

**ANAND AGRICULTURAL UNIVERSITY**  
**ANAND – 388110, GUJARAT, INDIA**

**Approval of the laboratories testing charges for various parameters at College of Food Processing Technology and Bio Energy, Anand.**

Read: Resolution of 48<sup>th</sup> Meeting of the Board of management of Anand Agricultural University held on 20/09/2018

**NOTIFICATION**

It is hereby notified to all concerned that vide item no 48.11 of the 48<sup>th</sup> meeting held on 20/09/2018, the Board of management of the Anand Agricultural University has resolved as under;

“It is resolved that the Board of Management approves the recommendation of the Academic Council (Item No. 49.16) for the analytical charges for food products and packaging materials as appended in the Annexure-I.”

The copy of the list of Approved Laboratories Testing Charges as per “Annexure-I” is attached herewith.



(R. F. Sutar)  
Dean

Faculty of FPT & BE

NO.: AAU/FPT&BE/FQTL/2516-21/2018  
Date: 09/10/2018

**Copy F.W.Cs to:**

1. All members of the Board of Management of University
2. All officers of Anand Agricultural University, Anand

**Copy to:**

1. All the HODs/Teachers of this college
2. P.S to Hon. Vice Chancellor, AAU, Anand
3. P.A to Registrar, AAU, Anand
4. Research Branch of this college
5. Notification File

## Annexure-I

### Analytical Charges for Food Products and Packaging Materials

Sr. No.	Particulars of the Test	Testing Charges (INR)
1.	<b>Proximate and Nutritional Analysis</b>	
	Fat (%)	800 / sample
	Crude fibre (%)	800 / sample
	Ash (%)	800 / sample
	Protein (%)	800 / sample
	Moisture	800 / sample
	Moisture (spices)	1000 / sample
	Total glucose	800 / sample
	Ascorbic acid	800 / sample
2.	<b>LCMSMS</b>	
	<b>NABL Acriditated Parameter</b>	
	Veterinary drugs & antibiotics residues in Milk	
	Chloramphenicol,	5000 / sample
	Metronidazole & Ronidazole,	5000 / sample
	Albendazole & Fenbendazole,	5000 / sample
	Phenyl Butazone	5000 / sample
	Penicillin G & Amoxicillin	5000 / sample
	Cefaperazone, Cloxacillin, Ceftioufur & Diocloxacillin	5000 / sample
	<b>Non NABL Parameter</b>	
	Tetracycline, Oxytetracycline from milk	5000 / sample
	Enrofloxacin from milk	5000 / sample
	Gemifloxacin & piperine from plasma	5000 / sample
	Cinnamaldehyde & Eugenol from cinnamon	5000 / sample
	Piperine from pepper	5000 / sample
	Acrylamide from fried oil	5000 / sample
3.	<b>HPTLC</b>	
	Food Colors	
	Carmoisine,	2000 / sample
	Erythrosine,	2000 / sample
	Tartazine	2000 / sample
	Sunset Yellow FCF	2000 / sample
	Sudan Red G	2000 / sample
	Sudan Red 7B	2000 / sample
	Fingerprinting of Saffron	2000 / sample
4.	<b>Gas Chromatograph</b>	
	Fatty acid profile (Edible oils)	2000 / sample
	<b>Active Compounds :</b>	
	$\beta$ -Carophyllene from curry leaves	2000 / sample
	Menthol from mint leaves	2000 / sample

	Carvone from mint leaves	2000 / sample
5.	<b>GCMS-HS</b>	
	<b>Active Compounds :</b>	
	Linalool, Geranyl acetate & $\gamma$ -Terpinene from coriander	5000 / sample
	1,8 cineol Linalool, $\gamma$ -Terpinene from cardamom	5000 / sample
	Cuminaldehyde & $\gamma$ -Terpinene from Cumin	5000 / sample
	Thymol, $\gamma$ -Terpene & P – cymene from Ajwain	5000 / sample
	Solvent residues in food sample	5000 / sample
6.	<b>HPLC</b>	
	6-Gingerol from ginger	2000 / sample
	Curcumin from turmeric	2000 / sample
	Eugenol from basil leaves	2000 / sample
	Vitamin A	2000 / sample
	Beta carotene	2000 / sample
	Nicotinamide	2000 / sample
	Thiamine	2000 / sample
	Riboflavin	2000 / sample
7.	<b>AAS</b>	
	<b>Metals from food sample</b>	
	Chromium (Cr),	750 / sample
	Tin (Sn),	750 / sample
	Lead (Pb),	750 / sample
	Cadmium (Cd),	750 / sample
	Aluminum (Al),	750 / sample
	Zinc (Zn),	750 / sample
	Silver(Ag)	750 / sample
	Cobalt (Co)	750 / sample
	Nickel(Ni)	750 / sample
8.	<b>FTIR</b>	
	Spectral fingerprinting	1000 / sample
9.	<b>Colour Lab</b>	
	Colour index (L*a*b* values)	500 / sample
10.	<b>Potentiometric Auto titrator</b>	
	Acid Value,	1000 / sample
	Saponification value,	1000 / sample
	Iodine Value &	1000 / sample
	Peroxide Value	1000 / sample
	Moisture (by Carl fisher)	1000 / sample
11.	<b>Rancimate</b>	
	Induction time at specific temperature	2000 / sample
12.	<b>Viscometer</b>	
	Viscosity of liquid	500 / sample
13.	<b>CHNSO analyzer</b>	
	Carbon, Hydrogen, Nitrogen and Sulphur content	2000 /sample
	Carbon, Hydrogen, Nitrogen, Sulphur and Oxygen content	4000 /sample

14.	<b>Water Activity Meter</b>	
	Water activity	500 /sample
15.	<b>Bomb Calorimeter</b>	
	Calorific Value of Food sample	1000 / sample
16.	<b>Ion Chromatography</b>	
	Ions (Fluoride, Chloride, Bromide, Nitrate, Phosphate, Sulphate)	2000 / sample
17.	<b>Texture Profile Analyzer</b>	
	TPA of foods	3000 / sample
18.	<b>Head Space Analyzer</b>	
	Head Space analysis of Nitrogen, Oxygen	1000 / sample
19.	<b>Particle Size Analyzer</b>	
	Particle size analysis	1000 / sample
20.	<b>Automatic Pycnometer (Ultra pyc 1200e)</b>	
	True Density	1000 / sample
21.	<b>Microbiological Analysis</b>	
	Standard Plate Count, Yeast & Mold Count and Coliform Count	1000 / parameter
	<i>E. coli, Salmonella and Shigella</i>	2000 / pathogen
<b>Packaging Materials</b>		
22.	Bulk of paper & paperboard (Bulk is a ratio of two volumes i.e. volume of the paper at S.A.C. to the volume of an equal weight of water.)	650
23.	Burst factor (It is the ratio of Bursting strength to substance)	850
24.	Burst Index (It is the ratio of Bursting strength to base weight)	850
25.	Bursting strength of paper and paperboard (it is a composite strength property of material)	650
26.	Caliper (thickness) (accurate micron level thickness measurement)	600
27.	Dart impact (The impact resistance of plastic films by using the falling dart method)	850
28.	Grammage of paper (Measurement of GSM of Paper and Paperboard)	600
29.	Hardness (Texture profile measurement of hardness)	850
30.	Ink adhesion test (It is for the checking of print quality of plastic films)	750
31.	Leakage test plastic containers / for metal containers (Vacuum Test)	650
32.	Leak in heat sealed flexible packages	650
33.	Machine/cross direction of (paper and paperboard)	650

34.	Moisture content for paper	650
35.	Moisture content for paper wood	650
36.	Oxygen Transmission Rate Test (Instrumental method) (Test conducted with precise instrument from Systech Illinois Ltd., UK)	6500
37.	Pouch burst test (to check the bursting strength of the packed pouch)	850
38.	Puncture resistance (digital) (resistance of paper board to puncturing)	650
39.	Stack simulation using compression tester (to check how many cardboard boxes can be stacked over each other)	2100
40.	Tear factor (Ratio of tearing strength to substance)	850
41.	Tear Index	850
42.	Tear strength of paper	650
43.	Tensile Strength of plastic film	850
44.	Waterproofness / Cobb test	750
45.	Water Vapour Transmission Rate (WVTR) Test (Instrumental method) (Test conducted with precise instrument from Systech Illinois Ltd., UK)	6500

**NOTE:**

1. Charges have to be paid with the sample.
2. The taxes will be applicable as per the government norms.
3. Analytical charges of other parameters and samples shall be communicated on request and shall be charged as per the Instruments and protocols used.