

DR1/356/2024

KERALA UNIVERSITY OF FISHERIES AND OCEAN STUDIES
PROCEEDINGS

64
10/1/24

KUFOS, Panangad - Fixing the rate of Spray Drying of Food Samples - Approved - Orders issued.

GENERAL ADMINISTRATION

No.GA4/9516/2023

Panangad, Dated: 12.2023

Read: 1. Letter No DR1/4811/2022(i) dated: 01.12.2023 from Director of Research
2. Marginal order of Registrar dated 15.12.2023

ORDER

As per reference read 1st above, it is proposed for fixing the rate of Spray Drying of Food Samples based on the capacity (20-100ml) of the bench top spray dryer at the Dairy Technology Lab.

In the circumstances the rate for the spray drying of food samples is fixed based on the capacity (20-100ml) of the bench top spray dryer at the Dairy Technology Lab as follows,

	Rates	Total
For Spray Drying of Food Samples (20-100ml)	Rs.400+18% GST	472 /-

REGISTRAR i/c

To: Director of Research/Fin6

Copy to: PA to Registrar/Finance Officer/Dean Fisheries/Dean FOST/Dean FFE/Dean FFM/Dr. Lakshmi E. Jayachandran, Asst. Prof./SF

Document 2024/101/210 - GENERAL (Unverified version of 2023/27850/101) - File No. 2023/101/9516
Approved by Registrar on 08/01/2024 19:49:36

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KUFOS HQRS, Panangad, Ernakulam

DR1/1398/2024

DR1
12/2/24

KERALA UNIVERSITY OF FISHERIES AND OCEAN STUDIES
PROCEEDINGS

KUFOS, Panangad - Fixing the rate of cold extruder (pasta extruder) for food samples - Approved -
Orders issued.

GENERAL ADMINISTRATION

No.GA4/10329/2023
01.2024

Panangad, Dated:

Read: 1. DR1/4811/2022(i) dated: 21.12.2023 from the Director of Research
2. Marginal order of Registrar dated 26.01.2024

ORDER

As per the reference read 1st above, it is proposed for fixing the rate for Cold Extruder (Pasta Extruder) for food samples in the Post Harvest Engineering Lab, under the Faculty of Fisheries Engineering.

In the circumstances the rate for the Cold Extruder (Pasta Extruder) for food samples in the Post Harvest Engineering Lab, under the Faculty of Fisheries Engineering for research oriented works from different institutions is hereby fixed as per reference 2nd cited, is as follows,

	Rates	Total
For Cold Extruder (Pasta Extruder) for food samples	Rs.300+18% GST per sample	354/-/

By Order of Registrar i/c

JOINT REGISTRAR

To: Director of Research/Fin6

Copy to: PS to VC/PA to Registrar/Finance Officer/Dean Fisheries/Dean FOST/Dean FFE/Dean FFM/Dr. Lakshmi E. Jayachandran, Asst. Prof./SF

KUFOS HQRS, Panangad, Ernakulam

Document 2024/101/3499 - GENERAL (r) Approved by Joint Registrar on 1/02/2024. 15:03

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**KERALA UNIVERSITY OF FISHERIES AND OCEAN STUDIES
PROCEEDINGS**

KUFOS, Panangad - Fixing the rate of Texture Analyser for Food Samples - Approved - Orders issued.

GENERAL ADMINISTRATION

**No.GA4/10329/2023
02.2024**

Panangad, Dated:

Read: Submission of Dr. Lakshmi E Jayachandran dated 05.02.2024 forwarded by the Head

ORDER

As per the reference read 1st above, it is proposed for fixing the rate for Texture Analyser for food samples in the post Harvest Engineering Lab, under the faculty of fisheries Engineering.

In the circumstances the rate for the Texture Analyser for food samples in the Post Harvest Engineering Lab, Under the Faculty of Fisheries Engineering for research oriented works from different institutions is hereby fixed is as follows.

	Rates	Total
Texture analyser for Food Samples	Rs.600+18% GST	Rs 708/- per sample

REGISTRAR i/c

To: Dr. Lakshmi E Jayachandran, Asst. Pr, of FFE/Fin6

Copy to: PS to VC/PA to Registrar/Finance Officer/Dean Fisheries/Dean FOST/Dean FFE/Dean FFM/Head FFE/ Asst. Prof./SF

Document 2024/101/4437 - GENERAL (-) - Modified version of 2024/3615/101) - File No. 2023/101/10329 Approved by Registrar on 09/03/2024 11:08

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KUFOS HQRS, Panangad, Ernakulam

**KERALA UNIVERSITY OF FISHERIES AND OCEAN STUDIES
PROCEEDINGS**

KUFOS, Panangad - Fixing the rate of Particle size Analysis - Approved - Orders issued.

GENERAL ADMINISTRATION

No.GA4/7765/2021

Panangad, Dated: 03.03.2022

Read: Letter dated: 4.3.2022 from the Director of Research forwarding the following

ORDER

As per read above, Director of Research has requested to issue orders for fixing the rate of various analysis including antioxidant activity assay, determination of viscosity, colour analysis since Hon'ble VC has been approved the proposal submitted by Dr. T K Srinivasa Gopal, Professor Chair CEFPT

In these circumstances the rate for the above analysis is fixed as follows

Sl.No.	Analysis	Service Charge per sample	GST 18%	Total
1	Antioxidant activity assays			
	• DPPH(2,2-Diphenyl-1-picrylhydrazyl)	125.00	23.00	148.00
	• ABTS [2,2'-Azino-bis (3-ethyl benzothiazoline-6-sulfonic acid)]	200.00	36.00	236.00
	• FRAP (Ferric Reducing Antioxidant Power)	125.00	23.00	148.00
2	Viscosity	125.000	23.00	148.00
3	Colour	200.00	36.00	236.00

REGISTRAR i/c

To: Director of Research/ Professor Chair CEFPT/Fin6

Copy to: PS to VC/PA to Registrar/Finance Officer/Dean Fisheries/Dean FOST/Dean FFE/AR(Fin)SF



DOR/31/24
13/5/2024

DR1/3704/2024 stock

SH
13/5/24

KERALA UNIVERSITY OF FISHERIES AND OCEAN STUDIES
PROCEEDINGS

KUFOS, Panangad - Fixing the Utility Charges for sample analysis in Central Instrumentation Facility -
Approved - Orders issued.

GENERAL ADMINISTRATION

No.GA4/10329/2023

Panangad, Dated: 05.2024

Read: 1. DR1/4906/2022 dated 20.03.2024 from the Director of Research forwarding the
utility charges for sample analysis in central instrumentation facility
2.Order of Hon'ble VC dt 19.03.24 in file DR1/4906/2022

ORDER

As per ref read above, Director of Research has forwarded the utility charges of equipments
placed in CIF for various sample analysis which is approved as per ref 2 nd cited above.

In these circumstances, utility charges for sample analysis in central instrumentation Facility is hereby
fixed as follows.

No	Equipment Name	Internal Students & Scholars	External Students, Scholars and Scientists	Industries and others	Remarks
1	GC	400+18% GST Rs 472/-	800+18% GST Rs 944/-	1600+18% GST Rs 1888/-	Processed samples ready for injection
2	GCMS	700+18% GST Rs 826/-	1400+18% GST Rs 1652/-	2800+18% GST Rs 3304/-	Processed samples ready for injection
3	HPLC	500+18% GST Rs 590/-	1000+18% GST Rs 1180/-	2000+18% GST Rs 2360/-	Processed samples ready for injection
4	Ultra centrifuge	250+18% GST Rs 295/-	500+18% GST Rs 590/-	750+18% GST Rs 885/-	Processed samples ready for injection

REGISTRAR i/c

To: Director of Research/Fin 6

Copy to: PS to VC/PA to Registrar/Finance Officer/Dean Fisheries/Dean FOST/Dean FFE/Dean FFM/Dr. Unnikrishnan S, Asst. Prof./SF



Doc/325/24
15/5/24

JH
15/5/24

DR1/3781/2024

Shob

Pl. issue a
copy to ARL, KUFOS

JH
15/5/24

**KERALA UNIVERSITY OF FISHERIES AND OCEAN STUDIES
PROCEEDINGS**

KUFOS, Panangad – Fixing the user fee charges for the equipment in the Aquatic Referral Lab –
Approved - Orders issued.

GENERAL ADMINISTRATION

No.GA4/10329/2023

Panangad, Dated: 14.05.2024

Read: 1. DR1/4073/2022 dtd 20.03.2024 from the Director of Research forwarding the user fee charges
for equipment in Aquatic Referral Lab

2. Order of Hon'ble VC dtd 15.03.2024 in file DR1/4073/2022

ORDER

As per ref 1st read above, Director of Research has forwarded user fee charges for the equipment
in the Aquatic Referral Lab which was approved as per ref 2nd cited above.

In these circumstances, user fee charges for the equipments in the Aquatic Referral Lab are hereby fixed
as follows.

SI no	Particulars	KUFOS	Other Govt/aided academic institutes	Industry
User Charges				
1.	Flow cytometer (Cytoflex Beckman coulter G/R laser) (per 30 minutes)	1000	2000	5000
	Flow cytometry data analysis on Kaluza software(per hour)	500	1000	1500
2.	Realtime PCR (Biorad CFX96) (For single Run)	200	300	500
3.	Multimode reader (Tecan Infinite Pro with Abs, Flu, Lun) (Per30 minutes)	500	1000	2000
4.	Fluorescence Microscope (Axiovert A1, DAPI, GFP, Cy3) (for 30 minutes)	200	500	1000
5.	UV-Vis Spectrophotometer	50	100	150
6.	Nano volume spectrophotometer (Per30min)	100	250	300
7.	Ultra-pure Water Per 1000ml	500	800	1500
8.	TypeII water Per 1000ml	300	500	1000

9.	Cell culture facility(Biosafety cabinet, CO2/BOD incubator, centrifuge, optical microscope) (per hour)	1500	2500	3000
Histopathology services				
1.	Single sample Fish/Shellfish (Processing, Embedding, Sectioning and H&E staining) 1 block and 3 slides will be provided	220	300	500
2.	Slide interpretations with report and photography/slide	350	550	1000
3.	Special staining (PAS, AFB, etc) Please enquire for more stains	200	300	600
4.	Additional H&E- per slide	50	100	150
5.	Additional slide (nostain)-per slide	25	50	100

Molecular Biology services				
1	Species identification (per sample)	1000	2250	3000
2	Nucleic Acid Isolation and quantification (DNA/RNA Manual method-I (solution based)) per sample	75	100	200
3	Nucleic Acid Isolation and quantification (DNA Manual method-II (kitbased) per sample	175	200	275
4	Nucleic Acid Isolation and quantification (RNA Manual method-II (kitbased) per sample	250	300	400
5	Gene expression/quantification by realtime PCR (one 8 well strip with master mix) instrument running charges will be additional	1010	1250	1750
6	Gene expression/quantification by realtime PCR (one 96 well plate with master mix and sealing film) instrument running charges will be additional	12000	13500	15000
Haematology and clinical chemistry services (VET)				

1.	Hemogram routine (Hb,TRBC, TWBC,DLC,HCT)auto analyser (Per sample)	100	200	500
2.	Alkaline Phosphatase	60	70	100
3.	Amylase	120	130	150
4.	Serum cholinesterase	150	170	200
5.	Creatine kinase(CK)	225	250	275
6.	CPK	65	100	120
7.	Gamma GT	75	100	150
8.	SGOT	65	80	100
9.	SGPT	65	80	100
10.	Leucine aminopeptidase	120	150	175
11.	Lactate Dehydrogenase	150	175	200
12.	Albumin	100	120	150
13.	Blood Urea Nitrogen	60	100	150
14.	Calcium	60	100	150
15.	Creatinine	60	100	150
16.	Glucose	40	50	75
17.	Inorganic Phosphorus	100	120	150
18.	Magnesium	150	200	250
19.	Ammonia	150	200	250
20.	Total Bilirubin	60	100	150
21.	Total Cholesterol	100	150	200
22.	Triglycerides	75	100	150
23.	Total Protein	100	120	150
24.	Uric Acid	60	100	150
25.	Electrolytes	200	250	300
26.	C Reactive Protein	250	275	350
27.	Lipase	120	150	200
28.	Total Bicarbonate	160	200	250
29.	Other assays like SOD,CAT, GST, NBT,MPO,GSH,GSSG, GPX,GR) please enquire	*POR	POR	POR

Microbiology services

1.	Total heterotrophic bacterial count	100	200	250
2.	Vibrio count	120	200	250
3.	Total fungal count	120	200	250
4.	Bacterial identification and AST (automated)	2000	2500	3500
5.	AST (disc diffusion method)(9 antibiotics)	1000	1500	2000
6.	MIC determination (Single antibiotic)	1000	1750	2500
7.	MIC determination—micro broth dilution (Single compound—custom/single organism)	1000	1500	3000
8.	AMR gene detection(per gene/sample)	300	500	1000

9.	Bacterial/fungal isolate identification by 16s/18s RNA PCR and sequencing/per isolate	1000	2250	3000
Cell culture services				
1.	Viability and cytotoxicity assay (per compound/cell line)	1250	2000	3000
2.	ROS assay (plate based/flow cytometry)	POR	POR	POR
3.	Apoptosis assay (flow cytometry))	POR	POR	POR
4.	Mycoplasma testing	300	500	1000
5.	Cell cycle analysis(flow cytometry) single sample	500	700	1500
6.	Cell culture based assay development and testing	On enquiry @ ARL,KUFOS	On enquiry @ ARL,KUFOS	On enquiry @ ARL,KUFOS

*POR- Price on request


REGISTRAR i/c

To: Director of Research/Fin6

Copy to: PS to VC/PA to Registrar/Finance Officer/Dean Fisheries/Dean FOST/Dean FFE/Dean FFM/AR(Fin),SO(Cash)

DOR/358/24
10/6/2024

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DOR/4305/2024
10/6/24

KERALA UNIVERSITY OF FISHERIES AND OCEAN STUDIES
PROCEEDINGS

KUFOS, Panangad - Fixing the Sample Testing charges in the Aquatic Referral Lab - Approved - Orders issued.

GENERAL ADMINISTRATION

No.GA4/10329/2023

Panangad, Dated: 05.2024

- Read: 1. DOR/310/24 dtd 13.05.2024 from the Director of Research forwarding the rates proposed for analysis at the Aquatic Referral lab.
2. Marginal order of Registrar dated 14.05.2024

ORDER

As per ref 1st read above, Director of Research has forwarded the rates proposed for analysis at the Aquatic Referral lab which was approved as per ref 2nd cited above.

In these circumstances, the rates for the various analysis at Aquatic Referral lab are hereby fixed as follows.

SI no	Facility	Amount (Excluding 18% GST)		
		KUFOS	Educational Institutions	Industries
1	ICP-MS Subsequent element	400	500	1000
2	Microwave Digestion	300	300	300
3	LCMS- Qualitative single compound	1200	1500	2000
4	Sample preparation charge	250	250	250
5	LCMS – Quantitative (5 std + 1 sample)	2000	2500	6000
6	LCMS-Sulfa compounds (6 compounds)			4000
7	LCMS-Sulfa compounds (14 compounds)			10000
8	LCMS-Quinolones(6 compounds)			4000
9	LCMS- Tetracycline (6 compounds)			4000
10	LCMS- Penicillin G	2000	2200	2500
11	Drinking water- 12 parameters	1200	1200	1200

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Approved by Registrar on 07/06/2024 09:58:39

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KUFOS HQRS, Panangad, Ernakulam.



Document 2024/101/11376 - GENERAL (modified version of 2024/11119/101) - File No. 2023/101/10329
Approved by Registrar on 07/06/2024 09:58:39

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KUFOS HQRS, Panangad, Ernakulam

12	Construction water sample			2000
13	Sewage/Effluent sample(5 parameters)			1200
14	Aquaculture water sample – 9 parameters	730	730	730
15	Aquaculture water sample- 5 parameters	407	407	407

Registrar i/c

To: Director of Research/Fin 6
Copy to: PS to VC/ PA to Registrar/Finance Officer/Dean Fisheries/Dean FOST/Dean FFE/Dean FFM/ AR Fin, SO Cash, Spare

JRI-8902/2022

SM
4/11/22

KERALA UNIVERSITY OF FISHERIES AND OCEAN STUDIES
PROCEEDINGS

KUFOS, Panangad - Fixing the rate of Particle size Analysis - Approved - Orders issued.

GENERAL ADMINISTRATION

No.GA4/7765/2021

Panangad, Dated: .10.2022

- Read:
1. Letter dated: 29.7.2022 from the Director of Research forwarding the following
 - a. Minutes of the technical price fixation committee meeting held on 24.6.2022
 - b. Analytical charges proposed by the Professor Char, CEFPT
 2. Letter dated: 13.9.2022 of the Director of Research

ORDER

As per read above, Director of Research has requesting to issue orders for fixing the rate of various analysis of food and packaging samples since Hon'ble Vice Chancellor has been approved the recommendations of the technical price fixation committee regarding the rate of analysis proposed by Dr. T K Srinivasa Gopal, Professor Chair CEFPT . As per reference 2nd cited, it is further informed that certain modifications have been made in the charges according to the direction of the Finance Officer In these circumstances the rate of Analytical charges for Food Products is fixed as follows

Analytical charges for Food products

	Name of Product / Test	Charges (in rupees)	GST -18%	Total	Remark
1	Ash	400	72	472	Per Sample
2	pH	150	27	177	Per Sample
3	Protein / Total Nitrogen	500	90	590	Per Sample
4	Fat	500	90	590	Per Sample
5	α- Amino nitrogen	550	99	649	Per Sample
6	Fibre	500	90	590	Per Sample

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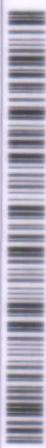


KUFOS HQRS, Panangad, Ernakulam

7	Carbohydrate	550	99	649	Per Sample
8	Moisture	300	54	354	Per Sample
9	Free fatty acids	600	108	708	Per Sample
10	Peroxide Value	600	108	708	Per Sample
11	L* a* b* values by Hunter colorimeter	300	54	354	Per Sample
12	Energy	1500	270	1770	Per Sample
13	Total Volatile Base nitrogen (TVBN) analysis	500	90	590	Per Sample
14	Cholesterol	1500	270	1770	Per Sample

Analytical charges for Packaging Materials

SL. No	Name of Product / Test	Charges (in rupees)	GST -18%	Total	Remark
1	Basis weight (grammage) of paper and CFB per ply	200	36	236	Per Sample
2	Bursting strength	700	126	826	Per Sample
3	Burst factor of paper IS 1060 30 x 30 cm (10 Nos. of	800	144	944	Per





KUFOS HQRS, Panangad, Ernakulam

	each sample required)				Sample
4	Burst factor of 3 ply board IS 1060 30 x 30 cm (10 Nos. of each sample required)	1200	216	1416	Per Sample
5	Burst factor of 5 ply board IS 1060 30 x 30 cm (10 Nos. of each sample required)	1500	270	1770	Per Sample
6	Tensile strength and % elongation IS 1060 30 x 30 cm (10 Nos. of each sample required)	800	144	944	Per Sample
7	Breaking length of paper IS 1060 30 x 30 cm (10 Nos. of each sample required)	800	144	944	Per Sample
8	Tearing strength IS 1060 30 x 30cm (10 Nos. of each sample required)	300	54	354	Per Sample
9	Tear factor IS 1060 30 x 30 cm (10 Nos. of each sample required)	500	90	590	Per Sample
10	Water resistance (Cobb/value) IS1006 30 x 30 cm (10 Nos. of each sample required)	350	63	413	Per Sample
11	Vibration test IS 72028 (1973) (3 Nos. of each sample required)	800	144	944	Per Sample
12	Tearing strength of plastic films	350	63	413	Per Sample
13	Puncture resistance for plastic films	350	63	413	Per Sample
14	Heat seal strength	800	144	944	Per Sample



KUFOS HQRS, Panangad, Ernakulam

15	Thickness/ Caliper	100	18	118	Per Sample
16	Puncture Resistance for board	700	126	826	Per Sample
17	Box compression	700	126	826	Per Sample
18	Drop test	500	90	590	Per Sample
19	Gas transmission rate	1200	216	1416	Per Sample
20	Water vapour transmission rate	1200	216	1416	Per Sample
21	Impact strength	500	90	590	Per Sample
22	Moisture content of CFB	200	36	236	Per Sample
23	Overall migration Residue Test				
	a) Water extraction	300	54	354	Per Sample
	b) N-Heptane extraction	500	90	590	Per Sample
	c) Acetic Acid extraction	400	72	472	Per Sample
	d) Alcohol extraction	500	90	590	Per Sample

REGISTRAR i/c

To: Director of Research/ Professor Chair CEFPT/Fin6

Copy to: PS to VC/PA to Registrar/Finance Officer/Dean Fisheries/Dean FOST/Dean FFE/AR (Fn)/SF

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Approved by Registrar on 20/10/2022 16:31:53

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KUFOS HQRS, Panangad, Ernakulam

**KERALA UNIVERSITY OF FISHERIES AND OCEAN STUDIES
PROCEEDINGS**

KUFOS, Panangad - Fixing the rate of Gas Chromatography Analysis - Approved - Orders issued.

GENERAL ADMINISTRATION

No.GA4/7765/2021

Panangad, Dated: .12.2022

Read: Ltr no. DR1/4249/2022 dated: 16.12.2022 of the Director of Research

ORDER

As per read above, Director of Research has requested to issue orders for fixing the rate of various analysis by using Gas Chromatography Equipment in central lab including amino acid analysis and fatty acid analysis.

In these circumstances the rates for the below mentioned analysis are fixed as follows:

	Rates		
	Internal Students and Scholars	External Students, Scholars and Scientists	Remarks
For Amino Acid Analysis	Rs.500/ + 18% GST	Rs.1000/ + 18% GST	Processed Samples ready for injection
For Fatty Acid Analysis	Rs.500/ + 18% GST	Rs.1500/ + 18% GST	Processed Samples ready for injection

REGISTRAR i/c

To: Director of Research/Fin6

Copy to: PS to VC/PA to Registrar/Finance Officer/Dean Fisheries/Dean FOST/Dean FFE/Dean FFM/SF

