

College of Fisheries, Lumbucherra, Tripura

Sl. No.	Name of the instruments & Make	Year of Purchase	I/C of the equipment (Scientist, Mobile No., Dept.)	Function of the equipment	Status (Working/Repairable/ Non repairable)	Log book Maintained (Yes/ No)	Shared with others (Yes/ No)	Utilization charge/ Fee (Rs.)
1.	Real Time PCR/Applied Biosystems	2012	Dr. Janmejy Parhi/ 8974580427/ Dept. FGR	Gene expression analysis	Working	Yes (soft copy enclosed)	Yes (shared with CAU users)	2200.00 Per sample. 4500.00 per sample (including cDNA)
2.	Workstation/HP	2019	Dr. Janmejy Parhi/ 897458042/ Dept. FGR	Data Analysis, Sequence Alignment, Genome Assembly, Phylogenetic Analysis, Structural Biology, Functional Annotation	Working	Yes Yes (soft copy enclosed)	Yes (shared with CAU users)	Not applicable
3.	Microinjector	2018	Dr. Himanshu	Introducing vector in a cell	Repairable	Yes	Yes	To be fixed

	(Micromanipulator)/Eppendorf		Priyadarshi/ 700575985/ Dept. FGR			Yes (soft copy enclosed)	(shared with CAU users)	
4.	Real Time PCR/ Applied Biosystems	2018	Dr. Himanshu Priyadarshi/ 700575985/ FGR Dept.	Gene expression analysis	Working	Yes Yes (soft copy enclosed)	Yes (shared with CAU users)	2200.00 per sample. 4500.00 per sample (including cDNA)
5.	Twin Screw Extruder (Laboratory model) Make: Basic Technology Private Ltd., Kolkata	2007	Dr. Bhargavi Priyadarshini (Assoc. Prof) 8286658313 Dept FPTE	To prepare extruded products like Fish Kurkure etc.	Working	Yes	No (shared with CAU users)	To be fixed Extruded products are commercially sold

6.	<p>Spray Drier (PLC Based)</p> <p>Make: Jay Instruments and System Private Ltd. Mumbai</p>	2021	<p>Dr. Naresh Kumar Mehta, (Asst. Prof.) 7005041538 Dept FPTE</p>	To take a liquid stream and separates the solute or suspension as a solid and the solvent into vapor	Working	Yes	Yes (shared with CAU users)	To be fixed
7.	<p>Texture Analyzer</p> <p>Make : Stable Micro System UK)</p> <p>Supplier: Scientific Digital System, New Delhi (MOFPI Project)</p>	2013	<p>Dr. Bahni Dhar, (Asst. Prof.) 9366125607 Dept FPTE</p>	To analyze texture of the fish muscle	Working	Yes	Yes (shared with CAU users)	To be fixed

8.	Hanna Instrument Multi parameter with Do meter Make : Hanna, Germany	2023	Dr. S.S. Mahanand (Assoc. Prof) 9366125607 Dept FPTE	To analyze water quality parameters	Working	Yes	Yes (shared with CAU users)	To be fixed
9.	Gel Documenta tion System, Brand Bio Rad GEC Doc x System PC version with Accessories Make: Indo Scientific & Surgical	2013	Dr. Bhargavi Priyadarshini (Assoc. Prof) 8286658313 Dept FPTE	To record and analyse the result of gel electrophoresis and membrane blotting experiment	Working	Yes	Yes (shared with CAU users)	To be fixed

	Pvt. Ltd, Kolkata (MOFPI Project)							
10	Over Pressure Retort Supplier: SAKARA Equipments , Bangalore, India (MOFPI Project)	2014	Dr. Naresh Kumar Mehta, (Asst. Prof.) 9967088756 Dept FPTE	To develop Ready to serve fish products through flexible retort pouch	Not working (Non- repairable) Out of Order	Yes	Yes (shared with CAU users)	To be fixed
11	Spectropho tometer with accessories Make: IR Technology Service Pvt. Ltd., Kolkata	2013	Dr. Bahni Dhar (Assist. Prof) 9366125607 Dept FPTE	To measure the light intensity of a sample and monitoring colour accuracy throughout the production	Not working Out of Order	Yes	Yes (shared with CAU users)	To be fixed

	(MOFPI Project)							
12	Twin Screw Extruder. Make. Shandong light- M&E co. Ltd. China.	2012	Prof. A.B. Patel Mobile: 9862994842 Dept. of Aquaculture	To produce different types of fish feeds	Working	Yes	No	Feed based.: Copy enclosed(Feed is sold under Aqua-revolving fund. So far Feed worth, @. 1 crore has been sold) for Pilot scale production of feed.
13	Eppendorf Cooling (refrigerated) Centrifuge Make. Eppendorf.	2022	Prof. A.B. Patel Mobile: 9862994842 Dept. of Aquaculture	Centrifugation	Working	Yes	No	NA (under ongoing Project)
14	Multiskan High Sky	2022	Prof. A.B. Patel	Estimation of Spectroscopic measurement of	Working	Yes	No	NA (under ongoing project)

	Spectrophotometer Make. Thermo Scientific		Mobile: 9862994842 Dept. of Aquaculture	different analytical samples.				
15	Freeze Dryer Make. Labogene	2023	Prof. A.B. Patel Mobile: 9862994842 Dept. of Aquaculture	Freeze Drying of different samples.	Working	Yes	No	NA (Under ongoing project)
16	Multiparameter Water Quality Measurement Unit (Sonde) Make. YSI Inc., USA.	2017	Prof. A.B. Patel Mobile: 9862994842 Dept. of Aquaculture	DO, Turbidity, TDS, Salinity, Temp., Chlorophyll, BGA etc.	Working	Yes	No	(Charges parameter based; copy enclosed)
17	Foss Kjeltec 8400 (Protein	2013	Dr. Sampa Baidya (A/P)	Protein estimation	Working	Yes	Yes	1350/- per sample

	Analyser) and digester Make. Foss		Mobile: 70051466065. Dept. of Aquaculture					
18	Nutrient Auto-analyser (Skalar Segmented Flow Analyzer) Make. Skalar analytical India Pvt. Ltd.	2015	Prof. Waikhom Gusheinzed, Mobile: 9856083153. Dept. of Aquaculture	Ammonia, Phosphorus, Nitrite, Nitrate estimation	Working	Yes	No	(analysis charges are parameter based) :copy enclosed)
19	Fluorescence Spectrophotometer Make. HITACHI	2015	Prof. A.B. Patel Mobile: 9862994842 Dept. of Aquaculture	Estimation of absorbance of analytical and biological samples	Working	Yes	No	NA

20	Mini Twin Screw Extruder. Make . Shandong arrow machinery co. Ltd. China.	2023	Prof. A.B. Patel Mobile: 9862994842 Dept. of Aquaculture	For preparation of different types of fish feed	Working	Yes	No	NA (for student research)
21	Microphone Conference P.A. System BOSCH	2010	Prof. B. Lahiri 8910264933 Dept. FEES	P.A. system	Repairable	Yes	Yes, with other Departments	To be fixed
22	Millet processing machinaries comprising of 1) Millet destoner cum grader cum	2023	Dr. Vinod S. Naik, Assistant Professor of Agronomy, MTTC & VTC,	Millet processing	Working	Yes	Yes	To be fixed

	aspirator, (2) Millet Flour sifter, (3) Millet Roaster, (4) Millet dehuller and (5) Pulveriser 2023 make		College of Fisheries, CAU (Imphal), Lembucherra, Tripura 8147138663 Abhijit Debnath (Senior Scientist & Head) Krishi Vigyan Kendra (KVK), Dhalai PO/PS: Salema – 799 278 Dhalai District, Tripura 96123 94594					
23	Atomic Absorption	2006	Dr. Bahni Dhar,	Metal analysis	Irreparable	Yes	No	To be fixed

	<p>Spectrophotometer (AAS)</p> <p>Make-Perkin Elmer</p> <p>With Graphite furnace</p> <p>Make-Perkin Elmer</p>	2008	<p>Asstt Prof (SS), Dept of FPT &E, CoF</p>	<p>Part of AAS for heavy metal analysis</p>				
24	<p>Gas Chromatography & Mass Spectrometer (GCMS)</p> <p>Make-Perkin Elmer</p>	2007	<p>Dr. Bahni Dhar,</p> <p>Asstt Prof (SS), Dept of FPT &E, CoF</p>	<p>Research work</p>	<p>Irreparable</p>	<p>Yes</p>	<p>No</p>	<p>To be fixed</p>

25	Inverted Binocular Microscope Make- Leica	2007	Dr. Bahni Dhar, Asstt Prof (SS), Dept of FPT &E, CoF	Research work	Working	Yes	No	To be fixed
26	Automatic Tissue Processor Make- Shandon	2008	Dr. Bahni Dhar, Asstt Prof (SS), Dept of FPT &E, CoF	Histology/ Histopathology	Working	Yes	No	To be fixed
27	Semi Automated Microtome Make- Leica	2008	Dr. Bahni Dhar, Asstt Prof (SS), Dept of FPT &E, CoF	Histology/ Histopathology	Working	Yes	No	To be fixed
28	High Performanc e Liquid Chromatog raphy (HPLC)	2008	Dr. Bahni Dhar, Asstt Prof (SS), Dept of FPT &E, CoF	Research work	Working	Yes	No	To be fixed

	Make-Waters							
29	Phase Contrast Research Microscope Make- Carl Zeiss	2012	Dr. Bahni Dhar, Asstt Prof (SS), Dept of FPT &E, CoF	Research work	Working	Yes	No	To be fixed
30	Bomb Calorimeter	2014	Dr. Himadri Saha, Assist Prof (9774325853) Dept. AHE	Energy estimation of samples (Fish Feed)	Working	Yes	Yes, (shared with CAU users)	To be fixed
31	Multi-mode Spectrophotometer	2015	Dr. Himadri Saha, Assist Prof (9774325853) Dept. AHE	Detection&quantification (absorbance) of samples	Working	Yes	Yes, shared with (shared with CAU users)	To be fixed
32	Real Time PCR	2019	Mr. Tanmoy Gon Choudhury, Assist Prof (7005039857) Dept. AHE	Differential tissue expression study	Working	Yes	Yes, (shared with CAU users)	2,000 /- per sample & 4,000/- including cDNA synthesis
33	Water Purification	2022	Mr. Tanmoy Gon	Preparation of distilled water for	Working	Yes	Yes (shared)	To be fixed

	System (Millipore)		Choudhury, Assist Prof (7005039857) Dept. AHE	different research works & practicals			with CAU users)	
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