

## EQUIPMENT LIST 2023-24

## ANNEXURE-I

S.No	Dept.	Description	Name of Manufacturer	Date of Purchase	Purchase of cost (Rs.)	Present Value (Rs.)
1	AE	LASER DOPPLER ANEMOMETER SYSTEM WITH ACCESSORIES (RGD LAB)	M/S. TSI INCORPORATED, USA	28.03.2007	8114680	₹ 8,114,680
2	AE	SERVO HYDRAULIC FATIGUE TESTING MACHINES WITH ACCESSORIES (STRUCTURES LAB)	M/S. INSTRON LIMITED UK	04.06.2007	6139537	₹ 6,139,537
3	AE	HIGH SPEED VIDEO CAMERA MODEL VRI V12-32-G-C	M/S. VISION RESEARCH INC USA	18.05.2009	4852800	₹ 4,852,800
4	AE	ND-YLF LASER FOR PIV	M/S. PHOTONICS INDUSTRIES INTERNATIONAL INC. USA	07.07.2009	5849525	₹ 5,849,525
5	AE	ND YAG LASER AND TUNABLE DYE LASER LASER YG 981E 9MM OSCILLATOR AMPLIFIER 1064 NM 1042 SN 0729801	M/S. QUANTEL SA, FRANCE	28.01.11	Euro 52,300 (Rs.4184000/-)	₹ 3,922,500
6	AE	ND-YAG LASER OSCILLATOR/AMPLIFIER Ø 6Ø 9MM 10MZ, 1200MJ @ 1064NM, 10HZ	M/S. QUANTEL S.A	29.03.13	Euro 48700 (Rs.3896000/-)	₹ 3,652,500
7	AE	TUNABLE DYE LASER TUNABLE DYE LASER, 420-750NM , FUNDAMENTAL, 2400L/MM GRATING , SCAN CONTROL TERMINAL, RS232 INTERFERENCE	M/S. QUANTEL S.A	29.03.13	Euro 37200 (Rs.2976000/-)	₹ 2,976,000
8	AE	PI-MAX3:1024I SB FG – P46-PRINCETON INSTRUMENTS PI-MAX3:1024I-SB INTENSIFIED CAMERA SYSTEM. 1:1 FIBRE OPTIC BONDED TO 18MM GENII, SB, FAST GATE INTENSIFIER W/P46	M/S.PRINCETON INSTRUMENTS, USA	23.07.13	USD 58495 (Rs.3509700/-)	₹ 3,509,700
9	AE	HIGH SPEED TOMOGRAPHIC PIV 4 CAMERA	M/S.LAVISION GMBH, GERMANY	31.07.2013	27884720	₹ 27,884,720
10	AE	PHASE DOPPLER PARTICLE ANALYSER	M/S.ARTIUM TECHNOLOGIES INC, U.S.A.	27.08.2013	12247763	₹ 12,247,763
11	AE	HOT WIRE ANEMOMETER WITH WELD ATTACHMENT AND COMPLETE ACCESSORIES	M/S.DANTECH DYNAMICS, DENMARK	05.08.2013	8450400	₹ 8,450,400
12	AE	DELL PRECISION T5600 WORKSTATION - 20 SET	M/S.DEV SYSTEM & SERVICES, CHENNAI	18.02.2014	3654000	₹ 3,654,000
13	AE	WAVELENGTH METER WS6-200 (STANDARD) -3NO WITH CALIBRATION LIGHT	M/S.HIGH FINESSE GMBH, GERMANY	30.01.2014	7912320	₹ 7,912,320
14	AE	COMPUTER CONTROLLED SUBSONIC WIND TUNNEL WITH ACCESSORIES	ARMFIELD LTD., ENGLAND	04.06.2014	Rs. 34,14,100/- GBP 34,141/-	₹ 3,004,408
15	AE	NDYLF 527NM WAVELENGTH DUAL CAVITY DOUBLE PULSED MODEL LDY304	M\S.LITRON LASER ,ENG	15.5.2015	GBP 61855	₹ 5,443,240
16	AE	AIR COMPRESSORS	INGERGOLL RAND INTERNATIONAL INDIA LTD, BANGALORE	09.7.2013	9,849,871	₹ 9,849,871
17	AE	ND YAG 1064 NM LASER	QUANTEL FRANCE	15.12.2014	5,024,997	₹ 5,024,997
18	AE	ND YAG PLUS TUNABLE DYE LASER QUANTAL MAKE	QUANTEL FRANCE	23.12.2014	20,376,279	₹ 20,376,279
19	AE	DANTEC HIGH SPEED PLIF	DANTEC DYNAMICS DENMARK	13.04.2015	55,514,195	₹ 55,514,195
20	AE	LITRON LASERS NDYAG 532NM WAVE LENGTH	LITRON LASERS, ENGLAND	13.04.2015	6,199,471	₹ 6,199,471
21	AE	MINI LDV	MEASUREMENT SCIENCE ENTERPRISES, CA	15.04.2015	14,953,296	₹ 14,953,296
22	AE	CONE CALORIMETER	GOVMARK LTD, USA	21.04.2015	6,826,815	₹ 6,826,815
23	AE	SPRAY PATTERNATOR	EN URGIA INC. USA	05.08.2015	11,445,491	₹ 11,445,491

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24	AE	HIGH SPEED CAMERA MOTION XTRA NXA 453	M/S.INTEGRATED DESIGN TOOLS, INC. U.S.A	20.10.2015	44,66,723	₹ 4,466,723
25	AE	FLOW FACILITY FOR SUPERSONIC COMBUSTOR	SIDDHARTH ENGINEERS	16.3.2015	5990625	₹ 5,990,625
26	AE	LASER & TRABSCEIVER MODULE, PDPA REVEIVER MOFULE, PHOTO DEDECTOR, SIGMAL VMVLYCER, RAILS AND MOUNWA;	M/S TSI INC.USA	23.03.2016	USD 81500	₹ 5,216,000
27	AE	OPEN CALORIMETER	DNG TECHNOLOGY PVT LTD	29.08.2017	3115200	₹ 3,115,200
28	AE	TOMO PIV	M/S TSI INC, USA	10.04.2018	D31,66,25/INR. 2,17,85,573	₹ 21,785,573
29	AE	High-speed camera	M/S ix Camera, USA	13.10.2017	USD121844/83,41,147	₹ 8,341,147
30	AE	Rotating Platform	Fabricated (M/S. TROTIX)	2014	Rs. 3000000	₹ 3,000,000
31	AE	HIGH SPEED CMOS CAMERA PCO DIMAX HS1, SN 9000000667	PCO GERMANY	28.03.2019	USD 43295 / RS. 3067991	₹ 3,067,991
32	AE	PI-MAX4-1024I-SB-FG-18-P46-CM, ICCD CAMERA, SN 03564719 &	PRINCETONINSTRUMENTS USA	20.12.2018	USD 66700 / RS. 4726527	₹ 4,726,527
33	AE	PARTICLE SIZE ANALYZER	MALVERN PANANALYTICAL LTD., UK	14.08.2018	GBP 31880/ Rs.2917020	₹ 2,917,020
34	AE	HIGH SPEED COLOUR CAMERA	ix CAMERAS LTD, USA	29.06.2019	US \$ 77030/ Rs. 5392100	₹ 5,392,100
35	AE	HIGH SPEED CMOS CAMERA PCO DIMAX HS1	PCO GERMANY	17.05.2019	US \$ 43295 / 3031000	₹ 3,031,000
36	AE	GDI ENGINE	MEDHAIVI CENTRE FOR AUTOMOTIVE	2018	4194865	₹ 4,194,865
37	AE	Biaxial Fatigue Testing System (as per specification attached)	M/s. Bangalore Integrated System Solutions (P) Ltd.	2018	90,75,661	₹ 9,075,661
38	AM	SERVO HYDRAULIC FATIGUE FRAME AND POWER PACK UNIVERSAL TESTING MACHINE. LOCATION: MSB 140, GF.	M/S. DMG DENSION MAYER GROUP LTD., ENGLAND	26.02.2003	4045000	₹ 2,382,600
39	AM	3D FLOW MASTER SF02020 STEREOSCOPIC PIV SYSTEM: 1 SET. LOCATION : FMB 107, GF	M/S. DAVISON GMBH, GERMANY	30.07.2007	9038127	₹ 6,955,000
40	AM	VIC - 3D DIGITAL IMAGAE CORRELATION SYSTEM. LOCATION:MSB 205, FIRST FLOOR	M/S. CORRELATED SOLUTION, USA	25.06.2009	3327750	₹ 2,861,400
41	AM	F/T SENSOR : ATI NANOS - 6NOS. LOCATION: AEROSPACE BUILDING, FIRST FLOOR, 154	ATI INDUSTRIAL AUTOMATION, USA	10.10.2013(\$ HIP DATE), 10.04.2013 (PO DATE)	3500000	₹ 3,206,000
42	AM	ELECTROMAGNETIC POSITION SENSOR, POLHEMUS ELECTROMAGNETIC TRACKERS-18 MICRO SENSORS, 4 STANDARD SENSORS, 1 STYLUS, 1 CALIBRATION KIT, 2 TRANSMITTERS AND ACCESSORIES, LOCATION: AEROSPACE BUILDING, 1ST FLOOR, 153	POLHEMUS, USA	03.12.2015(\$ HIP DATE), 24.09.2015 (PO DATE)	3500000	₹ 3,010,000
43	AM	BENCH-TOP LASER DIFFRACTION BASED DROP SIZE ANALYZER SYSTEM FOR HIGH INTENSITY SPRAYS	MALVERN PANALYTICAL LTD, UK	30.09.2020	GBP 55730 / Rs.52,94,455	₹ 5,294,455
44	AM	HIGH TEMPERATURE AND HIGH PRESSURE REACTOR SYSTEMS	PARR INSTRUMENTS, USA	10.05.2020	USD 72850 / Rs.55,02,579	₹ 5,502,579
45	AM	HIGH PERFORMANCE SERVER 2HEAD NODES, 16 COMPUTE NODES,OMNIPATH SWITCH 24 U RACK LOCATION : COMPUTER CENTRE	DELL	01.06.2019	102LAKHS	₹ 10,200,000
46	AM	10 + 1 NODE CLUSTER LOCATION : COMPUTER CENTRE		30.07.2021	1.25 CRORE	₹ 12,500,000

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47	AM	SHIMADZU AG-X PLUS 20 KN UTM. LOCATION : MSB 104B	SHIMADZU	04.04.2020	28 LAKHS	₹ 2,800,000
48	AM	SPLIT HOPKINSON PRESSURE BAR(SHPB ELECTRICAL UNITS ETC	LEVVAN ENGINEERING & AUTOMATION PVT LTD	05.09.2021	3566250	₹ 3,566,250
49	BT	THYPHOON TRIO PLUS ROOM, #317, BT BUILDING, S.NO.1508134	GE HEALTHCARE	24/11/2010	36,20,889	₹ 3,620,889
50	BT	LSM 710 LASER SCANNING MICROSCOPE	CARL ZEISS	April— 2009	20000000	₹ 20,000,000
51	BT	INVERTED FLUORESCENCE MICROSCOPE WITH LIVE CELL IMAGING	NIKON	09. Sep	67,00,000/-	₹ 6,700,000
52	BT	AUTOMATED DNA SEQUENCER S.NO.21364-011	APPLIED BIOSYSTEM	Apr-09	48,60,000/-	₹ 5,600,000
53	BT	BD FACS CANTO II SYSTEM WITH BD FACS LOADER S.NO.V96101110 ROOM NO.007	BD	10th April	64,50,000/-	₹ 6,450,000
54	BT	ULTRA CENTIFUDGE S.NO.LP10F08. ROOM NO.007	BECKMAN COULTER	10th Jun	32,69,115/-	₹ 3,500,000
55	BT	FUJI PHOSPHOR IMAGING ROOM NO.411	FUJI	8th sep.	32,29,600/-	₹ 3,500,000
56	BT	PHOSPHOR IMAGER (VERSA DOC), BIORAD	BIO-RAD FROM, HONG KONG	31.03.2011	36,70,867/-	₹ 3,670,867
57	BT	FLOW CYTOMETER, BECTON DICKINSON	BECTON DICKINSON FOSS NIR	20.02.2012	33,92,284/-	₹ 3,392,284
58	BT	FOSS NIR SYSTEM	FOSS NIR SYSTEM, USA	16.03.12	51,08,250/-	₹ 5,108,250
59	BT	SURFACE PLASMON RESONANCE SYSTEM (SPR) PROTEON XPR36 ARRAY SYSTEM	BIO-RAD PACIFIC LTD.,	23.03.12	1,27,30,110/-	₹ 12,730,110
60	BT	ORBITRAP ELITE	SCIENTIFIC , AUSTRIA	23,03.12	3,97,80,000/-	₹ 39,780,000
61	BT	HIGH SPEED FLUORESCENCE ACTIVATED CELL SORTING SYSTEM	MIS. BECTON DICKINSON HOLDINGS PVT.LTD.,	27.03.12	2,15,22,000/-	₹ 21,522,000
62	BT	X-RAY DIFFRACTION SYSTEM FOR MACROMOLECULAR CRYSTALLOGRAPHY	M/S. BRUKER AXS GMBH., GERMANY	27.03.12	3,24,02,473/-	₹ 32,402,473
63	BT	-500		01-05-2009	50,00,000/.	₹ 5,000,000
64	BT	CELL LAB QUANTA SC FLOW- CYTOMETER, S.NO.AM290088 ROOM, #005 BT BUILDING	BECKMEN COULTER	01-07-2008	36,00,000/.	₹ 3,600,000
65	BT	CLARUS 600 GAS CHROMATOGRAPH AND MASS SPECTROMETER (664N9110302) LAB 217,BT	PERKIN ELMER, UK	July — 2009	50,00,000/.	₹ 4,500,000
66	BT	SPECTRAL LASER SCANNING, CONFOCAL SYSTEM, S.NO.384000917	ZESSIS	01-04-2009	1863040	₹ 2,350,000
67	BT	COMPUTER CLUSTER BOSTON 4U SERVER SOLUTION (S/NO: S12989844112441, S12989844112443,S12989844112442,S12989844112438) BOSTON 2U SERVER SOLUTION (S/NO: C82500B05M01292)	BOSTON	23/01/2014	\$ 83100	₹ 5,070,365
68	BT	FLOW CYTOMETER WITH SORTER & LIQUID HANDILING SYSTEM ( S/NO: AW10011)	BECKMAN COULTER	02-11-2014	\$ 450000	₹ 27,456,750
69	BT	AKTA PURE M PROTEIN PURIFICATION SYSTEM	GE HEALTHCARE BIO-SCIENCES	01-04-2015	\$ 65250	₹ 4,349,238
70	BT	NNEXT SEQ 500 SEQUENCING SYSTEM	ILLUMINA	05-02-2015	\$ 327619	₹ 21,837,444
71	BT	BD FACS CANTO 2 BENCH TOP MULTICOLOUR CYCTOMETER	BECTON DICKINSON	01-04-2015	\$ 58000	₹ 3,865,990

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72	BT	ISOTHERMAL TITRATION CALORIMETER	GE HEALTH CARA BIO-SCIENCES LTD	21-08-2014	\$ 64000	₹ 4,265,920
73	BT	CONFOCAL IMAGING SYSTEM	CARL ZEISS MICRISCOPY GMBH	2015	EURO 102000	₹ 7,639,668
74	BT	CHRISCAN-PLUS QCD HIGH PERFORMANCE QUANTITATIVE CIRCULAR DICHROISM SPECTROMETER	APPLIED PHOTO PHYSICS LTD	2015	GBP 105000	₹ 10,000,000
75	BT	AUTOMATED CAPILLARY DIFFERENTIAL SCANNING MICRO CALORIMETER	MALVERN, UK	2015	USD 108700	₹ 7,300,000
76	BT	GENE EXPRESSION PROFILING SYSTEM	NANOSTRING TECHNOLOGIES INC. USA	2016	USD 178555	₹ 11,669,462
77	BT	Design, Supply, Installation & Commissioning of Lab furniture for Dept. of BT new Building	GD Lab solutions pvt. Ltd. Vadodara	29.03.2018	16062307	₹ 16,062,307
78	BT	GC-MS (Single Quadrupole)	Agilent	18/03/2020	3957576/-	₹ 3,957,576
79	BT	HPLC with columns, detectors and software	Shimadzu	21/02/2020	3029697/-	₹ 3,029,697
80	BT	Inverted fluorescence research microscope and camera	Olympus	28.04.2021	4625250	₹ 4,625,250
81	BT	Design, Supply, & Installation of Lab furniture	GD Lab solutions pvt. Ltd.	2021	3701117	₹ 3,701,117
82	BT	CELL SORTER	BECKMAN COULTER	2014	47,966,800	₹ 47,966,800
83	BT	LIQUID HANDING SYSTEM	BECKMAN COULTER	2014	6,013,176	₹ 6,013,176
84	BT	ULTRACENTRIFUGE (FLOOR MODEL)	BECKMAN COULTER	2009	7,183,512	₹ 7,183,512
85	BT	HIGH SPEED CENTRIFUGE (FLOOR MODEL)	BECKMAN COULTER	2014	4,536,000	₹ 4,536,000
86	BT	SUPER RESOLUTION MICROSCOPY	CARL ZIESS	2014	52,837,190	₹ 52,837,190
87	BT	MOTERIZED INVTERED MICROSCOPE WITH OPTICAL SCANNING	CARL ZIESS	2014	9,031,750	₹ 9,031,750
88	BT	LASER SCANNING CONFOCAL MICROSCOPE	CARL ZIESS	2014	20,514,416	₹ 20,514,416
89	BT	NEXT GENERATION SEQUENCING SYSTEM	ILUMINA	2015	32,050,400	₹ 32,050,400
90	BT	HISTOPATHOLOGY	THERMO SCIENTIFIC FORMA	2019	5,000,000	₹ 5,000,000
91	BT	SERVER AND WORKSTATION	DELL	2017	9,042,500	₹ 9,042,500
92	BT	NANOSTRING GENE ANALYZER	NANOSTRING	2018	15000000	₹ 15,000,000
93	BT	CAPILLARY SEQUENCER	APPLIED BIOSYSTEM	2009	5000000	₹ 5,000,000
94	BT	FLOWCYTOMETER	BD SYSTEM	2009	4500000	₹ 4,500,000
95	BT	PHOSPHORIMAGER	FUJI	2012	3500000	₹ 3,500,000
96	BT	Computer and storage, Master node	Fusionstor Invento	23/04/2021	54,51,000	₹ 5,451,000
97	CC	NETWORK FIREWALL WITH SUPPORTED SOFTWARE, BRAND NAME: FORTINET AND MODEL NO. FORTIGATE 6301F	M/S. INFINITE NETWORKS PTE LTD.	19.02.2019	13325459	₹ 11,374,520
98	CC	SERVER&STORAGE FOR CENTRAL e-MAIL SYSTEMCISCO switches	M/S. REDINGTON DISTRIBUTION PVT LTD. SINGAPORE	31-03-2015	12460264	₹ 7,862,738
99	CC	NETWORK FIREWALL FORTI GATE 3200D AND ACCESSORIES FOR CAMPUS NETWORK	M/S. REDINGTON DISTRIBUTION PVT LTD. SINGAPORE	27-11-2015	6793933	₹ 4,823,692
100	CC	CISCO CATALYST 6807 XL-7 SLOT CHASSIS SWITCH WITH SINGLE SUP/ CISCO SUPPORT PACK - CON - SNT - C6807XLC - SNTC-8 x 5 x NBD CATALYST 6807-XL 7-s (2 NOS)	M/S. REDINGTON DISTRIBUTION PVT LTD. SINGAPORE	31-08-2016	11487280	₹ 8,155,967

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101	CC	TOP OF THE RACK SWITCH - 4NOS.(HPE FLEX FABRIC 5940), DATA CENTRE SERVER HPE PROLIANT DL380 GEN 10-5 NOS., DISASTER RECOVERY SERVER PE PROLIANT DL 380 GEN 10-3 NOS., BACKUP STORAGE, HPEMSA 2050	M/S. VALUE POINT SYSTEMS PTE LTD. SINGAPORE	26.03.2019	13839643	₹ 12,720,693
102	CC	HPE Apollo XL 190rGen 10 Servers (GPU Computer nodes) - 12 sets and other items.	M/s. Inflow technologies (Singapore) pvt. Ltd.	31.03.2019	20241200	₹ 18,737,568
103	CC	HPCE Cluster & Rack and colling	M/s. SBA info soultions, Chennai	31.03.2019	17373165	₹ 17,373,165
104	CC	HCI	M/S. VALUE POINT SYSTEMS PTE LTD. SINGAPORE	26.03.2019	6420668	₹ 6,420,668
		Compute Nodes - Pure CPU				
		HPE Apollo XL170rGen10 Servers (Pure CPU compute nodes) with the following				
		* 2 x Intel Xeon Gold 6248(20 cores @ 2.50GHz)/ 192 GB / 1 x 2 TB SATA disk/ 2 x 10G / Single port Mellanox HDR100 HCA (100Gbps) 280				
		HPE Apollo 2000 Gen10 Chassis with Redundant Power Supplies, Fans70				
		ILO Advanced License280				
		SUV Cable10				
		Compute Nodes with CPU and GPU				
		HPE Apollo XL190rGen10 Servers (GPU compute nodes) with the following15				
		* 2 x Intel Xeon Gold 6142(16 cores @ 2.6GHz)/ 192 GB / 1 x 2TB SATA disk/ 2 x 1G / Single port Mellanox HDR HCA(100Gbps) / 2 x Nvidia V100 32GB GPUs				
		HPE Apollo 2000Gen10 Chassis with Redundant Power Supplies and Fans8				
		ILO Advanced License15				
		SUV Cable1				
		Head Nodes				
		HPE ProLiant DL380Gen10 with the following 2				
		2 x Intel Xeon Gold 6248(20c @ 2.5GHz)/ 12 x 16GB/ 2 x 1 TB NL SAS disks/ 4 x 1G / Single Port Mellanox HDR100 HCA/ 1 nos of dual port 10G HBA with SMF Transceivers/ dual port SAS HBA / ILO Advanced/ RPS / DVD RW				
		HPE MSA 2050 SAN Storage with the following:1				
		* Dual Controller with SAS Host ports				
		* 4 x 600GB 10k SAS disks				

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105	CC	Management Console - 1U TFT1	HP / SBA / InFlow	31/03/2019	3388408.78 USD  INR 23,32,58,060.41/- (Rupees Twenty Three Crores Thirty Two Lakhs Fifty Eight Thousand and Sixty Paise Forty One Only)	₹ 233,258,060
		Login Nodes				
		HPE ProLiant DL380Gen10 with the following 1				
		2 x Intel Xeon Gold 6248(20c @ 2.5GHz)/ 12 x 16GB/ 2 x 1 TB NL SAS disks/ 4 x 1G / Single Port Mellanox HDR100 HCA/ 1 nos of dual port 10G HBA with SMF Transceivers/ ILO Advanced/ RPS / DVD RW				
		PFS Storage				
		PFS Storage Array comprising of the following:1 Set				
		MDS Nodes - DL360Gen10 - Each with the following:2				
		* 2 x Intel Gold 6128 (6c @ 3.4GHz) / 96GB / 2 x 600GB 10k SAS / E208ia + E208e-p RAID controllers/ Single Port Mellanox HDR100 HCA / RPS / ILO Advanced				
		OSS Nodes - DL380Gen10 - Each with the following:4				
		* 2 x Intel Gold 6136 (12c @ 3.0GHz) / 384GB / 2 x 600GB 10k SAS / 4 nos of E208e + 1 x E208i RAID controllers/ Single Port Mellanox HDR100 HCA/ RPS / ILO Advanced				
		Data Storage - 4 nos of D6020 Disk Enclosures with 264 nos of 6TB NL SAS disks1 Set				
		Metadata Storage - D3710 Disk Enclosure with 2 x 300GB 10k SAS disks + 16 x 600GB 10k SAS disks1 Set				
		Software1 Set				
		* RHEL Enterprise 2 sockets Support n Subscription6				
		* RHEL HA Extension6				
		* HPE Lustre Software Subscription and Support 5				
		NAS Storage - 200 TB - 1 Set				
		HPE Apollo 4510 NAS Storage with the following: 1				
		* 200 TB Usable RAID6 capacity comprising of 24 x 12 TB NL SAS disks				
		* Single Port Mellanox HDR100 HCA				
* RHEL Enterprise License						
Switches - Secondary Communication NW and cables						
HPE 5130HI 48port GigE Switch with Redundant Power Supplies						
16						

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		CAT 5e cable, RJ45 to RJ45, M/M 2.1m (7ft)260				
		CAT 5e cable, RJ45 to RJ45, M/M 4.3m (14ft)260				
		CAT 5e cable, RJ45 to RJ45, M/M 7.6m (25ft)260				
106	CC	RACK-42 U RACKS WITH PDU AND CONTAINMENT - 1 NO. TOWER COOLING SYSTEM (AS PER BOQ)	M/S. SBA INFO SOLUTIONS PVT. LTD., CHEN	24.08.2020	18,450,633	₹ 18,450,633
107	CC	ELECTRICAL PANELS - 1 NO, CHILLER NUNIT - 1 NO. AND THERMAL STORAGE TANK FOR ADDITIONAL 15 MINS-1 NO.	M/S. SBA INFO SOLUTIONS PVT. LTD., CHEN	24.08.2020	4,805,605	₹ 4,805,605
108	CE	CYCLIC TRI-AXIAL TEST APPARATUS	M/s. WYKEHAM FARRANCE, ENGLAND	Dec. 2003	GBP 62210	₹ 5,598,900
109	CE	CARBON ANALYZER	M/s. ATMOSLYTIC INC, USA	Jul. 2006	\$73000	₹ 4,818,000
110	CE	PSEUDO DYNAMIC TESTING FACILITY	M/s. MTS SYSTEM CORPORATION, USA	NOV.2006	1,51,78,886.00	₹ 15,178,886
111	CE	SIMPLE PERFORMANCE TEST EQUIPMENT	M/s. IPC GLOBAL, AU	Jan. 2009	AUD 109400	₹ 4,777,245
112	CE	Walk in chamber and Humidity test chamber with Accessories	M/s. Blue Star, Middle East UAE	March 2009	Euro 39741	₹ 3,505,048
113	CE	SERVO HYDRAULIC MULTI ACTUATOR COMPRESSION TESTING MACHINE	M/s. CONTROLS TESTING EQUIPTMENNT LTD.,U.K	Mar.2009	GBP 101983.15	₹ 10,000,000
114	CE	HYDRAULIC POWER UNIT 505,120	M/s. MTS SYSTEMS CORPORATION, USA	01-03-2011	USD 151000	₹ 10,600,200
115	CE	MATERIAL TESTING MACHINE	M/s. TINIUS OLSEN LTD., ENGLAND	Mar. 2011	GBP 40274	₹ 3,624,660
116	CE	Potentiostat/Galvano test system	M/s. Advantech International	Dece. 2011	GBP 34030	₹ 3,363,277
117	CE	EN STANDARDS TESTER	M/s. IPC GLOBAL, AUSTRALIA	Jun. 2013	AUD 76500	₹ 4,590,000
118	CE	PRESBOX SHEAR COMPACTOR	M/s. IPC GLOBAL, AUSTRALIA	Jun. 2013	AUD 83500	₹ 5,010,000
119	CE	RESONANT COLUMN APPARATUS	M/s. AE & C, NEW DELHI	Jul. 2013	\$69505	₹ 4,587,330
120	CE	ULTRAVIOLET AERODYNAMIC PARTICLE SIZE SENSOR	M/s. TSI INCORPORATED, USA	Jul. 2013	\$124633	₹ 8,225,778
121	CE	ATOMIC ABSORPTION SPECTROPHOTOMETER WITH ACCESSORIES	M/s. PERKIN ELMER, INTERNATIONAL SWITZERLAND	SEP 2013	3417000	₹ 3,417,000
122	CE	UV-APS	M/s. TSI-USA	AUG.2013	82,26,214.00	₹ 8,226,214
123	CE	MTS MODEL 311 DYNAMIC HIGH FORCE SYSTEM - TENSION	M/s. MTS SYSTEMS CORPORATION, USA	Mar. 2014	(\$275000) 1.5 crore	₹ 21,000,000
124	CE	1. MTS MODEL 311 DYNAMIC HIGH FORCE SYSTEM - COMPRESSION. 2. MTS MODEL HYDRAULIC POWER UNIT	M/s. MTS SYSTEMS CORPORATION, USA	Mar. 2014	(\$ 483000) 3cr.	₹ 37,000,000
125	CE	MERCURY INTRUSION POROSIMETER	M/s. THERMO FISCHER	JUN.2014	EUR 33000	₹ 3,000,000
126	CE	SCANNING ELECTRON MICROSCOPE & INCA EDS X-RAY MICROANALYSIS SYSTEM	M/s. EMCRAFTS CO. LTD., SEOUL KOREA / OXFORD INSTRUMENTS NANO ANALYSIS	JUL.2014	USD60500& USD34000	₹ 7,200,000
127	CE	DYNAMIC SHEAR RHEOMETER (DSR)	M/s. ANTON PAARGMBH	JUL 2014	EUR 36492	₹ 3,500,000
128	CE	WIDE RANGE AEROSOL SPECTROMETER	M/s. GRIMM	SEP.2014	62,36,964.00	₹ 6,236,964

S.No	Dept.	Description	Name of Manufacturer	Date of Purchase	Purchase of cost (Rs.)	Present Value (Rs.)
129	CE	GCMS WITH ACCESSORIES	M/s. AGILENT TECHNOLOGIES INDIA PVT LTD	SEP.2014	50,77,964.00	₹ 5,077,964
130	CE	MTS FLEX TEST CONTROLLER	M/s. MTS SYSTEM CORPORATION, USA	SEP.2014	39,00,000.00	₹ 3,900,000
131	CE	GRR SYSTEM WITH 4NOS.OF ANTENNE	M/s. IDS INGENIERIA ITALY	FEB.2015	33,50,427.00	₹ 3,350,427
132	CE	LEICA SCAN SYSTEM C10 3D LASER SCANING SYSTEM	M/s. LEICA GEOSYSTEMS ,SWITZERLAND	FEB.2015	50,49,468.00	₹ 5,049,468
133	CE	DYNAMIC SIMPLE SHEAR APPARATUS WITH CONFINING PREASSURE	M/s. V J TECH LTD. UK	MAR 2015	GBP 73686.13	₹ 6,640,594
134	CE	SINGLE COLUMN CLOUD NUCLEI COUNTER	M/s. DMT	JUNE.2015	65,19,022.00	₹ 6,519,022
135	CE	BIAXIAL SHAKE TABLE	M/s. MTS SYSTEMS CORPORATION, USA	SEP 2015	USD 805948	₹ 56,577,550
136	CE	HYDRAULIC LOADING GAME MODEL PK 65	M/s. PALFINGER GRANS PVT. LTD	MAR 2016		₹ 3,119,230
137	CE	LC-MS WITH ACCESSORIES	M/s. AGILENT TECHNOLOGIES INDIA PVT LTD	APR 2016	50,00,000.00	₹ 5,000,000
138	CE	50 KN ELECTROMECHANICAL UNIVERSAL TESTING MACHINE	M/s. ZWICK ASIA PVT LTD	APR 2016	EUR 95470	₹ 8,000,000
139	CE	1) CYCLIC TRIAXIAL TESTING SYSTEM, 2) BENDER ELEMENT SYSTEM	M/s. V J TECH LTD. UK	JAN 2017 & JUN 2017	GBP 24756.50 & GBP 10347.75	₹ 3,163,595
140	CE	MINI 10 LDV	M/s. MESUREMENT SCIENCE ENTERPRISE	JAN 2017	USD 63500	₹ 4,457,700
141	CE	NICKOLET iS50 FTIR	M/s. THERMO ELECTRON SCIENTIFIC, USA	01-08-2017	USD 43450	₹ 3,041,500
142	CE	CYCLIC DIRECT SHEAR TESTING SYSTEM	M/s. HEICO, NEW DELHI	01-09-2017	5980000	₹ 5,980,000
143	CE	2D MINATURE LASER DOPPLER VELOCEMETER	M/s. MEASUREMENT SCIENCE ENTERPRISES, CA	01-09-2017	USD 109900	₹ 7,036,430
144	CE	MODULATED DIFFERENTIAL SCANNING CALORIMETER(MDSC) & TGA-SDT	M/s. WATERS GES.M.B.H, GERMANY	01-09-2017	USD 69500	₹ 4,865,000
145	CE	ISLAND TABLE WITH ELECTRICAL FITTINGS AND SINK UNIT 15 NOS.	M/s. MODERN LAB INTERIOR, CHENNAI	01-11-2017	4426327	₹ 4,426,327
146	CE	Ci300 + WEATHER - OMETER	M/s. ATLAS MATERIAL TESTING SOLUTIONS, USA	01-01-2018	USD 85000	₹ 5,950,000
147	CE	HIGH PRESSURE SORPTION ANALYSER	M/s. QUANTACHROME INSTRUMENTS, USA	01-10-2018	USD 87950	₹ 6,156,500
148	CE	MCR 702 TWINDRIVE MODULAR COMPACT RHEOMETER	M/s. ANTON PAAR INDIA PVT. LTD.	01-09-2018	EUR 135,040.00	₹ 11,460,621
149	CE	TOC ANALYZER WITH SOLID SAMPLE MODULE & TOTAL NITROGEN	M/s. SHIMADZU ASIA PACIFIC PTE LTD	01-12-2018	USD 36230	₹ 2,536,155
150	CE	QUARTS CRYSTAL MICROBALANCE ANALYSER	M/s. BIOLIN SCIENTIFIC SWEDEN	01-03-2019	EUR 195156	₹ 7,498,467
151	CE	ISOTHERMAL CALORIMETER (I-Cal 4000)	M/s. CALMETRIX INC. USA	12-03-2019	USD 31450	₹ 2,326,183
152	CE	LC-MS-8040 WITH ACCESSORIES	M/s. SHIMADZU INDIA LTD	01.08.2019	9800000	₹ 9,800,000
153	CE	HIGH VOLTAGE PULSE GENERATOR	M/s. FID GMBH GERMANY	01-09-2019	EUR 43771.50	₹ 3,432,605



S.No	Dept.	Description	Name of Manufacturer	Date of Purchase	Purchase of cost (Rs.)	Present Value (Rs.)
154	CE	HIGH PERFORMANCE LIQUID CHROMATOGRAPH	M/s. THERMO FISHER USA	01-09-2019	USD 32780	₹ 2,336,493
155	CE	Inductively Coupled Plasma Optical Emission Spectrometer	M/s. AGILENT TECHNOLOGIES INDIA PVT LTD	10-02-2020	INR 3307074	₹ 3,307,074
156	CE	2D Digital Image Correlation System	M/s. Jost's Engineering Company Ltd	05.09.2020	Euro 30070	₹ 3,007,000
157	CE	48 Channel Masw Test Apparatus	M/s. HGS India Ltd, Haryana	19.03.2021	3200900	₹ 3,200,900
158	CE	Aggregate Imaging Measurement System (AIMS-II)	M/s. PINE Test Equipment, USA	16-09-2021	USD 49875	₹ 4,075,423
159	CE	TecknoSIM Car simulator	M/s. Tecknotrove Systems Pvt Ltd	15-09-2022	₹ 7,593,000	₹ 7,593,000
160	CE	TecknoSIM Rider simulator	M/s. Tecknotrove Systems Pvt Ltd	08-01-2022	₹ 3,404,000	₹ 3,404,000
161	CEC	SPECTRAL LIGHT MEASUREMENT SYSTEM MODEL NO. CA-11671-LKT (SL.NO.1206124609), ROOM NO. CEC M17C	M/S. LABSPHERE INC., 231, SHAKER STREET, NORTH SUTTON, NH 03260, USA	05-03-2013	3588911	₹ 3,060,000
162	CEC	LOW FORCE ED VIBRATION SHAKER SD1510-230M, SERIAL NO:S1602004, MODEL NO:GT500M/SPA602, ROOM NO:CECB01G	SPECTRAL DYNAMICS INC, 2199 ZANKER ROAD, SAN JOSE, CA 95131-2109, USA	23-05-2016	3100800	₹ 3,020,000
163	CEC	SMD inline Automatic Optical Inspection System Model No; KY8080, Sl. No: SL-SL, Clean Room	KOH Young Technology, 14F, Halla Sigma Valley, Seoul, Korea	09.05.2022	5,624,510	₹ 5,624,510
164	CEC	Automatic SMD Inline Solder Paste Inspection, Model No: Zenith Alpha, Sl. No: AL-SL, Clean Room	KOH Young Technology, 14F, Halla Sigma Valley, Seoul, Korea	13.04.2022	3,557,900	₹ 3,557,900
165	CEC	Automatic Inline SMD , Solder Paste Printer, Model No: GPX-CII, Sl. No: G3012, Clean Room	Fuji Machine, Mfg Co., Ltd, No.2, Chenghu Rd.,Economic & Technical Zone, Kunshan Jiangsu, China	13.04.2022	2,649,500	₹ 2,649,500
166	CEC	Automatic SMD Inline Reflow Oven, Model No: 1826MK5 Sl. No: 022223-BBAZN-841795-03 Clean Room	Heller Industries, 4 Vreeland Rd, Florham Park, NJ 07932, USA	13.04.2022	2,520,810	₹ 2,520,810
167	CEC	Automatic Inline SMD Pick & Place Machine, Model No: IS10, Sl. No: Y60164, Clean Room	M/s Yamaha Motor Co., Ltd, Japan	18.05.2022	6,439,434	₹ 6,439,434
168	CEC	Clean Room	Mark Air- Particulate Control System, Chennai-83	25.07.2022	3,043,895	₹ 3,043,895
169	CEC	EMI Test Receiver Model –ESR 3 ID-1316.3003K03-102753-Jx Room No.T05.	Rohde Schwarz India Private Ltd, New Delhi	20.01.2021	2,499,174	₹ 2,480,000
170	CH	SIMULTANEOUS THERMOGRAVIMETRIC ANALYZER / DIFFERENTIAL SCANNING CALORIMETER (TGA/DSC) (SDT Q600) (SL. NO.1264)	WATERS GES.M.B.H, AUSTRIA	DEC.2012	5923854	₹ 4,583,765

S.No	Dept.	Description	Name of Manufacturer	Date of Purchase	Purchase of cost (Rs.)	Present Value (Rs.)
171	CH	GAS CHROMATOGRAPHY - MASS SPECTROMETRY (GC-MS) (MODEL QP 2010 PLUS WITH AOC 201, S.NO. 020504720430)	SHIMADZU, JAPAN	01-08-2010	2904795	₹ 2,028,527
172	CH	DYNAMIC MECHANICAL ANALYSER	TA INSTRUMENTS	01-03-2009	3700000	₹ 2,454,656
173	CH	MIXER BLENDER PROCESSING UNIT	BARBENDER	01-03-2009	3700000	₹ 2,454,656
174	CH	RHEOMETER	ANTON PAAR	01-12-2004	3200000	₹ 1,642,695
175	CH	UNIVERSAL TESTING MACHINE	ZWICK	17-06-1905	3000000	₹ 970,600
176	CH	HITACHI S-4800-I 2.08 SEM	M/S. HITACHI HIGH TECHNOLOGIES (S) PVT LTD., , 7 TAMPINES GRANDE, SINGAPORE PIN -528736	AUG.2010	11490471	₹ 8,024,224
177	CH	RHEOMETER - HSB 151	ANTON PAAR 502	MAY .2015	4200000	₹ 3,790,500
178	CH	TGA/DSC THERMOGRAV	EWATERS, AUSTRIA	NOV. 2012	6500000	₹ 6,000,000
179	CH	PARTICLE SIZE ANALYER WITH ACCESSORIES; HORIBA PARTICLE SIZE ANALYSER SZ-100Z S.NO. V277S66, HORIBA LAZER SCATTERING PARTICLE SIZE DISTRIBUTION ANALYZER LA-950S2 S.NO.MCJDKM6L PH CONTROLLER LY-701 FOR SZ-100Z S.NO.VGPCWNMJ DRY POWDER SISPERING FEEDER FRO LA-950 S.NO.NTOV361H	HORIBA JAPAN	JUL. 2013	3752001	₹ 3,400,000
180	CH	GAS CHROMATOGRAPHY - MASS SPECTROMETRY (GC-MS) (MODEL QP 2020 PLUS WITH AOC 201, S.NO. 021425400731 SA)	SHIMADZU, JAPAN	PO DATE: DEC 2016, INSTL DATE: MAR 2017	2394610	₹ 2,300,000
181	CH	TCS SP8 LASER SCANNING CONFOCAL MICROSCOPE & ACESORY H-ADDITIONAL ERGONOMIC CONTROPPANEL	LEICA, GERMANY	01.07.2018	14393900	₹ 14,057,800
182	CH	QUARTZ CRYSTAL MICROBALANCE - D, MSB-239	SWEDEN	PO DATE: 24.10.2017	5371000	₹ 5,100,700
183	CH	FLUOROLOG -3-21, SL. NO. 1962C-2318-FL	USA	PO:16.03.201 8, INSTAL DATE: 08.09.2018	4632545	₹ 4,532,545
184	CH	TF ANALYSER 3000 & ACCESSORIES	AIXACCT, GERMANY	18.09.2019	EUR 47000	₹ 3,685,975
185	CH	NIKON MICROSCOPE WITH LINKAM HEATING STAGE	JAPAN,P.R.CHINA,GERMANY	19-01-2017 & 23-1-2017	JPY 2286679 & GBP12361	₹ 2,763,873
186	CH	HIGH PRESSURE RHEOMETER (ANTON PAAR MCR 52)	ANTON PAAR, GERMANY	2012	INR 2500000	₹ 2,500,000
187	CH	INVERTED FLOURESCENE MICROSCOPE (IX 73)	OLYMPUS CORPORATION, JAPAN	27-Aug-2020	JPY 3203500	₹ 3,000,000
188	CH	SPECTROFLUOROMETER WITH ACCESSORIES (FLUOROLOG - 3)	HORIBA INSTRUMENTS INCORPORATED	01-06-2018 (upgradred in Oct-21)	USD 80809.37	₹ 5,981,307

S.No	Dept.	Description	Name of Manufacturer	Date of Purchase	Purchase of cost (Rs.)	Present Value (Rs.)
189	CH	TF ANALYZER 3000 AND ACCESSORIES	AIXACCT SYSTEMS GMBH	01-08-2019 (upgradred in Oct-21)	EUR 62250	₹ 5,343,478
190	CH	INFRARED SPECTROMETER (FTIR-6600FV)	JASCO INTERNATIONAL CO. LTD.	Oct-20	YEN 5000000	₹ 3,279,367
191	CH	SCANNING ELECTROCHEMICAL MICROSCOPE	METROHM AUTOLAB B.V.	May-20	EUR 111113	₹ 9,533,194
192	CH	Rheometer 302e	Anton Paar	03-01-2022	4,197,554.13	₹ 4,197,554
193	CH	Bench Top NMR NMRready 60	Nano Analysis	11-06-2019	USD 56000	₹ 4,330,000
194	CH	Flexible remote Multi-Screen Multi-Camera Eye Tracking System	IMOTIONS A/S, Denmark	28th February 2022	EUR 56552.00	₹ 4,936,820
195	CS	ProFPGA Quad Motherboard PROF-Quad-MO	M/s. PRO DESIGN ELECTRONIC GMBH	01.04.2019	USD 115546	₹ 8,529,086
196	CS	128 CHANNEL GEODESIC EEG SYSTEM 100 W/IMAV WITH HYDROCEL GENDESIC SENSOR AND ACCESSORIES KIT COMPLETE PACKAGE	M/s. ELECTRICAL GEODESICS, INC, 500 EASTT 4TH AVE SUITE 200, EUGENE, OR 97401	06-07-2017	USD 69,225	₹ 5,149,139
197	CWS	CNC WIRE EDM MACHINE	ELECTRONICAL HITECH MACHINE TOOLS (P) LTD.	19.08.2021	3,291,000	₹ 3,291,000
198	CWS	J55 POLYMER 3D PRINTER	STRATASYS	30.03.2022	9,390,089	₹ 9,390,089
199	CY	SINGLE CRUSTAL X-RAY DIFFRACTOMETER (ROOM NO.CY 109 GF )CHY/2005/201/SPI/327	M/S.BRUKER AXS NETHERLANDS	12-07-2005	EURO.2,58,000.00 Rs.1,44,48,000.00	₹ 6,501,600
200	CY	NUCLEAR MAGNETIC RESONANCE (ROOM NO.CY 108 GF)	M/S.BRUKER AUTOSPIN	20/11/2001	Rs.1,43,67,500.00	₹ 6,480,000
201	CY	ATOMIC FORCE MICROSCOPE (ROOM NO.CY 114 GF) CHY/FIST/2009/1160/SPIX	M/S PARK SYSTEMS CORPORATION	31/07/2009	\$.1,30,000.00 Rs.63,70,000.00	₹ 5,733,000
202	CY	POWDER- XRD (ROOM NO.CY 110 GF )CHY/FIST/2008/1522/SPIX	M/S BRUKER-AXS	30/03/2009	EURO.92,600.00 Rs.61,11,600.00	₹ 4,950,396
203	CY	THERMOGRAVIMETRIC ANALYSER & DIFFERENTIAL SCANNING COLORIMETER (ROOMNO.CY 107 GF) CHY/PGP/PGI/2008/724/SPI	M/S.TA INSTRUMENTS, USA	03-04-2009	\$.80,000.00 Rs.40,00,000.00	₹ 3,240,000
204	CY	MASS SPECTROMETER (ROOM NO.CY 106 GF )	M/S WATERS	12-04-2002	Rs.1,17,35,430.00	₹ 4,500,000
205	CY	POIARIZATION MODULATED & ANGLE DEPENDENT FOURIERTRANSFORMINFRARED REFLECTIONABSORPTION SPECTROMETER (ROOM NO.CY 113 GF )	M/S BRUKER GERMANY	09-11-2008	Rs.65,00,000.00	₹ 4,738,500
206	CY	SCANNING ELECTROCHEMICAL MICROSCOPE (ROMM NO. CY113A GF), CH/ARCH/2007/1456/SPIX	M/S. CH INSTRUMENTS USA	15.06.2018	3100000	₹ 2,511,000
207	CY	YAG PUMPED DYE LAZER (ROOM NO.CY 219 1ST FLOOR ) CHY/BRAJ/2010/1094/SPIX	M/S QUANTEL INC	20/08/2010	EURO.89500.00 Rs.59,50,000.00	₹ 5,355,000
208	CY	AV II 500 WB US + NMR MICRO IMAGING SYSTEM MRI/MRS BLDG. CHY/NCHA/2005/1022/SPIX/97	M/S BRUKER BIOSPIN INC.AG.SWITZERLAND	20.7. 2006	\$.1.095 M Rs.4,59,90,000.00(approx)	₹ 33,526,710
209	CY	BIOSPEC 47/40 USR MRI SYSTEM MRI/MRS BLDG. CHY/NCHA/2005/1022/SPIX/97	M/S BRUKER BIOSPIN INC.AG.SWITZERLAND	20.7. 2006	\$.1.1 M Rs.4,62,00,000.00(approx)	₹ 3,349,800

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210	CY	ELECTRON SPIN RESONANCE (ROOM NO.CY 106 GF), CH/PGI/2008/725/SPI	MAGNETEH	08.05.2009	EURO 44935.00 RS.3055580.00	₹ 2,750,022
211	CY	FLUROCUBE-01-NL LIFE TIME SYSTEM (ROOM NO. CY 222, 1ST FLOOR	HORIBA JOBIN YVON IBH TD	12.12.2008	Euro.33,600.00 Rs.26,20,800.00	₹ 2,358,720
212	CY	AV400,AV500 NMR CHY/HOD/2011/200/SPI	M/S BRUKER BIOSPIN	19/5/11	Euro.4,29,500.00 Rs.2,40,52,000.00	₹ 24,052,000
213	CY	CIRCULAR DICHROISMSPECTROMETER CHY/HOD/2012/451/SPI/1792	M/S APPLIED PHOTOPHYSICS	28.03.12	GBP.81605.00 Rs.69,36,425.00	₹ 6,936,425
214	CY	GCMSMS SYSTEM CHY/HOD/2012/1026/SPIX/165	M/S AGILENT TECHNOLOGIES	10.05.12	USD.139560.00 Rs.75,36,240.00	₹ 7,536,240
215	CY	FT-RAMAN SPECTROMETER CHY/HOD/2011/452/SPI/1795	M/S BRUKER OPTIK GMBH	13.07.12	Euro.95305.00 Rs.63,00,000.00	₹ 6,300,000
216	CY	SCANNING ELECTRON MICROSCOPE CHY/HOD/2011/453/SPI	M/S FEI COMPANY OF USA SINGAPORE	17.7.12	EURO.142937.00 Rs.94,33,842.00	₹ 9,433,842
217	CY	MALDI-TOF/TOF/, CHY/HOD/2011/462/SPI	M/S. BRUIKER DALTONIK GMBH	30.03.2012	USD 3,26,528.00 RS. 1,66,52,928.00	₹ 16,652,928
218	CY	VIBRATING SCANNING MAGNETOMETER CHY/HOD/2011/1289/SPIX	M/S LAKE SHORE CYOTRONICS	26.03.12	USD.213650.00 Rs.1,06,82,500.00	₹ 10,682,500
219	CY	LOW TEMPERATURE ISO THERMAL CALORIMETER CHY/HOD/2012/1302/SPIX	M/S SETARAM INSTRUMENTS	6.05.13	Euro.124779.00 Rs.88 lakhs	₹ 8,800,000
220	CY	HIGH RESOLUTION MASS SPECTROMETER CHY/INDR/DILL/1017/SPLX/85	M/S AGILENT TECHNOLOGIES	08.05.2017	17578822	₹ 17,578,822
221	ED	ACTUATOR WITH HYDRAULIC POWER UNIT AND CONTROLLER, SL.NO.991083. LOCTAION-CATERPILLAR LAB (SRB NO.2140, LF:E2/52	M/S. SHORE WESTERN MANUFACTURING INC. USA	26/09/2011	4372412	₹ 3,935,171
222	ED	INFINIUM DCA-X OSCILLOSCOPE MAIN FRAME & ACCESSORIES (MODEL NO: 86100D) LOCATION: MICROWAVE LAB ED ROOM NO: 401, S/N:MY53150429,MY47490613,MY49350435,MY50320154,(SRB # 3505 TO 3507) LF:PE1/165	AGILENT TECHNOLOGIES SINGAPORE PTE LTD, SINGAPORE (COUNTRY OF ORIGIN: MALASIYA)	23/08/2013	\$ 61000	₹ 4,025,442
223	ED	MODULAR MECHATRONICS SYSTEM ED ROOM NO.406 AUTOMATION LAB	M/S. FESTO CONTROL PVT LTD BANGALORE(INDIA)	11-05-2014	3250353	₹ 3,250,353
224	ED	VIRTUAL DRIVING HARDWARE IN THE LOOP HIL TEST RIG. ED ROOM 101 AUTOMOTIVE SYSTEMS LAB (SRB # 4188-89 L.F.:PE2/117	M/S. AUTOMOTIVW TEEST SYSTEMS(PUNE) (INDIA) (M/S. IPG AUTOMOTIVE GmBh COUNTRY OF ORIGIN: GERMANY)	29.03.2017	36,10,000.00	₹ 3,610,000
225	ED	ACQUISITION FOR CHARGE AMPLIFIER & DYNAMOMETER. (SRB NO.5957) L.F.:PE-2/179 S/N. 5217218, 5284524, 5273510. ED ROOM NO. 404A, SUSTAINABLE MANUFACTURING LAB.	M/S. KISTLER CHINA LIMITED (HONGKONG) (M/S. KISTLER INSTRUMENTS INDIA PVT LTD, CHENNAI) COUNTRY OF ORIGIN : SWITZERLAND	08.03.2018	CHF 47493	₹ 3,085,620

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226	ED	GPU SERVER: BOSTON X86-1U RACK NVLTK GPU SERVER ED ROOM NO. 205, TYRE LAB (SRB NO. 5960), L.F.:PE-2/182 S/N. S315192X8813563, P/N. SYS-1029GQ-TVRT	M/S. BOSTON LIMITED (ENGLAND) (M/S. LOCUZ ENTERPRISES SOLUTIONS LIMITED, CHENNAI ) COUNTRY OF ORIGIN: UK	17.09.2018	USD 46362.00	₹ 3,187,851
227	ED	TUNABLE PULSE LASER NT 342-B-10-AW10-H-2H ED ROOM NO.421, BIO NANO MICRO LAB (SRB NO:5985), L.F: PE-3/6 S/N.PGL 473	EKSPLA, LITHUANIA	26.11.2018	EUR 38000	₹ 3,277,399
228	ED	7 DEGREE OF FREEDOM LIGHTWEIGHT COLLABORATIVE ROBOT (COBOT) WITH MANIPULATOR, CONTROLLER, TEACH PENDANT AND NECESSARY ACCESSORIES. ED ROOM NO.404	M/S. PARAMOUNT WELDTRODE PVT LTD., BANGALORE	11.08.2020	Rs. 44,07,690.00	₹ 4,407,690
229	EE	EBEAM COATING UNIT BC 300T. ESB-230	HIND HIGH VACUUM COMPANY LIMITED	31/12/2009	3150000	₹ 3,150,000
230	EE	SEMI AUTOMATIC PROBE STATION 12000B AP ETC-200L-163937. ESB-230	CASCADE MICROTEC INC	23/03/2012	(\$210748) 14385658.48	₹ 14,385,658
231	EE	VECTOR NETWORK ANALYSER 10MHZ TO 0GHZ (MY49030466). ESB-230	AGILENT TECHNOLOGIES SINGAPORE	28/02/2011	(\$141375) 9650257.5	₹ 9,650,258
232	EE	PROBE STATION (MANUAL) SUMIT 11000B-M 1372221003. ESB- 230	IT GLOBE,INC	03-12-2010	(\$85722) 5851383.72	₹ 5,851,384
233	EE	SEMICONDUCTOR DEVICE ANALYZER (JP49320115)B1500A ESB-230	AGILENT TECHNOLOGIES SINGAPORE	01/10/2009	(\$52729) 3599281.54	₹ 3,599,282
234	EE	SEMICONDUCTOR DEVICE ANALYZER B1500A(JP10E00413) ESB-230	AGILENT TECHNOLOGIES SINGAPORE	01/08/2012	(\$52729) 3599281.54	₹ 3,599,282
235	EE	3D NON CONTACT SURFACE PROFILER CONTOUR GTIM-13107. ESB-230	BRUKER AXS PTE LTD	19/10/2012	(\$219000) 14948940	₹ 14,948,940
236	EE	OLYMPUS MODEL OLS4000-SAG (CONFOCAL MICROSCOPE) 2J45624. ESB-230	OLYMPUS CORPORATION	24/09/2012	(JPY7050000) 4781556.75	₹ 4,781,557
237	EE	MANUAL VACUUM PROBE STATION(THERMAL) PLV50-91257. ESB-230	CASCADE MICROTEC INC	16/11/2012	(\$275722) 18820783.72	₹ 18,820,784
238	EE	DESKTOP MINI SEM SNE 4500M-120015 ESB-230	SEC GLOBAL PTE LTD	05/09/2012	(\$97000) 6621220	₹ 6,621,220
239	EE	POLYTEC MICRO SYSTEM ANALYSER (VIBROMETER) MSA 500. ESB-230	POLYTECH GMBH	04/05/2012	(E320715) 28554826.35	₹ 28,554,826
240	EE	50GHZ PNA-X VECTOR NETWORK ANALYSER-N5245A ESB-230	AGILENT TECHNOLOGIES SINGAPORE	06/09/2012	6339610	₹ 6,339,610
241	EE	MASK WRITER DWL66. ESB-232	M/S.HEIDELBERG INSTRUMENTS, GERMANY	20/12/2004	7500000	₹ 7,500,000
242	EE	SB6 KARL SUSS SUBSTRATE BONDER-ESB-232	KARL SUSS KG-GMBH&CO D-85748 GARCHING GERMANY	17/07/2002	10000000	₹ 10,000,000
243	EE	KARL SUSS MA6/BA6 MASK ALIGNER-872. ESB-232	KARL SUSS KG-GMBH&CO D-85748 GARCHING GERMANY	24/02/2004	(E419243) 37046198.07	₹ 37,046,198
244	EE	PLAMA LAB 80 PLUS RIE SYSTEM ICP 65-814726. CSD-207	M/S.OXFORD INSTRUMENTS PLASMA TECH.,UK	23/03/2005	(UK pounds 96500.00) 8000000	₹ 8,000,000

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245	EE	ICP ETCHING SYSTEM PLASMA LAB 100-ICP180 - 94-815135 CSD-207	M/S.OXFORD INSTRUMENTS PLASMA TECH.,UK	18/08/2010	16500000	₹ 16,500,000
246	EE	ADVANCED DICING MACHINE TECHNOLOGY PROVECTUS 7100-551217. CSD-207	M/S. ADVANCED DICING TECHNOLOGIES LTD.ISRAEL	27/03/2012	(\$86105) 5877527.3	₹ 5,877,527
247	EE	CANTILEVER SENSOR CONCENTRIS CSR401 CMU0801121163. CSD 213	M/S.CONCENTRIS GMBH ,SWITZERLAND	28/08/2012	(\$171534) 9000000	₹ 9,000,000
248	EE	AUTOMATIC ANGLE SPECTROSCOPIC ELIPSOMETER-M2000VI EC400-EPM 224 JA WOOLAM. CSD-215	M/S. J.A.WOOLAM CO,INC	21/12/2012	(\$122810.00) 6998327.85	₹ 6,998,328
249	EE	RAPID THERMAL PROCESSING SYSTEM AS-ONE 100 AS0210R4-5344. ESB-123	M/S.ANNEALSYS, MONTPELLIER,FRANCE	21/02/2008	4000000	₹ 4,000,000
250	EE	E-BEAM LITHOGRAPHY RAITH-150. ESB-126	M/S.KONARD ADENUAR ALLEC ,GERMANY	24/02/2012	(E1062036) 70000000	₹ 70,000,000
251	EE	SVCS 4 STACK DIFFUSION FURNACE. ESB-123	M/S.SVCS PROCESS INOVATION CZECH REPUBLIC	06/03/2012	(\$307660.00) 16001306.60	₹ 16,001,307
252	EE	LPCVD FURNACE. ESB-123	M/S.FIRST NANO USA.		(\$591998) 29500000	₹ 29,500,000
253	EE	CLEAN ROOM (CLASS-1000). ESB-123	MARK AIR PARTICULATE CONTROL SYSTEMS	25/03/2013	4740782	₹ 4,740,782
254	EE	CLEAN ROOM (CLASS-1000). ESB-126	MARK AIR PARTICULATE CONTROL SYSTEMS	15/02/2013	4196260	₹ 4,196,260
255	EE	CSD CHARECTERIZATION CLEAN ROOM	MARK AIR PARTICULATE CONTROL SYSTEMS		6025770	₹ 6,025,770
256	EE	ICP-PECVD(Plasmalab 100-ICP180 HDPECVD),SI.NO:94-815814 (CNNP-BUILDIND)	M/S.OXFORD INSTRUMENTS PLASMA TECH.,UK	14.08.2013	(GRB:211775) RS:201 LAKHS	₹ 20,100,000
257	EE	DRIE (Plasmalab 100 Estrelas),SL.NO:815813(CNNP-BUILDING)	M/S.OXFORD INSTRUMENTS PLASMA TECH.,UK	14/08/2010	(GBP:365000) Rs.325 lakhs	₹ 32,500,000
258	EE	ICP ETCHING SYSTEM PLASMA LAB 100-ICP180 - 94-815964 (CNNP-BUILDING)	M/S. OXFORD INSTRUMENTS PLASMA TECH.,UK	14.08.2013	(GBP:365000) RS:325 lakh	₹ 21,000,000
259	EE	INTEGRATED GLOVE BOX (MOD-BOXES WITH MB20G WITH EVAPORATIONS UNIT, SPINCOATER,UV-CLEANER AND DISPENCINGUIT, SL. NO: MB.ART.NR. 26087489(CSD-213)	M.BRAUN INERGAS SYSTEM GMBH,DIESELSTR-31,D-85748,GARCHING	04.12.2014	(EURO:284500) RS:325 lakh	₹ 23,700,000
260	EE	SOLAR CELL MEASUREMENT UNITSI.NO:1116	M/S.PHOTO EMISSION TECH.,INC CAMARILLO,CA93012,US	05.12.2014		₹ 6,600,000
261	EE	SIGNAL SOURCE ANALYZER SL.NO.MY47402176	KEYSIGHT TECHNOLOGIES	01-08-2015	USD 99796	₹ 6,494,718
262	EE	CNNP CLEAN ROOM (CLASS 1000 AND CLASS 100), ESB-126EXT-BUILDING	ASEPTIC PROJECTS THANE	19.09.2014	9509068.91	₹ 9,509,069
263	EE	BRAGG STAR INDUSTRIAL (S.NO:GEP,112166,10000) LOCATION: ELECTRICAL DEPT ROOM NO: CSD101 (FBG LAB) PO# ELE/COM/20-08/600/SPI/1110	COHERENT	30.10.2009	7768167	₹ 3,500,000
264	EE	High Power Narrow Linewidth Amplifier	Optical Engines	2018	64000 USD	₹ 4,800,000

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265	EE	LABMASTER MCM-ZI-A Master Control Module LABMASTER 10-36ZI-A (36 GHz Data Acquisition Module) IQS42 Coherent Optical Receiver 42GHz, with Laser IQTransmitter-40-EDP-ABC-C 40 GHz, with Laser M8195A-002, Arbitrary Waveform Generator, 65GSa/s	Coherent Solutions	Sep-16	3,92,800 USD	₹ 28,000,000
266	EE	Kelvin Force Probe Microscope (AFM/KPFM), model number NX10, in a glovebox	Park Systems (S. Korea)	18-Apr	INR 76,72,297	₹ 7,672,297
267	EE	Vacuum Evaporation system with load lock and vacuum pumps	Excel (system), Pfeiffer (pumps)	arrive in NOV 2	INR 34,00,000	₹ 3,400,000
268	EE	Cluster system for AMOLED displays	Technoblaze (Japan)	arrive in MAR 2	JPY 272,000,000	₹ 177,776,541
269	EE	AMOLED cleanroom	Iclean	unctional from N	INR 3,09,27,415	₹ 30,927,415
270	EE	Cryogenic Probe Station PS100 (Sl.No.MCSA129M), CSD215	M/S. Lakshore Cryotronics, USA	28-08-2016	(\$67098)Rs. 4377473	₹ 4,049,162
271	EE	MA6 BA6 Mask Aligner with DUV Exposure(S.No: MA6BA6- 001476 ), ESB-126 Extn-CNNP Clean Room	M/S. SUSS Microtec Lithography GmbH	27-02-2017	uro 231020) Rs. 1,76,69,806	₹ 16,565,443
272	EE	Atomic Force Microscope(AFM) with kelvin probe force Microscope(KPFM) in glove box, Model No. MINI-450F-7500, S.No. 180100	M/S. Park Systems Corp, Korea	26-04-2018	USD 112000 (Rs. 7956480)	₹ 7,658,112
273	EE	Glass Processor purchased through ELE-BALA-2017-1280	Photonics Tech. Pvt Ltd singapore (Lase	12-07-2017	USD 121837	₹ 8,682,543
274	EE	Narrow linewidth HPA purchased through ELE-BALA-2018-1012	Optical Engines	10-05-2018	USD 64000	₹ 4,560,870
275	EE	Narrow linewidth HPA through ELE-BALA-2018-1169	Optical Engines	24-09-2018	USD 64000	₹ 4,560,870
276	EE	Volume Scattering Function meter through OEC/SHA/2016/1054	Sequoia Scientific Inc	30-08-2016	USD 77500	₹ 5,522,929
277	EE	Network Analyzer (MY46109960) ESB122	Agilent	2010	(\$47198) 3303860	₹ 3,303,860
278	EE	PROBE SYSTEM (EPS150RFEDU) ESB1220	CADSCADE MICROTECK INC	28/09/2017	(\$58690) 4108300	₹ 4,108,300
279	EE	E5052B 10 MHz TO 7 GHz SIGNAL SOURCE Analyzer (MY47402176) ESB122	KEYSIGHT TECHNOLOGIES	18/08/2015	(\$99,796)6985720	₹ 6,985,720
280	EE	E8267D PSG vector signal generator (MY56440131) ESB122	KEYSIGHT TECHNOLOGIES	17/01/18	(\$66777.2) 4674404	₹ 4,674,404
281	EE	N9041B UXA Signal analyzer extended (US57220126) ESB122	KEYSIGHT TECHNOLOGIES	17/01/18	(\$123275.71) 8629299.7	₹ 8,629,300
282	EE	N5247A 10MHz to 67GHz PNA-X network analyzer (US57270812) ESB122	KEYSIGHT TECHNOLOGIES	17/01/18	(\$113204.10) 7924287	₹ 7,924,287
283	EE	E8257D PSG Analog Signal generator (MY58460199) ESB122	KEYSIGHT TECHNOLOGIES	07-07-2019	(\$73793.41) 5165538.7	₹ 5,165,539
284	EE	E8257D PSG Analog Signal generator (MY58460200) ESB122	KEYSIGHT TECHNOLOGIES	07-07-2019	(\$73793.41) 5165538.7	₹ 5,165,539
285	EE	E5053 Signal Source Analyser upgrade (Microwave downconverter) (MY45501065)	KEYSIGHT TECHNOLOGIES	07-07-2019	(\$73421.30) 5139491	₹ 5,139,491
286	EE	M8040A High performance BERT	KEYSIGHT TECHNOLOGIES	04-01-2019	(\$398092.90) 27866503	₹ 27,866,503
287	EE	OLED L.I.V TEST SYSTEM	M/s. McScience Inc, Republic of Korea	Will arrive in Dec2020	\$67,530/-	₹ 5,033,706
288	EE	Critical point dryer	Tousimis research corporation, USA	06-03-2019	54,36,580	₹ 5,436,580
289	EE	Sub-6GHz VSA & VSG	Keysight Technologies	11.03.20	INR 41,99,053.00 USD 58,980.51	₹ 4,199,053

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290	EE	EU Protocol Emulation - P8800S 039 UE Emulation Solution, P8800H UE Emulation Hardwre. 1) ELSU 56C Sno. 295192500878, 2)ELSU 20C Sno. 214194200069. 3) Software SDRV4 SN. 111190102657V2	Keysight Technologies	11.06.20	INR 2,23,75,800.00 USD 3,10,000.00	₹ 22,375,800
291	EE	Oscilloscope * 6 Series Mixed Signal Oscilloscope; (4) FlexChannels with 62.5M record length, 3-year warranty SI No.C022263 * 8 channel general purpose logic probe for 5 and 6 Series MSO oscilloscopes - a single call starts the process SI No C015552 C015566 *Mixed Domain Oscilloscope; (4) 500MHz analog channels, 10M record length, 500MHz spectrum analyzer, 3-year warranty SINo. ,C059278, C059280, C059281 * 4 GHz, Differential Probe with TekVPI interface TDP4000 R3 Standard Warranty Extended to 3 Years. SLNo. B042662 B042680 *Differential Probe: 500 MHz, 5X/50X, +/- 42V, TekVPI TDP0500R3 Standard Warranty Extended to 3 Years. SI No. B042692, B042693, B042694 B042696. B042697,B042698	Techtronick Asia Ltd USA	23.07.20	INR 51,43,298.00 USD 67,782.00	₹ 5,143,298
292	EE	MX22.5-3Pi-400-HV-LAN-LF-SNK (California AC Power,Source - MX Series Prog. 22.5kVA System, 1/3 phase, Dual, Vrange, GPIB, MODE, with option 400 VAC, LXI	M/S. AMETEK PROGRAMMABLE POWER, 9250 BROWN DEER ROAD,SAN DIEGO, CA 92121-	17-01-2019	INR.3,74,7244 US \$ . 50447	₹ 3,747,244
293	EE	Electrical Machine beds AC/DC motors with Instrumentation	Rockwell Automation	30-03-2009	INR.1,87,30,923	₹ 18,730,923
294	EE	M6100 PMX OLED I-V-L Test System (Manual Type, 1ch)	M/s. McScience inc, Korea	15-12-2020	INR: 50,32,897.13/- USD: 67,350/-	₹ 5,032,897
295	EE	X-STEP HW, IE HTS: 9031808000, ECCN:EAR99, e-CPRI Protocol Tester, SI.No: 1906008 (CSD 400)	Menrtol Graphic, Ireland	08.07.19	76,80,200.00	₹ 7,680,200
296	EE	SVR10-DELL PIWEREDGE R940 SERVER , SI.No: GKMQ7N2, GKNS7N2,2NJZPM2 (CSD 400)	Dev Systems & IT services Ltd., Chennai	30.04.19	30,31,875.00	₹ 3,031,875
297	EE	Vector signal Generator & Analyser (mmWave). SI. No: MY58500566 (CSD 400)	Keysight Tech. India Pvt ltd	08.03.19	1.45.96.732.00	₹ 14,596,732
298	EE	Signal analyser N5182B SI.No: MY57431212 (CSD 400)	Keysight Tech. India Pvt ltd	08.03.19	43,27,400.00	₹ 4,327,400
299	EE	Vector Network analyser N5244B SI.No: MY58421788 (CSD 400)	Keysight Tech. India Pvt ltd	08.03.19	1,04,07,811.00	₹ 10,407,811



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300	EE	AWG5204 16 Bit, 4CH Analog, 4Markaers/Channel, 2GS Memory Sl.No. B020366 (CSD 400)	Tektronix	14.12.18	50,13,349.00	₹ 5,013,349
301	EE	Slot-Die coater Vector SC	FOM Technologies A/S., Denmark	20/04/22	1,18,030 Euros	₹ 9,500,000
302	EE	Hexadata 2U rackmount DP ILX sever-R238612IR	Finecons Pvt Ltd	03-03-2023	3484872	₹ 3,484,872
303	ME	HIGH POWER ULTRAFast FIBER LASER SYSTEM & ACCESSORIES	AMPLI. SYSTEM. FRANCE, MELS IMPEX INC USA	09-07-1995	13918000	₹ 13,918,000
304	ME	EDM PULSE GENERATOR WITH CONTROLLER AND LINEAR DRIVES	MIKROTOOLS PTE LTD, PL INSTRU GMBH, ROX TRADING & SYS., AGMATEL INDIA	09-07-1995	3033000	₹ 3,033,000
305	ME	WYKO 3D PROFILOMETER CONTACT AND NONCONTACT	VEECO USA	30-06-1995	5500000	₹ 5,500,000
306	ME	MINIATURE MICRO MACHINING, CONFOCAL MEASURING FACILITY	NEWPORT USA, HPT BMR GMBH SWISS	2008 2013	3700000	₹ 3,700,000
307	ME	PIEZO ACTUATOR, CAPCITIVE SENSOR, PIEZO CONTROLLER, DYNAMO METER	PI INSTRUMENTS GMBH, KISLTER INDIA	2016 2017	3100000	₹ 3,100,000
308	ME	KERN MICROTCHNIK: KERN EVO, SWITZERLAND	KERN EVO, SWIS GMBH	30-06-1995	39500000	₹ 39,500,000
309	ME	1000 KGF ELECTRODYNAMIC VIBRATION SYSTEM	-	2017/2018	2458000	₹ 2,458,000
310	ME	HI Speed Camera- Fastcam SA5	Photron	03-01-2017	44060 Euro	₹ 3,392,223
311	ME	CO2 Refrigeration System with all standard essential test/ installation accessories	ENEX SRL, ITALY	02.08.2017	90,00,000	₹ 9,000,000
312	ME	GE V-tomex X-Ray micro nano tomography system	General Electric	06-07-1995	30000000	₹ 30,000,000
313	ME	RITEC RAM 5000 SNAP System	RITEC Inc	30-06-1995	5000000	₹ 3,000,000
314	ME	Instron 8801 100kN Fatigue Testing Machine	Instron Testing Systems	05-07-1995	8000000	₹ 7,000,000
315	ME	FLIR thermal Imaging Camera systems (4 nos)	FLIR systems	2008 2010 2013 2015	3400000 + 4200000+ 5400000 + 7000000	₹ 20,000,000
316	ME	Trotix Ultrasonic Immersion C-Scan System	Trotix Pvt Ltd	28-06-1995	3500000	₹ 3,000,000
317	ME	RITEC RPR 4000 system(6 nos)	RITEC Inc	2005 to 2015	12000000	₹ 12,000,000
318	ME	Polytec Laser Doppler Vibrometer (In-Plane)	Polytec Inc	30-06-1995	6000000	₹ 6,000,000
319	ME	Polytec Laser Doppler Vibrometer (Out-of--Plane)	Polytec Inc	05-07-1995	3500000	₹ 3,500,000
320	ME	IOS Laser Ultrasonic Receiving System	IOS Systems	09-07-1995	4500000	₹ 4,500,000
321	ME	Dhvani 5-axis Ultrasonic C-Scan system	Dhvani R & D	04-07-1995	3200000	₹ 3,000,000
322	ME	Ultrasonic Air-coupled C-Scan system	Ultran USA	03-07-1995	4000000	₹ 4,000,000
323	ME	Wingbox SHM systems	National Instruments	06-07-1995	4000000	₹ 4,000,000
324	ME	High Performance Cumputer Systems (12)	HP Workstations	2010 to 2015	3500000	₹ 3,000,000
325	ME	Ceram 235 X-ray Source and Digital Flat Panel Detector	Balteau and Vidisco	29-06-1995	6500000	₹ 6,000,000
326	ME	High Frequency Ultrasonic Scanning System	PI Physic, JST DPR500, NI DaQ	07-07-1995	8500000	₹ 8,000,000
327	ME	Focus LT Phased Array System with Probe Set	Olympus NDT	04-07-1995	6800000	₹ 6,800,000
328	ME	Omni Scan MX II Olympus Phased Array System	Olympus NDT	07-07-1995	5400000	₹ 5,400,000
329	ME	Powermate EMAT Pulsar/Receiver (3 Nos)	Innerspec USA	2013 2015 2015	6500000	₹ 6,500,000
330	ME	Ground Penetrating Radar	GSSI USA	04-07-1995	3800000	₹ 3,500,000

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331	ME	Panametrics Pulsar Receiver PR5800, PR5900, PR5058(2)	Olympus NDT	2007 2010 2013	4500000	₹ 4,500,000
332	ME	Confocal Microscope	Olympus, Japan	12.10.2019	10000000	₹ 10,000,000
333	ME	High speed camera	Photron, Japan	05.03.2018	5000000	₹ 5,000,000
334	ME	PIV system	Lavision, germany	05-05-2006	11000000	₹ 11,000,000
335	ME	Cordinate Measuring Machine (CMM)	Carl Zeiss, Germany	2009	600000	₹ 600,000
336	ME	Force Plates	Sensix, France	2019	2200000	₹ 2,200,000
337	ME	Motion Capture Camera	PhaseSpace, USA	2020	2000000	₹ 2,000,000
338	ME	PCT Apparatus	NFTDC Hyderabad	2021	5500000	₹ 5,500,000
339	ME	Customized induction furnace for gas-atomization	Therelek Engineers Private limited	10-02-2022	~ Rs 45 lakhs	₹ 4,500,000
340	ME	FLIR High-Speed Infra Red Camera Model : FLIR X6901sc	FLIR	17/01/2022	Rs 94,50,210.00	₹ 9,450,210
341	ME	Phantom VEO 1310L High-speed Camera	Phantom	28/10/2021	Rs 49,07,561.40	₹ 4,907,561
342	ME	Innerspec PowerBox H System	Arora Technologies (P) Limited., Navi Mumbai	16/03/2022	Rs.24,93,750.00	₹ 2,493,750
343	ME	Impedance Analyser	Elmack Engg Services Pvt Ltd	23/02/2022	Rs.21,36,990.00	₹ 2,136,990
344	ME	Multifunctional Tribometer	Rtech, USA	August 2021	6500000	₹ 6,500,000
345	ME	Femtosecond Laser Micromachining	Meera Laser	Jan 2023	18000000	₹ 18,000,000
346	ME	Thermo-Mechanical Fatigue Testing Machine	MTS, USA	Aug 2021	26409872	₹ 26,409,872
347	ME	Magnetron sputtering deposition unit	M/s Excel Instruments, Mumbai	2022	5700000	₹ 5,700,000
348	ME	K-MILL JYOTI 3 AXIS CNC MILLING MACHINE	JYOTI CNC AUTOMATION,RAJKOT	10-5-2016	1,06,73,250	₹ 10,673,250
349	ME	ROBOTS - 500 kgf, with force sensor (qty- 2)	ABB INDIA LTD.	2021	11,600,000	₹ 11,600,000
350	ME	UTM 100 kN , with video extensometer	ZWICK-ROELL	2017	5,300,000	₹ 5,300,000
351	ME	Thermo Mechanical Processing Unit	New Fields India Pvt Ltd	27/6/2018	7627119	₹ 7,627,119
352	ME	Image Acquisition System and accessories	Dantech	2020	3000000	₹ 3,000,000
353	ME	Micro Tensile Testing Machine	Instron5948	28/12/2015	5500000	₹ 5,500,000
354	ME	Furnace for Micro Tensile Testing Machine	Instron5948	28/12/2015	Re. 3034990	₹ 3,000,000
355	ME	Field Emission Scanning Electron Microscope	FEI Company of USA	10-06-2015	159 lakhs	₹ 15,900,000
356	ME	EDS and EBSD Accessries	EDAX Inc	27/7/2015	84 lakhs	₹ 8,400,000
357	ME	High temp High Vacum Furnace @MTL	Nobertherm	2022	3600000	₹ 3,600,000
358	ME	Femtosecond Laser	AMPLITUDE LASERS	01-08-2015	24,000,000.00	₹ 20,000,000
359	ME	Nanosecond Laser (Q Smart 1500, Quantel Laser)	Lumibird	23/02/2022	4,485,637.00	₹ 4,485,637
360	ME	2 kW Continuous Laser	Meera Laser Solutions	25/06/2021	5,610,000.00	₹ 56,101,000
361	ME	3D Microscope (Olympus DSX 1000)	Olympus	10-03-2023	3,280,000.00	₹ 3,280,000
362	ME	Miniaturised Machine Tool	Customised	2012	3,500,000.00	₹ 3,000,000
363	ME	Fastcam High Speed Camera NOVA S6	Photron	2020	3,000,000.00	₹ 3,000,000
364	ME	CO2 Refrigeration System with all standard essential test/ installation accessories	ENEX SRL, ITALY	02.08.2017	29,000,000	₹ 29,000,000
365	ME	2D mini LDV	Measurement Science Enterprise	01-09-2017	5,365,305	₹ 13,500,000
366	ME	High speed camera OS3-V3-S3	Integrated Design Tool	March 2018	3,000,000	₹ 3,500,000

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367	ME	1D mini LDV	Measurement Science Enterprise	May 2018	4,183,859	₹ 8,500,000
368	ME	1D mini LDV	Measurement Science Enterprise	February 2020	3,488,893	₹ 7,800,000
369	MME	INSPECT F (D8817)	FEI-USA	23.10.2009	15000000	₹ 12,150,000
370	MME	OPTICAL EMISSION SPECTROMETER (MSB 203)	SPECTRO ANALYTICAL INSTRUMENTS GMBH, GERMANY (AMETEK GROUP-MATERIALS ANALYSIS DIVISION)	23.01.2012	6000000	₹ 5,220,000
371	MME	TRANSMISSION ELECTRON MICROSCOPE - CM 12 SNO-D714	PHILIPS EXPORTS B.V	23.02.1986	6100000	₹ 4,050,000
372	MME	TRANSMISSION ELECTRON MICROSCOPY. TECNAL 20 WITH EDS AND CCD	FEI-USA		45000000	₹ 40,050,000
373	MME	ZWICK ROELL - 100KN - Z100 TEW MATERIAL TESTING MACHINE (MSB 105)	ZWICK ASIA PTE LTD.,	14.02.2014	10000000	₹ 8,550,000
374	MME	CNC WIRE EDM MODEL AU-300 IA SUBMERGED TYPE WITH OPTICAL ACCESSORIES (WORKSHOP)	ACCUTEX TECHNOLOGIES	21.06.2014	4100000	₹ 3,510,000
375	MME	HIGH TEMPERATURE CREEP - ATS (MSB 105)	APPLIED TEST SYSTEMS	22.08.2011	4500000	₹ 3,780,000
376	MME	GLEEBLE - 3800 (3800-485) (MJ LAB)	DSI, USA	23.01.2014	66000000	₹ 58,950,000
377	MME	TITAN G2 - 300 TEM (HSB 138)	FEI-USA	09.03.2010	17200000	₹ 15,030,000
378	MME	NANO MECHANICAL TYERST SYSTEM . TI-950 MSB202	HYSITRON INC. USA	07.04.2010	10700000	₹ 9,180,000
379	MME	X-PERT PRO MPD X-RAY DEFRACTOMETER MSB .201	SPECTRICS PTE LTD SINGAPORE	19.10.2010	6800000	₹ 6,120,000
380	MME	SIMOLOYER CMO1-2LM, AIR LOCK DN40 MSB 202	ZOZ GMBH, GERMANY	12.12.2008	3600000	₹ 2,790,000
381	MME	SPARK PLASMA SINTERING SYSTEM MSB 202	SOJITZ MACHINERY CORPORATION, JAPAN	19.10.2009	20000000	₹ 17,550,000
382	MME	"BRUKER"AXS AUTOMATED X-RAY DIFFRACTOMETER SRL#203192	BRUKER AXZ GMBH, GERMANY	09.01.2007	7056000	₹ 5,715,360
383	MME	"IZRD" DESKTOP RESIDUAL STRESS ANALYSIS SRL#09041010T09	PROTO MANUFACTURING LTD, CANADA	01.10.2009	5000000	₹ 4,050,000
384	MME	SIMULTANEOUS THERMAL ANALYZWER [ TG - DSC - DTA ]	M/S. SETARAM INSTRUMENTATION	30.03.2017	3002110	₹ 3,002,110
385	MME	High Temperature Fretting Wear Test Facility	M/s. RTEC Instruments, USA	04.04.2016	5715262	₹ 5,715,262
386	MME	Local Electrode Atom Probe	M/s. Cameca Instruments, Inc, USA	29.11.2016	31040180	₹ 310,401,801
387	MME	EDS & EBSD System for Helios G4 UC Model	M/s. EdaxInc, USA	29.06.2017	5813640	₹ 5,813,640
388	MME	Helios G4 OX Dual Beam Focused Icon Beam & Technai G2 Spirit Twin Transmission Electron Microscope	M/s. FEI Company of USA (S.E.A) Pte Ltd, Singapore	29.06.2017	81285490	₹ 81,285,490
389	MME	Dilatometer	M/s. Netzsch GeratebaugmbH, Germany	08.08.2017	3000000	₹ 3,000,000
390	MME	G4 ICARUS HF (CS) CARBON SULPHUR ANALYSER	BRUKER AXS GMBH	20.02.2018	3595493	₹ 3,535,185
391	MME	G8 GALILEO ON H+IR07 DIFFUSIBLE HYDROGEN OXYGEN AND NITROGEN ANALYSERS	BRUKER AXS GMBH	29.11.2017	6946685	₹ 6,946,685

S.No	Dept.	Description	Name of Manufacturer	Date of Purchase	Purchase of cost (Rs.)	Present Value (Rs.)
392	MME	RUMUL HIGH FREQUENCY RESONANT TESTING MACHINE GIGAFORTE50	RUSSEBERGER PRUFEMASCHINENAG, SWITZERLAND	15.08.2018	15274486	₹ 15,274,486
393	MME	THERMAL ANALYZER (LABSYS EVO TG-DTA/DSC 1600 C)	SETARAM INSTRUMENTATION	09.03.2018	3915500	₹ 3,915,500
394	MME	MAGNETICALLY IMPELLED ARC BUTT (MIAB) WELDING MACHINE	JIT ENGINEERING & SOLUTIONS PTE LTD.	09.07.2018	11198330	₹ 11,198,330
395	MME	HIGH TEMPERATURE TRIBOMETER	NANOVEA	22.03.2018	3568621.42	₹ 3,568,621
396	MME	HIGH VELOCITY OXY-FUEL(HVOF) SPRAY PROCESS	ADVANCED MATERIALS TECHNOLOGY (AMT) AG SWITZERLAND	09.03.2018	9436356.6	₹ 9,436,357
397	MME	HIGH RESOLUTION SCANNING ELECTRON MICROSCOPE	THIERMO FISHER FEI	15.10.2019	35500000	₹ 35,500,000
398	MME	COLD SPRAY	PLASMA-GIKEN	20.12.2018	15540152	₹ 15,540,152
399	MME	ACOUSTIC CHAMBER, DUST COLLECTOR AND GRIT BLASTER	MEC	23.03.2019	3788953	₹ 3,788,953
400	MME	FLAME SPRAY PYROLYSIS UNIT	PareQ GmbH Germany	10.05.2019	8820000	₹ 8,820,000
401	MME	ZWICK ROELL - 100KN - Kappa100SS creep testing machine (MSB 1	ZWICK ASIA PTE LTD.,	01.07.2019	10000000	₹ 10,000,000
402	MME	ZWICK ROELL - 100KN - Kappa100SS creep testing machine (MSB 1	ZWICK ASIA PTE LTD.,	01.07.2019	12351872	₹ 12,351,872
403	MME	AST 500, MAGNETRON SPUTTERING MACHINE	HHV	31.07.2020	4970000	₹ 4,970,000
404	MME	Laser powder bed fusion additive manufacturing system	Intech Additive Bengaluru	13/05/2021	₹ 16,453,646	₹ 14,808,281
405	MME	8 axis Fanuc robot and positioner	Fanuc	26-01-2023	₹ 5,450,000	₹ 5,450,000
406	MME	Differential Scanning Calorimeter - TA Instruments Discovery 25	TA Instruments, USA	05.08.2021	3337204	₹ 3,337,204
407	MME	CXRD Proto iXRD portable stress analysis system	Proto iXRD	24-03-2009	5059935 (99900 USD)	₹ 4,553,942
408	MME	CXRD BRUKER X-ray diffractometer	BRUKER D8 Discover	15-06-2006	8124480 (144000 Euro)	₹ 7,312,032
409	MME	Dilatometer	Netzsch Dil 402 Expedis Supreme	12-08-2017	3000100 (40000 Euro)	₹ 2,700,090
410	MME	Thermal conductivity setup	Erich Netzsch GmbH & Co LFA 427 and DSC 404 F3	11-09-2021	16758168 (193200 Euro)	₹ 15,082,350
411	OE	PARTICLE IMAGE VELOCIMETRY (PIV) SYSTEM P.O OED/VGID/2008/1012/SPIX/501 LOCATION: GLASS FLUME GROUND FLOOR	M/S TSI INCORPORATED USA	27/08/2008	5500000	₹ 4,000,000
412	OE	MEWM CONTROL SYSTEM UPGRADATION, LOCATION: WAVE BASIN 1ST FLOOR, Upgradation of MEWM in 2016	M/S DHI, DENMARK	11-08-2013	35000000.00 + 15000000.00	₹ 50,000,000
413	OE	SHALLOW WAVE MAKER	M/S PARKERS CHENNAI	29-06-1905	7500000	₹ 7,500,000
414	OE	HPHT RHEOMETER	GRACE INSTRUMENT COMPANY, USA	04.09.2018	100000000	₹ 100,000,000
415	OE	ROLLER OVEN	GRACE INSTRUMENT COMPANY, USA	04.09.2018	3000000	₹ 3,000,000
416	OE	360-Degree Full Mission Bridge Simulator	APPLIED RESEARCH INTERNATIONAL PR	19/08/2019	51437352	₹ 51,437,352
417	OE	Echo sounder	TELEDYNE RESON A/S	10-10-2019	3841005	₹ 3,841,005
418	PH	ACCESSORIES FOR UPGRADATION OF EXISTING LABRAM HR RAMAN SPECTROMETER	HORIBA JOBIN YVON SAS FRANCE	05.03.2014	RS. 32,58,645/- EURO 38,337/-	₹ 3,258,645
419	PH	MPMS-XL SQUID MAGNETOMETER WITH ITS ACCESSORIES 9SERIAL NO. CXL452CE) LOW TEMPERATURE PHYSICS LAB, DEPT. OF PHYSIS	QUANTUM DESIGN, USA	NOVEMBER 2009.	RS. 3.0 CRORE US \$595016	₹ 24,000,000

S.No	Dept.	Description	Name of Manufacturer	Date of Purchase	Purchase of cost (Rs.)	Present Value (Rs.)
420	PH	MODEL STIR LIN-4 NITROGEN LIQUIFIER AND ITS ACCESSORIES (S.NO. 1-1780-2) LOW TEMPERATURE PHYSICS LAB, DEPT. OF PHYSIS	STIRLING CRYOGENICS, NETHERLANDS	27.09.2012	RS. 6.0 CRORE EURO 431280	₹ 54,000,000
421	PH	MODEL L1610 HELIUM LIQUIEFIER, RSX COMPRESSOR AND ACCESSORIES (S.NO. 12-0060) LOW TEMPERATURE PHYSICS LAB, DEPT. OF PHYSIS	LINDLE CRYOGENICS, USA	15.11.2013	RS. 6.0 CRORE US \$ 949100	₹ 57,000,000
422	PH	SQUID BASED VIBRATING SAMPLE MAGNETOMETER (S.NO.SVSM 099) LOW TEMPERATURE PHYSICS LAB, DEPT. OF PHYSIS	QUANTUM DESIGN, USA	16.01.2014	RS. 2.70 CRORE US \$ 510000	₹ 25,000,000
423	PH	SMART LAB ROTATING ANODE X-RAY DIFFRACTOMETER	RIGAKU CORPORATION, JAPAN	28.03.2012	RS. 28704600	₹ 27,341,100
424	PH	SPECTROSCOPIC ELLIPSOMETER AND ACCESSORIES	J A WOLLAM, USA	15.02.2014	RS. 58 LAKH USD 90300	₹ 5,600,000
425	PH	DIELECTRIC SPECTROMETER	NOVACONTROL GMBH	29.10.2014	RS. 77 LAKH EURO 86075.40	₹ 7,000,000
426	PH	ATOMIC FORCE MICROSCOPE(AFM) PH/2017/0204/SPI DT.30.06.2017	M/S. PANK SYS. CORPN. THRO' M/S. ICON ANALYTICAL	INST: 21.03.2018	USD 1,10,000.00 RS, 71,94,000.00	₹ 7,100,000
427	PH	Picosecond Nd:YAG laser (with accessories for cavity dumped ultra-stable amplified operation)	QUANTA SYSTEM, ITALY	22/06/2006	4,418,673	₹ 3,500,000
428	PH	Microwave Vector Network Analyzer N5230A	Keysight	2008	Rs. 50 Lakhs	₹ 3,500,000
429	PH	Microwave Vector Network Analyzer N5230C	Keysight	2012	Rs. 35 Lakhs	₹ 1,500,000
430	PH	Femtosecond laser system with optical platforms	Coherent Inc	08.01.2015	22,500,000	₹ 25,000,000
431	PH	Micromachining end-station	Newport Inc	21-Jan-19	9,100,000	₹ 9,500,000
432	PH	Optical Parametric Amplifier	Light Conversion Inc. Lithuania	20/05/2019	7,500,000	₹ 7,500,001
433	PH	Transient absorption spectrometer	Ultrafast systems	05-10-2019	8,500,000	₹ 8,500,001
434	PH	Glove box (2)	MBraun	2015 and	40,00,000 each	₹ 5,500,000
435	PH	Multi functional electrode evaluation facility	Electrochem	2008	7,000,000	₹ 5,000,000
436	PH	Fuel cell testing station	Teledyne	2008	5,000,000	₹ 3,500,000
437	PH	Thermal conductivity analyser	Chem pex industries	2011	3,500,000	₹ 3,000,000
438	PH	Electrometer electrochemical impedance analyser	Bio-Logic SAS	2015	4,500,000	₹ 3,500,000
439	PH	BET	Micro meritics	2012	30,00,000	₹ 2,500,000
440	PH	CCD Camera and spectrometer coupled with the microscope	NIKON and Princeton Instruments	01-01-2008	40,000,00	₹ 3,500,000
441	PH	Time-resolved spectroscopy set up	NIKON, Edinburgh Instruments and Advanced Photonics	2011	3400000	₹ 3,200,000
442	PH	VME Data Aquisition system and Micro-Abrasove Water Jet machine	CAEN, Italy, Finepart Sweden	2015, 2019	30 Lakhs, 150 Lakhs	₹ 18,500,000
443	PH	Scanning Electron Microscope, High Resolution Transmission Electron Microscope	FEI, Netherland	2008	890000 Euro, 5.67 Crores	₹ 35,000,000
444	PH	X Ray Photoelectron Spectrometer	SPECS, Germany	2012	4 Crores	₹ 30,000,000
445	PH	Confocal Raman Microscope	WiTec, Germany	2008	1.5 Crores	₹ 10,000,000
446	PH	Photo Luminecsence Spectrometer	HORIBA JOBIN YVON SAS FRANCE	2011	1.5 Crores	₹ 10,000,000
447	PH	Solar Simulator	NEONSEE (K-TECH)	2015	80 Lakhs	₹ 5,000,000
448	PH	Parameter Analyser	Keithley Instruments, US	2017	58 Lakhs	₹ 5,000,000

S.No	Dept.	Description	Name of Manufacturer	Date of Purchase	Purchase of cost (Rs.)	Present Value (Rs.)
449	PH	Sputtering	Hind High Vacuum	2007	60 Lakhs	₹ 3,000,000
450	PH	Pulsed Laser Deposition LASER	Coherent Inc	2012	1.5 Crores	₹ 10,000,000
451	PH	Pulsed Laser Deposition Chamber	Excel Instruments, India	2014	40 Lakhs	₹ 3,000,000
452	PH	Hot Filament Chemical Vapour Deposition	SP3, US	2008	4 Crores	₹ 30,000,000
453	PH	ATOMIC FORCE MICROSCOPE(AFM)	Bruker	2011	1 Crore	₹ 7,500,000
454	PH	Physical Property Measurement System	QUANTUM DESIGN, USA	2008	5 Crores	₹ 30,000,000
455	PH	Atomic Force Microscope-B with Optical Accessories	Park Systems Korea	30.06.2017	7500000	₹ 7,500,000
456	PH	Bench Top X-Ray Diffractometer	Spectris Technologies Pvt Ltd.	13.08.2021	6429170	₹ 6,429,170
457	SAIF	X8-APEX SINGLE CRYSTAL X-RAY DIFFRACTOMETER. SL.NO.002848, LOCATION XRD LAB	M/S. BRUKER AXE BV, NETHERLAND	09.06.2006	20765031 (EURO 2,60,00.00)	₹ 20,765,031
458	SAIF	ADVANCE III 500 MHz DIGITAL FTNMR SPECTROMETER. SL.NO.ZH 102906, LOCATION NMR LAB	M/S. BRUKER BIOSPIN INTERNATIONAL AG, SWITZERLAND	21.11.2007	30689041 (\$5,07,500.00)	₹ 30,689,041
459	SAIF	QUANTA FEG200 HIGH RESOLUTION SCANNING ELECTRON MICROSCOPE. SL.NO.D8966, LOCATION-HRSEM LAB	M/S. FEI EUROPE BV, NETHERLAND	18.05.2009	13983843 (EURO 1,75,000.00)	₹ 13,983,843
460	SAIF	PV7400/20 NEPTUNE XM4 INTEGRATED EDS & WDS SYSTEM. LOCATION-HRSEM LAB	M/S. EDAX INC., USA	18.05.2009	8483041 (\$1,40,000.00)	₹ 8,483,041
461	SAIF	LAKE SHORE 7410 VIBRATING SAMPLE MAGNETOMETER. SL.NO.741055387, LOCATION-VSM LAB	M/S.LAKESHORE CRYOTRONICS, INC., USA	16.08.2010	14277988 (\$2,35,650.00)	₹ 14,277,988
462	SAIF	RF27 BRUKER FT-RAMAN SPECTROMETER. SL.NO.80, LOCATION-FT RAMAN LAB	M/S. BRUKER OPTIK GMBH, GERMANY	16.06.2011	6839416 (EURO 85,570.00)	₹ 6,839,416
463	SAIF	JES-FA200-ESR SEPCTROMETER. SL.NO. ER 1851000660066, LOCATION-ESR LAB	M/S. JEOL ASIA PTE LTD., SINGAPORE	01.09.2014	25713103 (\$4,25,396.00)	₹ 25,713,103
464	SAIF	CHNSO ANALYZER	LECO MODEL	15.07.2015	10855512.99	₹ 10,855,513
465	SAIF	AVHD 500 - AVENCE III HD 500 MHz One Bay NMR Spectrometer	AVHD 500 - AVENCE III	30.09.2016	31806000	₹ 31,806,000
466	SAIF	D8 VENTURE STATE OF THE ART SINGLE CRYSTAL X-RAY DIFFRACTO METER SYSTEM	SC XRD WITH CHILLER	28.07.2016	18750000	₹ 18,750,000
467	SAIF	LAMBDA 950 UV-VIS-NIR SPECTROPHOTOMETER	M/S. PERKIN ELMER	19.10.2017	2939860	₹ 2,939,860
468	SAIF	LAKE SHORE 7410 VIBRATING SAMPLE MAGNETOMETER. SL.NO., LOCATION-HSB 142	M/S.LAKESHORE CRYOTRONICS, INC., USA	26.09.2018	20791618 (\$285992)	₹ 20,791,618
469	SAIF	UHPLC-QTOF-HRMS	M/S WATERS GES M.B.H	09.09.2020	24858237	₹ 24,858,237
470	SAIF	GC-MS	Agilent 8890 GC System Custom etc	15.09.2020	4126500	₹ 4,126,500

**Total** ₹ **5,377,444,696**