

User's fee of working instruments of College of Fisheries, Lembucherra Tripura

Sl. No.	Name of the instruments & Make	Year of Purchase	Cost (Rs. in lakh)	I/C of the equipment (Scientist, Mobile No., Dept.)	Function of the equipment	Status (Working/Repairable/ Non repairable)	Utilization charge/ Fee (Rs.)
1.	Real Time PCR/Applied Biosystems	2012	9,20,000.00	Dr. Janmejy Parhi/ 8974580427/ Dept. FGR	Gene expression analysis	Working	2000/- Per sample & 4,000/- per sample including cDNA Synthesis
2.	Workstation/HP	2019	60,3,750.00	Dr. Janmejy Parhi/ 897458042/ Dept. FGR	Data Analysis, Sequence Alignment, Genome Assembly, Phylogenetic Analysis, Structural Biology, Functional Annotation	Working	Not applicable
3.	Microinjector (for nucleic acid injection in fish embryo)	2018	16,22,250.00	Dr. Himanshu Priyadarshi/700575985/ Dept. FGR	Introducing vector in a cell	Under Repair	Rs.10,000/- (Per day)
4.	Real Time PCR/Applied Biosystems	2018	11,68,570.00	Dr. Himanshu Priyadarshi/700575985/ FGR Dept.	Gene expression analysis	Working	Rs.2000/- per sample & 4,000/- including cDNA Synthesis
5.	Twin Screw Extruder (Laboratory model) Make: Basic Technology Private Ltd., Kolkata	2007	10,81,600	Dr. Bhargavi Priyadarshini (Assoc. Prof) 8286658313 Dept FPTE	To prepare extruded products like Fish Kurkure etc.	Working	Rs.1500/- (1 kg dry sample)
6.	Spray Drier (PLC Based) Make: Jay Instruments and System Private Ltd. Mumbai	2021	9,33,333	Dr. Naresh Kumar Mehta, (Asst. Prof.) 7005041538 Dept FPTE	To take a liquid stream and separates the solute or suspension as a solid and the solvent into vapor	Working	Rs.1000/- per 500 ml

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7.	Texture Analyzer Make : Stable Micro System UK) Supplier: Scientific Digital System, New Delhi (MOFPI Project)	2013	12,26,250	Dr. Bahni Dhar, (Asst. Prof.) 9366125607 Dept FPTE	To analyze texture of the fish muscle	Working	TPA parameters (Hardness, cohesiveness, springiness, resilience and gumminess) Rs.500/-per sample (3 samples)	
							Gel strength (Breaking force and deformation) Rs.500/- per sample (3 samples)	
							Cutting Strength Rs.500/- per sample (3 samples)	
8.	Hanna Instrument Multi parameter with Do meter Make: Hanna, Germany	2023	6,30,000	Dr. S.S. Mahanand (Assoc. Prof) 9366125607 Dept FPTE	To analyze water quality parameters	Working	Solid	Rs.80/-per sample
							Liquid	Rs.60/-per sample
							Conductivity	Rs.60/-per sample
							Ammonia Nitrogen	Rs.60/-per sample
							Dissolved oxygen	Rs.120/-per sample
9.	Gel Documentation System, Brand Bio Rad GEC Doc x System PC version with Accessories Make: Indo Scientific & Surgical Pvt. Ltd, Kolkata (MOFPI Project)	2013	8,05,850	Dr. Bhargavi Priyadarshini (Assoc. Prof) 8286658313 Dept FPTE	To record and analyse the result of gel electrophoresis and membrane blotting experiment	Working	Rs.2500/- per sample	
10.	Hunter color Spectrophotometer with accessories	2013	9,75,158/-	Dr. Bahni Dhar (Assist. Prof) 9366125607 Dept FPTE	To measure the light intensity of a sample and monitoring colour accuracy throughout the production	Working	Rs.200/-(3 samples)	

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11.	Twin Screw Extruder. Make. Shandong light- M&E co. Ltd. China.	2012	35,76,851/-	Prof. A.B. Patel Mobile: 9862994842 Dept. of Aquaculture	To produce different types of fish feeds	Working	Rs.1500/-(1 kg dry sample).
12.	Eppendorf Cooling (refrigerated)Centrifuge Make. Eppendorf.	2022	14,59,920/-	Prof. A.B. Patel Mobile: 9862994842 Dept. of Aquaculture	Centrifugation	Working	Rs.350/-(Up to 2 hours)
13.	Multiskan High Sky Spectrophotometer Make. Thermo Scientific	2022	10,95,238/-	Prof. A.B. Patel Mobile: 9862994842 Dept. of Aquaculture	Estimation of Spectroscopic measurement of different analytical samples.	Working	Rs.200/-(Up to 2 hours)
14.	Freeze Dryer Make. Labogene	2023	13,74,700/-	Prof. A.B. Patel Mobile: 9862994842 Dept. of Aquaculture	Freeze Drying of different samples.	Working	Rs.600/-(Up to 100 gm (solid)/100 ml(liquid)
15.	Multiparameter Water Quality Measurement Unit (Sonde) Make. YSI Inc., USA.	2017	8,15,000/-	Prof. A.B. Patel Mobile: 9862994842 Dept. of Aquaculture	DO, Turbidity, TDS, Salinity, Temp., Chlorophyll, BGA etc.	Working	Rs.1000/-(Up to 10 Sample) Rs.100/-(Per sample)
16.	Foss Kjeltex 8400 (Protein Analyser) and digester Make. Foss	2013	USD 25,548 (Rs. 15,82,346.04)	Dr. Sampa Baidya (A/P) Mobile: 70051466065. Dept. of Aquaculture	Protein estimation	Working	Rs.1350/- per sample
17.	Nutrient Auto-analyser (Skalar Segmented Flow Analyzer) Make. Skalar analytical India Pvt. Ltd.	2015	22,57,500/-	Prof. Waikhom Gusheinzed, Mobile: 9856083153. Dept. of Aquaculture	Ammonia, Phosphorus, Nitrite, Nitrate estimation	Working	Each parameter Rs.170/-

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18.	Fluorescence Spectrophotometer Make. HITACHI	2015	8,21,540/-	Prof. A.B. Patel Mobile: 9862994842 Dept. of Aquaculture	Estimation of absorbance of analytical and biological samples	Working	Rs.400/- (Up to 2 hours)
19.	Mini Twin Screw Extruder. Make . Shandong arrow machinery co. Ltd. China.	2023	15,53,400/-	Prof. A.B. Patel Mobile: 9862994842 Dept. of Aquaculture	For preparation of different types of fish feed	Working	NA (for student research)
20.	Microphone Conference P.A. System BOSCH	2010	5,63,805	Prof. B. Lahiri 8910264933 Dept. FEES	P.A. system	Repairable	Rs.2,500/- (for Half Day/4 hrs.)
							Rs.5,000/- (for Full Day/8 hrs.)
21.	Inverted Binocular Microscope Make- Leica	2007	6,03,165/-	Dr. Bahni Dhar, Asstt Prof (SS), Dept of FPT &E, CoF	Research work	Working	Rs.500/- per hour or its fraction
22.	Automatic Tissue Processor Make- Shandon	2008	5,20,636/-	Dr. Bahni Dhar, Asstt Prof (SS), Dept of FPT &E, CoF	Histology/ Histopathology	Working	Rs.2500/- per Cycle
23.	SemiAutomated Microtome Make- Leica	2008	7,87,638/-	Dr. Bahni Dhar, Asstt Prof (SS), Dept of FPT &E, CoF	Histology/ Histopathology	Working	Rs.1000/- per every hour (incl. one blade) or its fraction *500/- for extra blade, if required
24.	High Performance Liquid Chromatography (HPLC) Make- Waters	2008	34,71,726/-	Dr. Bahni Dhar, Asstt Prof (SS), Dept of FPT &E, CoF	Research work	Working	Rs.2500/- per sample
25.	Phase Contrast Research Microscope Make- Carl Zeiss	2012	11,39,246/-	Dr. Bahni Dhar, Asstt Prof (SS), Dept of FPT &E, CoF	Research work	Working	Rs.500/- per hour or its fraction

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26.	Bomb Calorimeter	2014	9,19,800	Dr. Himadri Saha, Assist Prof (9774325853) Dept. AHE	Energy estimation of samples (Fish Feed)	Working	Rs.2500/- per sample
27.	Multi-mode Spectrophotometer	2015	7,87,500	Dr. Himadri Saha, Assist Prof (9774325853) Dept. AHE	Detection&quantifi cation (absorbance) of samples	Working	Rs.500/- per hour of use
28.	Real Time PCR	2019	12,69,975	Mr. Tanmoy Gon Choudhury, Assist Prof (7005039857) Dept. AHE	Differential tissue expression study	Working	Rs.2,000 /- per sample &Rs.4,000/- including cDNA synthesis
29.	Water Purification System (Millipore)	2022	9,83,779	Mr. Tanmoy Gon Choudhury, Assist Prof (7005039857) Dept. AHE	Preparation of distilled water for different research works & practicals	Working	Rs.25/-litre (Container will not be provided)