02 sets	0.70
4	Omni-directional Boundary Layer Microphone - 02 nos.	0.80
5	Instrument microphone - 01 no.	0.50
6	Condenser microphone -01 no.	0.12

7	Projector - 02 nos.	5.80
8	Audio Amplifier - 02 nos.	2.80
9	Digital Mixer 32 channel -01 no.	4.00
10	Table top small LED backlit IPS panel with touch technology and writing stylus - 01 no.	0.45
11	PTZ camera - 03 nos.	4.20
12	Mini conference system - 04 nos.	2.00
13	Passive Front Loudspeaker - 02 nos	3.40
14	Passive Side Loudspeaker- 02 pairs	2.00
15	LED Display Panel 55 inch - 01 no.	0.70
16	Industrial DC power supply, 200V, 50A, 3kW	3.55
KHURJA		
1	CNC Vertical Machining Center	75.00
2	X-Ray Fluorescence (XRF) spectroscopy	90.00
3	X-Ray Diffraction (XRD)	90.00
4	Rapid pot mill	2.00
NARODA		
1	Universal Gauge as per IS 13630 and ISO 10545	18.00
2	CCS machine 5000 KN capacity	15.00
3	Single color portable infrared thermometer, Temp range - 600-2000C	2.50
4	Particle Size Analyser	60.00
5	Roller hearth furnace	17.00
6	Digital vernier caliper, 600 mm, QTY 1	0.75
7	Digital vernier caliper, 150 mm, QTY 2	0.35
8	Digital vernier caliper, 300 mm, QTY 1	0.40
9	Screwgauge 0-25 mm range / 0.001 mm least count.	0.20
10	MOR machine for tiles of size 1200 x 1200mm	4.50
11	Standard weight box with calibration certificate (0-100 g)	0.10
12	Jaw Crusher	1.00
13	Pulverizer	2.00
14	Torsion Viscometer	2.75
BDPD		
1	Multifunction Scanner cum Printer	2.49
2	Digital Poster Stand (02 nos.)	3.20
3	Wide angle lens for existing camera	0.60
MISC.		
1	Laptop with AMD Ryzen7 7730U/Windows 11 professional 32gb RAM 1024gb storage	0.80
2	High End Desktop AMD Ryzen 7 8700G Intel Core i7 12700 or higher Minimum 16GB DDR4 or latest with expand memory upto 64GB or higher Minimum 1TB SSD	0.80
3	Non-touch type dual core android 55 inch processor	6.00

	based floor mounted information computer kiosk with mild steel enclosure	
4	Hand Held Metal Detector	0.15
5	Chorded Telephone with basic features including caller ID, redial, speakerphone , adjustable volume controls for handset and ringer	0.50
6	A4 and Legal Size Monochrome (Black) Laser Multifunction Machine (MFM) including Cartridge and Power Cord/Adapter with 1 year warranty	0.30
7	Desktop computer	1.30
8	Monitor (21.5" or above IPS monitor, FHD (1920-1080), 200-250 nits, 1 HDMI, 1 VGA, 1 display port)	0.10
9	refrigerated /heating circulator with natural refrigerant freestanding, complete with silicone tubing, insulation, tube clamps etc complete in all respect.-1	7.50
10	Digital standies (Computer Kiosk)	1.50
11	Stereolithography 3D Printer	10.0
12	Scintillation Detector assembly for PANalytical AXIOS XRF system	15.0
13	Delegate Microphone Unit, wired , having microphone with flexible stem of 18 inch or more	3.19
	Chairman Microphone Unit, wired , having charman priority button , microphone with flexible stem of 18 inch or more	0.38
	Central control unit, to supply power for all offered delegate and chairman units in the system	0.32
	Mixer, having 8 or more channel audio mixing console with 8 mic / 10 line or more inputs	0.27
	Digital signal processor (DSP), of common mode rejection ratio greater than 45 dB , dbx/peak limiter	0.36
	Power Amplifier, having rated output (RMS) 200 W or more , signal to noise ratio greater than 85 dB , Gain 40 dB or more	0.28
	Speaker, two way having 10 W or more long-term average power handling capacity at 100 V transformer tapping	0.73
	Wireless Lavalier Microphone System, (microphone , transmitter , receiver) having integrated antennas , AF frequency response range 50 to 15,000 Hz (at -3 dB) or more , omni-directional pick-up pattern	0.73

	Handheld wireless Microphone with integrated antennas , antenna-switching 2-channel diversity reception , dual chordless in a single receiver , automatic frequency management and synchronization	0.94
	Desktop PC consisting of --- Core i7 processor, 16 GB DDR4/DDR5 RAM, 512 GB or more SSD Hard drive , Windows 11 Pro , diagonal FHD IPS display with Graphics , MS-office , wired keyboard and wired mouse, Ports like Audio Head phone out , Mic-in etc.	1.12
	Online UPS 3 kVA with 15 minutes battery back up, true online double conversion technology , constant output voltage and frequency regulation , automatic and manual bypass, input voltage range 160-300 V, output voltage range between 208-240 V (selectable)	0.47
14	Beta Gamma Pocket Dosimeters	2.00
15	Radiation Survey Meter - NXG	0.6
16	Audio system along with computer & camera to be installed at committee room CSIR-CGCRI, khujra Centre	8.5
17	Upgradation of MedeA VASP Software	6.5
18	Weighing Balance	3.8
19	Audio-visual conference facility at CSIR-CGCRI Knowledge Centre	8.5
20	1.5 TR with 5 Star BEE Rating Hi Wall split type Air conditioners complete with copper Refrigerant piping upto 3 Mtr , copper power cable upto 3.5 Mtr, i/c drain pipe. (Details Specification is in Annex I)	22.5
21	3.0 TR with 5 Star BEE Rating Cassette type Air conditioners complete with copper Refrigerant piping upto 5.5 Mtr, copper power and control cable upto 5.5 Mtr, including drain pipe.	
22	6.4 mm dia (OD) (Soft drawn) copper refrigerant piping with nitrile tube including vaccumiazation and Nitrogen testing	
23	9.5 mm dia (OD) (Soft drawn) copper refrigerant pipe with nitrile tube including vaccumiazation and Nitrogen testing	
24	12.7 mm dia (OD) (Soft drawn) copper refrigerant pipe with nitrile tube including vaccumiazation and Nitrogen testing	
25	15.86 mm dia (OD) (Soft drawn) copper refrigerant pipe with nitrile tube including vaccumiazation and Nitrogen testing	
26	4 core 4.0 Sqmm Electrical copper flexible FRLS PVC cable conforming IS 694 or IS 9968	

Next 3-5 Years				
S. No.	Name of Equipment / Item	Quantity (Nos.)	Approximate Cost (Rs. in Lakhs)	Requisition given by
1	Hip joint simulator with advanced features; 6-station together mimicking body environment, load and physiological condition; actual implant-stem combination; facility of volumetric wear calculation, fatigue, displacement; temperature controller and soaking liquid level automatic sensor; facility of various loading profile as per ISO (for level walking, staircase movements, running, etc.); Options for suitable fixture for dental implants	1	250.00	Dr. B. Kundu
2	6-axis CNC grinding and polishing machine for ceramic hip and knee implants; 6 CNC axis for grinding and polishing of complex shapes; programmable pressure; reproducible and repeatable material removal; Advanced controller with integrated operator panel; Solid continuous one-piece machine; Robust belt drive; Capable to achieve < 30 nm Ra of ceramic hip and knee implants after grinding and polishing.	1	400.00	
3	Selective Laser Sintering (SLS) machine suitable for ceramic processing with following tentative spec; Laser and Scanning: 100 watt CO2 laser; Additional laser source with 500 W output; Physical maximum build envelope: Approx. W 380 x D 330 x H 450 mm ($\pm 10\%$); Input data file format: *.STL; CAD/CAM module: 3D shop having capability of typical standard Read/Write formats like IGES, STEP, VRML, STL, B-Rep etc.	1	400.00	
4	PE-CVD	1no.	200.00	
5	Rapid Thermal Annealing	1no.	200.00	
6	Magnetron Sputtering	1no.	110.00	
7	Bench Top Solution Blowing System	1no.	20.00	
8	Controlled Atmosphere High Temperature UTM	1no.	0.85	
9	Cold Isostatic Press	1no.	1000.00	
10	Atomic Force Microscopy	1no.	60.00	
11	Spectrofluorometer	1no.	200.00	
12	Vacuum Hot Press 50mm dia.	1no.	30.00	
13	Low speed precision cutter	01	10.00	
14	Multi-product electrical calibrator	01	30.00	
15	Up-gradation of audio system in Meghnad Saha Auditorium	01	20.00	
16	Computers	70	67.00	
17	Switches (Core, Distribution)	4 + 20	80.00	
18	Servers	4	30.00	
19	Firewall	1	15.00	
20	UPS	2	20.00	
21	Modular Steady-state and time resolved	1	190.0	

	Phosphorescence and Fluorescence Lifetime Spectrometer (TCSPC)			
22	Strain measurement system of optical fiber (Model No: SPL 500-3-18596)	1	190.0	
23	Tuneable Laser Source	1	60.0	
23	Micro-pore Analyzer with Turbo-molecular pumping System and Vacuum Degasser	1	50.00	
24	High Resolution X-Ray Diffractometer: Specifications: High Resolution XRD for powder and Thin Film analysis using Bragg-Brentano and parallel Beam geometry.	1	165.00	
25	Wavelength Dispersive X-Ray Fluorescence Spectrometer (WD-XRF)	1	290.00	
26	Roller hearth furnace, length 21 feet, working temperature 1250, max temp 1300, useful volume - 250 (w) X 50 (H) X 2000 (L) mm,	01	20.00	
27	UPS for 12 Nos. of PC's of CGCRI, Naroda Centre	12	0.90	
28	4k Ultra HD 43-inch smart LED TV, for committee room	02	1.00	
29	4k Ultra HD 65-inch smart LED TV, for committee room	01	1.50	
30	CCS machine of 5000 Tons capacity, with computer and necessary software	01	18.00	
31	Split Air Conditioner, 2.0 Ton, 5 Star Rating, Inverter type, Total no. 05 ICP, FTIR, chemical lab and Characterization Lab	08	6.4	
32	PL Spectrometer (200 nm - 870 nm)	01	110.00	
33	Dryer - size 1 mtr x 1 mtr x 2 mtr (inner useful space), temperature max - 250 deg C, stainless steel construction, heavy duty suitable for heating tiles. Including six numbers of SS trays	01	3.00	
34	MUFFLE CUM TUBE FURNACE with working temperature 1600 °C and size approx. 200 mmX200 mmX200 mm with MFC and accessories	01	11.00	
35	Laptop (i7)-Windows 11 (12th generation), For Dr. Asha anil and use in Committee room and external training program presentations	02	2.40	

Table 2: Equipment for procurement during the FY 2025-26 and Next 3-5 years under **CSIR-Funded Projects (CSIR Project Mode):**

Financial Year 2025-2026				
S. No.	Name of Equipment / Item	Quantity (Nos.)	Approximate Cost (Rs. in Lakhs)	Project Number/Code
1	Spectral-domain OCT spectrometer	1	35.00	FTT0080505
2	Roll-to-Roll Electrode Fabrication unit	1	25.00	HCP0054 (W27.1)
3	Manual Electrode Winding Machine	1	25.00	HCP0054 (W27.1)
4	RO water purification system capacity- 25 ltr per hour for office use & Chemical Lab.	02	1.6	NWP – 100 / HCP 0054/ TSP 0008
5	Multifunction Colour Printer technology: Laser Features: Print, Scan, Copy Paper type supported: A4, Letter, A5, A6, Executive, Legal , Interface: Wifi+USB Mounting Hardware: Printer, Power Cable, USB Cable Toner/cartridge included: Yes Operating System: Windows	01	0.7	NWP – 100 / HCP 0054/ TSP 0008
6	Multifunction monochrome Printer technology: Laser Features: Print, Scan, Copy Paper type supported: A4, Letter, A5, A6, Executive, Legal , Interface: Wifi+USB Mounting Hardware: Printer, Power Cable, USB Cable Toner/cartridge included: Yes Operating System: Windows	01	0.5	NWP – 100 / HCP 0054/ TSP 0008
7	Digital Vernier calliper 150 mm	02	0.4	NWP – 100 / HCP 0054/ TSP 0008
8	Digital vernier calliper 300 mm	01	0.85	NWP – 100 / HCP 0054/ TSP 0008
9	Digital vernier calliper 600 mm	01	0.70	NWP – 100 / HCP 0054/ TSP 0008
10	Digital Optical Pyrometer	01	2.75	NWP – 100 / HCP 0054/ TSP 0008
11	Electric Induction Heater	01	0.4	NWP – 100 / HCP 0054/ TSP 0008
12	Stainless steel Tong		0.1	NWP – 100 / HCP 0054/ TSP 0008
13	Stainless steel Dies		0.9	NWP – 100 / HCP 0054/ TSP 0008
14	Ultrasonic Bath/cleaner with heater and timer	01	01	NWP – 100 / HCP 0054/ TSP 0008
15	Audio system 80 -watt capacity, portable	01	0.7	NWP – 100 / HCP

	wireless blue tooth speaker, with 2 cordless mic.			0054/ TSP 0008
16	Hand Pellet truck 550x 600 mm size	01	0.3	NWP – 100 / HCP 0054/ TSP 0008
17	Industrial Folding Ladder for servicing and maintenance work, working at height, such as repairing of tube lights, ceiling fans	01	0.25	NWP – 100 / HCP 0054/ TSP 0008
18	Certificate Lamination machine	01	0.4	NWP – 100 / HCP 0054/ TSP 0008
19	High intensity Electromagnet	01	2.5	NWP – 100 / HCP 0054/ TSP 0008
20	Servers	05	30.00	
21	Workstations	06	12.00	
22	Desktop	05	6.00	
23	High end Laptop	01	2.00	
24	Printer with Scanner	02	0.70	
25	1400 Deg. C Muffle Furnace	1	3.20	IST552506
26	Revolutionary High Speed Centrifuge R-24, Max 17300 Rpm / 27440 Rcf with rotor heads and accessories Angle Rotor R-247 (8 x 50ml)	1	1.30	IST552506
27	Vacuum Oven & Rotary High Vacuum Pump (Rectangular Type):- Chamber Size : 10" X 10" X 12 "	1	1.50	IST552506
28	multimedia projector LCD technology, Native Resolution 1920 x 1200(WUXGA) Brightness (Lumens) 6000 Optical Zoom (%) 160 Type of Projector Standard Throw (0.91 to 2.5) Type of Light Source Laser, detailed specifications attached	1	0.70	HCP002502
29	LED television, Smart TV, size more than 90 inch, audio power (20 W X2), with all required accessories	1	3.50	HCP002502
30	Analytical Balance - CAPACITY---220g, READABILITY : 0.1mg, PAN SIZE : 90mm	1	2.00	IST552506
31	Table Fan / Wall Mount Fan / Ceiling Mount Fan - Speed control mechanism : Pull Cord Or String Based Control, Number of speed steps : 3, Minimum air delivery (cubic meter:: min) : 65 For 400mm	6	0.14	MMP065202
32	Audio Amplifier with rated output(RMS)240 W , 2 or more numbers loudspeaker output of 100 V, 70 V, 8	1	0.34	HCP0101

	<i>ohm/4 ohm and 2 or more numbers line input of 3-pin balanced XLR connector. With a Flight case for Amplifier of plywood with metal corner reinforcement ..</i>			
33	<i>Loudspeaker with continuous rated power 100 watt, sensitivity 95dB or more, 12 inch woofer and titanium high-frequency driver. With a Flight case with wheels for Speaker of plywood with metal corner reinforcement and wheels ,handle for easy transport</i>	2	0.89	HCP0101
34	<i>Wireless Headset Microphone with cardioid polar & pick-up pattern , condensor type transducer and signal-to-noise ratio of 100 dBA or more</i>	1	0.33	HCP0101
35	<i>Mixer , 8 channel with built-in multi effects processor and dual functionality of audio playback & recording on a pen drive or on a PC via USB audio interface . With a Flight case with wheels for Audio Mixer of plywood with metal corner reinforcement</i>	1	0.31	HCP0101
36	<i>Speaker stand pair of lightweight metal but of strong mechanical properties , adjustable height and 40 kgs load capacity each . With a Flight case with wheels for a pair of double Speaker stands of plywood with metal corner reinforcement and wheels</i>	1	0.26	HCP0101
37	<i>Projector Screen 11 ft x 8 ft foldable ,outdoor usable and suitable for carrying in a small vehicle</i>	1	0.82	HCP0101
38	<i>20V/120A Power Booster - Specification: Max. Current: 120A Max. Voltage: -1V to +20V Max. Impedance Frequency: 1kHz ~ 10kHz (depending on power) Rise time: 5usec ~ 500usec (depending on power) Resolution: 16bit; Data Acquisition: 50μsec Input Impedance: 1013 Ohms; Cooling method: Forced air Compatible with SOFC-SOEC Benchmarking Workstation model ZIVE-MP5.</i>	1	62.50	MMP065202
39	<i>Ion Selective Electrode Meter</i>	1	1.00	HCP002502
40	<i>Providing and fixing gas pipeline for BET Instrument from Gas Storage Godown 2 to BET Instrument (1st Floor) of MSTD</i>	1	1.00	HCP0054

41	Supply, installation and commissioning of NVIDIA Ada L40S based GPU server solution	1	15.00	MMP015203
42	Exhaust System & Condensation Arrangement of Existing Furnace Produced Gas	1	2.00	HCP0054
43	High End Desktop Computer	2	2.00	HCP0101
44	Mid Level Desktop Computer, Specification Processor Intel Core i5-12400, RAM 16 GB DDR4, SSD3, Windows 11 Pro, Screen Size Led 21.5", Warranty minimum 3 years	2	2.30	HCP002502
45	Customized temperature / data logging system with standalone facility and LCD display for data graph. Tem. range 0-1700C with 4 simultaneous measurement, Load 10-500kg with 2 simultaneous measurement, Environmental sensors: Room Temp, humidity and air pressure	1	4.00	MMP03520
46	Audio System Portable	1	0.50	HCP002502 (WP 05)
47	Cordless Mic	1	0.30	HCP002502 (WP 05)
48	Working Tables for demonstration and hands on training	2	1.00	HCP002502 (WP 05)
49	White board	2	0.30	HCP002502 (WP 05)
50	Table for trainer	1	0.20	HCP002502 (WP 05)
51	Student chair with laptop pads	30	3.00	HCP002502 (WP 05)
52	Modules and setup for tubular ceramic membrane filtration	1	10.00	IST552501
53	Mixer, 5 to 15 kg Batch, Non GMP type, SS mixer shell, 0-28 RPM	1	5.00	HCP0054 WP 07)

Next 3-5 Years				
S. No.	Name of Equipment / Item	Quantity (Nos.)	Approximate Cost (Rs. in Lakhs)	Project Number/Code
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Table 3: Equipment for procurement during the FY 2025-26 and Next 3-5 years under Externally Funded Projects (EFP):

Financial Year 2025-2026				
S. No.	Name of Equipment / Item	Quantity (Nos.)	Approximate Cost (Rs. in Lakhs)	Project Number
1	pH meter	1	1.00	
2	Precision weighing balance	2	1.50	
3	High power ultrasonic probsonicator	1	10.00	
4	Digimat-Am Hexagon software	1	40.00	GAP0277
5	Desktop Computer for project staff	1	1.00	
6	Desktop Workstation	1	3.50	
7	Mixer Mill	1 no.	34.00	GAP0276
8	Digital Vernier Callipers	1 no.	0.50	
9	All in One Printer	1 no.	0.32	
10	Fibre Drawing Set-Up	1 no.	1.00	GAP0280
11	Vacuum Filtration System	1 no.	1.10	
12	Single mode diode mount, TEC, Driver	15	10.00	GAP0186
13	Glass processing unit	1	300 .00	
14	De humidifier	2	1 .00	
15	Mechanical diode mount, heat sink etc.	15	3 .00	
16	Fiber heat sink with custom design	2	2 .00	
17	Visible range spectrometer	1	5 .00	
18	Process Chiller (40 - 50 LPM, > 10 kW, I/P Load 4 - 10 kW)	1	6 .00	
19	10 kVA UPS (Industrial Grade)	1	2 .00	
20	Real Time Spectrum Analyser (0.2 to maximum 0.5 GHz) for narrow-linewidth laser characterization	1	15 .00	
21	Optical Power Meter	2	5 .00	GAP0183
22	FBG Interrogator	2	40 .00	
23	FPGA Development Platform	1	12 .00	
24	Digital Storage Oscilloscope	1	10 .00	
25	Splicing Machine	2	7 .00	

26	Signal Generator	2	5 .00	
27	Regulated Power Supply	2	3 .00	
28	Optical Spectrum Analyser	1	60 .00	
29	Spectrum Analyser	1	5 .00	
30	Spectrometer	1	14 .00	
31	Light Source	1	2 .00	
32	Bath Sonicator	1	1.50	
33	Probe Sonicator	1	2.50	
34	Sputter Coater	1	16 .00	
35	Optical Microscope	1	12 .00	
36	Syringe Infusion Pump	2	9 .00	
37	Air Compressor	1	2 .00	
38	Thermal Camera	1	1 .00	
39	UPS	4	1.50	
40	Monitor	6	1.50	
41	Desktop computer	6	4.50	
42	Workstation	2	6 .00	
43	Laptop Computer	4	3.20	
44	Machine Vision Camera	1	6 .00	
45	Printer – colour and b/w	4	1.70	
46	Advanced Optical Fiber Clever	1	1 .00	
47	Strain gauge calibration system with tensile, compressive, and flexural	1	70.00	
48	High power narrow bandwidth LASER for distributed sensing along with driver module (Tuneable DFB laser diode with driver module)	1	23 .00	
49	Narrow line width single frequency optical source	1	16 .00	
50	Ion selective electrodes/ probes with ion meter	1	4.95	GAP0395
51	Benchtop Mill for ceramic powder processing, 230 V, 50/60 Hz, with 2 grinding stations	1	25.00	GAP0276
52	SOURCEMETER - DUAL CHANNEL: 40V	1	17.00	GAP0394
53	High power laser Diode Driver CW/QCW 15A 40V.	1	1.66	GAP0186
54	Magnetic transfer arm for thin film deposition system, Material : SS304, Flange size: CF35, Length: 600 mm,	1	3.14	GAP0382
55	Rotable Water Purification System DE -	1	4.30	GAP0387

	Ionization Based			
56	Qubo 360 degree 3Mp (2K) Camera	2	0.05	GAP0387
57	Probe Station PE-4 4" SS Chuck containing Micro positioners, Triaxial type Tip Holder, Stereo Microscope, Digital Camera	1	10.00	GAP0394
58	Line Interactive UPS With AVR (V2)	1	0.03	GAP0387
59	Rotary Peristaltic Pump	2	3.00	GAP0395
60	Customize Gas mixing cum auto changeover setup for the MCVD system for making Photosensitive fiber for FBG	1	9.90	GAP0183
61	Electro chemical Workstation	1	11.42	GAP0395
62	Scanning Fabry-Perot Interferometer, 820-1275nm, 10 GHz FSR	1	4.97	GAP0190
63	Upgradation of existing MCVD-VPCD system	1	450.00	GAP0188
64	Upgradation of fiber drawing tower	1	320.00	GAP0188
65	Glass processing System for fabrication of End Cap	1	301.00	GAP0188
66	Optical spectrum analyzer	1	201.00	GAP0188
67	Oscilloscope for stability and TMI analysis		50.00	GAP0188
68	Pump diode drivers	4	29.75	GAP0188
69	Power meter		18.50	GAP0188
70	Scanning slit beam profiler		6.52	GAP0188
71	Air cooled chiller	2	9.26	GAP0188
72	Mass Flow Controller		18.31	GAP0188
73	GF120CXXC-0001500CVXAOG1-XXXXAX-000 (For Helium)	8	31.22	GAP0188
74	GF120CXXC-0015002LVXAOG1-XXXXAX-000 (For Oxygen)	1	3.90	GAP0188
75	GF120CXXC-0110020CVXAOG1-XXXXAX-000 (For SF6)	1	3.90	GAP0188
76	SLA5851S-1E-A-B-1-B-1-A-1(For Nitrogn)	1	3.65	GAP0188
77	Stainless steel Bubbler	6	30.00	GAP0188
78	Electronic Spectrum Analyzer	1	30.00	GAP0186
79	SOEC-SOFC Large Area Cell Tester for CO ₂ -Steam Co-electrolysis	1	45.00	CLP0312
80	Centrifugal Spinning Unit	1	2.00	GAP0280

81	High End Desktop Computer system,	11	9.00	TSP0008
82	Cryogenic storage cabinet	1	5.00	GAP0393
83	High-end desktop computer with 3 years warranty	1	1.00	GAP1320
84	Automated Vat Photopolymerization Prototyping Platform (MSLA-Based)	1	1.25	GAP0183
85	Fix computer work station with UPS	1	2.90	GAP0392
86	Deep Freezer	1	0.50	GAP0392
87	Fix computer work station with UPS	1	2.90	GAP0392
88	Deep Freezer	1	0.50	GAP0392
89	Digital Multimeter, 6.5 Digit, With Computer Interface	1	1.48	GAP0396
90	CCD pixel array based Bragg wavelength interrogation module (wavelength range: 1510nm to 1595nm) Specifications: 512 pixels, FC/APC, USB powered, 3KHz scan rate	1	7.25	GAP0191

Next 3-5 Years				
S. No.	Name of Equipment / Item	Quantity (Nos.)	Approximate Cost (Rs. in Lakhs)	Project Number
1	Upgradation of existing MCVD-VPCD system	1	380	
2.	Outside Plasma Deposition System	1	1215	
3.	Upgradation of fiber drawing tower (Control Panel)	1	350	
4.	Glass processing unit for fiber combiner making.	1	290	
5.	Fiber Analyser	1	230	
6.	Preform Analyzer	1	250	
7.	Large diameter cleaver and splicer	2	65.0	
8.	1000 class clean room facility	1	200	
9.	OPO crystals and components	3	50.00	
10.	Real time storage oscilloscope	1	100.00	
11.	Rubidium Clock	1	25.00	
12.	IFA-100 fiberanalyzer	1	50.00	
13.	Soft glass processing unit	1	300.00	
14.	Soft glass fiber drawing tower	1	900.00	
15.	Desktop computer	3	3.00	
16.	Printer – colour and b/w	2	0.50	
17.	UPS	5	0.25	
18.	Optical Intensity, Phase, Frequency Modulator Drivers	1	10.0	
19.	High frequency RF synthesizers	1	100.0	
20.	PRBS Generator	1	50.0	
21.	Scanning spectrometer ranging for sub-millimeter to millimeter wave	1	100.0	
22.	Temperature controlled oven for nonlinear crystal housing	1	10.0	
23.	Low noise RF amplifier	1	100.0	
24.	100 - 300 GHz RF Source	1	200.0	
25.	Photo Multi-plier Tubes	2	5.0	
26.	Single pixel detectors in NIR region	2	5.0	
27.	Electrical driver & controller for high power laser module	2	10.0	

28.	IR Viewer range: 350 nm - 2000 nm	1	5.0	
29.	Femtosecond laser with output avg. power upto 5W	1	65.0	
30.	Optical spectrum analyzer for mid-IR spectral domain	1	130.0	
31	Optical Spectrum Analyser	1	60.0	GAP0183
32	Raman spectrometer	1	25.0	
33	UPS	10	5.0	
34	Monitor	10	2.5	
35	Desktop computer	10	6.0	
36	Workstation	3	10.0	
37	Laptop Computer	10	8.0	
38	3D Printer	1	11.0	
39	Solidworks	1	5.00	
40	Autocad	1	1.00	
41	Labview	1	5.00	
42	Working tables (Vibration isolation type and standard and granite top)	7	15.00	
43	Wavelength Monitoring systems (high precision)	2	40.00	
44	Wavelength monitoring system custom built	3	24.00	
45	Climate Chamber	2	13.00	
46	Oven	2	5.00	
47	Oven	1	25.00	
48	Controller for calibration setup:	1	6.00	
49	DAQ(PXI)	1	20.00	
50	Custom built Fixtures with motorized translation stages for sensor calibration	1	20.00	
51	Reference piezo pressure sensors	2	2.00	
52	Thermocouple calibrator	1	15.00	
53	Sine Table (0° -45°)	2	1.00	
54	Universal data logger	3	16.50	
55	Test beds for SHM sensor evaluation		45.00	
56	FBG inscription system Custom built with Femto-second IR Laser	1	350.00	
58	Bench-top Materials Printer	1	80.00	
59	Dew pointmeter	1	4.00	

60	Furnace	1	20.00	
61	Dip Coater	1	3.00	
62	Screen printer	1	4.00	
63	Arbitrary function generator	2	9.00	
64	Support facilities for equipment installation e.g. Chiller plant, power supply distribution including UPS, Compressor, Equipment platforms, Dust protection enclosures, clean room etc.		120.00	
65	Standard Sensors and data logger for field trials in buildings, bridges as reference		65.00	
66	Standard Sensors and data logger for field trials in Mines as reference		30.00	

CSIR- Central Glass & Ceramic Research Institute
Procurement Plan
[Financial Year 2025-26]

[B] Consumables:

The following categories of consumables are likely to be procured during the FY 2025-26.

Table 3: Consumables likely to be procured during **Financial Year 2025-26** (Annual):

S. No.	Category	Expected Procurement Value * (Rs. In Lakhs)
1	Chemicals (ex.- Name the different chemicals like Solvents, Biochemical/s, Biochemical kits & enzymes, Diagnostic kits, Sequencing, Oligonucleotides, etc.)	163.80
2	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.)	819.80
3	Glass wares (ex- name the different glass wares)	94.00
4	Plastic wares (ex- Name the different plastic wares)	21.85
5	Cartridges, Batteries, etc.	27.25
6	Gases (ex- tentative names)	204.85
8	Maintenance/AMC/repairing of existing equipment	177.30
9	Stationary items (ex- name a few)	11.80
10	IT / software-related Items (Name the items required during year)	107.50
11	Furniture (Name the items required during year)	5.70
13	Electric Items (Name the items required during year)	17.00

**Value is subsequently changing as per the list being updated and further sanction obtained irrespective of the listed items*

Detailed list of the consumables planned for procurement for division(s) is attached as per the Annexures below:

Sl. No.	Item Name (Approved under Priority List of P-07)	Estimated Cost
4M		
1	Maintenance Service and Spares for Specimen Preparation Equipments	3.00
2	300 mesh Carbon coated TEM-specimen support Grid	2.00
3	Gases (Nitrogen, Argon, Oxygen)	0.50
4	Liquid Nitrogen	0.75
5	Acetone, IPA, Methanol, Ethanol, Chloroform, Solvents and other chemicals	0.20
6	Ampoules, Plain Tissue Paper, Lint Free Tissue paper, Disposable Gloves, Aluminum Foil, Colin, Zip Packet, Liquid Soap, Johnson Buds, Tooth Pick, Teflon Tape, Micro Glass Slides, Carbon Tape (single sided), Carbon Tape(double sided), Fuse for TMP, White Bulb, Batteries of Different sizes, Lab Slippers, Lint free cloths, Covered Dust Bin, Jug to pour Liquid Nitrogen, Solder metal, Solder Paste, Packing Tape, Cello Tape and miscellaneous Laboratory consumables	0.20
7	Laser Printer Cartridges	0.75
8	RF supply 300W with auto matching network, Loadlock chamber with 300 degree C preheater (2") and pirani gauge, gate valve between main chamber and loadlock, magnetic transfer arm	12.00
9	TWO MFC: (0-500 sccm) for UHP argon gas and UHP Helium gas with power supply and connector fitting assembly in XPS	4.50
10	Repair kit for 2 Turbo Molecular Pumps (TMP)	4.00
11	Pirani Gauge in Intro Chamber (XPS)	0.70
12	Essential Ultra High Vacuum Component: leak valve (Swagelok): 2 nos, CF below 2 metre 2 nos, isolation valves nos 2 , O-ring (nos 10), Clamp (nos 10); OFHC Copper Gasket for XPS Lab (different size)	3.60
13	Silver paste; Indium balls; (UHV compatible), Mo boat, Si/SiO ₂ calibration samples Ag, Au and Cu; Tantalum foils	1.00
14	Printer Cartridge for Laser Jet M1136 (Compatible) for XPS Lab	0.15
15	Aceton (5 lit), IPA (lit), Lint free Tissue & cloths (10 nos), Normal Tissue (10 nos), UHV Gloves (10 nos), Aluminium foil (2 packs)	0.70
16	AMC (XPS/UPS)	9.00
17	Ultra High purity (99.9999 %) Helium Gas (1 no), UHP Argon Gas (6 nos), H ₂ S-Gas-2, N ₂ -Gas (6 nos)	1.50
18	Spares for Ultima IV Rigaku XRD system (Cables, Zero base sample holders etc)	5.00
19	Spares for Brukers XRD system (Main CPU board, 4-Axis indexer board, Capillary sample holders, etc)	15.00
20	Spares for AXIOS XRF system (Cable for detector, CPU board etc)	5.00
21	Gun consumables, Cable, Filament (for FESEMs) , IGP, Vacuum gauge, Aluminum Foil, Microtips, Ampoules etc.	15.00
22	Gun consumables, Cable, Filament (for FESEMs) , IGP, Vacuum gauge, Aluminum Foil, Microtips, Ampoules, Spares requires during emergency breakdown etc	15.00

23	AMC for Brukers XRD System :	5.50
24	AMC for two UPS for Bruker XRD system, :	0.80
25	AMC for Rigaku XRD system (Ultima IV) :	2.50
26	On Call Basis Visit Charge for 3 visits - Preventive maintenance of XRF - AXIOS (PANalytical)	2.50
27	AMC for Sigma FESEM System (Carl Zeiss)	6.00
28	AMC for Supra 35 VP FESEM System (Carl Zeiss)	6.00
29	AMC for UPS attached with Supra 35 VP FESEM System (Carl Zeiss)	0.30
30	Gas Cylinders (Argon, Nitrogen) for FESEM and XRF Laboratory	0.50
31	Printers Cartridge	0.50
32	Non-Compressive Annual Maintenance Contract of ICP-AES Instrument, Model: Spectro Ciros Vision Sl. No. 122167	2.00
33	Non-Compressive Annual Maintenance Contract of ICP-AES Instrument, Model: Spectro Arcos II Sl. No. 144584	2.00
34	Chemicals (ex.- SRM, CRM, Hydrofluoric acid, HCl, HNO ₃ , H ₂ SO ₄ , Perchloric acid, Orthophosphoric acid, TEA, EDTA, Ammonium Thiocyanate, H ₂ O ₂ etc.)	4.00
35	Other Consumables (ex- Micro pipette, Filter paper, Tissue Paper, Indicator, chemical reagents etc.)	1.00
36	Glass wares (ex- Volumetric flask, Beaker, Weighing Tube, Watch glass, Burette, Pipette, funnel etc.)	1.00
37	Plastic wares (ex- Polyethylene beaker, polyethylene watch glass, distilled water bottle, burette stand, reagent bottle, dropping bottle, funnel etc.)	1.00
38	Gases (ex- Argon gas)	1.00
39	Chiller for water circulation	4.80
40	Online UPS 6 kVA	1.25
41	Servicing of desktop SEM after transfer from EMDD	15.00
42	Cuvette	1.50
43	Filter	1.00
44	Vacuum pump	5.00
45	Penetrometers	5.00
46	Liquid nitrogen	0.75
47	Gases	1.50
48	Breakdown servicing and spare parts of all characterization equipments at CMCF	13.50
49	SRM for different characterization equipments at CMCF	12.00
50	Tool kits and small electronic components	1.00
51	Stationaries, cleaning solvents and chemicals	3.00
52	Essential componets and tools related to Calibration of Equipment & Process for NABL (Digital Hygrometer, Thermometer, etc. Pl. see Sheet 2 for details)	1.60
53	Caibration of Load-Cells & Cross-head motions to comply with NABL Accreditation	6.75
54	Repair & Maintenance / AMC of existing Online UPS (10 KVA) a) Repair of existing 10 KVA UPS b) AMC for Online UPS (attached with UTM instrument)	0.90
55	Interface with upgraded Software for NanoIndentation Instrument	15.00
56	SRM (Std. Referance Mmaterials) /CRM (Certified Reference Materials)	3.00

	for Various Mechanical Testing for NABL Accreditation	
57	Chemicals & Solvents for sample preparation & Testing on day-to-day basis (Chemicals & Solvents like Iso-propyl alcohol, Acetone, Dimethyl formamide (DMF), N-Methyl pyrrolidone (NMP), Propylene Carbonate (PC), Nitric acid, Hydrochloric acid, etc., regularly require for undertaking the mechanical testing jobs Pl. see Sheet 2 for details)	5.40
58	Glass Wares and related items for sample preparation & Testing on day-to-day basis (Glasswares: Glass Beakers of diff capacity, Measuring cylinders, Filtering flasks, Glass desiccators with base (6 & 8 inch), etc.	0.85
59	Other consumables: like Machine grease, Vacuum grease, Vac. Pump oil, Filter paper, Diamond cutting wheel, High-speed Hacksaw blades, Emary papers, etc. (pl. see Sheet 2 for details)	0.70
60	Printer Cartridge Printer cartridges/toners for existing printer	0.35
61	Replacement of existing TMP of the FIB	15.00
62	Lens Power Heatsink LPH (FEI - 4022 268 00196) 1 nos. + Oncall Charges for LPH Installation (2 nos.)	5.70
TCC		
1	NABL related expenditure	40.00
ACCD		
1	Micro-CT HV Generator	7.00
2	Thermocouple of Astro furnace	0.50
3	Thermocouple, Vacuum sensors & other spares of centorr make controlled atmosphere furnace	7.00
4	Fixture for high temp. UTM	1.00
5	Opto Mechanical Diamond Cutting Tool	5.00
6	Repairing of Chiller pump for Astro furnace	2.00
7	Spare parts of spectrofluorometer	14.00
8	Ultrasonic probe	2.45
9	Process Gas connection at old canteen	1.25
10	VOC Gas detector	3.00
11	Hot Pressing of 250mm Cf/SiC composite including supply of graphite mould	2.00
BMDD		
1	Motion control drive of LENS additive manufacturing machine	50.00
2	Spare for Air Plasma spray chiller unit (digital controller) alongwith water replacement and duct gasket service	1.00
3	Repair, service, reconditioning of existing Cold Isostatic Press (CIP)	30.00
EMDD		
1	PARTS FOR RIGAKU XRD MODEL Smartlab 9KW: (i) GONIO IF MKY PCB (part no. 170200AC)-Qty: 1 no, (ii) PULSE14-2 for Smartlab Step 2 (Part no. 180501AO)-Qty: 1no and (iii) Part no. PCB, Sensor 5 (D2Z03H)- Qty: 2 nos	5.50
2	MP5 Additional Channel (± 10 V, 5A)	10 (\$11,500)
3	Booster (± 10 V, 20 A) spare	11 (\$12,700)

FMDD		
1	a) OBJN2005EPI, Objective 5X 0.15NA 23.5WD, Brightfield objective 5X NA 0.15 WD 23.50 m b) OBJN2010EPI, Objective 10X 0.3NA 17.5WD Brightfield objective 10X NA 0.30 WD 17.50 mm	5.50
2	Scroll Pump (nXDS10i 100-127/200-240V 1ph, 50/60Hz)	5.50
3	Mass Flow Controller (SEC-E40), 2 nos.	3.00
4	Service of Clean room, Pre Filter of AHU Clean room 06, Fine filter 06 A.H.U Motor service unit, Remote, Pre filter box type, Micro hepa filter	5.00
5	Technical service, Power supply, UV Lamp Control unit	2.00
FOPD		
1	CAMC for 60 KVA UPS	1.82
2	Capacitor, Metallized Polypropylene Film, Panel Mounted, Stud terminal, For 60 KVA Online UPS Capacitor, Aluminum Electrolytic, Panel Mounted, Screw Lead, For 60 KVA Online UPS	0.84
3	Stainless still (SS-316) tubes with associated connector for MCVD gas lines	20.00
4	Measuring head ODAC 14XY-J; Measuring head ODAC 14XY-J+10m cable length to USYS 200; Connection cable, 10m (L6-A8); Connection cable, 10m (L6-L6); USYS 200-0000-B, standard with controller; CP card (N6.CP.311.A5) for USYS-2100; Scanner motor with rotating mirror for 15XY J; Driver PCB for; Clipper PCB for 15XY J	35.00
MSTD		
1	Arsenic test kit (range 0.005 - 0.50 mg/l) & Iron test kit (range 0.01 - 5.0 kg/l)	1.00
2	Microbiological (Total Coliform, E. coli & MPN count) test of drinking water (consumable, reagent chemicals & kit)	0.50
3	pH electrode & TDS electrode for Hach multimeter	1.50
4	Hg/HgO reference electrode	0.10
5	UV Curing lamp (300 W)	0.90
6	Spares cartridge filters of Ultrapure water unit (AT-250)	0.30
7	TG-DTA sample carrier system with acceseries	5.00
8	Calibration sample kit for DTA-TG calibration	2.50
9	Die for cutting Dumbbell shaped Specimen Rubber; Elastomers As per ASTM D412	0.20
10	Glove box service and repair	18.00

RTCD		
1	Eurotherm temperature controller & thyristor for 1800oC chamber furnace	2.50
2	AMC of CCS and MOR testing equipment	1.00
3	SiC load stamp for HMOR, Netzsch	1.00
4	Alumina pressure stamp with metal flange for Creep testing machine, Netzsch	4.00

5	Heating elements for the PLCR furnace, which should go up to 1800oC, (MoSi ₂)	5.00
6	Repairing of 100T pressing machine	1.00
SGD		
1	Annual Maintenance Contract for FRS 1800 Furnace Viscometer	1.10
2	AMC for DSC machine	1.00
3	AMC for Micro Hardness Tester	1.20
4	Non-comprehensive Annual maintenance Contract for 5 nos. Bry-Air Dehumidifiers.	1.50
5	Non-comprehensive Annual Maintenance Contract of (i) FTIR with Diffuse Reflection Accessories & Frontier Diffuse Reflectance Accy (ii) UV-VIS-NIR Spectrophotometer	1.75
6	AMC (Model: 12" MSPT with RF/DC Sputtering & Thermal Evaporation System)	1.20
7	AMC of Clean Room related to 15 L Induction Furnace	10.50
8	AMC of 3kW Microwave Furnace	1.90
9	One-time maintenace Glass cutting machine	1.00
10	One-time maintenace Optical Clean Room	1.00
11	IT / software-related Items: Glass database Software : Intergrad	3.00
12	Solid State Drive/Harddrive	8.00
13	Computer Accessories	4.00
Central F/C		
1	SiC heating elements of different sizes (43 nos.)	1.40
2	MoSi ₂ (6/12, Lu=325, Le=250, A=50,1800°C grade)-06 nos. MoSi ₂ (6/12, Lu=200, Le=140, A=50,1700°C grade) - 06 nos. MoSi ₂ (6/12, Lu=225, Le=125, A=25,1800°C grade) - 06 nos.	8.60
3	3-phase back to back SCR module, 40A-2 Nos. 2-phase back to back SCR module, 40A-2 Nos.	0.90
4	Contactor ,wire, terminal, led, push buttons etc.	1.10
5	Thermocouple, 0.5 mm dia. 1.5 ft length – B type- 1 nos. Thermocouple, 0.5 mm dia. 1.5 ft length - S type- 1 nos.	0.50
6	Safety items (gloves, safety googles, tongs, safety shoes, etc.)	0.40
7	Rail mechanism for pulling of the hearth for the two glass melting furnaces 2 nos.	1.00
8	Consumables for gas purging system like quartz pipe, Teflon tape etc.	0.10
9	Tools for maintenance and melting	0.15
10	Fabricated fume & dust extraction system - 1 no.	3.50
Central WS		
1	Controller for magnetic chuck of ELB Surface Grinding Machine	3.00
2	Workshop machine name board with specifications	0.25
3	Reconditioning of polish plate with hanger assembly for lapping machine	0.35
IITD		
1	Virtualization software and support	20.00

2	Server Storage 2.5 in – 10 Nos.	1.20
3	Cat6 Patch Panel – 24 ports loaded - 10 Nos.	0.60
4	CAT6 Information outlet – 100 Nos.	0.40
5	Internal SSD with SATA (1TB) – 10 Nos.	0.80
6	Internal SSD card (1TB) – 10 Nos.	0.80
7	Printer cartridge (137A x 4, 78A x 2, 88A x 2) - 8 Nos.	0.20
8	Printer cartridge Officejet Pro 8100 (HP 950XL Black – CN045AA, HP 951XL Cyan – CN046AA, HP 951XL Yellow – CN048AA, HP 951XL Magenta – CN047AA) (01)	0.10
9	Pen Drive C-USB 128 GB, Pen Drive C-USB 16GB – 5 Nos.	0.15
10	Miscellaneous Networking Items (Cable ties - 04 packets, Lan testing Tool /multifunction network cable tester - 2 Nos., Lan crimping tool – 4 Nos., IO clip - 100 Nos., RJ 45 clip - 100 Nos.)	0.25
11	Miscellaneous Computer Items (Computer cleaning kit - 10 Nos., Wireless keyboards and Mouse – 5 Nos., Mouse Pad – 15 Nos., Power Extension Bard – 5 Nos.)	0.30
12	Battery for 2 UPS (20 KVA), 9V Battery - 5 Nos., AAA battery – 10 Nos. AA Battery – 10 Nos., Battery for 0.6KVA UPS – 50 Nos.	5.00
13	Miscellaneous Converters (USB-C to LAN converter, USB to LAN converter, USB HUB, HDMI to VGA - each 5 Nos.)	0.40
14	8 Port unmanaged switch – 30 Nos.	0.60
15	Wifi router – 20 Nos.	2.50
16	Portable hard drive – (4TB HDD x 4 Nos.)	0.50
17	Portable USB CD drive – 4 Nos.	0.15
18	Fibre laser light – 04 Nos. and Fibre Optic Cable Organizer	0.10
19	Web Cam and Computer Speaker – 05 Nos.	0.80
20	UTP Cable roll – 300 mtrs	0.10
21	Network rack – 4 Nos.	0.30
22	SSL Certificate	0.50
INSTRUMENTATION		
1	Comprehensive AMC of EPABX system (Main Office)	3.30
2	Comprehensive AMC of EPABX system (Guest House)	0.33
3	Battery for telephone exchange and different UPS of Committee Rooms	0.50
4	Telephone Handset (analogue and digital)	0.80
5	Repairing of BPE make 3 KVA UPS with replacement of all six nos. 12 volt 7 Ah batteries (2 set)	0.50
6	Different Adapters, Splitte , Distribution splitter XLR, Converter, Socket, Extender, Receiver, etc for Audio-visual system	1.00
7	Battery charger, Rechargable & Non-rechargable Battery, button cell, Pointer , Extension Board , Mouse , Keyboard, etc. of different size & ratings	1.00
8	HDMI wireless extender - 2 nos	1.00

9	Tools (such as plier , tin cutter , rechargeable light/torch , lock & key for audio equipments , Screw Drivers , Crimping Tool, Cutter , wheel for cutter, hole shoe cutter , Drill Bit, Measuring Tape etc.) 01 set	0.50
10	Helium Gas - 01 cylinder	0.55
11	HDMI Cables of different sizes .	1.00
12	Different electronics component	0.50
13	FRLS insulated cable of different sizes for control panel	1.00
14	Telephone wire and socket	0.15
15	PVC Pipe 20 mm with accessories	0.15
16	Electrical Item (like push button , led indicator , contactor , mcb , fuse , controller , thyristor drive , terminal post , panel meter etc)	1.00
17	3-phase phase angle controlled back to back SCR module, 40A, Input 4-20mA - 2Nos.	0.50
18	3-phase phase angle controlled solid state relay 50A, input 4-20mA - 4Nos.	0.20
19	2-phase phase angle controlled back to back SCR module, 400V, 40A - 2Nos.	0.25
20	Printer cartidge-4 Nos.	0.30
KHURJA		
1	Repairing and servicing of filter press(spare: filter bags 24 nos.)	0.35
2	Repairing and servicing of double headed roller jigger (spares: motor, mould, die, profile etc.)	0.35
3	Calibration of testing equipment	0.10
4	Calibration of Universal Gauge (spares: Flatness nuts etc.)	0.15
5	Repairing and Servicing	0.10
6	Drill Machine with tool kit	0.10
7	LED Batten 20 watt, LED bulbs, electricl switches, electrical wire (1.5mm Wire (2 Core, 3 Core), 2.5 mm wire (2 Core, 3 Core)	0.80
8	Laboratory Glass ware, Apron, Gloves, Spectacles, Nose mask, tongs, chemicals required for chemical analysis of samples	0.80
9	I. Mp MFP 1005 12 amp Tonner (2 No.) II. HP 166A Blk Original Laser Toner Cartridge-W1660 (2 No.)	0.30
10	Syrotech BSNL modem	0.05
NARODA		
1	AMC Diesel Generator set	0.50
2	Water tank cleaning	0.10
4	Diamond impregnated cutter Blade for RUL samples	0.80
5	AMC / repairing of RO water purification system	0.40
6	Heating Elements for thermal conductivity furnace	2.50
7	Thermocouple set for thermal conductivity furnace	
8	Kanthal elements for electric furnace as per design	
9	Different spares of hot MOR furnace, service and repair	1.00
10	Repairing, servicing of autoclave including spare parts	0.25
11	Repairing, servicing of autoclave including spare parts	0.15

12	Calibration of measuring and monitoring devices	3.00
13	PCE cones (standard ORTON cones for reference) / buller rings	1.00
14	Alumina powder for deep abrasion test.	0.10
15	Steel balls for deep abrasion test	0.20
16	Repairing and servicing of MOR apparatus- QTY 3 Nos	1.00
17	Screw driver set	0.02
18	Spanner Set I each, round and fix	0.04
19	S.S. Tongue 12 inch (qty 6 Nos)	0.05
20	measuring cylinder 100 ml glass Qty 12 nos.	0.10
21	glass beaker 100 ml Qty 12 nos	0.10
22	50ml Grinding Bowl of Zirconium Oxide	4.76
23	AMC XRD (1Nos.) 3 yrs	7.90
24	AMC UPS (2Nos.) 1yr	0.26
25	FT-IR Power Supply Assembly	3.00
26	Glasswares	1.50
27	Pipette bulb, Nitrile gloves, Lab Mask	0.20
28	Chemical Standards for ICP	1.50
29	Pipette 1-10 ml	1.20
30	Pipette 0.5-5 ml	1.5
31	Pipette 100-1000 μ L	1.20
KRC		
1	2 TB Wired Portable Hard Disk (1 nos.)	0.08
2	Canon OEM Toner Cartridge NPG-88 Cyan (1 nos.)	0.14
3	Canon OEM Toner Cartridge NPG-88 Magenta (1 nos.)	0.14
4	Canon OEM Toner Cartridge NPG-88 Yellow (1 nos.)	0.14
5	Canon OEM Toner Cartridge NPG-88 Black (2 nos)	0.27
6	Ball Pen (40 nos) + Self adhesive tape 4 inch* 90 metre (2 nos) + Room Freshener (220ml) (5 nos)	0.03
7	Miscellaneous	0.10
BDPD		
1	Canon NPG-67 (Black, Yellow, Cyan, Magenta)	0.32
2	Canon Cartridge 054 (Black, Yellow, Cyan, Magenta)	0.30
3	Canon NPG-67 (Black, Yellow, Cyan, Magenta)	0.32
4	Canon NPG-88 (Black, Yellow, Cyan, Magenta)	0.32
5	Canon NPG-59 (Black)	0.06
6	Cartridge No. Q2612 AC	0.10
7	Cartridge No. Q2612 AC	0.10
8	Cartridge No. Q2612 AC	0.10
9	Cartridge No. Q2612 AC	0.10
10	Cartridge CC 388 AC	0.09
11	Cartridge CC 388 AC	0.09
12	Cartridge CC 388 AC	0.09
13	Cartridge HP 803 (Black and Tri-colour)	0.05
14	Cartridge HP CE 505 AC (Black Tinta Negra)	0.08

15	Cartridge HP 201A CF400A (Black, Yellow, Cyan, Magenta)	0.48
16	COREL DRAW 24 (LATEST VERSION): Multiuser (2 minimum)	1.20
17	CANVA PRO (ONLINE)(One year Subscription for one person)	0.04
18	AMC of 3 Nos of Multifunction Scanner cum Printer (including 01 no of Table Top Printer)	3.00
19	2TB External Hard Disk(SSD) (Qty: 4)	0.32
20	Camera Accesaries	0.16
21	Exhibition materials/Posters/ Double sided Tape/Etc	0.50
22	Stationary Items	0.72
23	Display Standee (08 nos.)	2.00
24	Exibition Content Updation and related accessories	6.00
	Total	721.02

Table-1[illegible]

	Holders and Filaments for Glass Processing Unit, etc) • Optical Gain Fibers (Active Fibers) • Coolant • Optical mounts, bulk optics, fixtures, mirrors, beam routing/focusing assembly • Optical Intensity, Phase, Frequency Modulator • SM Pump diodes (in the range of 300 - 1000 mW) TEC cooled 14 pin butter fly • Dispersion managing fibers • Highly nonlinear fibers • PM and Non-PM Active Fibers • Pulse compression gratings • Fibre Optic Phase Shifter • Analyses of dopants distribution along the core of fiber by EPMA • Grinding and Polishing of circular preform into octagonal shaped structure by automatic grinding and polishing machine • Spare parts of Fibre drawing Tower • UI Display Board for Packaging • FBG Interrogation Module • Spectral Analyser module • Signal Analyser module • Optical Tunable Filter • Optical Image Sensor • Signal Processing Board • Data Processing Board • Optical Filter • Fiber Optic Circulator • Fiber Optic Isolator • Fiber Optic Power Sensor • Light Source module • FPGA/Microcontroller based development board • Fiber Polishng Supplies • Fiber Optic Interferometer module	2.00 10.00 10.00 20.00 2.00 2.00 2.00 20.00 6.00 5.00 25.00 30.00 5.00 25.00 5.00 4.00 10.00 5.00 5.00 3.00 3.00 5.00 3.00 5.00 5.00 2.00 2.50 17.00
3.	Glass wares (Ex. Name the glass wares): • Silica Tubes (20/17mm, 20/12mm and 10/4mm) • Fluorine-Doped Fused Silica Capillary Tube, 750 μm ID, 1500 μm OD, 170 mm Long Model: FTB02	80.0 0 10.00
4.	Plastic wares (Ex. Name the different plastic wares): • Millipore filter, Gaskets, O-rings etc for of MCVD-VPCD system	20.00
5.	• Toner Cartridges • Batteries (UPS Batteries replacement)	10.00 5.00

6.	Gases (Ex. Tentative names): For specialty optical fiber's development and combiner making: - - High purity gases such as: Commercial H₂ (99.5%) and O₂ (99.97%) fuel gases - High purity nitrogen gases of 99.999% - High purity (99.999%) He and Argon inert gases - Very high purity (99.9995%) He gas - Very high purity (99.9995%) O₂ gases - Very high purity (99.999%) SiF₄ gases - Very high purity (99.999%) CF₄ gases - Very high purity (99.999%) Cl₂ gas	200.00
7.	Maintenance/AMC/Repairing existing equipment: - Maintenance/Repairing job related to upgradation of existing MCVD-VPCD system, the OPD system and upgradation of fiber drawing tower through making of all kind of gas lines, suction hoods, scrubber etc. - AMC of UPS connected to MCVD-VPCD system, old MCVD system etc. - Water Line and Gas Line - Servicing of high temperature tubular furnace	70.00 15.00 3.00 0.40
8.	Stationary items: Note book, File cover, file board, Sticky note, Papers Eraser, Marker, stapler, punching machine, Tape, scissors etc	10.00
9.	IT/Software related items (Name the items required during year)	0.00
10.	Furniture (Name the items required during year)	0.00
11.	Electric items (Name the items required during year):- 3-phase line for chiller, high VA SMPS, LD driver (total 15 - 20 kW load)	5.00

Table-2

S. No.	Category	Expected Procurement Value (Rs. In Lakhs)
1	Chemicals -- Chemicals & Solvents like Iso-propyl alcohol, Acetone, Dimethyl formamide (DMF), N-Methyl pyrrolidone (NMP), Propylene Carbonate (PC), Nitric acid, Hydrochloric acid, etc., epoxy Resins, etc. regularly require for undertaking the mechanical testing jobs.	5.00
2	Other Consumables - Machine grease, Vacuum grease, Vac. Pump oil, Filter paper, Diamond cutting wheel, High-speed Hacksaw blades,	3.00

	Emery papers, etc.	
3	Glass wares - Glass Beakers of diff capacity, Measuring cylinders, Filtering flasks, Glass desiccators with base (6 & 8 inch), etc.	1.00
4	Plastic wares	Nil
5	Cartridges, Batteries, etc. Printer cartridges/toners for existing printer, replacement of faulty Batteries for UPS	1.50
6	Gases (ex- tentative names) N2 gas (refillable),	0.35
7	Maintenance/AMC/repairing of existing equipment - Repair of existing 10 KVA UPS - AMC for Online UPS (attached with UTM instrument) - Repair of existing i-Nano NanoIndentation Instrument	15.00
8	Stationary items (ex- name a few)	0.10
9	IT / software-related - LASX - Microscope Image analysis Software	25.00
10	Furniture (Name the items required during year)	Nil
11	Electric Items (Name the items required during year)	Nil

Table-3

S. No.	Category / Items	Expected Procurement Value (Rs. In Lakhs)	Project / Fund
1	Fiber Coupled Pump Diode Array Including Related Accessories	85.00	INFRA
2	F-300 Grade Silica Tube	71.61	GAP0188
3	Local Silica tube & rods	6.17	GAP0188
4	Fuel and purging gases Commercial H2 gas (99.5%) Commercial O2 gas (99.97%) N2 (99.999%) High purity He gas (99.999%) High purity Argon gas (99.999%) High purity He gas (99.9995%) High purity Oxygen (99.9995%)	71.18	GAP0188

5	High Purity Nitrogen (99.999%) for 24x7 purging MCVD gas lines	19.03	GAP0188
6	Consumable items for MCVD HTS system	5.31	GAP0188
7	Consumable items for MCVD preform fabrication run	12.03	GAP0188
8	Lab chemicals	2.99	GAP0188
9	Fiber draw tower consumable items	26.50	GAP0188
10	Consumable items for NGC & Lathe	20.10	GAP0188
11	Optics and Opto mechanical Components	13.45	GAP0188
12	Graphite filament assembly and F-doped tube	42.09	GAP0188
13	Specialty Fibers	81.83	GAP0188
14	FBG for seed Oscillator	9.97	GAP0188
15	High Purity SiCl ₄ (99.9999%)	35.00	GAP0188
16	High Purity POCl ₃ (99.99999%)	10.50	GAP0188
17	Specialty Resin Efiron UVF SPC-375 Efiron SCU 2000	15.0 1.50	GAP0188
18	Specialty Chemical for active fiber Cerium(III) 2,4- pentanedionate hydrate) Aluminum chloride, anhydrous, 99.999% (metals basis) Ytterbium Tris(2,2,6,6-tetramethyl-3,5-heptanedionato) ytterbium(III) Aluminum nitrate hydrate, Puratronic™, 99.999% Cerium(III) chloride hydrate, REacton™, 99.9% Ytterbium(III) chloride hydrate, REacton™, 99.99% Germanium(IV) Chloride 99.9999% Lutetium (III) Chloride hexahydrate 99.9%	0.20 0.20 6.50 0.80 0.35 0.20 1.40 0.80	GAP0188
19	Fiber Coupled Semiconductor diodes	130.00	GAP0188
20	Mode field adaptor and Cladding Mode Stripper	7.50	GAP0188
21	Collimating Unit with QBH Output Fiber	19.00	GAP0188
22	Custom made heat sink and related accessories	65.23	GAP0188
23	Imaging Unit for HP Laserjet MFP M72625DN printer	0.23	GAP0280
24	Developer Unit for HP Laserjet MFP M72625DN printer	0.61	GAP0280
25	Polycarbomethylsilane, average Mw ~1500-2200" (250 gm)	0.86	GAP0272
26	Universal workholder for FC/SC/ST/LC/SMA connectors and accessories	6.50	GAP0191
27	ZrOCl Yttrium nitrate	2.00	

	Magnesium chloride Nb,Mo,Ti, Al, Cr, Zr, Sb, metal powder PVA, PVB, PEO, PVP Ethyl Alcohol Glassware, Tissue Roll, Tweezer, polishing cloth paste and lubricants Servicing of Desktop SEM	1.00 1.00 6.00 1.00 0.50	GAP0280
28	Glassware, Tissue Roll, Tweezer, polishing cloth paste and lubricants Servicing of Desktop SEM	2.00 2.50	IHP240010
29	Acetic acid glacial 100% Acetyl Acetone 99.5% Aluminium Chloride Hexahydrate 99% Tetrahydrofuran ≥99.9%, suitable for HPLC, inhibitor-free 2.5ltr N,N-Dimethylformamide ACS reagent, ≥99.8% Polyvinyl Alcohol for synthesis 500gm Loba Acrylic acid anhydrous, contains 200 ppm MEHQ as inhibitor, 99% Polyvinylpyrrolidone average Mw ~1,300,000 by LS Citric acid monohydrate Ammonia solution 25% for analysis Aluminum isopropoxide ≥98% Xylene low in sulfur (mixture of isomers) for analysis 2.5 ltr Merck Polyisobutylene average Mw ~500,000, average Mn ~200,000 by GPC/MALLS, average Mv ~420,000 Tetraethyl orthosilicate ≥99.0%	0.024 0.012 0.005 0.367 0.029 0.012 0.037 0.252 0.010 0.010 0.031 0.035 0.158 0.138	GAP0272
30	Borosilicate glass Volumetric flask with stopcock, Class A, capacity-100ml 40nos.	0.4	P07
31	Borosilicate glass Volumetric flask with stopcock, Class A, capacity-250ml 40nos.	0.44	P07
32	Portable Fire Extinguishers as per IS 15683:2018, Power Based (Type:A /Type:B /Type:C /Type:ABC), capacity:2kg 3nos.	0.24	P07
33	Portable Fire Extinguishers as per IS 15683:2018, Power Based (Type:A /Type:B /Type:C /Type:ABC), capacity:6kg 6nos.	0.84	P07
34	Portable Fire Extinguishers as per IS 15683:2018, Power Based (Type:A /Type:B /Type:C /Type:ABC), capacity:9kg 2nos.	1.08	P07
35	Outside micrometer (Screw gauge) 0-25 mm range/0.01 mm least count 1no.	0.2	P07
36	Nitrile Hand Glove 400nos.	0.04	P07
37	Jaw Crusher Size of feed material/ Input Size: Max 20mm Output/ Product Size <6mm (Adjustable) Capacity – Min.100kg/ Hour or more Jaw Size – 2”X 4”	0.85	P07

	(50 X 100mm)		
38	Digital Vernier Caliper, 0-600 mm, Least Count 0.01mm with NABL Calibration	0.5	P07
39	Amber DROPPING BOTTLES, With Glass Dropper & Rubber Teat 5nos.	0.03	P07
40	Bunsen burner, Zinc PDC base with 13 mm brass pipe for L.P.G, Nickel-plated brass burner tube with Rotatable air regulator 2nos.	0.02	P07
41	Burette 10ml with automatic zero, stopcock with rubber bellow and reservoir, class A 3nos.	0.29	P07
42	STOPPER FOR GLASS WASH BOTTLE 500 ml 5nos.	0.03	P07
43	STOPPER FOR GLASS WASH BOTTLE 1000 ml 5nos.	0.03	P07
44	Watch glass 120mm 20nos.	0.02	P07
45	Round bottom flask 10 litre 2 necks angular for water distillation plant 2nos.	0.19	P07
46	Digital Pipette (01-10ml) single channel	0.8	P07
47	Digital Pipette (0.5-05ml) single channel	0.8	P07
48	Digital Pipette (100-1000ul) single channel	0.8	P07
49	Pipette Bulb Rubber 25nos.	0.02	P07
50	PYROMETRIC CONE, MAKE: "ORTON" (USA), PCE CONE NO. • 04,06,07,08,09, 10, 11, 12,13, 14, 15, 16, 18, 19,20,21,23,26,28,30,31,31.5,32, (EACH BOX 50NOS.) 23boxe.	0.8	P07
51	Pulverizer for coarse grinding of stone Input Size- 10 mm Output Size-25 Mesh Approx Machine Capacity-30 to 50 Kg/hr.	0.99	P07
52	Steel balls (size:5mm diameter) for surface abrasion resistance test, weight (500g ,per packet)	0.03	P07
53	Steel balls (size:3mm diameter) for surface abrasion resistance test, weight (500g, per packet)	0.03	P07
54	Steel balls (size:2mm diameter) for surface abrasion resistance test, weight (500g, per packet)	0.03	P07
55	Steel balls (size: 1mm diameter) for surface abrasion resistance test, weight (500g, per packet)	0.03	P07
56	Laser Cartridge 925, OEM Cartridge for Canon Printer ImageCLASS MF3010	0.06	P07
57	Laser Jet Toner Cartridge CC388XC, OEM Cartridge for HP Printer HP Laserjet Pro M202dw	0.06	P07
58	Multi Element Standard Solution for ICP - 20 Elements; 10 mg/L each Ce, Dy,Er, Eu, Ga, Gd, Ho, In, La, Lu, Nd, Pr, Sc, Sm, Tb, Th, Tm, U, Y, Yb in 2% HNO3 In accordance with NIST (100ml)	0.15	P07
59	Multi Element Standard Solutionfor ICP- 32 Elements; 100 mg/L each Al, Ag, As, B, Ba, Be, Bi, Ca,	0.16	P07

	Cd, Cs, Co, Cr, Fe, In, K, Li, Mg, Mn, Mo, Na, Ni, Nb, Pb, Rb, Sb, Se, Sr, Ti, Tl, V, U, Zn, in 5% HNO ₃ In accordance with NIST (100 ml)		
60	Multi Element Standard Solution for ICP- 3 Elements; 10 mg/L each P, S, Si, in H ₂ O In accordance with NIST (100 ml)	0.07	P07
61	Multi Element Standard Solution for ICP - 15 Elements; 10 mg/L each Pt, Pd, Rh, Ir, Au, Ru, Zr, Hf, Ta, W, Ge, Te, Os, Re, Sn, in 5% HCl In accordance with NIST (100 ml)	0.18	P07
62	Plastic container round 500ml (Round Jar with removable lid, threaded or screw type) Material-PET 36nos.	0.02	P07
63	Plastic container round 1000 ml (Round Jar With removable lid (threaded or screw type) Material-PET 48nos.	0.48	P07
64	Plastic container with Lid- 10L 24nos.	0.04	P07
65	Open Top round Plastic container with Lid 24nos. i. Capacity- 50 Ltr. ii. Material of Container – HDPE iii. Handle at both sides of Drum	0.34	P07
66	Full Face Masks with Respiratory Filter 10nos.	0.13	P07
67	repairing servicing and installation of laptop computer	0.07	P07
68	TEMP CHECK MAKE: "ORTON" (USA), HTS, TEMP. RANGE: 1075-1420C DEGREE (EACH BOX 25nos) 4 boxes	0.22	P07
69	TEMP TAB, MAKE: "ORTON" (USA), TEMP TAB 600, TEMP. RANGE: 1100-1300C DEGREE (EACH BOX 25nos.) 4 boxes	0.39	P07
70	Conical flask Transparent Borosilicate glass, graduated wide-necked bottle, capacity 250ml 30nos.	0.07	P07
71	Laser Cartridge 925, OEM Cartridge for Canon Printer Image CLASS MF3010	0.06	P07
72	Laser Jet Toner Cartridge CC388XC, OEM Cartridge for HP Printer HP Laserjet Pro M202dw	0.06	P07
73	Open Top Round Plastic Container with Lid, Capacity- 85 Ltr, Material of container-HDPE, Handle at both sides of container 24 nos.	0.4	P07
74	Diamond impregnated drill bit (cutter blade for RUL samples) 2nos.	0.56	P07
75	White Aluminium oxide powder (size: grit no.80) 50kg	0.15	P07
76	Document File Folder, (A4) size document, with button lock	0.12	HCP002502 (WP05)
77	Plastic container round 1000 ml (Round Jar With removable lid (threaded or screw type) Material -PET	0.04	HCP0054 (WP08)
78	Plastic container with Lid- 10L	0.04	HCP0054 (WP08)

79	Plastic container round 500ml (Round Jar with removable lid, threaded or screw type) Material-PET	0.02	HCP0054 (WP08)
80	Plastic container round 2000ml (Round Jar with removable lid, threaded or screw type) Material-PET	0.04	HCP0054 (WP08)
81	Open Top round Plastic container with Lid Capacity- 50 Ltr	0.35	HCP0054 (WP08)
82	Open Top round Plastic container with Lid Capacity- 100 Ltr	0.24	HCP0054 (WP08)
83	TEMP TAB, MAKE: "ORTON" (USA), TEMP TAB 600,	0.4	HCP0054 (WP08)
84	TEMP CHECK MAKE : "ORTON" (USA), HTS, TEMP. RANGE :1075	0.22	HCP0054 (WP08)
85	Test Sieves (Brass frame Diameter -20cm) Aperture Size - 212 micron	0.32	HCP0054 (WP08)
86	Test Sieves (Brass frame Diameter -20cm) Aperture Size - 500 micron	0.32	HCP0054 (WP08)
87	Test Sieves (Brass frame Diameter -20cm) Aperture Size - 250 micron	0.32	HCP0054 (WP08)
88	Test Sieves (Brass frame Diameter -20cm) Aperture Size - 300 micron	0.32	HCP0054 (WP08)
89	Test Sieves (Brass frame Diameter -20cm) Aperture Size - 355 micron	0.32	HCP0054 (WP08)
90	Test Sieves (Brass frame Diameter -20cm) Aperture Size - 75 micron	0.32	HCP0054 (WP08)
91	Alumina Tray, Capacity -1000 ml Dimension (Approx.) L-200 mm Capacity -1000 ml Dimension (Approx.) L-200 mm W-150mm H-50mm Al2O3 content â‰“ 99 % Min.	0.48	HCP0054 (WP08)
92	Laser Jet Toner Cartridge :W1370A OEM Cartridge for HP Printer Laserjet M233dw	0.15	HCP0054 (WP08)
93	Laser Jet Toner Cartridge :TN2365 OEM Cartridge for Brother Printers: HL-L2321D, DCP-L2541DW	0.16	HCP0054 (WP08)
94	Writing pad 500 nos	0.3	HCP002502 (WP05)
95	Pen 500 nos	0.05	HCP002502 (WP05)
96	Spring files 200	0.1	HCP002502 (WP05)
97	Box files 100	0.1	HCP002502 (WP05)
98	Copier Paper A4 40 packets	0.12	HCP002502 (WP05)

99	White/Cloth Envelope 500	0.05	HCP002502 (WP05)
100	Marker Pen 100	0.05	HCP002502 (WP05)
101	Battery Cell AA/AAA 100	0.05	HCP002502 (WP05)
102	Register 2QR 100	0.12	HCP002502 (WP05)
103	External Hard disk 1 TB or more	0.45	HCP0054 (WP08)
104	External SSD 1 TB	0.20	HCP0054 (WP08)
105	Transit accommodation items	0.50	HCP0054 (WP08)
106	Printer cartridge	0.50	HCP0054 (WP08)
107	Safety related consumables	1.00	HCP0054 (WP08)
108	Ceramic Raw materials, dispersant binders, etc items.	0.50	HCP0054 (WP08)
109	Show case/ racks for project samples	1.00	HCP0054 (WP08)
110	Wall fixtures for sample display	0.30	HCP0054 (WP08)
111	Plastic bags and containers	0.30	HCP0054 (WP08)
112	First aid kits	0.20	HCP0054 (WP08)
113	Scintillation Detector assembly for PANalytical AXIOS XRF system	15.00	INFRA
114	980nm pump laser diode with driver module specs: optical power output: 300mW Input Voltage: 12V	6.00	GAP0191
115	Fabrication of spray coating platform with X-Y-Z movement	8.76	GAP0387
	4MD		
115	Fabrication of spray coating platform with X-Y-Z movement	8.76	GAP0387
116	(i) Nickel Oxide Target, NiO, 99.9 % pure, (ii) Tungsten Oxide Target, WO ₃ , 99.9 % pure, all are 2-inch dia (50 mm), 0.125 inch thick, Cu back plating	2.00	P07
117	Pirani Gauge, KF Clamp, 25 to 16 KF reducer with Centre O-ring, 2 m KF bellows (Pfeiffer)	2.00	P07
118	Accessories related to LT AFM/MFM (Pirani gauge with controller-01 no. KF 25 bellow 1 mtr-02 nos. KF 25 blank-02 nos. KF 16 blank-02 nos. KF 25 clamp with center ring and O-ring-05 set KF 16 clamp with center ring and O-ring-05 set KF 25 to KF 16 adapter -02 nos.	1.99	P07

	6mm PU connector (union)-02 nos. 8mm PU connector (union)-02 nos. 6 mm PU tube -20 mtr 8 mm PU tube -20 mtr. Helium gas with cylinder)		
119	250 ml Zirconia Jar RETSCH PM100	8.10	P07
	ACCD		
120	Filter paper, Pore size 8 micron	0.08	P07
121	Servicing of Chiller Astro Furnace	1.50	P07
122	Single phase thyristor 120 Amp	1.50	P07
123	Gas manifold of the controlled tube atmosphere furnace	0.75	P07
124	Vacuum gauge and KF fittings	0.40	P07
125	Replacement of HHV vacuum pump FD60A	2.00	P07
	BMDD		
126	Monitor for Instron hip simulator machine	0.30	P07
127	PDMS, PVDF, Ammonium niobate oxalate, Bovine serum albumin, 2',7'-Dichlorofluorescein Diacetate, 1,3-Diphenylisobenzofuran, Sodium acetate, cell culture consumables	1.80	P07
128	Chemicals: Y2O3, Gd2O3, Er2O3, Yb2O3, Ho2O3, Lu2O3, SiO2	3.52	P07
129	Glass ware, Zinc nitrate hexahydrate, Calcium nitrate tetrahydrate, Aluminium nitrate nonahydrate, EDTA, Silver nitrate, Magnetic beads, Cell line NIH3T3 (Skin fibroblast cell from mouse origin),	0.67	P07
	EMDD		
130	Gold target, 2-inch, 0.2 mm thick	1.70	P07
131	Platinum target, 2-inch, 0.2 mm thick	2.00	P07
132	Spare De-ionized water feeding arrangements to apply steam in pyro-gasification experimental set-up (Flow range: 5-200 mL/min)	0.70	P07
133	Chemicals: (i) Tetraethyl orthosilicate - 4ltr;--Qty- 1no, (ii) (3-Glycidioxypropyl)trimethoxysilane 1ltr;--Qty-2 nos and (iii) 1,1,1,3,3,3-Hexamethyldisilazane 500 ml; Qty--2 nos	1.02	P07
134	Chemicals: 3,8-Diamino-5-methyl-6-phenylphenanthridin-5-ium bromide , 1,4-Dioxane, P-Toluene sulphonic acid monohydrate, Trifluoromethanesulfonic acid, 1,3,5-Tris(4-aminophenyl)benzene, Toluene, 6-Phenylphenanthridine-3,8-diamine, 98%, Methanol, Aniline, Benzene-1,3,5-tricarbaldehyde, 96%, 4,4',4'',4'''-(Ethene-1,1,2,2-tetrayl)tetraaniline, 97%, Terephthalaldehyde, 98%, 2-(Trifluoromethyl)benzene-	1.30	P07

	1,4-diamine, 98%, 1,4-Phenylenediamine, 98%.....		
135	Carbon Cloth	0.17	P07
136	Ni foam	0.34	P07
137	Perfluorosulfonic acid (PFSA) Resin Dispersion (5wt%)	0.08	P07
138	Perfluorosulfonic acid (PFSA)-Proton exchange membrane N117 (PEM)	0.41	P07
139	Glasswares: Soxhlet extractor body and condenser, Schlenk line and schlenk tube.	1.90	P07
	FOPD		
140	Gold (Au) and Platinum (Pt) target for ion coater	3.5	P07
141	High Purity (99.97%) Hydrogen Gas, 30 Cyl @6372	2.00	P07
142	High Purity (99.5%) Oxygen Gas, 23 Cyl @4,720	1.10	P07
143	High Purity (99.999%) Nitrogen, 21 Cyl@4720	1.00	P07
144	High Purity (99.999%) Argon, 18 Cyl@5,500	1.00	P07
145	Inductive Cylindrical Sensor M08 12 24V, 20 pc	1.00	P07
146	High temperature Line heater Thermosensor W-M-303-1.6 (150/1500)/SIL-4.1/10B, 10 pc	2.00	P07
147	High temperature valve box heater Thermosensor W-M-303-1.6 (1000/15000)/SIL-4.1/10B, 10 pc	2.20	P07
	FMDD		
148	Chemical & Biologics: Aptamers/probes and linkers/reagents for HCV core antigen assay development and validation (recombinant HCV core standard and probes; APTES; glutaraldehyde; graphene oxide; related assay consumables).	1.60	P07
149	MFC for hydrogen	2.00	P07
150	TARGET FOR SPUTTERING Pb (Zr0.52Ti0.48) O3 - 3-inch dia, 3mm thick, purity 99.9% with 1mm thick Cu backing plate. Qty:1 Gold Target, 50.8 mm Dia, 0.1 mm thickness, 99.99% purity without backing plate. Qty:1	2.64	P07
151	Chemical: tungtant chloride 10 Grms ×2 ; Ethylene Glycole 500 MI ×4 26000 For Lab uses; Amonium Molybdate 100 grm ×2 14000 ; Tetra Hydrofurane 1 ltr 18000	0.76	P07
152	Palladium Powder 5 grm	2.50	P07
153	Gas pipe line System For Room -SH306 and SH304 (Suggested by safety committee)	1.35	P07
154	RISK-V Processor	0.20	P07
155	NFC sensor data reading platform	0.60	P07

156	Chemicals Al-tri-sec Butoxide (97%), 500g*2	0.30	P07
157	Acetone, ACS reagent grade, 99.9% pure, 2.5 L*4 Auric Chloride	0.14	P07
158	Tedlar bag (2 L) Rs 4720*5	0.24	P07
159	2% H2 gas Cylinder, balanced with air	0.15	P07
160	1% H2 gas Cylinder, balanced with air	0.15	P07
161	1000 ppm H2 gas Cylinder, balanced with air	0.15	P07
162	500 ppm H2 gas Cylinder, balanced with air	0.15	P07
163	100 ppm H2 gas Cylinder, balanced with air	0.15	P07
164	Zero air Gas (99.999%) cylinder	0.15	P07
165	Chemicals Diemethyl Adepate 25L	0.40	P07
166	Molybednum Foil ,Thickness-0.1mm 7 piecs For Lab uses	0.80	P07
167	Chemicals; Aluminium nitratre Nano hydrate 500 G Aluminium Isopropoxide 100g Chloroplatinic Acid Hexa hydrate 5Grm*2	0.81	P07
168	MFc for Existing gas meaurement setup 1 For measuremnet of different Gas sensor	1.78	P07
169	Z247634 Coors™ high-alumina crucible High form, capacity 50 mL*2	0.17	P07
170	Z561754 Coors™ high alumina combustion boat capacity 20 mL*2	0.24	P07
171	NaBH4	0.22	P07
172	Sodium tetrachloropalladate(II), 1 gm *2	0.40	P07
173	Chloroplatinic acid hexahydrate, 5 gm*2	0.71	P07
174	Chemical Tetra decane 2.5L*10	3.1	P07
175	Tungsten (VI) chloride, 100 gm	0.36	P07
	MSTD		
176	Fluoride Ion Selective electrode	1.40	P07
177	Chloride Ion Selective electrode with calibration standard, buffer and filling solution	1.70	P07
178	Multimeter pH & cond./TDS calibration standard.	0.15	P07
179	Arsenic test kit (range 0.005 - 0.50 mg/l) & Iron test kit (range 0.05 - 1.0 mg/l)	0.60	P07
180	Glass fermentation bottles, 1000 mL (Amber Colour) - 20 Nos.	1.50	P07
181	Membrane housing module for ceramic tube (ID/OD	0.48	P07

	7mm/10mm) SS 304 make		
182	Carboxen 1000 Column-15mtrs for Gas Chromatography	1.12	P07
183	5µL Microlit Syringe for Manual injection of Liquid - 5 Nos.	0.58	P07
184	Refilling of Hydrogen , Zero Air, Helium Gas	1.00	P07
185	Glass fermentation bottles, 2000 mL (Amber Colour) - 10 Nos.	1.30	P07
186	Repairment of gas collection lines for membrane photobioreactor set up with replacement of spares (flexible pipe lines , cylinder brackets, panels, fittings and installation charges)	2.50	P07
187	Repairing and upgradation of Microbial Electrochemical Cell (MEC) set up	1.50	P07
188	Repairing of ion selective meter with replacement of dissolved CO2 electrode and dissolved O2 electrode	2.50	P07
	RTCD		
189	spares of Dilatometer	4.50	P07
190	OriginPro V2026 software- academic version- 4 licences	2.50	P07
191	Profile based temperature controller x 2	0.50	P07
192	Thyristor x 2	0.50	P07
193	UPS servicing work	0.20	P07
	SGD		
194	Spare parts related to servicing of clean room	2.75	P07
195	Kuraray Trosifol® B500 Clear Interlayer	3.5	P07
	Khurja Centre		
196	Gas burner (Bunsen type), 4nos	0.35	P07
197	Pipette pump (02 ml, 10 ml and 25 ml) 03 no each (total 09 no.)	0.04	P07
198	Whatman Filter Paper No. 40 or equivalent, dia 125 mm, Pore size 8µm, thickness 0.2 mm (2 box)	0.10	P07
199	Whatman Filter Paper No. 42 or equivalent, dia 125 mm Pore size 2.5µm, thickness 0.2 mm (2 box)	0.10	P07
200	Whatman Filter Paper No. 41 or equivalent, dia 125mm, Pore size 20µm, thickness 0.21 mm (2 box)	0.10	P07
201	Mohs' Hardness Test Kit for Industrial Applications (1 pc_	0.22	P07
202	hydrochloric acid commercial grade 40 Kg * 2	0.04	P07
	Instrumentation		
203	Servicing of two nos Laptop and Desktop(these are not	0.37	P07

	under AMC)-4nos		
204	UPS battery 12V 7Ah-10nos	0.15	P07
205	Profile based controller - 2nos	0.40	P07
206	Multimeter-1 nos	0.12	P07
207	K-type Mi thermocouple-2nos	0.10	P07
208	3-phase SSR, 50A-2nos	0.20	P07
209	PCB terminal block 10pitch-50 nos	0.01	P07
210	Indicator lamp 3 colour-30 nos	0.03	P07
211	Transformer 12-0-12-10nons	0.06	P07
212	Transformer 14-0-14-10nos	0.06	P07
213	Transformer 16-0-16-10nos	0.06	P07
214	MCB 2pole 22A-4nos	0.03	P07
215	MCB 2pole 32A-4nos	0.03	P07
216	Screw driver Big Size-6nos	0.03	P07
217	Screw driver small size-4nos	0.02	P07
218	Ceramic connector for therm-15nosocouple	0.01	P07
219	SS screw nut-100nos	0.02	P07
220	Machine screw-50nos	0.01	P07
221	12V adapter-8nos	0.05	P07
222	12V charger-8nos	0.05	P07
223	Screw driver set-4nos	0.03	P07
224	Minieature screw driver set-2nos	0.01	P07
225	RTD sensor PT-100-6nos	0.04	P07
226	NTC sensor-6nos	0.02	P07
227	Ceramic protective tube for thermocouples -10nos	0.06	P07
228	USB C to HDMI Adapter-2nos	0.10	P07
229	Mini mixing switch 6mm-2nos	0.25	P07
230	USB extender over cat 6 cable-1nos	0.21	P07
231	Cable with male HDMI to male display port , 3 mtrs length , braided .-2nos	0.10	P07
232	HDMI Splitter 1 in 4 Out with Resolutions up to 4K @ 30Hz HDMI 1.4 & HDCP 1.4 Compliant and auto switching power supply-2nos	0.12	P07

233	4K HDMI Matrix Switch 2 X 2 supporting Upto 4K @ 60Hz 4:4:4 , HDR, HDCP 2.2-2nos	0.22	P07
234	4 Inputs - 4 output HDMI Matrix switch with Video resolution up to 4K@60Hz supporting HDR, HDR10, HDR10+, Dolby Vision -1nos	0.26	P07
235	POINTER for wireless presentation remote with 2.4 GHz wireless technology & less than 1 mW laser output -4 nos	0.02	P07
236	Computer SSD 500GB-3nos	0.62	P07
237	WIRELESS KEYBOARD AND MOUSE COMBO with wireless range 10 meters , Spill-resistant Keyboard , Caps lock indicator light & line-by-line Scrolling , 2D optical Scroll Wheel . -3nos	0.25	P07
238	Button battery SR44SW,1.55V-2nos	0.02	P07
239	Optical Mouse-2nos	0.01	P07
240	Usb C to 3.5mm -2nos	0.06	P07
241	Cloth bcover thick-4nos	0.05	P07
242	40/36 wire-2coils	0.06	P07
243	wi-fi switcher-2nos	0.07	P07
244	Hand Vacuum cleaner-1no	0.06	P07
245	XLR mail/female socket-6set	0.06	P07
246	3.5mm AUX mail mono plug socket-10nos	0.03	P07
247	Cable with male HDMI to male display port , 1.5 mtrs length , braided .- 1 nos	0.03	P07
248	Cable with 4 PORT usb 3.0 Hub , 1.2 mtr of Transmission Speed 5GBPS & universally compatible-2nos	0.02	P07
249	Cable with connector DP male to DP male 1.5 mtr/2 mtr length , supporting UHD resolution-1nos	0.03	P07
250	5 mtrs 8K HDMI male to male cable with ethernet supporting major video formats .-2nos	0.05	P07
251	10 mtrs 4K HDMI braided shielded male to male cable with metal connector & nylon outer sheath.-2nos	0.06	P07
252	Male USB A to female USB A USB extension USB 3.0 Cable, 1.5 mtr / 1.8 mtr length, with 5 Gbps data transfer speed-2nos	0.04	P07
253	Male USB A to female USB A USB extension USB 3.0 Cable, 3 mtr length, with 5 Gbps data transfer speed-2nos	0.08	P07
254	Male USB A to female USB A USB extension USB 3.0 Cable, 5 mtr length, with 5 Gbps data transfer speed-2nos	0.09	P07

255	USB A to USB B 3.0 cable 5 mtr length with data transfer speeds up to 5Gbps-2nos	0.07	P07
256	Type C 6-IN-1 docking station with 4K HDMI Port, 1GBPS RJ45 Ethernet Port, 3 USB Port 3.0 & Type C 3.0 PD 100W,-2nos	0.04	P07
257	USB Charging Adaptor 18W Dual Port Charger with 300 volt or more surge protection -2nos	0.03	P07
258	VGA male To VGA male Converter Cable 3 Meter 15 Pin for PC/ Monitor/ Lcd/ Led/Projector support -3nos	0.02	P07
259	Battery Non-Rechargeable alkaline AA, 1.5 V, 14.5 mm dia cylinder shape with anti-leak protection . -48nos	0.04	P07
260	Battery Non-Rechargeable alkaline AAA, 1.5 V, 10.5 mm dia cylinder shape with anti-leak protection - 48 nos	0.04	P07
261	Battery Non-Rechargeable alkaline zero mercury & cadmium , 170 gm , 9V . -6nos	0.03	P07
262	Compact Charger - for AA, AAA & 9V Rechargeable having battery protection against short - circuits and reverse polarity. 2nos	0.04	P07
263	POINTER Power Pen Laser Light USB Rechargeable Green Laser, 500 Metres range or more -2nos	0.02	P07
264	Rotary Extension Board with USB C USB A Extension Board with Switches Universal Sockets LED Indicator-5 mtr Extension Cord, Multi Plug Socket with Safety Shutter (4 Sockets + 3USB Retractable)-4 nos	0.09	P07
265	Digital Battery Tester for 9V 1.5V and AAA,C,D and Cell Button Type batteries.-2nos	0.02	P07
266	Whiteboard Marker set comprising 4 Markers with 4 Assorted Ink Colours and 1 Duster with easily refillable and erasable ink-3nos	0.02	P07