

EVALUATION PROFORMA FOR RANKING OF AGRICULTURAL UNIVERSITIES - 2018



TAMIL NADU Dr.J.JAYALALITHAA FISHERIES UNIVERSITY

VETTAR RIVER VIEW CAMPUS

NAGAPATTINAM - 611002

Evaluation Proforma for Ranking of Agricultural Universities for the year 2018

Brief Profile of the University

1.	Full Name and Address of the University			Tamil Nadu Dr. J. Jayalalithaa Fisheries University Vettar River View Campus Nagapattinam – 611 002		
2.	Contact details of ICAR Nodal officer Name		:	Name E-mail Mobile Landline No	: : : :	Dr. S. A. Shanmugam ce@tnfu.ac.in 9894735180 04365 256430
3.	Number of students Passed out (2018)) :	UG PG Ph.D.	: : :	53 Nos. 14 Nos. 5 Nos.
4.	Faculty Position	n as on 01.01.2018	:	96		
		Sanctioned		In Position		% of filled
Col	leges	160	92			57.5
Res	earch Centres	-	-			-
AICRP		-	-			-
KVKs		7	4			57.14
Tot	tal	167		96		60

S. No.	Name of the Funding Agency	2018-19	TOTAL
1	State funded Schemes		
a)	Plan Schemes	422270000	422270000
b)	TANII Projects (State Innovation Fund)	8140000	8140000
c)	NABARD financial assistance	186500000	186500000
2	GOI Schemes	13756179	13756179
3	ICAR Fully financed Schemes	2484020	2484020
4	ICAR Development Grant	26228811	26228811
5	ICAR KVK - Sikkal	4857000	4857000
6	NADP Schemes	85000000	85000000
7	Other Agency Schemes (Private)	3313818	3313818
8	IAMWARM	5145000	5145000
	TOTAL	757694828	757694828

TAMIL NADU Dr. J. JAYALALITHAA FISHERIES UNIVERSITY

Vettar River View Campus, Nagapattinam – 611 002 Tamil Nadu, India

Tel : 04365 – 256432 Fax : 04365 – 256433 f-mail : registrar@tnfu.ec.in Web : www.tnjfu.ac.in

Dr. A. Srinivasan, Ph.D., Registrar

DECLARATION

It is certified that the information provided in the proforma is correct and the responsibility of accuracy and authenticity of the data lies with the University.

It is to declare that the entire filled- in proforma was uploaded on the website of the University and it is available at www.tnjfu.ac.in. It is further declared that the document shall be made available till next ranking.

Date: 06.06.2019

(Signature of the Registrar)

Aussam 6/6/15

Seal

REGISTRAR

Tamii Nadu Dr. J.Jayalalithaa Fisheries University Vettar River View Campus Nagapattinam - 611 002.

Proforma

	Parameters	Score	Scor	e awarde	ed	
(A).	TEACHING OUTCOME (IMPACT/QUALITY	/ WEIGH	T 40%	40% OR 40 MARKS)		
A1.	Number of students got ICAR – PG Scholarships (erstwhile JRF) during 2018/Number of UG Students passed out (List to be enclosed as Annexure A1) (Maximum 1 Mark)					
A2.	If more than 5% of UG Students got ICAR PG Sch students who cleared the exam but not awar Scholarship not to be included) Number of students got admission in Mast during 2018 through ICAR entrance ex Number of UG students passed out (List to I Annexure A2) (Maximum 1 mark)	rded ICAI er's Prog amination	gram	1 mark	0	
	If more than 10% of UG Students got admission a through ICAR entrance examination			1 mark	1	
A3.	Students performance at M.Sc Level (List to	be enclos	ed as			
	Annexure A3) (Maximum 2 marks) If more that 5% Students got ICAR – JRF /SRF (er equivalent (The students who cleared the exam but ICAR-JRF /SRF not to be included)	ut not awa	arded	2 marks	0	
A4.	Students Performance at M.Sc Level (List to	be enclos	ed as			
A5.	Annexure A4) (Maximum 1 mark) If more than 10% of students got admission in ICAR entrance examination ICAR Jawaharlal Nehru Award for Ph.D. th (List to be enclosed as Annexure A5) (Maximum 2)	nesis in :		1 mark	0	
	If number is 1	i iiiai K3)		1 mark	0	
A6.	If number is more than 1 Percentage of ARS selections in the disciplin University against available seats advertis during 2018 (List to be enclosed as Annexure Ar 3 marks)	sed by A	ASRB	2 marks		
	Up to 5 percent			1 mark	0	
	More than 5 percent			3 marks		
A7.	Percentage of students qualified NET Education disciplines of Agriculture and allied Sciences (List to be enclosed as Annexure A7) (Maximum 3 Up to 5 percent	during :	2018	1 mark		
	More than 5 percent			3 marks	3	
A8.	Percentage of faculty positions filled research, extension, KVK, AICRP and at regi (with details of Positions filled and sanc strength for each category) (List to be enclosed as Annexure A8) (Maximum	onal sta	tions adre			

	60% to 70%	1 mark	1
	70 % to 80%	2 marks	
	If more than 80%	4 marks	
A9.	Number if students admitted from overseas for Ph.D. during 2018 (list to be enclosed as Annexure A9) (Maximum 2 marks)		
	If number is up to 2	1 mark	0
	If it is more than 2	2 marks	
A10.	National and International awards (such as those conferred by the National Organizations like ICAR,CSIR,DBT,DST,UN,CG, Centers and Recognized National Sciences/Engineering Academics) (earned by Faculty) in 2018 (list with only top 10 awards to be enclosed as Annexure A 10) (Maximum 3 marks)		
	If Number is 1	1 mark	
	If Number is 2-4	2 marks	
	If Number is more than 4	3 marks	3
A11.	Best Institution / University Awarded by ICAR in 2018 in any filed (Proof to be enclosed as Annexure A11) (Maximum 1 mark)	1 mark	0
A 12.	Award in all India Youth Festival or All India Agri. University Sports Meet in 2018 (proof to be enclosed as Annexure A 12) (maximum 1 mark) 1st 2nd or 3rd Position in 2018	1 mark	0
A 13.	Fellowship or Associate ship of National Science Academies (NAAS,INSA,NAS,NAMS,INAE achieved during 2018) (list not more than five to be enclosed as Annexure A13) (Maximum 2 marks) Up to 1	1 mark	0
	2 or more	2 marks	
A 14.	Percentage of Faculty with Ph.D. degrees obtained from universities from outside of the state where employed (list along with proof to be enclosed as Annexure A14) (Maximum 2 marks)	Z marks	
	If less than 15%	No marks	
	15 to 25 %	1 mark	1
	More than 25 %	2 marks	
A15.	Percentage of Faculty from the State other than the State in which University situated (list along with proof to be enclosed as Annexure A15) (Maximum 2 marks)		
	Less than 20%	No marks	0
	20 – 30 %	1 mark	
	More than 30 %	2 marks	

A16.	Percentage of Faculty with 3 months or more of Post doctoral/Visiting scientist experiences abroad in 2018 (Maximum 1 mark)		
	More than 3 % of faculty strength	1 mark	0
A17.	Average footfall in library (Maximum 2 marks)		
	Up to 15% of students/faculty in position visiting library daily	1 mark	
	More than 15% of students /faculty in position visiting library daily	2 marks	2
A 18.	CERA utilization in 2018 (Maximum 2 marks)		
	* CERA Utilization (number of hits/ total number of students and faculty)(to be awarded for top 10 universities) * information will be collected from DKMA, ICAR	2 marks	-
A19.	Accreditation on 01.01.2018 (by ICAR) (Copy of accreditation letter/certificate to be enclosed as Annexure A19) (Maximum 3 marks)		
	Accreditation granted for up to 2 years to the University	2 marks	
	Accreditation granted for up to 5 years to the University	3 marks	3
A 20.	Implementation of recommendation of Fifth Deans, Committee/BSMA committees (Copy of proceedings of academic Council/Board of Managements, in which decision of implementation was taken, to be enclosed as Annexure A20 (Maximum 2 marks)		
	Fifth Deans Committee/BSMA Committees recommendations partially implemented (if not implemented in all the faculties/Colleges).	1 mark	
	Fifth Deans Committee/BSMA Committees recommendations partially fully implemented	2 marks	2

(B)	RESEARCH (WEIGHTAGE 30% OR 30 MARKS)		
B1	RESEARCH PRODUCT – (No. of research articles including review articles per faculty member having NAAS rating of over 6.0 in 2018) (List of papers along with NAAS rating 2019 to be enclosed as annxure B1). List of publications below NAAS rating of 6.0 should not be made. (Maximum 9 marks)		
	Less than 0.5 papers per faculty member	No marks	0
	0.6 – 1.0 papers per faculty member	3 marks	
	1.1 – 1.5 papers per faculty member	5 marks	
	1.6 - 2.0 papers per faculty member	7 marks	
	More than 2.0 papers per faculty member	9 marks	
B2.	Research Impact (Maximum 5 marks)		
	Percentage of faculty having h – index as 10 or more than 10 (to be obtained from Google Scholar)	1	
	If 2 to 5 Percent	1 mark	2
	If 5 to 10 Percent	2 marks	2
	If 10 to 20 Percent	3 marks	
	If more than 20 Percent	5 marks	
B3.	Research Excellence		
	(i) Patents granted during 2018 (Only patents granted along with proof to be listed as Annexure B3 (i)) (Maximum 6 marks) Per patent granted	2 marks (limited to 6 marks)	2
	(ii) Varieties released (Maximum 6 marks) (Varieties released by the centre/State Government and notified in Gazette to be listed (Copy of gazette notification to be enclosed as Annexure B3(ii)) or	1 mark for each (limited to 6 marks)	6
	breeds/Technologies /Vaccines developed/new strains of bacteria/virus/parasite identified (Maximum 6 marks) (Appropriate proof for development and adoption of technology to be enclosed as Annexure B3 (ii)) or		
	new farm machinery & tools developed during the year 2018 (Maximum 6 marks) (Appropriate proof for development and adoption of machinery & tools to be enclosed as Annexure B3(ii))		
	(iii) Funds received through external competitive grants (excluding ICAR development and KVK and AICRP grants) (Total amount) (Maximum 3 marks)		
	2-3 Crores	1 mark	
	3 to 5 Crores	2 marks	
	More than 5 Crores	3 marks	3
	(iv) If PME Cell Established and Functional (Max.1 mark)	1 mark	1

(C).	EXTENSION AND OUTREACH (WEIGHTAGE 30% OR 30 MARKS)		
C1.	KVK Awards during 2018 (Maximum 4 marks) (Attach proof as Annexure C1)		
	Zonal Award (one mark for each award)	2 marks	0
	National Awards (two marks for each award)	2 marks	
C2.	Extension workers Award at State / National level (by Government Agency) during 2018. (Proofs to be enclosed as Annexure C2) (Maximum 4 marks)		0
	State level Awards		
	1-5 Awards		
	More than 5 awards		
	National level awards		
	1-3 Awards		
C3.	More than 3 awards Quality input supplied by University (Seed, Semen, Planting material etc.) during 2018 (Maximum 2 marks)		0
	More than 50,000 - 1,50,000 planting material	1 mark	
	More than 1,50,000 planting material	2 marks	
	Or		
	Semen up to 10,000 doses	1 mark	
	Semen up to 10001 to 50,000 doses Or	2 marks	
	Breeder Seed (Cereals and Pulses) up to 200 quintals	1 mark	
	More than 200 quintals	2 marks	
	Or		
	Fish Seed / fingerlings supplied		
	10 Lakh to 1 Crore	1 mark	1
	More than 1 Crore	2 marks	
C4.	If one lakh soil samples are analyzed per year (Maximum 1 marks) (Samples of fish, water, soil, fish products, and feed)	1 marks	1
C5.	Revenue generated through consultancies, certification, testing, tuition fee, licensing, training, sale of inputs and commercialization of technologies during FY 2018-19. The details of revenue, head (item) wise, duly certified and signed by comptroller of the university need to be listed as Annexure C5. The list should exclude the items listed in B3 (iii) (Maximum 10 marks)		0
	5-10% of University Budget	1 mark	1
	10-20% of University Budget	4 marks	
	20-30% of University Budget	7 marks	
	More than 30% of University Budget	10 marks	

C6.	Number of inter – institutional collaborative projects obtained during 2018 (proof to be enclosed as Annexure C6) (Maximum 2 marks)		
	One project	1 mark	
	Two or more	2 marks	2
C7.	Partnership with Private Sector made during 2018 (proof to be enclosed as Annexure C7) (Maximum 1 mark)	1 marks	1
C8.	Exchange of faculty (Sabbatical, Visiting Scientist, Adjunct Faculty) during 2018 (Proof to be enclosed as Annexure C8) (Maximum 2 marks)		0
	Faculty coming from outside University (Minimum 1)	1 mark	1
	Faculty of University going to other University (Minimum 1 faculty)	1 mark	
C9.	Number of Enterprises / star – ups promoted by the University (list is to be provided as Annexure C9) (Maximum 2 marks)		
	1-2	1 mark	
	More than 2	2 marks	2
C10.	Percentage of Students employed in Public/ Private/Banking Sectors (List is to be provided as Annexure C10 (Maximum 2 marks)		
	10-20 percent	1 mark	1
	More than 20 percent	2 marks	
	Total	100 marks	40

Instructions for filling the Proforma: -

- The filled-in proforma should be uploaded on university website prior to submission to ICAR. Uploading of the document is pre-requisite for evaluation of the proposal.
- The filled-in proforma should be submitted along with the Declaration duly signed by the Registrar of the University.
- The Year 2018 mentioned in the Proforma refers to the calendar year. Only in case of the Revenue generated (C5) details, the Financial Year 2018-19 need to be considered.
- The information need to be submitted strictly as per the Proforma and the Annexure's provided.

Annexure for the Parameter A1

S. No.	Number of students got ICAR-PG Scholarships (former ICAR-JRF) in 2018	Total number of UG students passed out in 2018	Percentage (%)
1.	2	53	3.77

List of the students got ICAR-PG Scholarships in 2018

S. No.	Name of the student	ID. No.
1.	Naveenkumar, R.	BFP 14008
2.	Devadharshini, S.	BFT 14048

Annexure for the Parameter A2

S. No.	Number of students got	Total number of	Percentage (%)
	admission in Masters	UG students	_
	program in 2018 through	passed out in	
	ICAR entrance examination	2018	
1.	16	53	30.19

List of the students got admission in Master's program in 2018 through ICAR entrance examination

S. No.	Name of the student	ID. No.
1.	Ajithkumar, M	BFP 14001
2.	Dhanalakshmi, M	BFP 14003
3.	Manikandan,V	BFP 14005
4.	Naveenkumar, R	BFP 14008
5.	Naveen Rajeshwar, B	BFP 14009
6.	Santhoshkumar, A	BFP 14013
7.	Satheesh, R	BFP 14014
8.	Vignesh, M	BFP 14019
9.	Akilandeshwari, A.	BFT 14042
10.	Arthi, R.	BFT 14043
11.	Devadharshini, S.	BFT 14048
12.	Karthik, R.	BFT 14057
13.	Manimozhi, E.	BFT 14066
14.	Manivannan, M.	BFT 14068
15.	Porkodi, M.	BFT 14070
16.	Sudarshan, S.	BFT 14078

Annexure for the Parameter A3

S.No.	Number of students got ICAR SRFs in 2018	Total number of Ph.D. students passed out in 2018	Percentage (%)
1.	Nil	5	0

Annexure for the Parameter A4

S.No.	Number of students got	Total number of	Percentage (%)
	Admission in Ph.D. in 2018	Masters students	
	through ICAR Entrance	passed out in	
		2018	
1.	-	-	-
List the	students got Admission in Ph.D.	in 2018 through ICAF	R Entrance exam
S.No.	Name of the Student		
1.		-	

Annexure for the Parameter A6

S. No.	Number of students got ARS in the disciplines offered by the university in	seats available in	Percentage (%)
	2018	advertised by	
		ASRB	
	Nil	Nil	-
List of t	he students got ARS selection	S	
S. No.	Name of the student		ARS Discipline
-	-		-

Annexure for the Parameter A7

S. No.	Number of student	Total number of	Percentage (%)
	qualified NET in th	PG and Ph.D.	
	disciplines of agricultur	students	
	and allied sciences		
1.	10	33	30.3

List of t	he students qualified N	ET	
S. No.	Name of the student	ID. No.	Discipline
1.	Mahadevi	DPF(P)16004	Aquaculture
2.	Prabu, E.	DPF(P)17007	Aquaculture
3.	Yuvarajan, P.	U-18-TN-03-003-D-F-005	Aquaculture
4.	Prabu, E.	MFT 15050	Aquaculture
5.	Kalaiyarasi, T.	MFT 15067	Fisheries Resource
			Management
6.	Sudhan, C.	MFT 15069	Fisheries Resource
			Management
7.	Deepika, S.	MFT 15053	Aquatic Environment
			Management
8.	Masilan, K.	MFT 15058	Fish Processing
			Technology
9.	Arun Jenish, D.	MFT 15061	Fishing Technology and
			Fisheries Engineering
10.	Ramesh Kumar	MFT 15063	Fishing Technology and
			Fisheries Engineering

Annexure A8

Abstract of Teaching Faculty

S. No.	College / Institute / Centre	Sanctioned	Filled	Vacant
1.	Tamil Nadu Dr.J.Jayalalithaa Fisheries University, Nagapattinam	6	6	0
2.	Fisheries College and Research Institute, Thoothukudi	73	49	24
3.	Dr.M.G.R. Fisheries College and Research Institute, Ponneri	21	15	6
4.	College of Fisheries Engineering, Nagapattinam	21	14	7
5.	Dr.M.G.R. Fisheries College and Research Institute, Thalainayeru	29	7	22
6.	Institute of Fisheries Post Graduate Studies, Chennai	6	0	6
7.	Tamil Nadu Dr.J.Jayalalithaa Fisheries University Academy, Chennai	4	1	3
8.	ICAR-Krishi Vigyan Kendra, Sikkal	7	4	3
	TOTAL	167	96	71

DETAILS OF POSITIONS FILLED AND SACNTIONED CADRE STRENGTH

SI. No	Name of the post		ΓNJFU apatti			FC&RI, oothuku	di	I	C&RI Conne	,	F	.M.G C&R laina	ļ,		CoFE, apattir	nam		FPGS henna	•		NJFU aden		KVK	., Sikl	kal
	-	S	Р	V	S	Р	V	S	Р	V	S	Р	V	S	Р	V	S	Р	V	S	Р	V	S	Р	V
1.	Vice-Chancellor	1	1	0																					
2.	Registrar	1	1	0																					
3.	Controller of	1	1	0																					
	Examinations																								
4.	Director of	1	1	0																					
	Research																								
5.	Director of	1	1	0																					
	Extension																								
	Education																								
6.	Professor				8	8	0	2	2	0	3	1	2	2	1	1									
7.	Associate				19	10	9	4	3	1	6	0	6	4	1	3									
	Professor																								
8.	Assistant				44	29	15	15	10	5	20	6	14	15	12	3	5	0	5	4	1	3			
	Professor																								
9.	Assistant	1	1	0	1	1	0										1	0	1						
	Librarian																								
10.	Asst. Dir. Phy.				1	1	0																		
	Edn.																								

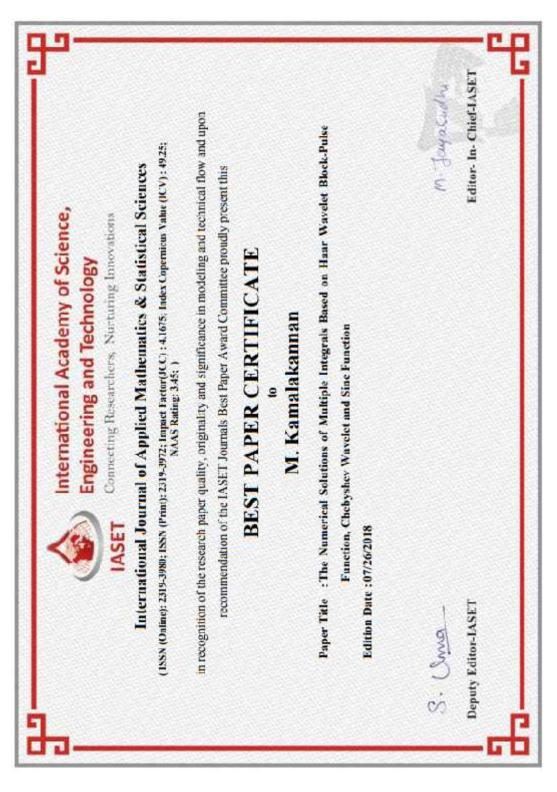
11.	Programme Co-																						1	1	0
	ordinator /																								
	Senior Scientist																								
12.	Subject Matter																						6	3	3
	Specialists																								
	TOTAL	6	6	0	73	49	24	21	15	6	29	7	22	21	14	7	6	0	6	4	1	3	7	4	3

S – Sanctioned; P – Position; V – Vacant

Annexure for A10 - National and International awards (6 nos.)

International Awards (2 nos.)

 Dr.M.Kamalakannan received Best Paper Award for "The numerical solutions of multiple integrals based on Haar Wavelet Block-Pulse function, Chebyshew Wavelet and Sinc function, International Journal of Applied Mathematics & Statistical Science, 26.04.2018.



 Dr.D.Kesavan received Best Presentation Award (Poster Presentation) at International Conference on Recent Advances in Food Processing Technology, IIFPT, Thanjavur, India, 17-19thAugust 2018.



 Dr.B.Sundaramoorthy received Best Book Award (Oral Presentation) from Agricultural Scientific Tamil Society, New Delhi on 19.11.2018.



 Dr.S.Athithan received Best Innovative Extension Worker Award from Society for Advancement of Agricultural Innovations in National Conference on Innovative Farming for Food and Livelihood Security in Changing Climate at West Bengal, on 12-13.01.2018.



 Dr.K.Riji John received Best Paper Award in 11th Indian Fisheries and Aquaculture Forum organized by Asian Fisheries Society and ICAR-CIFT at Cochin during 21-24.11.2017.



Dr.D.Kesavan received Best Paper Award (Oral Presentation) at 4th National Conference on Agricultural Scientific Tamil, IFPGS, Chennai, India, on 19-20.11.2018.



Annexure A11

List of the faculty members received Awards							
S. No.	Name of the faculty member	Award details					
1.	Dr. G. Jeyasekaran	Tamil Nadu Scientist Award by Government of Tamil Nadu					

Annexure for the Parameter A14

S. No.	Number of faculty with Ph.D. degrees obtained from Universities from outside of the State where employed	Total number of faculty	Percentage (%)						
1.	17	96	17.7						
List of th	ne faculty members								
S. No.		the faculty member							
1	Dr.G.Jeyasekaran								
2	Dr.G.Sugumar								
3	Dr.K.Rathnakumar								
4	Dr.K.Riji John								
5	Dr.M.Rosalind George								
6	Dr.R.Jeya Shakila								
7	Dr.A.Gopalakannan								
8	Dr.C.Anand								
9	Dr.S.Anand								
10	Dr.V.Alamelu								
11	Dr.D.Kesavan								
12	Dr.V.Kaliyamurthi								
13	Dr.E.Suresh								
14	Dr.M.Ramar								
15	Dr.N.Muralidharan								
16	Dr.Mohmmad Tanveer								
17	Dr.C.Lloyd Chrispin								

Annexure for the Parameter A15

S. No.	Number of faculty from the States other than the State in which university is located	Total number of faculty	Percentage (%)						
1.	4	96	4.12						
	List of the fac	ulty members							
S. No.	Name of the faculty member								
1.	Dr.K.Riji John								
2.	Dr.M.Rosalind George								
3.	Dr.Mohammad Tanveer								
4.	Ms. Ranjeeta Kumari								

Annexure for the Parameter A16

S. No.		nber of faculty with 3	Total	Percentage (%)					
	mor	nths or more of	number of						
	Pos	tdoctoral/Visiting scientist	faculty						
	ехр	eriences abroad in 2018	_						
-		-	-	-					
List of th	ne fa	culty members							
S. No.	Nan	ne of the faculty member							
-									

Annexure A19

ICAR Accreditation on 01.01.2018

University ICAR accredited : 5 years



ANNEXURE A20

Implementation of recommendations of Fifth Deans Committee / BSMA Committees

As per the V Dean's Committee recommendations, all the courses have been redistributed and implemented from B.F.Sc. 2016-17 onwards. The Students READY Programme has also been implemented for the B.F.Sc. (2014-15 batch) onwards. As suggested by the DDG (Education) and ADG (Fisheries) at the review meeting on 29.06.2017 & 30.06.2017 at NAARM, Hyderabad, the credit load for the courses has been accommodated within 6 semesters and the student READY programme is scheduled for 7th and 8th semesters from 2016-17.



TAMIL NADU FISHERIES UNIVERSITY Approved Minutes of the Fifth Meeting of the Academic Council

Proc. No. 1535/TNFU/V AC/ 2015 dated: 18.01.2017

Present : Dr. K.RATHNAKUMAR, Ph.D., Registrar and Secretary, AC

The Fifth meeting of the Academic Council of the Tamil Nadu Fisheries University was held on 29.12.2016 at 11.00 a.m in Agricultural Conference Hall of the Secretariat, Chennai. The Chairman of the Academic Council welcomed all the members and nominated the Controller of Examinations, TNFU, Nagapattinam to act as Member-Secretary for this particular meeting. The following members were present:

SI,No.	Name	
	Class I - Ex-officio Members :	
1.	Dr.K.Rathnakumar, Acting Vice –Chancellor	Chairman
2.	Thiru. Gagandeep Singh Bedi, I.A.S., Secretary to Government, AHD&F Dept. (Additional Charge)	Member
3.	Commissioner of Fisheries, I/c., State Fisheries Department (Additional Charge)	-do-
4.	Dr.G.Sugumar, Dean Fisheries College and Research Institute, Thoothukudi	-do-
5.	Dr.S.Felix Dean Fisheries College and Research Institute, Ponneri	-do
6.	Dr. S. Balasubramanian Dean College of Fisheries Engineering TNFU, Nagapattinam	-do-
7.	Dr.K.Karal Marx, Dean, Faculty of Basic Sciences & Director of Research I/c., Tamil Nadu Fisheries University Nagapattinam	-do-
8.	Dr.M.Nagoor Meeran Director of Extension Education TNFU, Nagapattinam	-do-

9.	Dr.S.A.Shanmugam, Controller of Examinations TNFU, Nagapattinam	1	-do-
10.	Dr.K.Rathnakumar Registrar		Member-Secretary

Class II - Other Members:

	Dr.A.Srinivasan Chair School of Fisheries Resources and Environment Management ECRAL Thoutbulkedi	Member
	FC&RI, Thoothukudi Dr.K.Riji John Chair School of Aquaculture FC&RI, Thoothukudi	-do-
3.	Dr.G.Jeyasekaran Professor and Head Department of Fish Quality Assurance and Management FC&RI, Thoothukudi	-do-
	Dr.B.Sundaramoorthy Professor and Head FC&RI, Thoothukudi	-do-
5.	Dr.T.V.Ramana, Dean, Faculty of Fisheries, Sri Venkateswara Veterinary University, Dr.Y.S.R.Bhavan, Tirupati Andhra Pradesh	-do-

The following items of the agenda were discussed and decisions taken:

A.5.2 ACTION TAKEN REPORT

AA.4.4.2 PERMISSION FOR IDENTIFYING AN ASSISTANT PROFESSOR
POST SANCTIONED IN THE DEPARTMENT OF FISH PATHOLOGY AND
HEALTH MANAGEMENT, FC&RI, THOOTHUKUDI FOR FISH PHARMACOLOGY
This proposal is treated as withdrawn.

Agenda No Agenda Item	
A5.4.1	TO CONSIDER THE RECOMMENDATIONS OF THE 16 th MEETING OF THE UNIVERSITY OFFICERS

The Academic Council accepted the recommendations of the 16th University Officers meeting held on 20.10.2016 to change the existing nomenclature of the Department of Fish Health Management at Fisheries College & Research Institute, Ponneri as "AQUATIC ANIMAL HEALTH MANAGEMENT" to fall in line with the ICAR guidelines.

A5.4.2 TO CONSIDER THE RECOMMENDATIONS OF THE III MEETING OF THE BOARD OF STUDIES, FACULTY OF FISHERIES SCIENCE

The Academic Council examined the recommendations of the 3rd Meeting of the Board of Studies Fisheries Science held on 08.07.2016 and the following decisions were taken

BOS Agenda No.	Decision		
03	Accepted the proposal inprinciple to the start the programme with the		
	following directions:		
	The Dean, FC&RI, Ponneri is requested to Co-ordinate the programme til		
	identifying suitable faculty to carry out this work. He is entrusted with		
	following work		
	1. Identify Authentic body from whom the recognition of the proposed		
	MBA (Fisheries Enterprises Management) to be obtained.		
	2. Evolving the mechanism of operation of the programme		
	Eligibility criteria for admission (BFSc and other graduates)		
	to commence the course.		
05	Approved with the following conditions.		
	 Payment of stipend shall be discontinued if the students are selected 		

to work in the externally funded project.

- ii. On completion of the project or if the candidate resigns from the project, he/she shall be reverted back to the existing stipend scheme and continue to draw the same.
- Of The recommendation to allot 40% seats in Post graduate studies to other State candidates (15% thro' TNFU entrance and 25% thro' ICAR) were not considered.

However it was decided to follow the existing system of seat allocation i.e., 25% seats to ICAR with a provision, that the vacancy arising out of 25% seats due to non-availability of candidates with ICAR, shall be filled with other State candidates through TNFU entrance exam.

- The proposed seminars were approved by the council. These seminars shall be conducted on a convenient date and venue within the School with the following caption
 - a) Non credit Seminar I (Pre Research Seminar)
 - b) Non credit Seminar II (Pre-submission of thesis seminar)
- 17 Approved
- 19 Approved
- 20 Accepted to follow the revised syllabus for BFSc students from 2016-17 academic year onwards as per the ICAR V Dean's committee recommendations.

Other recommendations of the V Dean's Committee were also, approved for adoption. In case, any change is requested in the Deans Committee recommendations the same may be proposed

- 21 Approved the re-organization of the departments at FC&RI, Ponneri as given below:-
 - 1. Department of Aquaculture
 - Department of Aquatic Animal Health Management
 - Department of Fisheries Resource Management
 - 4. Department of Aquatic Environment Management
 - Department of Fish Processing Technology
 - 6. Department of Fish Engineering
 - Department of Fisheries Extension, Economics and Statistics (As per the ICAR Syllabus)

A5.4.3 TO CONSIDER THE RECOMMENDATIONS OF THE ICAR V DEANS COMMITTEE ON THE IMPLEMENTATION OF "READY" PROGRAMME TO THE UNDER GRADUATE DEGREE PROGRAMME.

The proposal has been accepted by the Academic Council

A5.4.4 TO CONSIDER THE PROPOSAL ON THE INTRODUCTON OF INTELLECTUAL PROPERTY RIGHT (IPR) AS ELECTIVE SUBJECT IN

	UG/PG DEGREE PROGRAMMES.	
inclusion	demic Council directed the Dean, Faculty of Fisheries Science to prepare syllabus for under a suitable course, as course content and not as a separate course ced in the next meeting for approval.	
A5.4.5	TO CONSIDER THE INSTITUTION OF "DR.T.M.SAMOCHA AQUA BIO-TECHNOLOGY AWARD"	
The Ad Manageme	cademic Council accepted the proposal and recommended to the Board of nt with suggestion to form a committee to frame the rules for the award	
A5.4.6	TO CONSIDER THE REVISION OF TRAINING SYLLABUS AT FISHERIES STAFF TRAINING INSTITUTE, CHENNAI	
The Aca (of Fisherie	ademic Council directed to re draft the syllabus in consultation with the Department (s) Officials and submitted in the next meeting for approval.	
A5.4.7	TO CONSIDER THE INCLUSION OF ELP / IPT CREDIT LOADS FOR THE CALCULATION OF OGPA.	
Th	is proposal has been approved by the Academic Council	
A5.4.8	TO CONSIDER THE RENAMING OF THE MERIT SCHOLARSHIP AS THE STIPEND WITH REVISED GUIDE LINES	
	oted by the Academic Council for adoption as recommended by the University eting held on 20.10.2016.	
A5.4.9	TO CONSIDER THE CHANGE OF NOMENCLATURE OF THE DEPARTMENT OF FISHERIES ENVIRONMENT AS "DEPARTMENT OF AQUATIC ENVIRONMENT MANAGEMENT"	
The Acade	emic Council accepted the above proposal on the change of nomenclature.	
A5.4.10	TO CONSIDER THE PROPOSAL OF ESTABLISHMENT OF POLYTECHNIC TO OFFER CERTIFICATE COURSES	
The Acad	demic Council deferred the establishment of polytechnic since no time available to	

/With the approval of the Vice-chancellor and Chairman, AC/

discuss in detail. However, the council accorded approval to offer certificate courses only.

Registrar and Secretary, AC

To

All the members

CC: PA to VC, TNFU, Nagapattinam

1801701

Annexure for the Parameter B1

S. No.	Total number of research	Total number of		of
	articles having NAAS rating of over6.0 published in 2018	faculty	research per facul	
1.	14	96	per racui 0.1	
	the research articles*	, ,		• •
S. No.	Details of publication			NAAS
				Rating
1.	Elango, J., Sanchez, C., Val, J.E Motaung, K.S.C.M., Guo, R., Wang, and Bao, B., 2018. Cross-talk betw marrow macrophages for oste treatment. Scientific Reports, 8:5318	C., Robinson, J., Regen een primary osteocytes eoclastogenesis upon	stein, J.M.	10.12
2.	Wilwet, L., Jeyasekaran, G., Sh. Padmavathy, P., 2018. A single enz 16S rRNA/tRNAval region to authenshimp species in India. Food Chemi	akila, R.J., Sivaraman cyme PCR-RFLP protoco ticate four commercially	I targeting	10.05
3.	Kumar V.S., Pandey, P.K., Anand, T. Dhinakaran, A. and Kumar, S., 2018 quality and growth parameters of Pe	Kumar V.S., Pandey, P.K., Anand, T., Bhuvaneswari, G.R., Dhinakaran, A. and Kumar, S., 2018. Biofloc improves water, effluent quality and growth parameters of Penaeus vannamei in an intensive culture system. Journal of Environment Management, 215:206-215.		
4.	Arisekar, U., Shakila, R.J., Jeyasekaran, G., Shalini, R., Kumar, P., Malini, A.H. and Rani, V., 2018. Accumulation of organochlorine pesticide residues in fish, water, and sediments in the Thamirabarani river system of southern Peninsular India. Environmental Nanotechnology, Monitoring & Management, Doi.org/10.1016/j.enmm.2018.11.003			
5.	Sivaraman, B., Jeyasekaran, G., Shakila, R.J., Alamelu, V., Wilwet, L., Aanand, S. and Sukumar, D., 2018. PCR-RFLP for authentication of different species of processed snappers using mitochondrial D-loop region by single enzyme. Food control, 90:58-65.		9.50	
6.	Surya, T., Jeyasekaran, G., Shakila, R.J., Asha Hema Malini, N., Palanikumar, M. and Alamelu, V., 2018. Formation of biogenic amines in delayed salt-cured whole and gutted Indian Oil Sardines (Sardinella			8.32
7.	longiceps). Journal of Aquatic Food Product Technology, 27:394-404. Ramesh, R., Shakila, R.J., Sivaraman, B., Ganesan, P. and Velayutham, P., 2018. Optimization of the gelatinization conditions to improve the expansion and crispiness of fish crackers using RSM. LWT Food Science and Technology, 89:248-254.			7.80
8.	Selvaganapathi, R., Jeyasekaran, Kumar, M.P. and Sivaraman, B. monocytogenes on the seafood con India. Journal of Food Science and T	, 2018. Occurrence of tact surfaces of Tuticori	of Listeria n Coast of	7.50
9.	Tanveer, M., Moulick, S., Mukherjee, of goldfish (Carassius auratus Linn.) Aquaculture Research, 49:2945-2953	recirculating aquacultur	-	7.46
10.	Masilan, K., Neethiselvan, N., Velayudham, P., Jeya Shakila, R. 2018. Development of dry artificial bait for trap fishing using tuna red meat and shrimp head wastes. Journal of Aquatic Food Product Technology, 27:1009-1022.			6.48
11.	Karuppasamy, K., S. David Kingston, Kathirvelpandian, S. Anand. 2018. N gurnard, Dactylo ptenapeterseni (Sc	New record of the starry	, ,	6.37

	from wadge Bank, Southwest coast of India. Natl. Acad. Sci. Lett. Published online https://doi.org/10.1007/s40009-018-0726-y.	
12.	Prabu, E., Rajagopalsamy, C.B.T., Ahilan, B., Jeevagan, J.M.A. and Renuhadevi, M., 2018. Effect of dietary supplementation of biofloc meal on growth and survival of GIFT Tilapia. Indian Journal of Fisheries, 65:65-70.	6.28
13.	Daniel, N., Pavankumar A., Kirubasankar, Praveenraj, A., Kathirvelpandian, A., Dam Roy, S. and Chaudhary, A., 2018. First record of whitebarred goby Ambly gobiusphalaena (Valenciennes, 1837) from Indian waters. Indian Journal of Fisheries, 65: 116-121.	6.28
14.	Karthickumar, P., Sinija, V.R., Alagusundaram, K. and Yadav, B.K., 2018. Development of a sorting system for fruits and vegetables based on acoustic resonance technique. Agricultural Mechanization in Asia, Africa and Latin America, 49:22-27.	6.12

Annexure for the Parameter B2

SI. No.	Number of faculty members having h-index as 10 or more	Total number of faculty	Percentage of faculty with h- index as 10
1.	5 96		5.2
List of fa	culty members having h-index as	10 or more	
SI. No.	Name of the faculty		h-index
1.	Dr. G. Jeyasekaran	21	
2.	Dr. R. Jeya Shakila		20
3.	3. Dr. D. Kesavan		16
4.	Dr. K. Riji John	12	
5.	Dr. M. Rosalind George	11	

Annexure for the Parameter B3(i)

S. No.	Number of faculty members having Patent	Details of the Patent	No. of Patent
1.	Dr. A. Uma	Development of primers for detection of Heptopancreatic Parvovirus (HPV) in shrimp by polymerize chain Reaction	300445

Proof for development and adoption of technology



PROCEEDINGS OF THE REGISTRAR TAMIL NADU Dr. J. JAYALALITHAA FISHERIES UNIVERSITY Nagapattinam - 611 001 PRESENT: Dr. A. SRINIVASAN, Ph.D., REGISTRAR i/c.,

U.S.O. No.269-A/R3/TNJFU/Estt./2018 RC.No.891-A/R3/TNJFU/Estt./2018 Dated: 08.03.2018

Sub: TNJFU – Estt – Technology developed by the various units of TNJFU – released - orders - issued.

The following orders are issued with the approval of the Vice-Chancellor, Tamil Nadu Dr. J. Jayalalithaa Fisheries University, Nagapattinam.

ORDER:

It is hereby ordered that the following technologies developed in the various units of Tamil Nadu Dr. J. Jayalalithaa Fisheries University, Nagapattinam were approved and released for adoption by the farmers / entrepreneurs.

S. No.	Name of the Technology	Name &College/Research Center	
1.	Biofloc based shrimp nursery system	Dr. S. Felix Dr. A. Gopalakannan Ms. M. Menaga Dr. MGR FC&RI, Ponneri	
2.	Biofloc based shrimp farming system	Dr. S. Felix Dr. A. Gopalakannan Ms. M. Menaga Dr. MGR FC&RI, Ponneri	
3.	Farm raised prawn pickle	Dr. K. Rathnakumar Dr. N. Manimehalai Dr. P. Karthickumar College of Fisheries Engineering, Nagapattinam.	
4.	Fish curry in retort pouches	Dr. N. Manimehalai Dr. K. Rathnakumar Dr. P. Karthickumar College of Fisheries Engineering, Nagapattinam.	
5,	Fish noodles from low cost fish	Dr. K. Rathnakumar Dr. N. Manimehalai Dr. P. Karthickumar College of Fisheries Engineering, Nagapattinam.	
6.	Clown fish breeding technology	Dr. J. Stephen Sampathkumar Mandapam Centre for Sustainable Aquaculture	
7.	Low cost Tilapia farming in ponds	Dr. J. Stephen Sampathkumar Dr. P. Chidambaram Barur Centre for Sustainable Aquaculture	
8.	GIFT Tilapia grow out feed	Dr. N. Felix Directorate of Incubation and vocational Training, Muttukadu, Chennai	
9.	Crab meat in brine in retort pouches	Dr. S. Balasundari Mrs. NimishMol Stephen Dr. MGR FC&RI, Ponneri	

10.	Extruded snack fortified with marine proteins	Dr. S. Balasundari Dr. N. Muralidharan Dr. MGR FC&RI, Ponneri
11.	Loach breeding technique	Dr. K. Ravaneswaran Dr. J. Stephen Sampath Kumar Kanyakumari Parakkai Centre for Sustainable Aguaculture

All the respective Directorates of the University are directed to take necessary action to disseminate the technologies to the fisher folk / farmers / entrepreneurs etc.,

REGISTRAR I/c.,

To:

The above Individuals - through proper channel.

CC: The Director of Extension Education, TNJFU, Nagapattinam

The Dean, CoFE, TNJFU Nagapattinam

The Director, DSA, TNJFU, Thanjavur.

The Dean i/c., Dr. M.G.R. FCRI, TNJFU, Ponneri.

The Director, DIVA, TNJFU, Muttukadu.

PA to VC, TNJFU, Nagapattinam

Stock file / Spare

Name of the technology	Fish noodles from	Fish noodles from low cost fish	
Technology developed by	Dr. K. Rathnakumar	Dr. K. Rathnakumar	
	Dr. N. Manimehalai		
	Dr. P. Karthickumar	Dr. P. Karthickumar	
	College of Fisheries	Engineering, Nagapattinam.	
Technology adopted by	Agaya Thamarai Self	Agaya Thamarai Self- Help Group. 149, Aariya natu vadaku theru, Pattinachery, Nagore.	
	149, Aariya natu vac		
	Nagore.		
	S. Kumaravali	9585023479	
	S. Shaliny	9843789414	
	A. Mari	8489768205	
	Manager 1		







Name of the technology	Fish curry in retort pouches	
Technology developed by	Dr. N. Manimehalai	
	Dr. K. Rathnakumar	
	Dr. P. Karthickumar	
	College of Fisheries Engineering, Nagapattinam.	
Technology adopted by	Sembara Self Help Group Akkaraipettai, Nagapattinam	
	P. Jothi	9943850759
	R. Sasikala	9042831249
	S. Bakiyalakhshmi	8940976765





Name of the technology	Farm raised prawn pickle	
Technology developed by	Dr. K. Rathnakumar	
	Dr. N. Manimehalai	
	Dr. P. Karthickumar	
	College of Fisheries Engineering, Nagapattinam.	
Technology adopted by	Manikkam Self- Help Group.	
	Keechankuppam,	
	Nagapattinam	

N. Balasarasvathi	8883567842
R. Malarkodi	9659178072
S. Santhakumari	9787387726



Name of the technology	Low cost Tilapia farming in ponds	
Technology developed by	Dr. J. Stephen Sampathkumar	
	Dr. P. Chidambaram	
	Barur Centre for Sustainable Aquaculture	
Technology adopted by	R.Selvam	K. Venkatesh
, ,	S/o Rajamani	S/o Kathirvelan
	Kodalavalasai(Vill)	54 Nadupatti (Vill)
	Nadupatti	Uthangarai (TK)
	Uthangarai (TK)	Krishnagir (Dt
	Krishnagir (Dt)	
	S.Thanikasalam,	A. Chidambaram,
	S/o Selvaraj,	S/o.Adhimulam,
	Nadupatti (Vill) (Po)	65 Sakthi Koil Street,
	Uthangarai (TK)	Nadupatti (Vill) (Po)
	Krishnagir (Dt)	Krishnagir (Dt
	S.Settu	S. Ponnusamy,
	S/o Shanmugam,	S/o Selvaraj,
	153A Kodalavalasai,	P –Nadupatti,
	Nadupatti (Vill)	Nadupatti (Po)
	Uthangarai (TK)	Uthangarai (TK)
	Krishnagir (Dt)	Krishnagir (Dt)





Name of the technology	Clown fish breeding te	Clown fish breeding technology	
Technology developed by	Dr. J. Stephen Sampathku	Dr. J. Stephen Sampathkumar	
	Mandapam Centre for Sus	tainable Aquaculture	
Technology adopted by	Mr.K.Senthoor Ganesh	Mr.Gladwin,	
	S/o Kasimalai daesigan,	MAV Breeders,	
	3-1873, Akkalmadam,	Mandapam,	
	Pamban	Ramanathapuram Dt.	

	Ramanathapuram Dt.	
	1	
Name of the technology	GIFT Tilapia grow out feed	
Technology developed by	Dr. N. Felix Directorate of Incubation and vocational Training, Muttukadu, Chennai	
Technology adopted by	Mr.R.Monish Kumar M/s.Monish Aquatics Palur,Chengalpattu Kancheepuram Dt.	Mr.V.G.Eraniappan M/s Periyar Integrated fish farm 1/574, GST Road Vandalur, Chennai-48
Name of the technology	Crab meat in brine in retort pouch	
Technology developed by	Dr. S. Balasundari Mrs. Nimish Mol Stephen Dr. MGR FC&RI, Ponneri	
Technology adopted by	R. Joel Vasanth Kumar, Proprietor of Zion Marine, No, 30/4 postal audit colony, Gandhi street, Saligramam, Chennai – 600 093, Tamil Nadu.	
Name of the technology	Extruded snack fortified with marine protein	
Technology developed by	Dr. S. Balasundari Dr. N. Muralidharan Dr. MGR FC&RI, Ponneri	
Technology adopted by	M/S. Blue Lagoon, Naduvur Matha Kuppam, Pulicat, Tiruvallur District, Tamil Nadu	Sri Vari Agency, 192/2, Om Sai township, Vellodai, Ponneri – 601 204, Tiruvallur district, Tamil Nadu



TAMIL NADU Dr.J.JAYALALITHAA FISHERIES UNIVERSITY

S.Thirugnanasambandam, B.Com., A.C.A., Finance Officer,

Office of the Finance Officer TNJFU, Nogopatrinam - 611 002

Lr.656/F2/TN0FU/2019

Dated:08.06.2019.

Template for the Parameter C5

SI. No.	Revenue Generated	2018-19
1	Consultancies	0
7	Certification	8600
3	Testing	800825
4	Tuition fee	15429321
5	LicensIng	0
6	Training	123760
7	Sale of inputs	523515
8	Commercialization of technologies	48000
9	Any other (including Institutional Bank Interest, Sale of application, NRI students Institutioal Economic Fee)	8426862
	TOTAL	25360883

Finance Officer TNJFU, Nagapattinam

Total revenue generated

= Rs.2,53,60,883/-

Total budget of the University

= Rs.37,69,30,000/-

excluding non-recurring and civil work

% of revenue generated

= 6.73%

Annexure for C6 Number of inter-institutional collaborative projects obtained during 2018

S. No.	Name of the inter-institutional collaborative projects	Name of the institute
1.	DBT project on "Healthy shrimp and GIF Tilapia production through bio-floc based farming system: Development of technology and standard operating procedures" (No.BT/PR/11721/AAQ/3/683/2014, dated 29.12.2015)	Central Institute of Brackishwater Aquaculture
2.	DBT project on "Bio-prospecting for anti-osteoporetic collagen peptides derived from fish bones" (No.BT/PR15748/AAQ/3/803/2016, dated 01.08.2017)	University of Hyderabad

No. GT/PR11721/AAQ/3/683/2014
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BLOTECHNOLOGY

Bjock 2, 6-8th Floors CGO Complex, Lodhi Road, New Dalkii 110 003 Dafed: 29.12.2015

DRDER

Sain Lion of the President is hereby accorded, under Rulé 18 of the Delegation of Ripandial Powers Rules ,1978, for the implementation of the project entitled: "HEALTHY SHRIMP AND GIFT" TILAPIA PRODUCTION THROUGH BIO-FLOC BASED FARMING SYSTEM: DEVELOPMENT OF TECHNOLOGY AND STANDARD OPERATING PROCEDURE! for a period of 3 Year 0 Month at a total cost of Rs. 12181025 (Rupees One Crores Twenty-One Lakhs Cighty One Thousand and Twenty Five Only) on the terms and conditions netalled here under:

2 The Project :

2.1 Title !

HEALTHY SHRIMP AND 'GIFT' TILAPIA PRODUCTION THROUGH BIO-FLOC BASED FARMING SYSTEM DEVELOPMENT OF TECHNOLOGY AND STANDARD OPERATING PROCEDURE

2.2 Details of the Investigations:

Project Cordinator

Dr. Akshoya Panigrahi

Principal Scientist
Crustacean Culture Division
Central Institute of Brackishwater Aquaculture
75, Senthome High Road, RA Puram Channal Tamil Nadu., Tamilnadu
Chennal , 044 24617523 , 9025739499, , Tamilnadu, 600028

Principal Investigators:

Dr. Akshaya Panigrahi

Principal Scientist.
Crustacean Culture Division
Central Institute of Brackishwater
Aquaculture
75, Santhome High Road, RA Purant
Chennol Tamil Nadu , Tamilnadu ,
Chennol , 044 24617523 ,
9025739499 , Tamilnadu , 600028

Dr. Felix S

Director I/o
Institute of Fisheries Technology
Tamilnadu Fisheries University
Institute of Fisheries Technology,
Tamilnadu Fisheries University,

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Hruvallur, Tamibiaclu, 601204

CO-PI:

Dr. Kumai aguru vasagami KiP

Senior Scientist
Genetic and Biotechnology Division
Central Institute of Brackishwater Aquacultura
#75 Santhome High Road, RA Puram.
Santhome, Chennal, Chennal - 800078.

Dr. Shashi Shekhari M Principal Scientist NGBD Central Institute of Brankishwater Aquaciliture Central Institute of Brackishwater Aquaculture; #75 Santhome High Road, RA Purami, Channal, Chenital - 600028, Tarilliradu

Dr. Nila Rekhā 'P' Dr. Nila Rekha P Principal Scientist Crustagean Culture Division Central Institute of Brackishwater Aquaculture Central Institute of Brackishwater Aquaculture
#75 Santhome: High Road, RA Puram.
Santhome: Chennal, Chennal - 600028,
Taminadu

Dr. Gopalakannan A
Assistant Professor
Tamil Nadu Fisheries University
Tamilnadu Fisheries University
Tamilnadu Fisheries University
Tamilnadu Fisheries University

Iamilnadu Fisheries University
I Iastitute of Fisheries Technology
Tamil Nodu Fisheries University
Powers - 601 704 Pomseri - 601 704 Thirpvallun

District, Tamil Nadu, Tiruvallur - 602001; 512

Dr. Antony Cheryl Associate Professor Associate Professor Institute of Fisheries Technology Tamilhadu Fisherics University

Generated through eProMIS

Page No. [2 / 9]

No. BT/PR15748/AAQ/3/803/2016 GOVERNMENT OF INDIA HUNESTEY OF SCIENCE & FECHNOLOGY DEPARTMENT OF MOTECHNOLOGY

Block 2, 6-8th Floors CGO Complex, Lodhi Road, New Delhi- 110 003 Datest: 01.06.2017

ORDER

Senction of the President is hereby accorded, under Aule 16 of the Delegation of Pinancial Powers Rules , 1978; for the implementation of the project entitled; "Bio-prospecting for anti-osteoperotic collagen peptides derived from fish bones" for a penied of 3 Year O Honth et a total cost of Rr. Spanase (Rupees mity Nive Laichs Fourty Eight Thousand Eight Hundred and Fifty Only) on the terms and conditions detailed here under -

2 The Project :

- 2.1 Tiefe : "Bio-prospecting for anti-asteoporotic collegen poptides derived from fish
- 2.2 Details of the Investigations:

Project Continutor

Dr. Jeyashakila Robinson Fish Quality Assurance and Management Taminadu Fisheries University Fisheries College and Rasearch Institute, Thoothukudi, Tamilradu, 628008

Principal Investigatura:

Prof. Jayashakila Robinson ProAguagar Fish Quality Assurance and Management Temliyadu Pahenes University Fisheries College and Research Institute, Thoothukudi, Tamiinadu. 928008

Prof. Balavubramanian Santhilkumaran Profession **Animal Biology** University of Hydershed Department of Animal Isology School of Life Sciences Centre for Advanced Studies University of Hyderabad, P.C. Central University Gachibusti, Telengare, Hyderstad. Hyderatiad, Telengare, 500046

CO-PI:

ris. Alamelu V Assistant Professor
Fish Quality Assurance and Management
Tambadu Fisheries University
Fisheries College and Research Institute
Tamit Nedu Fisheries University, Harbour
Byeffass Road, Thoothukudi, Thoothukudi
628005, Yamiinadu

Prof. Jeyasekaran Geevaretinam Professor and Head Fish Quality Assurance and Hanagement Tamilhadu Fisheries University
Fisheries College and Research Institute
Tamil Nedu Fisheries University, Harbour
ByePass Road, Thosthukudi, Thoothukudi
628008, Tamilhadu

Dr. Kallyamurthi V Assistant Professor Basic Sciences Tamilhadu Fisheries University Fisheries College and Research Institute Tamil Nadu Fisheries University, Harbour ByePass Roed, Thouthukudi, Thouthukudi -828008, Tamilnadu

2.3 Objectives:

Institute wise Objectives:

Tumilinado Plaheries University

- Extraction and characterization of colleger peptides derived from fish bone through enzymatic hydrolysis
- Study on the effect of bone collegen peptides on post translational modifications and bone mineralization in detendiantic cell culture system 2
- Preparation of dietary supplements using bone collagen peptides and their characterization. University of Hyderahad

- To study the anti-osteoporotic activities of fish bone collegen peptides in esteoblastic L coll lines/ animal model system.

 To systems the fish bone colleges peptide dietary supplements for cytotoxocky.

Page No. 22 / 95

Annexure for C7 Partnership with Private Sector made during 2018

S. No.	Name of the Private sector	
1.	M/s. SERIBU Bio Systems SDN. BHD., Malaysia	
2.	M/s. King Aquatic, Chennai	
3.	M/s. Jayashri Hatchery, Chennai	
4.	M/s. Certitude farm, Vettaikaraniruppu, Nagapattinam district	
5.	M/s. CPF India Private Ltd., Chennai	
6.	M/s. AlgaIR Nutra Pharms Pvt. Ltd., Thanjavur	

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding is made this 14th day of March 2018.

Between:

TAMIL NADU DR. J. JAYALALITHAA FISHERIES UNIVERSITY, First Line Beach Road, Nagapattinam-611 011, Tamil Nadu, India (hereinafter referred to as TNJFU)

And

SERIBU BIO SYSTEMS SDN BHD Co. No. 16819-K incorporated in Malaysia with business address at 6A Office Suites, Scott Sentral Service Suites Jalan Scott off, Jalan Tun Samhenthan, Sentral Brickfields, 50470 Kuela Lumpur. It was formed in 1973 as a technology based Construction Company. It is owned and managed by Dr. Chandra L. Remprakash (Malaysian IC 680507106333 & hereinafter referred to as CLR), is a businessman operating a conglomerate of business activities ranging from Construction, Real Estate Development to I Iorticulture and Aquaculture in Malaysia.

WHEREAS TNJFU is a highly respected university in Tamil Nadu, India and is ranked Number one among the Fisheries Universities in India. The University was set up in 2012 as per TNFU Act 12/2012 of Govt. of Tamil Nadu, India. TNJFU is involved in studies in different disciplines of fisheries and an institution of higher learning, which has been mandated to provide high quality training and education in the fields of fisheries. TNJFU offers B.F.Sc, B.E (Fisheries Engineering), and B.Tech (Biotechnology) at Undergraduate level, M.F.Sc in the disciplines of Aquaculture, Fisheries Resource Management, Fish Processing Technology, Fish Quality Assurance and Management, Fisheries Engineering and Technology, Aquatic Environment Management, Fish Biotechnology, Aquatic Animal Health, Fish Pharmacology & Loxicology, Fish Genetics & Breeding, Fisheries Extension, and Lisheries Economics at Postgraduate level and Ph.D. in the disciplines of Aquaculture, Fisheries Resource Management, Fish Processing Technology, Fish Quality Assurance and Management, Aquatic Environment Management, Aq

www.trifu.ac.in). Besides teaching, the TNJFU has been involved in carrying out research activities in different fields of fisheries as well as in imparting skill developmental training programs for the fisherfolk, fish farmers, and fish entrepreneurs.

WHEREAS SERIBU BIO SYSTEMS SON BHD is a reputed construction company with specialist expertise in Sports Facility Construction and has the capacity and resources to undertake CMI. Structural, Mechanical and Electrical works. The Company's main focus is now in technical innovations.

WHEREAS by a letter dated 6th February 2018, TNJFU has nominated CLR as an Adjunct Faculty (Scientist) Member for one year term and has offered CLR to associate with the Teaching Faculty of TNJFU.

WHEREAS CLR has the technology and the technical acumen to design and build stand-alone RAS and is offering SERIBU BIO SYSTEMS SDN BHD (hereinafter referred to as SBS) as his vehicle to undertake and implement his propositions under the MoU.

THE SPIRIT OF THE MOU

Both parties are desirous of entering into this Memorandum with great goodwill to propel TNJFU into a transformational trajectory.

This Memorandum of Understanding has the express intention of forging a relationship of cooperation between TNJFU and CLR and SBS where all parties shall mutually benefit from the synergies thus generated.

TERMS

1. Both parties shall collaborate so as to enhance the basic curriculum of TNJFU to include content, covering technology and technical knowledge related to Fisheries particularly aquaculture with a vision to produce graduates with not just the expertise in the bio-acientific knowledge in fisheries but also with the holistic knowledge and ability to design / innovate and manage the technical aspects of

tarming with a keen sense of farm economics and the hands-on ability to solve technical problems as they arise in farm operations.

- TNJFU shall appoint SBS as the agent of CLR to provide consultancy services to craft out course modules in respect of item 1 above.
- SBS shall provide technology transfer of variety of innovations which would serve enhance aquaculture productivity, to TNJFU.
- 4. SBS shall impart key technical knowledge from disciplines such as Civit, Structural, Mechanical and Electrical, which shall be structured to meet the requirements of Aquaculture farming.
- SBS shall offer adjunct courses on precision engineering, metal fabrication, machine repair, etc.
- 6. SBS shall offer opportunities to Interested students to pursue practical training via attachment programs at CLR's aquaculture farms in Myanmar. While the training costs shall be subsidized by SBS, the students shall bear costs such as flight travel. SBS shall provide accommodation and meals at the farm sites for the trainees. SBS shall consider in providing minimum working allowance to the trainees on ment basis.
- TNJFU for its part recognize the training Certificates by SBS and shall offer participating students academic credits as a benefit to attract students.
- CLR shall personally conduct ad-hoc hands-on courses to impart his specialist technical knowledge and inculcate an innovative spirit into TNJFU's students.
- TNJFU shall offer its facilities such as labs & other research resources, tree of charge to CLR, SBS and students to undertake research, to experiment and fabricate as would be necessary.
- 10.TNJFU shall offer accitional facilities for CLR, SBS and students, such as fabrication yards, testing & commissioning.

- 11.TNJFU, SBS and CLR shall collaborate to undertake research to develop innovations in aquaculture and or related fields for mutual benefit and to jointly patent any innovations which would be patentable.
- 12.TNJFU, SBS and CLR shall jointly engage in commercial opportunities created by their collaboration and innovations and shall share equitably in the financial benefits therefrom.
- 13.TNJFU, SBS and CLR shall engage in Promotions, Advertisements, Expos, Trade Events, etc. in order to promote awareness and market the innovations.

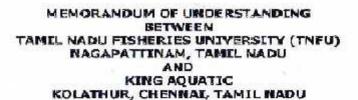
This Memorandum of Understanding is entered into in the spirit of mutual trust and cooperation among all parties.

IN WITNESS WHEREOF the Parties hereto have entered into this Memorandum of Understanding the day and year first above written.

SIGNED BY:

For and on behalf of TAMIL NADU DR. J. JAYALALITHAA FISHERIES UNIVERSITY, INDIA

For and on behalf of SERIBU BIO SYSTEMS SON BHD, MALAYSIA)





Date: 05.01.2018

The Memorandum of Understanding (MoU) between TAMIL NADU FISHERIES UNIVERSITY (TNFU), Nagapattinam, Tamil Nadu, India (herein after referred as the "University") and KING AQUATIC, Kolathur, Chennai, Tamil Nadu, India (herein after referred to as "Lessee") is intended to facilitate from this day 05.01.2018 in "Providing fish cage culture facility(15 cages) at Kolavai lake on lease basis for one year to culture freshwater ornamental fishes".

Scope of the MoU

The cage fish culture unit established at Kancheepuram Chengalpattu Aquaculture Technology Training and Incubation Centre (herein after referred as "KC ATTIC") under the administrative and technical control of Director, Directorate of Aquaculture Technology Training and Incubation, ECR, Muttukadu, Kancheepuram dt. is the subject of this MoU and this MoU is limited with that only. The MoU will be facilitated and monitored by the University by its authorized officers periodically. Similarly the work part of the MoU shall be taken care by the "LESSEE" Independently.

The MOU envisages the following:

- Out of 32 fish cages of 4x4 m size available in Kolavai lake, 15 cages are given on lease basis for one year from the date of stocking of fishes. 15 cages include the HDPE floats, inner nets and outer net.
- The LESSEE is permitted to use the cage shed however without disturbing the activities carried out by the University.
- The floating platform shall be used to transport men and materials without disturbing the activities carried out by University.
- 4. The staff, students and trainees of University shall visit the cage facility and there shall be free access to them from the LESSEE.

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8 oth parties agree as follows:

- The above components shall be implemented under intimation to their respective controlling officers and getting their approval in writing.
- This MCU shall be continuing in the effect for a period of 1 (one) year since the date of stocking of fishes in the cages and may be extended by mutual agreement.
- 3. The lease amount for one cage is Rs.3000/-per year and the total amount is Rs.45,000/- for 15 cages for one year. The lease amount shall be paid in two installments equally and the first installment of Rs.22,500/- shall be paid before start of fish culture activity and the balance amount of Rs.22,500/- shall be paid by the end of 6 months period of lease period.
- The LESSEE shall maintain/monitor the above said facilities for fish culture purpose only and the running cost could be managed by the LESSEE.
- The LESSEE shall cause no damage to the facilities created or to be created and on handing over the facilities back to the University any such damage shall be liable to be compensated suitably.
- 6. The LESSEE shall not make any additions/alterations to the cages allotted for fish
- The LESSEE should not share the facilities with other institutions or private parties in a different memorandum of understanding or through sub-lease.
- 8. The maintenance charges if any to the cages to be borne by the University.
- The University reserves the right to implement any other programmes in the same premises or nearer to the facility.
- 10. After completion of lease period, the facilities shall be handed over to the University, if there has been no further agreement between both the parties.
- 11. Both the parties are entitled to terminate the lease by giving 3(three) months notice in writing to the other in advance.
- 12. All specific projects to which this MOU may lead shall be evaluated on a regular basis by the designated authorities of both the parties. For conditions of the linkage and terms of the agreement not covered by this MOU or for any issues arising while the project is in operation, both the parties agree to refrain from unitateral action and resort to problem solving mission through negotiations and talks.

Agreed by

V.Thilagavathy Proprietor

King Aquatic

Kolathur, Chennai, Tamil Nadu, India

Date: 05 01 2018.

Director of Research
Authorized Signatur Nadu Fisheries University
Tamil Nadu Fisheries Fig. In Beach Road.
Nagapattinam, Tamil Nadu, India

Date:

Witnessed by

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MEMORANDUM OF UNDERSTANDINGBETWEEN
TAMIL NADU Dr. J. JAYALALITHAA FISHERIES UNIVERSITY (TNJFU),
NAGAPATTINAM, TAMIL NADU
AND
M/S. JAYASHRI HATHCERY, CHENNAI

The Memorandum of Understanding (MoU) between TAMIL NADU Dr. J. JAYALALITHAA FISHERIES UNIVERSITY (TNJFU), Nagapattinam, Tamil Nadu, India (herein after referred as the "University") and M/S. JAYASHRI HATCHERY, CHENNAI, Tamil Nadu, India (herein after referred to as "Collaborator") is intended to facilitate from 01.04.2018 in operating the "Shrimp Rearing facility" at Kanyakumari Ganapathipuram Centre for Sustainable Aquaculture (herein after referred to as "KKGCeSA"), Ganapathipuram, Kanyakumari 629 502. The linkage hereby formed shall further assisted in achieving mutual relationship between both the parties and furthering the adoption of technology and shrimp seed production.

JAVASHRI HATCHERY
Ne. 63/26, Gangsi Amman Koll Street,
CHOOLAIMEDU,
CHENNAI-600 094.

Director of Research
Tamii Nadu Fisheries University
I" Line Beach Road
Nagapattinam - 611 001

MEMORANDUM OF UNDERSTANDING

Between

Tamit Nadu Fisheries University, Nagapattinam

Certitude Farms, Nagapattinam

This Memorandum of Understanding (MOU) is between the Tamil Nadu Fisheries University, Nagapattinam – 611 001 and represented in this MOU by its Director of Research, hereinafter referred to as "TNFU", and the Certifude Farms, a proprietorship firm Company registered under the Registrar of Firms, Govt, of India at Vettaikaranirrupu, Nagapattinam 611 112 (hereinafter for brevities sake referred to as "CF" which expression shull include unless repugnant to the subject or context herein its successors and assigns)

WHEREAS, TNTU is a leading University, a centre for studies in many disciplines of fisheries and an institution of higher learning which has been mandated to provide high quality training and education in the fields of fisheries. TNFU offers B.F.Sc, B.E. (Fisheries Engineering) and B.Teeh (Biotechnology) at Undergraduate level, M.F.Sc in the disciplines of Aquaculture, Fisheries Resource Management, Fish Processing Technology, Fish Quality Assurance and Management, Fisheries Engineering and Technology, Aquatic Environment Management, Fish Biotechnology, Aquatic Animal Health, Fish Pharmacology, Fisheries Extension, and Fisheries Economics at Postgraduate level and Ph.D. in the disciplines of Aquaculture, Fisheries Resource Management, Fish Processing Technology, Fish Quality Assurance and Management, Aquatic Environment Management, Aquatic Animal Health, Fisheries Extension, and Fisheries Economics at doctoral level. The TNFU also offers Ph.D. programme in Life Sciences.

WHEREAS, CF, Vettaikaranirrupu, Nagapattinam, established in 1994 with total water spread area of 12 hectares, has been approved by the Coastal Aquaculture Authority of India. Chennai for the farming of *Penaeus monodon* and *Penaeus vunnumei*. It is owned by Shri, V. Balasubramaniam, MBA, General Secretary of Prawn Farmers Federation of India. The water for the farms is fed from Harishchandra river. The production capacity of the farm is 60 metric tons per year. In year 2007, Shri, Balasubramaniam played a major rule to bring together the Shrimp Farmers' Associations of all the nine Coastal States of India and formed a National Federation called the Prawn Farmers Federation of India. In the year 2008, he was nominated by MICEDA to the Board of the Food Safety and Standards Authority of India.

Government of India, as a farmer's representative and his term has been extended till 2016. In year 2013, the Central Institute of Brackishwater Aquaculture (CIBA), Government of India, appointed him as a Member in the Governing Council of its Business Development Unit. He was appointed to the World Aquaculture Society's Asia Pacific Chapter as a member in its Executive Advisory Council. Recently he was elected as an Executive Council member of the Society of Aquaculture Professionals, India, His farms have been adopting latest shrump culture technologies.

WHEREAS, the TNFU and CF have mutual interest in fostering collaboration and agree that there is a need to have MOU under which detailed work plans can be developed and implemented.

NOW THEREPORE, TNEU and CF inspired by their common objectives to further promote and accelerate research on aquaculture and; have entered into this MOU under the terms and condition set forth in the following articles:

NOW, THEREFORE, IT IS AGREED BY AND BETWEEN THE PARTIES HERETO AS FOLLOWS:

- CF shall provide training to the students of TNFII in different aspects of aquaculture activities in any of its farms by giving them local accommodation and hospitality, if needed, during the period of the training
- CIF shall provide its farms for conducting research by the staff and students of TNFII by giving them local accommodation and hospitality, if needed, during the period of the training
- CF shall provide the test / study details to TNFU along with sufficient quantity of samples to be tested at the facility of TNFU.
- TNFU on finalization of project details with CF shall conduct the trials as per the
 agreed protocol and procedure in the farms of CF.
- TNFU upon completion of trials shall provide to CF a complete and detailed test report along with raw data and of the study conducted by TNFU.
- 6. TNFU hereby agrees that testing / trial frequency may be increased or decreased depending on requirement of CV and testing / trial shall be conducted within the stipulated time frame as mutually agreed by both the parties in writing.

- 7. No amendment or variation of this Agreement shall be effective unless in writing and signed by a duly authorized representative of each of the Parties.
- 8. The Parties declare that they each have the right, power and authority and have taken. all action necessary to execute and deliver, and to exercise their rights and perform their obligations under this Agreement.
- 9. This Agreement and the documents referred to in it, constitute the entire Agreement and understanding of the Parties and supersede any previous Agreement hetween the Parties relating to the subject matter of this Agreement.
- 10 Any dispute or difference arising hereunder shall, unless the parties can arrive at an amicable settlement, be referred to a single arbitrator if the parties hereto agree upon one, otherwise to the joint arbitration of two arbitrators, one to be appointed by each of the parties hereto or any statutory modification or re-enactment thereof for the time being in force shall apply.

IN WITNESS WITEREOF the parties hereto have executed these presents the day, the month and the year first hereinabove written,

Signed by

For Tamil Nadu Fisheries University Nagapattinam

> Director of Research Tamil Nadu Fisheries University First Line Beach Road, Nagapattinam - 611 001.

Date:

Witnessed by

For Tamil Nadu Fisheries University

Nagapattinam

Date : 07 02/18

For Certitude Farms

Nagapattinam

Date: 07.02.2018

M. Jargero L. J For Certitude Farms Nagapattinam

Date: 07/02/18



MEMORANDUM OF UNDERSTANDING BETWEEN Tamil Nadu Dr. J. Jayalalithaa Fisheries University AND CPF (India) Private Limited

- 1. <u>Parties</u>: This Memorandum of Understanding (hereinafter referred to as "MOU") is made and entered into by and between the <u>Tamil Nadu Dr. J. Jayalalithaa Fisheries University</u>, whose address is Vettar River View Campus, Nagapattinam 611 002, Tamil Nadu, India, and the <u>CPF (India) Private Limited</u>, whose address is <u>Reg. Office</u>: F2, 1st Floor, No.40, 2nd Street, Spartan Nagar, Mogappair East, Chennai 600 037.
- 2. <u>Purpose</u>: The purpose of this MOU is to establish the terms and conditions under which both the parties unitedly function to train scientifically and technically the fishery professionals required for the industry as part of the "In-plant Training Curriculum" of the Tamil Nadu Dr. J. Javalalithaa Fisheries University.

The Tamil Nadu Dr. J. Jayalalithaa Fisheries University, being a premier institute in the country is providing the requisite scientific and technical personnel through its state of the art professional degree and education system. The fish and shrimp industry in India is registering an upward growth with dearth for skilled and technical personnel. Whereas CPF (India) Private Limited, an international organization with demonstrated capabilities and skill in aquaculture has contributed richly to the growth of fish and shrimp industry in the country. Considering the customization of manpower to suite the industry both the parties have come down to sign an MOU wherein the Tamil Nadu Dr. J. Jayalalithaa Fisheries University, will depute the final year undergraduate students to rigorous "In-plant training" as part of the curriculum at designated hatchery/farm facility of CPF (India) Private Limited, where in the experts at CPF (India) Private Limited impart the required training to mould them to suit the industry.

3. <u>Term of MOU</u>: This MOU is effective upon the day and date last signed and executed by the duly authorized representatives of the parties to this MOU and the governing bodies of the parties' respectively and shall remain in full force and effect for not longer than 04 years. This MOU may be terminated, without cause, by either party upon written notice.

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MEMORANDUM OF UNDERSTANDING

Between

Tamil Nadu Dr. J. Jayalalithaa Fisheries University, Nagapattinam And

AlgalR NutraPharms Pvt. Ltd., Thanjavur

This Memorandum of Understanding (MOU) is between Tamil Nadu Dr. J. Jayalalithaa Fisheries University, Nugaputtinam 611 002, represented by its Director of Research, hereinafter referred to as "TNJFU", and Algala NutraPharms Pvt. Ltd., registered under the Companies Act-2013, located at 8. No. 259/IQ1,IQ2, IR1 and IR2, Palayapatti-North, Thanjavur-613402, represented by its Managing Director (hereinafter for brevities sake referred to as "Algala" which expression shall include unless repugnant to the subject or context herein its successors and assigns).

WHEREAS, TNJFU is a leading University, a centre for studies in many disciplines of fisheries and an institution of higher learning which has been mandated to provide high quality training and education in the fields of fisheries. TNJFU offers B.F.Sc, B.Tech. (Pisheries Engineering), B.Tech. (Biotechnology) and B.Tech. (Food Technology) at Undergraduate level, M.F.Sc in 13 disciplines of Pisheries viz., Aquaculture, Fisheries Resource Management, Fish Processing Technology, Fish Quality Assurance and Management, Fisheries Engineering and Technology, Aquatic Univironment Management, Fish Biotechnology, Aquatic Animal Health, Fish Genetics & Breeding, Fish Pharmacology & Toxicology, Fish Nutrition & Feed Technology, Fisheries Extension, and Fisheries Economics at Postgraduate level and Ph.D. in 10 disciplines of Fisheries viz., Aquaculture, Fisheries Resource Management, Fish Processing Technology, Fish Quality Assurance and Management, Aquatic Environment Management, Aquatic Animal Health, Fish Biotechnology, Fisheries Engineering and Technology, Fisheries Extension, and Fisheries Economics at doctoral level. The TNJFU also offers Ph.D. degree programme in Life Sciences.

WHEREAS, AlgalR is engaged with manufacturing of omega-3 fatty acids from microalgae for human and animal nutrition. In addition to omega-3 fatty acids, AlgalR is also manufacturing feed supplements for promoting growth and resistance to disease in shrimp.

WHEREAS, the TNJFU and AlgalR have mutual interest in fostering collaboration and agree that there is a need to have MOU under which detailed work plans can be developed and implemented.

NOW THEREFORE, TNJFU and AlgalR inspired by their common objectives to further promote and accelerate research on aquaculture and; have entered into this MOU under the terms and condition set forth in the following articles:

NOW, THEREFORE, IT IS AGREED BY AND BETWEEN THE PARTIES HERETO AS FOLLOWS:

- AlgalR shall provide training to the students of TNJFU in different aspects of aquaculture activities in any of its farms by giving them local accommodation and hospitality, if needed, during the period of the training;
- AlgalR shall provide its factory facilities for conducting research by the staff and students of TNJFU by giving them local accommodation and hospitality, if needed, during the period of the training;
- AlgaIR shall provide the test / study details to TNJFU along with sufficient quantity
 of samples to be tested at the facility of TNJFU.
- TNJFU on finalization of project details with AlgalR shall conduct the trials as per the agreed protocol and procedure in the factory facilities of AlgalR.
- TNJFU upon completion of trials shall provide to AlgalR a complete and detailed test report along with raw data and of the study conducted by TNJFU.
- 6. TNJFU hereby agrees that testing / trial frequency may be increased or decreased depending on requirement of AlgalR and testing / trial shall be conducted within the stipulated time frame as mutually agreed by both the parties in writing.
- TNJFU and AlgaIR shall jointly engage in commercial opportunities (such as Patents, IPRs) created by their collaboration and innovations and shall share appropriately in the financial benefits therefrom.
- 8. This MOU is effective upon the day and date last signed and executed by the duly authorized representatives of the parties to this MOU and shall remain in full force and effect for not longer than five (5) years.

- 9. No amendment or variation of this Agreement shall be effective unless in writing and signed by a duly authorized representative of each of the Parties,
- 10. The Parties declare that they each have the right, power and authority and have taken all action necessary to execute and deliver, and to exercise their rights and perform their obligations under this Agreement.
- 11. This Agreement and the documents referred to in it, constitute the entire Agreement and understanding of the Parties and supersede any previous Agreement between the Parties relating to the subject matter of this Agreement.
- 12. Any dispute or difference arising hereunder shall, unless the parties can arrive at an amicable settlement, be referred to a single arbitrator if the parties hereto agree upon one, otherwise to the joint arbitration of two arbitrators, one to be appointed by each of the parties hereto or any statutory modification or re-enactment thereof for the time being in force shall apply.

IN WITNESS WHEREOF the parties hereto have executed these presents the day, the month and the year first hereinabove written.

Signed by

For Tamil Nadu Dr. J. Jayalalithan Fisherles For AlgalR NutraPharms Pvt. University, Nagapattinam

Ltd., Thanjavur

Date: 25.=9.2018

For Tumil Nadu Dr. J. Jayalalithaa Fisheries University, Nagapattinum

For AlgalR NutraPharms Pvt. Ltd., Thanjavur

Date: 25/7/118

Date: 25 9/2018

Adjunct Faculty Coming from Outside University



TAMIL NADU Dr. J. JAYALALTTHAA FISHERIES UNIVERSITY

Dr. A. SRINYVASAN, Ph.D., Registrar I/c.,

FIRST LINE BEACH ROAD, NAGAPATTINAM -- 611001 - INDIA

Tel : 04365 - 240088 Fax: : 04365 - 240097

Email ::regis<u>parpëtrifula</u>din Web ::www.tnfuladin

Lr.No.7026/S1/TNFU/2018 dt.05.06.2018

NOMINATION OF ADJUNCT FACULTY (Professor)

I wish to inform that the Vice-Chancellor, Tamil Nadu Fisheries University, Nagapattinam is pleased to offer the honorary position of an **Adjunct Faculty (Professor) Member** of this University to you for a period of one year from the date of your acceptance of this offer to have the pleasure of your associations with the teaching faculty for the development / improvement of the Teaching, Research and Extension in our University.

It is further our pleasure to notify your possible contributions as Adjunct Faculty (Professor) below:

 Associating with teaching and research of Undergraduate and Post graduate education in whatever way it is possible for you.

 Associating with the research that is underway in the research projects of this University.

c. Associating with a consultancy service of research or extension for the University.

d. Associating with any clinical activity / surveillance or any investigation work that is taken up by the University.

e. Associating with any other activities as identified by the University from time to time.

The Argundt Faculty (Professor) shall be provided with support facilities like network access, library access and other logistics whenever they visit the University / constituent units of the University as per the policy of the University and it will be as per the Rules and Regulations of the University. Simpler terms governing this honorary position are attached for your reference.

Kindly acknowledge the receipt of this communication as a token of acceptance along with your Bio-data for reference.

REGISTRAR /c.,

Encl.: as above.

To

'n

Dr. Siva K.P. Sivakumaran, 68, Anne Road Knox Field, Victoria — 3180, Australia

 Ali Dean's, TNFU – for kind information PA to VC, TNFU, Nagapattinam

Stock File / Spare

SAN WAR



TAMIL NADU Dr.J. JAYALALITHAA FISHERIES UNIVERSITY

Dr. A. SRINIVASAN, Ph.D., Rogistrar I/c.,

FIRST LINE BEACH ROAD. NAGAPATTINAM - 611001 - INDIA

> Te: Lex Weh

54365 - 24008B 04965 240087 rapistrar ptr fu.acJo. nt.as.uhnt.www.tr

Lr.No.7026/S1/TNFU/2018 dt.23.03.2018

NOMINATION OF ADJUNCT FACULTY (Scientist)

I wish to Inform that the Vice-Chancellor, Tamil Nadu Dr.J. Jayalalithas Fisheries University, Nagapattinam is pleased to offer the honorary position of an Adjunct Faculty (Scientist) Member of this University to you for a period of one year from the date of your acceptance of this offer to have the pleasure of your associations with the teaching faculty for the development / improvement of the Teaching, Research and Extension in our University.

It is further our pleasure to notify your possible contributions as Adjunct Paculty (Scientist) below:

- a. Associating with teaching and research of Undergraduate and Post graduate education in whatever way it is possible for you.
- b. Associating with the research that is underway in the research projects of this
- Associating with a consultancy service of research or extension for the University.
- d. Associating with any clinical activity / surveillance or any investigation work that is taken up by the University.
- e. Associating with any other activities as identified by the University from time to time.

The Adjunct Faculty (Scientist) shall be provided with support facilities like network access, library access and other logistics whenever they visit the University / constituent units of the University as per the policy of the University and it will be as per the Rules and Regulations of the University. Simpler terms governing this honorary position are attached for your reference.

Kindly acknowledge the receipt of this communication as a token of acceptance along with your Blo-data for reference.

Encl.; as above.

Dr.N. Sukumaran, M.Sc., Ph.D., Joint Director - Technical ABC Techno Labs India Private Limited, No.2, 2rd Street, Thangam Coldny Anna Nagar West, Chennal 600 040.

All Dean's, TNFU – for kind information PA to VC, TNJFU, Nagapattinam Stock File / Spare

REGISTRAR I/c.,

Annexure for C9

Enterprises / start-ups promoted by the University

S.No.	Name of the Enterprises / start-ups	Name of the Business
1	Shibin Exports, Chengalpattu	Spirulina-Farming and Marketing
2	S2P2 International, Kancheepuram	Spirulina-Farming and Marketing
3	Zion Marine, Chennai	Production and Marketing of fish and fishery Products
4	Raj Industries, Chennai	Production and Marketing of fish and fishery Products
5	David Rajasekaran, Ponneri, Thiruvallur District	Production and Marketing of fish and fishery Products

Annexure for C10

List of Students employed in Public/ Private/Banking Sectors

Total number of students passed out in 2018 = 72Total number of students employed = 9% of students employed = 12.5%

S.no.	Name of the student	Name of the company	
1.	Mangayarkarasi M		
2.	Sakthisaravanan N	The Waterbase Ltd., Nellore	
3.	Vanmathi R		
4.	Pandi P	TMEDC Channel	
5.	Naveen Raj	TNFDC, Chennai	
6.	Sathish Kumar K	Working in Tanzania	
7.	Vinod Kumar S	CP Aquaculture, Andhra Pradesh	
8.	Muralidharan M	Aquaconnect, Chennai	
9.	Sudhakar L	Kemin Pvt. Ltd., Chennai	



TAMIL NADU Dr.J.JAYALALITHAA FISHERIES UNIVERSITY
VETTAR RIVER VIEW CAMPUS
NAGAPATTINAM - 611002