

CSIR-Funded Annual Procurement Plan 2023-24 as on Sep 12 , 2023

CSIR - Funded NON-CONSUMABLE (Below Rs. 5.00 lakh)			
S.No.	Project No.	Item Name	Qty.
1	MLP 231832	Vacuum Pumps	2
2	MLP 231832	Homogeniser	1
3	MLP 231832	Syringe Pumps	2
4	NWP 100	Thermal Imager	1
5	NWP 100	Moisture Meter	1
6	NWP 100	Temperature Oven	1
7	NWP 100	Dewar flask for ice point (02 no's)	2
8	NWP 100	Pyrometer	1
9	NWP 100	Hygrometer	1
10	NWP 100	Anti-vibration table	2
11	NWP 100	UPS, 5 kVA	1
12	NWP 100	Mass Flow Meter	1
13	NWP 100	Rotameter and other accessories and fitting	1
14	NWP 100	Printer (Multi Function)	2
15	HCP 0101	Maintaining Class rooms and Jigyasa Lab , Civil Work , Electrical Work	As Req
16	HCP 0101	Lab Tables , Cupboards, Chairs , Tables , Computer tables etc	As Req
17	HCP 0101	1 KVa with 4-5 hours of backup	2
18	HCP 0101	Multifunctional machines , colour printing, composite cartridge , RAM: 1024, Min Speed per min: 21, Scanner , WiFi enabled, Cartridge Yield : 625, Yield of Ink: 1500, Duty Cycle : 30000 per month	1
19	HCP 0101	Intel Core i5 , RAM : 8GB (Expandable to 32GB or more , Storage : 1000 GB or more, Mpnitor/Display: 23.8" or more	1
20	HCP 0101	Smart Boards	3
21	HCP 0101	Battery operated Digital Multimeter	20
22	HCP 55	Coil Winding Machine	1
23	HCP 55	Two stage oil sealed Rotary vacuum pump	2
24	HCP 55	Racks and Mounting systems for measurement	2
25	HCP 55	Fabry Perot interferometer & controller,	1
26	HCP 55	Photodetectors	4
27	HCP 55	High Speed workstation	1
28	HCP 55	Digital Oscilloscope (for initiating SQUID measurements in the CCC)	1
29	MLP 201232	Portable humidifier 2-5 liters	1
30	MLP 201232	Rotameters	4
31	MLP 201232	Pressure, temperature and humidity sensor	2

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32	MLP 201232	Pressure gauge (differential type)	2
33	MLP 201232	Manometer	2
34	MLP 201232	High stability liquid temperature bath (20 to 50 °C), Stability 0.01 °C along with blackbody cavities for thermal imagers and ear thermometers	01 No
35	MLP 201232	Fabrication of blackbody cavities, high emissivity black paint for the cavities, liquid for bath, etc	01 Set
36	MLP 201232	Clinical IR Thermal Imagers/Scanners (02 nos)	1 Set

(CSIR - Funded) NON - CONSUMABLE (Above Rs. 5.00 lakh)				
S.No	Project No.	Item Name	QTY	Est. Cost
1	MLP 231832	Fabrication of set-up for production of CNT paper of size 1 m x1 m at batch scale	One	7.00
2	MLP 231832	Fabrication of set-up for production of CNT paper roll at semicontinuous scale	One	10.00
3	MLP 231832	Source meter and its accessories	One	8.00
4	MLP 201232	Penetration Test Cell	7	88.00
5	MLP 211632	Low Liquid Flow measurement System	1	18.00
6	MLP 231932	Tera Ohm meter	1	45.00
7	MLP 231932	Standard high value resistors	6	32.00
8	MLP 231932	Capacitors standard	2	12.00
9	MLP 231932	Ultrastable Low noise Current Amplifier	1	30.00
10	NWP 100	Air Compressor with Dryer	1	5.00
11	MLP 211632	PZT Actuator	1	11.00
12	MLP 211632	Development of primary vacuum and pressure standard in the range of < 150 kPa	1	100.00
13	MLP 211632	Precision digital thermometer (0.07 ppm) with multi-channel accessory	1	40.00
14	MLP 211632	Dynamic Pressure Calibration System	1	70.00
15	MLP 211632	Sound Level Meter Calibration Facility	1	50.00
16	MLP 211632	Mass Comparator for density, 200 g, d=0.001mg	1	20.00
17	MLP 211632	UV Radiometry Setup	1	95.00
18	MLP 211632	Acoustic Emission Measurement Facility	1	30.00
19	MLP 211632	Modernisation of Viscosity Measurement System	1	15.00

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20	MLP 211632	Digital Pulse Receiver	1	8.00
21	MLP 211632	Low Liquid Flow Measurement System	1	15.00
22	HCP 52	Storage Chamber with Accessories	1	7.00
23	HCP 52	Kjeldahl equipment	1	5.00
24	HCP 53	DC power supply for Redox Flow battery	1	5.00
25	HCP 53	Accessories for RFB workstation	1	5.00
26	HCP 55	Force comparator with coil*	1	240.00
27	HCP 55	Permanent Magnet system*	1	270.00
28	HCP 55	Optics, Laser (primary realization option) + Laser Interferometer measurement system	4 sets	200.00
29	HCP 55	Vacuum system, Translation Stages, Mechanics*	1	90.00
30	HCP 55	Sensors and control electronics	1	30.00
31	HCP 55	Precision voltmeters	4	40.00
32	HCP 55	Programmable current sources	4	30.00
33	HCP 55	FG5 (absolute gravimeter), CG5 (relative gravimeter)	1	220.00
34	HCP 55	15 t crane and other accessories.	1	30.00
35	HCP 55	PJVS, QHR systems (PJVS Device + Cryostat, QHR cryostat + superconducting magnet) existing measuring electronics can be used	1	200.00
36	HCP 55	High precision resistors with air bath	1	25.00
37	HCP 55	Branded work station (one) and Branded PC (two)	1	20.00
38	HCP 55	Creation of laboratory with precision mounting and environment control system	1	100.00
39	HCP 55	Low noise current source	1	6.00
40	HCP 55	Nano-voltmeter	1	19.00
41	HCP 55	SPRTs (Capsule and Long-Stem)	2, 2	20.00
42	HCP 55	¼ inch Microphones (08 nos) and Loudspeakers (04 nos) 1-100 kHz	4	20.00
43	HCP 55	Pre-amplifiers (05 nos)	5	10.00
44	HCP 55	Actuator Supply (05 nos)	5	10.00
45	HCP 55	Acoustic Analyzer (two channel), 1-100 kHz	1	15.00
46	HCP 55	Waveform generator (100 kHz) and DAQ	1	10.00
47	HCP 55	Microwave Probes (08 nos) – Specially developed	8	8.00
48	HCP 55	Vector Network Analyzer (up to 40 GHz)	1	45.00

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49	HCP 55	Fabrication of copper cylindrical resonator, pressure vessel and assembly	1	35.00
50	HCP 55	Digital pressure indicator -	2	14.00
51	HCP 55	Cartridge Heaters at resonator- pressure vessel and RTDs	2, 2	5.00
52	HCP 55	High precision digital thermometer	1	35.00
53	HCP 55	10 MHz frequency counter	1	5.00
54	HCP 55	Data acquisition IEEE GPIB cables and Labview software and DAQs	1 set	10.00
55	HCP 55	Lock-in-amplifier	1	15.00
56	HCP 55	LN2 circulator bath	1	30.00
57	HCP 55	Low temperature circulating bath (-80 °C)	1	30.00
58	HCP 55	T.P. of Argon with realization apparatus	1	35.00
59	HCP 55	Furnace for Cylindrical cavity resonator (1000 oC)	1	30.00
60	HCP 55	High temperature blackbody fixed points with furnace up to 3000 oC	1	100.00
61	HCP 55	Linear Spectral Pyrometer/Filter radiometer	1	70.00
62	HCP 55	Vibration free optical table and mounting accessories	2	10.00
63	HCP 55	81/2 DMM/ Potentiostat/ Source meter	1	20.00
64	HCP 55	(2P-2T Humidity Generator and Dew Point Hygrometer)	1	250.00
65	HCP 55	Equipment for Digital SI	4	200.00
66	HCP 55	UHV Deposition Chamber	1	170.00
67	HCP 55	Cryogen-free ultra-low noise cryostat in the temperature range 2-300K equipped with superconducting magnet, dual voltage and current biasing module, capabilities to rf coupling	1	450.00
68	HCP 55	Quantum Transport measurement system: Ultra-low noise electronics setup for quantum transport measurements (Lock-in amplifiers, current preamplifiers, SMUs, DC voltage source, spectrum analyzer, low current measurement unit, nanovoltmeter, temperature controller, ultra-low noise current amplifiers (ULCA) etc.)	1	80.00
69	HCP 55	Electro Optic Modulators	3	15.00
70	HCP 55	RF Drives and Amplifiers	3	15.00
71	HCP 55	Acousto-optic modulators	4	10.00
72	HCP 55	Vacuum Pumps, gauges & accessories	2	12.00

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73	HCP 55	Frequency synthesizer/Function generator	4	10.00
74	HCP 55	Clock Laser with ULE cavity with accessories	1	450.00
75	HCP 55	PMT detector	1	10.00
76	HCP 55	CCD/CMOS camera	1	5.00
77	HCP 55	Fast Photodiode	1	5.00
78	HCP 55	Nominal and small/minor equipment electrical, optical & fiber	1	25.00
79	HCP 55	Gaussmeter/Teslameter	1	12.00
80	HCP 55	Power/Energy meter	3	5.00
81	HCP 55	Optical isolator	4	15.00
82	HCP 55	Oscilloscopes	3	7.00
83	HCP 55	DC power supplies	2	5.00
84	HCP 55	Beam profiler	1	5.00
85	HCP 55	Laser and Wavemeter	1	75.00
86	HCP 55	Time Tagger	1	18.00
87	HCP 55	ECDL Laser Systems (one laser diode and one laser diode with amplifier) with frequency stabilization control electronics and associated accessories for Primary Frequency Standard	1	90.00
88	HCP 55	Wavelength meter with switch	1	100.00
89	HCP 55	RF spectrum analyzer upto 13.7 GHz	1	20.00
90	HCP 55	Turbo molecular pump	1	20.00
91	HCP 55	Microwave Cavities	2	35.00
92	HCP 55	IR Viewer	1	10.00
93	HCP 55	CCD Camera	1	10.00
94	HCP 55	Power meter for upto 4 W power	1	5.00
95	HCP 55	Mixed domain oscilloscope	1	10.00
96	HCP 55	Tunable microwave synthesizer	1	15.00
97	HCP 55	Fabry-Perot Interferometer	1	5.00
98	HCP 55	Regulated DC Power Supplies	4	10.00
99	HCP 55	Workstations	2	10.00
100	HCP 55	Function generator	2	5.00
101	HCP 55	Environment monitors	2	10.00
102	HCP 55	Data logger	1	5.00
103	HCP 55	Data Acquisition Cards with labview software	2	10.00
104	HCP 55	Shutters	6	10.00

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105	HCP 55	Vacuum-air transfer system (Vacuum chamber/container, pumps, gauges, etc.) (1 No.)	1	50.00
106	HCP 55	Weighing balances (1Nos.)	1	50.00
107	HCP 55	Volume/density measurement system	1	70.00
108	HCP 55	Standards weights – 1 kg, E0/E1 class	4	25.00
109	HCP 55	Standards weights – 1 mg to 50 kg, E0/E1 class (1sets)	1	35.00
110	HCP 55	Roundness machine - non-contact (1 No.)	1	150.00
111	HCP 55	Length Measuring Machine (1 No.)	1	60.00
112	HCP 55	Laser Interferometer (Pico Meter Distance Measurement) (1 No.)	1	60.00
113	HCP 55	CCD/CMoS camera (5 No.)	5	10.00
114	HCP 55	Powder X-ray diffractometer (1 No.)	1	175.00
115	HCP 55	Environmental monitoring system (data logger) (6 Nos.)	6	10.00
116	HCP 55	Work stations – 5 Nos.	5	5.00
117	HCP 55	Minor equipments (DC Power Supply, Jigs and Fixtures for holding the Si sphere, etc)	1	10.00
118	HCP 55	1. QHRS System Comprising (1) 12T Superconducting magnet (2) variable Temperature insert having 12 pin TO8 (3) provision for VTI (4) Compatible cryogenic temperature controller (5) DCC resistance bridge (6) DRY scroll pump to achieve (7) QHR Devices (i) GaAs/AlGaAs based & (ii) Graphene based	1	550.00
119	HCP 55	Integrated Confocal Raman spectroscopy/micro-Raman Mapping - Multimode AFM system with accessories	1	250.00
120	HCP 55	Cryogenic Current Comparator (CCC) bridge/electronics for the highest precision measurement of resistance ratios at different levels from 1 Ohm to 1 MOhm (type A uc lower than 10 ppb).	1	150.00
121	HCP 55	Source measuring Units, Current sources and Nanovoltmeter	1 each	10.00
122	HCP 55	Closed Cycle Refrigerator (CCR, 4.2 K-350 K)	1	35.00

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123	HCP 55	Turbo molecular pump with backing pump	2	20.00
124	HCP 55	Two wavelength/Dual colour infrared optical pyrometer capable of measuring temperatures $\geq 2000^{\circ}\text{C}$ with interfacing kit	1	10.00
125	HCP 55	Throttle valve with controller	1	10.00
126	HCP 55	Thermally Stabilized Travelling Resistance Standards (1 - 1 MOhm)	1 each (total 6)	30.00
127	HCP 55	PRT thermometer with digital readout	2	10.00
128	HCP 55	High Precision Dual Channel Thermo-Hygrometer/ logger	2	5.00
129	HCP 55	JAWS chip Standalone 2V	1	50.00
130	HCP 55	Compatible Probe	1	20.00
131	HCP 55	Liquid Helium Dewar	1	20.00
132	HCP 55	Waveform Generator 30 MHz	1	5.00
133	HCP 55	High Speed Arbitrary Waveform Generators	1	18.00
134	HCP 55	2 Channel Broadband 50 GHz Modulator Driver/RF Amplifier	1	14.00
135	HCP 55	High Speed Counter Control AWG 4-channel isolated, prog. amplifier	1	10.00
136	HCP 55	Broadband Digitiser with high sampling rate	1	14.00
137	HCP 55	Thermal Transfer Standard	1	70.00
138	HCP 55	AC voltmeter	1	25.00
139	HCP 55	Cryocooler	1	20.00
140	HCP 55	Cryofree magnet (12/14 T) with adequate inserts and connections and the integrated measuring electronics suitable for AC/DC QHR	1	370.00
141	HCP 55	AC/DC QHE devices and the electronics associated with them	6	50.00
142	HCP 55	UPS with Isolation Transformer, 30 kVA	1	10.00
143	HCP 55	Data Acquisition/PXI Cards	4	30.00
144	HCP 55	High Precision Impedance (R /L/C) standards	4	30.00
145	HCP 55	Electron beam lithography (EBL) equipment	1	700.00
146	HCP 55	Inductively coupled plasma reactive ion etching (ICP-RIE) equipment	1	600.00
147	MLP 201232	Penetration Test Cell	1	5.00
148	MLP 201232	Bursting strength Tester (For Gowns Testing)	1	19.00
149	MLP 201232	Fluorescent spectrometer	1	20.00
150	MLP 201232	Humidifier with dry air controller	1	6.00
151	MLP 201232	Sheffield Head with sensors	1	7.00

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152	MLP 201232	Volume Calibration Syringes (100 ml, 500 ml, 1000ml, 3000 ml)	01 set	5.00
153	MLP 201232	IR Thermal Imager (-50 to 200 °C) (L.C. 0.1 oC or better)	01 no.	13.00
			Total	8983.00

(CSIR - Funded) CONSUMABLE (Below Rs. 5.00 lakh)			
S.No	Project No.	Item Name	Qty.
1	MLP 231832	Refilling of argon gas cylinders	20
2	MLP 231832	Refilling of Hydrogen gas cylinders	10
3	MLP 231832	Repairing of hydraulic presses	2
4	MLP 231832	Ferrocene	2 kg
5	MLP 231832	Quartz tube	1
6	MLP 231832	Refilling of CO2 gas cylinders	One
7	MLP 231832	Fabrication of die mould	One
8	MLP 231832	Miscellaneous - Emergent chemical, urgent repairing, batteries, minor fabrication or job work, stationary, etc	As per requirement
9	MLP 231832	Testing of samples	As per requirement
10	MLP 231832	Aramid fiber cloth	20 square meter
11	MLP 231832	Fabrication of CNT sheet stretching assembly	One
12	MLP 231832	Copper foil	25mm x1000 mm
13	MLP 231832	Furance heating rods	6 Nos
14	MLP 231832	Alumina reactor	1
15	MLP 231832	ASE Surfactant	As per requirement
16	MLP 231832	Triethylene tetraamine	2 x 500
17	MLP 231832	Polymer sheets	As per requirement
18	MLP 231832	Vacuum Oil	10
19	MLP 231832	Syringes	100
20	MLP 231832	Polyethyleneimine	250 ml
21	MLP 231832	Gallium alloy	100 gm
22	MLP 231832	Multimeter	2Nos
23	MLP 231832	Glass woolen	As per requirement
24	MLP 231832	Repairing of furnace	One Nos

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25	MLP 231832	Buffing Wheel, Cutter	As per requirement
26	MLP 231832	Fabrication of electrical conductivity measurement set-up	One
27	MLP 231832	Submersible pumps	6 Nos
28	MLP 231832	Thermocouples	4 Nos
29	MLP 231832	Poly(dimethylsiloxane)	500 gm
30	MLP 231832	Epoxy and Hardener	As per requirement
31	MLP 231832	Liquid Silicon rubber	2 kg
32	MLP 231832	TEM grids	As per requirement
33	MLP 231832	Fabrication of Chamber for the modification of existing CVD set-up	As per requirement
34	MLP 231832	Cutting of samples	As per requirement
35	MLP 231832	Filtration membrane as fine cloths, nylon, teflon, glass fiber	As per requirement
36	MLP 211732	High-purity Sb ₂ Se ₃ sputtering target	1
37	MLP 211732	n- and p-type 3 inch size Si(100) and Si (111) substrates etc	As per requirements
38	MLP 211732	Conducting silver epoxy, silver paste, silver paints etc	As per requirements
39	MLP 211732	Single crystals of 2D materials such as MoSe ₂ , WSe ₂ , MoTe ₂ , WTe ₂ etc	As per requirements
40	MLP 211732	DC micro-positioner	4
41	MLP 211732	Triaxial type Tip Holder: Spring type	4
42	MLP 211732	Probe tips: 5-micron dia	10
43	MLP 211732	Pulse DC power supply repair	1
44	MLP 211732	Coaxial cables and connectors	As per requirements
45	NWP 100	Chemicals, Electrical, electronic and mechanical components , tools , optics (like mirrors, beam splitters, windows).	As Per Requirement
46	NWP 100	Mounts and consumables , glassware plastic wares, filtration systems, dialysis membrane etc.	As per requirements
47	NWP 100	Miscellaneous - High Current Cables, copper earthing strip, special connectors, high quality connecting leads, adaptors.	As Per Requirement
48	NWP 100	Glassware	As per requirements
49	NWP 100	Chemicals	As Per Requirement
50	NWP 100	Pipes, fittings, adapters, fitting tools etc.	As per requirements
51	NWP 100	Electrical accessories- Three phase supply, MCCBs, extension board, etc.	As Per Requirement
52	NWP 100	Standard Viscometer	As per requirements
53	NWP 100	Standard Viscosity Oil	As Per Requirement
54	NWP 100	Silicon Oil	As per requirements

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55	NWP 100	Microprocessors, PID Controllers, connectors, electronic components and fabrication of electronic circuits and controllers.	As Per Requirement
56	HCP 0101	Pens , Notebooks , Measuring Tapes, Adhesives, Folders, Ink, Envelopes , Stickers, Markers, Chalk, A4 Sheets(200-300 gsm). A4 sheets (70-100 gsm), Chalk Boardetc	As Req
57	HCP 0101	Color Ink & Cartridge for Printer	As Req
58	HCP 0101	Beaker, Flask, Tissue roll, Gloves , Spatula, Filter paper, test tubes, unforeseen items for Jigyasa Class room activities etc	As Req
59	HCP 0101	Repair work of Class room Accessories , Smartboards, Chair, tables etc	As Req
60	HCP 0101	Windows , MS-Office etc	As Req
61	HCP 0101	RAM, Graphic Card, Memory Cards, Cables, Pendrives, SSD , HDD, keyboard , mouse etc	As Req
62	HCP 0101	HCl, NaCl, H ₂ SO ₄ , Vinegar, Baking Soda ,unforeseen items for Jigyasa Class room activities	As Req
63	HCP 0101	Video/ Animation Creating , Quiz creating, mentimeter, EasyFit etc	As Req
64	HCP 0101	Refreshments , Honorarium , Prize : Books , Educational Kits for students , Guest House Accomodation etc	As Req
65	HCP 0101	Weighing Scale , Thermometer , Multimeter, Vernier Calliper, Hooked Spherical Metallic Balls , LED, Diode, Resistors , Transistors, Bread Boards , Micro-controller Boards , Wires , connectors , Clips, unforeseen items for Jigyasa Class room activities	As Req
66	HCP 0101	Jumper Wire , Bread-Boards , Plastic Box, Banana Connectors , 9-V Battery with connector	As Req
67	HCP 53	Sieve for vaccum filtration	1
68	HCP 53	Nitrogen gas	10
69	HCP 53	helium gas	1
70	HCP 53	PTAA	100 mg
71	HCP 53	Lead (II) Bromide	5 g
72	HCP 53	2-Propanol	100 ml
73	HCP 53	Methylammonium bromide	10 g

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74	HCP 53	Ethyl Acetate anhydrous	100 ml
75	HCP 53	1,2-Dichlorobenzene	1L
76	HCP 53	1,4,5,8-Naphthalenetetracarboxylic dianhydride	25 g
77	HCP 53	Methanol	1L
78	HCP 53	Tetrahydrofuran	1L
79	HCP 53	Phosphoric acid	25 g
80	HCP 53	Sodium tungstate dihydrate	25g
81	HCP 53	Iron nitrate nonahydrate	10g
82	HCP 53	4,4'-bipyridine	25g
83	HCP 53	Copper (II) acetate monohydrate	10g
84	HCP 53	Trimesic acid	100g
85	HCP 53	Phosphomolybdic acid hydrate	10g
86	HCP 53	Zinc Bromide	500 g
87	HCP 53	potassium Chloride	500 g
88	HCP 53	Zinc Chloride	500 g
89	HCP 53	potassium iodide	200 g
90	HCP 53	ammonium chloride	500 g
91	HCP 53	vanadium sulphate	200 g
92	HCP 53	Zirconium chloride	200 g
93	HCP 53	isophthalic acid	500 g
94	HCP 53	sulphuric acid	5 lit
95	HCP 53	carbon fiber	2 kgs
96	HCP 53	ammonia solution (NH ₄ OH)	5 lit
97	HCP 53	carbon felt	1 sq meter
98	MLP 211732	Wafers of Sapphire, SiC, Germanium, etc.	As per requirements
99	MLP 211732	TEM Grid, Carbon & Copper Tapes, Diamond scribber	As per requirements
100	MLP 211732	Vacuum components like Flanges, Valves, View port, sample holder, etc.	As per requirements
101	MLP 211732	Quartz tube, Alumina boats, etc.	As per requirements
102	MLP 211732	Poster & Banner print	As per requirements
103	MLP 211732	Misc and unforeseen	As per requirements

(CSIR - Funded) CONSUMABLE (Above Rs. 5.00 lakh)				
S.No	Project No.	Item Name	QTY	Est. Cost
1	HCP 0101	VR Lab Projects : Software/ Animation Development, Video Content Ceation : Software , Labs , Instruments	As Req	11.00
2	HCP 53	Redox flow battery consumables	1	10.00
			Total	21.00

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UPDATED AS ON SEP 12 , 2023

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