INTRODUCTION

About Us

The State Grading Laboratory (F&V) carries out routine Chemical and Microbiological analysis of a variety of food and agricultural products and raw materials used in their production

It also takes projects in problem solving for the food industry.

The Laboratory believes in addressing all customer needs

Grading and Marking of agricultural produce as per the standards of AGMARK under the provision of General Grading and Marking Rules under Agricultural Produce (Grading and Marking) Act, 1937, as amended from time to time, is one of the basic functions of the Directorate of Agricultural Marketing, Govt. of NCT of Delhi. The Directorate of Agricultural Marketing is the Designated Authority for this purpose in Delhi.

Inception of the State Grading Laboratory

Prior to 1976, the State Grading Laboratory was functioning as the Delhi State Multipurpose Laboratory for the grading of ground spices, honey and vegetable oils under AGMARK as per the approval of the Directorate of Marketing and Inspection, Ministry of Agriculture, Govt. of India, vide their letter No. F. 76/10/70 D1 dt. 17.03.1973. With the approval of the Directorate of Marketing and Inspection, Ministry of Agriculture, Govt. of India, vide their letter No. F. 76/10/70/DI-QC-I/1628 dt. 14.10.1988, the grading of ghee under AGMARK at the State Grading Laboratory was also added besides Honey, Vegetable Oils, Butter, Wheat, Atta, Besan and Ground Spices. Ninety-One packers are attached with the State Grading Laboratory for availing the facility of grading under AGMARK.

Augmentation of SGL for Fruits & Vegetables

The Govt. of India vide Notification No. GSR-220 dt. 14.06.2004 had notified Fruits and Vegetables Grading & Marking, Rules 2004, under the Agricultural Produce Grading and Marking Act, 1937 (as amended from time to time) for 18 major commodities like Mango, Onion, Grapes, Cabbage, Tomato, Banana and Apples etc. The above Rules stipulates that for domestic consumption grading of Fruits and Vegetables should have to be done as per the requirements of PFA Act and for export purposes the recommendations of Codex Alimantarious Commission are to be followed. In both the cases the trace analysis for the determination and measurement of contamination due to pesticides residues, aflatoxins, heavy metals and microbial loads are required to be

carried out. Accordingly, the Directorate decided to augment the facilities of the State Grading Laboratory for Standardization and Grading of Fruits and Vegetables. The Govt. of India was requested for the guidance and as per the guidance given by the Additional Agricultural Marketing Adviser to Govt. of India, Ministry of Agriculture, Department of Agriculture and Cooperation, Directorate of Marketing and Inspection vide his D.O. letter No. Q.11047/Misc./9/2000-QC.1 dt. 31.05.2004, the project was conceived under the Plan Scheme of the Directorate.

Under the Plan project "Augmentation of State Grading Laboratory", the State Grading Laboratory (F&V) for the standardization and grading of fruits & vegetables as per the norms prescribed under the Grading & Marking Rules of Fruits & Vegetables 2004 has been set-up for the qualitative and quantitative analysis food and agricultural products.

ACCREDITATION OF THE SGL (F&V)

The Quality Council of India has formed different bodies for Accreditation and Certification of laboratories.

- Accreditated by National Accreditation Board for Testing and Calibration Laboratories (NABL) in Microbiological and Chemical Testing.
- Recognised by **Agricultural & Processed Food Products Export Development Authority** (APEDA) for the exporter of South East Asian countries.
- Certified by ISO: 9001:2000.
- Recognised by Directorate of Marketing & Inspection (DMI), Govt. of India is certified the lab for the analysis of the active component in spices and honey, which are the compulsory parameter for Agmark grading and grading, can't be done without these parameters.

NABL Accredited Tests

Samples	Chemical Tests	Charges in Rupees	Biological Tests	Charges in Rupees
Fresh Fruits	Heavy Metals	_	Aerobic Plate Count	100/-
& Vegetables	Lead	100/-	Coliform Bacteria	100/-
	Copper	100/-	Yeast & Mould Count	100/-
	Arsenic	100/-	E.coli	100/-
	Tin	100/-	Salmonella	200/-
	Zinc	100/-	S.aureus coagulase +ve/ gm	200/-
	Cadmium	100/-	Faecal streptococci	200/-
	Pesticide Residue		·	
	Organ chlorine groups			

Aldrin, Dieldrin Captafol DDT 1.2,4 DDT 2.4,4 DDT 3.2,4 DDE	200/- 200/- 200/-
4.4,4 DDE Endosulfan 1.Alfa 2.Beta Hexachloro	200/-
Cyclohexane 1.Alfa 2.Beta 3.gama(lindane) 4.Delta	
Heptachlor Organo phosphorous groups Dimethoate	200/-
Fenitrothion Malathion	200/- 200/-
Parathion	200/-
Parathion methyl	200/-
Chloropyrifos	200/-
Ethion	200/-
Formothion	200/-
Monocrotophos Thiometon	200/- 200/-
Fenthion	200/-
Phorate	200/-
Other pesticides	200/-
Carbaryl	200/-
Aldicarb	200/-

Other Facilities Available

Charges in Charges
50
50
50
50
50
50
50

Cooking Time	50
Sample Characteristics (Sieve Analysis)	50
Objectionable Matter	50
Particle size	50
Extraneous matter	50
Bulk Density	50
Identification	100
Refractive index at 40°C	100
Sensory Analysis	100
Food Grade Testing	100
(Overall Migration Test)	
Chemical tests	
Calories	200
Protein	200
Fat	200
Total ash	100
Acid insoluble ash	100
Moisture Content	50
Crude Fibre/Dietary Fibre	500
Calcium	100
Potassium	100
Iron	100
Iodine	-
Vitamin D	200
Vitamin A	200
Ascorbic acid	200
Folic Acid	200
Vitamin B12	200
Acidity (Total)	100
Alkalinity-Total	100
Water Insoluble matter	100
Water Insoluble matter other than	100
Sodium Chloride	
Chloride content as Sodium Chloride	100
Anti caking agent	100
Acidity ash	100
Starch	300
Inorganic matter	200
Assay – Saponins	250
Volatile Organic Sulphur compounds	300
Argemone oil test	300
Aigemone on test	550

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Monounsaturated fat (MUFA),		
Delegge gate and tot (DUEA) Distance		
Polyunsaturated lat (PUFA), Dietary	Polyunsaturated fat (PUFA), Dietary	

Iron/Potassium)	
Shelf-life Study (Accelerated)	
Shelf-life study for 6 months or less	1000
Shelf-life study for 1 year	1500
Pesticide residue	
Pesticide residue (total)	700
Pesticide residue (individual)	200
Pesticides (Group)	300each
(i) Organophosphorus	
(ii) Organochlorine	
(iii) Carbamates	
(iv) Herbicides	
Aflatoxin	
Aflatoxins (Total) by ELISA	300
Aflatoxin-B1 (by HPLC)	200
Microbiological Tests	
Total Plate Count	100
Total yeast & mould count	100
Coli form Count	100
E.coli	100
Faecal Streptococci	200
Salmonellae (per 25g sample)	200
Bacillus cereus	200
Pseudomonas aeruginosa	200
Staphylococcus aureus	200
Shigella spp.	200
Vibrio parahaemolyticus	200
Clostridium perfringenes	300
Listeria monocytogenes	300
Anaerobic spore count	200
Yeast & spore count	200
Proteolytic & Lipolytic bacteria	200
Thermophilic bacterial count	200
Incubation Test for 7 days	200
Incubation Test for 15 days	200
Personnel/Equipment Swab Analysis	
Swab Test (TPC, Coli form, E.coli, Salmonella)	400
Swab Test (TPC, Coli form, E.coli)	300

ACTIVE COMPONENT IN SPICES AND HONEY AS PER AGMARK

Sl.	Products	Test Parameter	Charges
No.			for Analysis
1.	Turmeric Powder	Curcumin	200/-
2.	Pepper	Piperine	350/-
3.	Red Chillies	Capsaicin	350/-
4.	All Spices	Salmonella	250/-
5.	Honey	HMF contents	250/-
6.	Spices	All tests (Combined)	400/-

List of Samples Routinely Analyzed

Fruits & Vegetables and products

Spices & Pulses

Bakery Products

Dairy Products

Possessed Food

Canned Products

All Meat Products

Confectionery

Beverages

Oils

FACILITIES OFFERED

- Nutritional Labelling.
- Microbiological tests.
- Shelf life testing.
- Chemical tests.
- Vitamin analysis.
- Fatty acid profile with transfat and omega 3.
- Aflatoxin analysis.
- Pesticide analysis.
- Consultancy and problem solving.
- Drinking Water as per IS:10500 and packaged drinking water as per IS:14543 & 13428.

THE GOAL

The SGL (F&V) Laboratory aims at being a one stop laboratory for all food analysis and guidance required by the food industry for raw materials and finished products.

It aims to meet all quality testing requirements to international standards and provide accurate, speedy, traceable analytical reports.

In addition to the analytical work, following R&D and Academic Programme shall also be undertaken: -

Short Term R&D

01. To develop eco-friendly methods to remove Pesticides Residues and Microbial Loads without using chemical or corrosives like hot water, steam, mild soap washing, cleaning and scrubbing methods.

Long Term R&D

- 01. Reduction of post harvest decay by heat treatment and using irradiation like UV and microwave.
- 02. Modified atmospheres as the storability of fruits and vegetables.
- 03. Edible coatings (eco-friendly coating)/natural seal on vegetables to increase shelf life and to reduce decay.
- 04. Innovative packaging & transportation strategies keeping in view our farming practice, kind of roads and transportation used by our farmers and traders in our country.
- 05. Development of quick testing procedures for pathogens, pesticide resides on agricultural produce, which can be done on farm and in wholesale Mandi. Things like biosensors, Elisa based dip-strip methods / procedures.
- 06. Value addition and development of agricultural produce into Nutraceuticals.

OTHER SERVICES

- Food handler training course.
- Audits of food handling / manufacturing units.
- Hygiene monitoring
 - o Air count
 - Swabs
- Problem solving with reference to quality related issues on site.
- Training on Food Safety and Quality Management System.

THE GROUP

The State Grading Laboratory (F&V) has a team of young, enthusiastic, sincere and dedicated food technologists, analysts and microbiologists. The laboratory is headed by the Director, Directorate of Agricultural Marketing.

Contact Detail

The State Grading Laboratory (F&V)

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