

# TATA INSTITUTE OF FUNDAMENTAL RESEARCH

## Annual Procurement Plan for Financial Year 2020-2021

Sl. No	Item Description	Unit	Quantity
1	Peta Byte RAID storage	No	2
2	Computer servers & HPC	No	1
3	Communication /network hardware	Set	1
4	G-APD camera	No	1
5	LIGO India 3-m prototype detector and accessories	Set	1
6	Detector modules and accessories for Belle	Set	2
7	Pulser card, SiPM control cards	Set	2
8	Optics and optical accessories	Set	2
9	Position sensitive detectors	No	2
10	Electronics and vacuum pump accessories	Set	1
11	Power supplies and pulse generators	Set	2
12	X-ray & electron detectors, crystals, gratings etc.	Set	1
13	Vacuum pumps, gauges etc.	Set	1
14	Setup for electron transfer, high resolution, VUV x-ray studies	Set	1
15	Optics and laser spares for the O&M of 20 TW and 100 TW laser systems	Set	1
16	Detectors, imaging systems for experiments with ultra-high contrast pulses	Set	1
17	Fast scintillaters	Set	1
18	Low temperature measurement accessories	Set	2
19	Low beta Nb cavity accessories, high purity Nb, Cu etc.	Set	1

Sl. No	Item Description	Unit	Quantity
20	Beam transport system components (magnets, power supplies, beam diagnostic devices, control devices, etc.)	Set	1
21	Vacuum system components	Set	2
22	Cryogenic system components	Set	2
23	RF devices (amplifiers, control crates, etc.)	Set	2
24	Electronics (preamplifiers, HV and DAQ) and scanning setup	Set	2
25	PARIS phoswich detectors, electronics	Set	2
26	Science grade H1RG detector array, H2RG mux, astronomy filters, array controller, collectors – hermetic, hermetic connector fanout, connectors – non hermetic, cryogenic ribbon, detector cryo flex cable, cold feedthrough connectors, warm array cables, detector cryo connection/filter board, extra video board for software test station, PCI express boards, test station	Set	1
27	Cryogenic environmental vacuum chamber, cryo-cooler stations, closed cycle cooler lines, closed cycle cooler head, compressor	Set	1
28	Multimodal Confocal Microscope with spare Lasers	Set	1
29	FPCL System	Set	1
30	Small Laboratory Equipments	No	-
31	Lattice Light Sheet Microscope/ AFM/ Femto-Second Laser/ Fluoresce microscope	Set	1
32	Analytical Centrifuge	Set	1
33	Drosophila media maker with Automatic dispenser	Set	1
34	Up-gradation and replacement of old instruments	Set	1
35	Electron Microscope	Set	1
36	Scintillation Counter	Set	1
37	Single cell genomics	Set	1
38	Thermal Activity Monitor	Set	1
39	600 MHz NMR Spectrometer	No	1
40	Laser Scanning Confocal Microscopy-(MP)	No	2
41	Powder X-ray Diffractometer	No	1
42	Physical Property Measurement System/SQUID Magnetometer)	No	1
43	High End computing systems	No	2
44	Computers and Peripherals, Networking	No	5

<b>Sl. No</b>	<b>Item Description</b>	<b>Unit</b>	<b>Quantity</b>
45	5 Axis Turn Mill Machine	No	1
46	Fumehoods	No	8
47	Laser Capture Micro Disection	No	1
48	X Ray Photoelectron spectroscopy (XPS)	No	1
49	2 Port Glove Box	No	1
50	Bench Top EPR Spectrometer	No	1
51	Server	No	3
52	Desktops	No	25
53	Laptops	No	25
54	Computer Software and Data	Set	1
55	Molecular biology reagents	Set	1
56	Tissue culture consumables	Set	1
57	Protein Biochemistry reagents	Set	1
58	Reagents for Cell Biology	Set	1
59	Laboratory chemicals	Set	1
60	Consumables/re-agents	Set	1
61	Animal feed and culture material for insect work	Set	1
62	Plastic and glass ware for laboratory work	Set	1
63	AMC of High Value Equipment/ Facility Equipment	Set	1
64	Laboratory Safety equipment	Set	1
65	CO2, N2 and other Gases, Liquid Nitrogen Dry Ice & Alcohol, Liquid helium	Set	1
66	Equipment Spares	Set	1
67	Facility Consumables	Set	1
68	Scientific Information Resources and Data link Charges	Set	1
69	Fine chemicals	Set	1
70	Biochemicals	Set	1
71	Labeled chemicals	Set	1
72	Chemicals for synthesis of materials and other compounds	Set	1
73	Chemicals & Biochemicals for molecular biology experiments	Set	1
74	Enzymes, peptides and nucleotides	Set	1
75	Vacuum equipment & chambers, Power supplies, Meters, Spares and accessories for existing equipments, Sputtering targets, High purity chemicals and gases	Set	1
76	Vacuum accessories, compressor oils, adsorbing materials, filters, computer peripherals	Set	1
77	AMC charges for Power Plant, Chilling Plant, Computing Systems, Software renewal, etc.	Set	1
78	Audio Video system upgarde & refresh	Lot	1
79	Electrical , STP and HVAC system Upgrade	Lot	1

**EMG Grants Items**

<b>Sl. No</b>	<b>Item Description</b>	<b>Centre</b>	<b>Unit</b>	<b>Quantity</b>
01	Health monitoring Services for global list of Pathogen from M/s Idexx Bioanalytics	NCBS	No/Samples	35 samples
02	Benchtop Ultrahighthroughput System	NCBS	No	1