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Press Release

Rapid Food Testing Devices and Kits set to redefine Food Safety in 2020

New Delhi, December 31, 2019: Country's Food Regulator, the Food Safety and Standards Authority of India (FSSAI) has made a quick progress towards the use of advanced technologies for food testing in the year 2019. Several new rapid food testing devices/kits for detection of food-borne pathogens and toxins have been introduced during 2019. These devices ensure "faster, better, cheaper" real-time testing of food. These are expected to become an integral part of quality assurance/quality control programs in the food industry and also for regulatory and surveillance purposes in 2020.

In 2019, FSSAI had finalized the regulations for approval of rapid testing devices, kits and methods to strengthen the food testing ecosystem in the country. FSSAI has so far approved 30 rapid food testing kits/devices under these regulations given as per list 1 attached below.

FSSAI is also providing these kits/devices to the State Governments for use by field officers and get quicker & validated results for tests conducted on different food products such as milk and edible oils, amongst others. Steps have been initiated to make these available on government eProcurement marketplace (GeM) portal so that further procurements can be made by Governments, local bodies on their own. FSSAI has invested over Rs. 5 crore on this so far.

Only two out of 30 rapid kits/ devices are indigenously manufactured, rest are all imported despite the fact that many research and scientific institutions are engaged in development of such kits and devices. FSSAI has initiated steps so that indigenously developed kits/devices are validated and approved under the FSSAI regulations on a fast track basis. Work has begun on 30 of these kits/devices as per list 2 attached below. These were on display at the second Eat Right Mela organized at New Delhi recently.

CEO, FSSAI, Pawan Agarwal informed that FSSAI would spend over Rs. 20 crore and procure rapid food testing kits and devices. These would be provided to field officers through the State governments. He hoped that various States would also buy such kits/devices from the GeM portal to make them widely available with the enforcement officials. Once, such kits and devices are widely used for regulatory purposes; food industry would also begin to use them for internal quality assurance and quality control purposes. He pointed that there is a market potential of Rs. 1000 crore for such kits/devices in India alone. He hoped that wider use of rapid food testing kits and devices for food testing would be a game changer for India in 2020 and build greater public confidence in food available in the marketplace.

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List 1: Approved Rapid Kits/Devices

Sr. No.	Test Kit Name	Manufacturer	Matrices
1	RAMAN –1:Edible Oils and fats	Oak Analytics India Pvt. Ltd.,	Edible Oils
2	Extenso Kit 075/Kit 275 :Veterinary	Unisensor, Belgium	Milk
	drug and Antibiotics	Indifoss Analytical Pvt.Ltd	
3	Bioeasy (M1): Aflatoxin	3M India Ltd, Bengaluru	
4	Coliform Count Plates: Total coliform		
5	Aerobic Count Plates : Aerobic Count		
6	Petrifilm Staph Express Count Plate +		
	Disks): Staphylococcus aureus		
7	Petrifilm TM EC Plate:		
	Enterobacteriaceae Count		
8	Colilert& Colilert-18: Total coliform	IDEXX LabPvt. Ltd,	Water&
9	Pseudalert : Pseudomonas aeruginosa		Alcoholic
10	Alcolyzer ME: Alcoholic beverages	Anton Paar India Pvt. Ltd.,	beverages
11	Compact Dry (Coliforms) : Coliforms	Nissui Pharma., Japan	Meat and Meat
12	Salmonella Velox : Salmonella	DNA Diagnostic, Denmark	Products, Fish
13	Petrifilm TM Aerobic Count Plates:	3M India Ltd, Bengaluru	and Fish
	Aerobic Count		Products
14	E.coli/Coliform Count Plate:		
	E.coli/Coliform Count		
15	Petrifilm Staph Express Count Plate +		
	Disks: Staphylococcus aureus		
16	Reveal 2.0 : E. Coli	Neogen (India) Pvt. Ltd	Raw and
17	Petrifilm Staph Express Count Plate +	3M India Ltd, Bengaluru	finished food
	Disks: Yeast and Mold		
18	PetrifilmY&M Count: Yeast and Mold		
19	Compact Dry (E. Coli) : E. Coli	Nissui Pharma., Japan	
20	Compact Dry (TPC): Total Plate Count		
21	Compact Dry (BC): Bacillus cereus		
22	Compact Dry (SA): Staphylococcus aureus		
23	Compact Dry (Y&M): Yeast and		
23	Mold		
25	Vitek 2 Compact : Pathogens	Biomerieux S.A, France	Automated
26	Vidas (Tempo) : Pathogens	Í	system for
27	Analytical Profile Index: Pathogens		rapid detection
28	GeneUP: Virus &Pathogens		of Pathogens
29	Vidas: Pathogens		in food
30	Reveal Q+Max : Pathogens	Neogen (India) Pvt. Ltd	matrices



List 2: Indigenously developed Rapid kits/devices

Sr.	Test Kit Name	Name of the Developer/	Matrices
No.		Institute	
1	Formaldehyde detection kit	ICAR-CIFT,	Fish & Fish Products
2	Ammonia detection kit	Kochi(Commercialized by-	
		HiMedia Laboratories)	
3	17 α MT ELISA Kit : Hormones	NIHFW, New Delhi	
4	17 α, 20 β DIOHP ELISA Kit		
5	11-KT ELISA Kit:Hormones		
6	Argemone Oil Detection Kit	CSIR-IITR, Lucknow	Edible oils
7	Mustard Oil Check		
8	Iron Fortified salt	NIN Hyderabad	Iron fortified salt
9	Iodized salt	HLL Lifecare Ltd	Salts
10	Salt Iodine Rapid Test	(Commercialized by-HLL	Iodized Salt
		Lifecare Ltd)	
11	Food animal species identification	ICAR-IVRI, Izatnagar	Meat and Meat Products
12	Carotenoid based assay to ascertain the		
	cattle origin of tissues		
13	Natural dye based time temperature		
	Indicators Natural dye based Quality		
14	evaluation of frozen/ chilled mutton and	DFRL, Mysuru	Frozen/ chilled mutton
	chicken		and chicken
15	ELISA kit for Dexamethosone	NIHFW, New Delhi	Meat and Meat Products
16	ELISA kit for MPA		
17	ELISA kit for Prednisolone		
18	Kit for Detection of Adulteration in	NDDB,	Milk Adulteration
	Milk- Small, Medium, Large,	Anand(Commercialized by-	(Detergent, Neutralizers,
		Jupiter Glass Works)	Urea , Hydrogen
19	KEMAT -Milk	Dayalbagh Educational	Peroxide, Glucose,
20	goMATA -Milk	Institute, Agra	Maltodextrin, Sucrose)
		NDRI,	
21	Detection Kit of Adulteration in Milk	Karnal(Commercialized by-	
		Delmos Research Pvt. Ltd)	
		NDRI, Karnal	
22	Spore Based kit for detection of	(Commercialized by-Florecer	
	Antibiotic Residues	Services Ltd	
23	Milk test (Strip based) Antibiotics		
24	Milk test (Strip based) Pesticide		2 671
25	Milk Progesterone ELISA/LFIA	NIHFW, New Delhi	Milk
26	L-lactate sensing using nanomaterials	NIFTEM, Kundli	Milk, baby milk
27	Strip assay to check adulteration	COLD HED 7	3.631
20	T + 1 (0 + 1 + (D1 D2 C1 C2)	CSIR-IITR, Lucknow	Milk
28	Total aflatoxins (B1, B2, G1, G2)	NIFTEM, Kundli	Cereal, Pulses, Fruits,
29	Rapid Testing Kit for	IIT, Gandhinagar	Vegetables and Beverages
20	differentiation of pathogens	DARC M. 1.	
30	Biokit for detection of Organophosphate	BARC, Mumbai	
	and Organocarbamate Pesticides		

