INDIA

NATIONAL RESIDUE CONTROL PLAN

FOR

AQUACULTURE PRODUCTS

YEAR 2023



Export Inspection Council

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NATIONAL RESIDUE CONTROL PLAN OF INDIA FOR AQUACULTURE PRODUCTS – 2023

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NATIONAL RESIDUE CONTROL PLAN (NRCP) OF INDIA FOR AQUACULTURE PRODUCTS – 2023

1	FOR AQUACULTURE PRODUCTS – 2023
1.	Introduction
	The major concern all over the world for food and feed products of animal origin including aquaculture products is the presence of residues of veterinary medicinal products, feed additives and environmental contaminants. Specifications for a residue control programs are determined by the importance of the various health risks that could be incurred by consumers of products derived from animal food products.
	The Govt. of India is committed to ensure safe seafood for both domestic and overseas market. Keeping the above in view, the National Residue Control Plan (NRCP) of India for Aquaculture products has been formulated for monitoring the presence of residues of Veterinary Medicinal Products (VMPs) including antibacterial and other veterinary/aquaculture medicinal substances like anthelmintics, growth promoters, substances like dyes, other unauthorized substances and environmental contaminants such as Plant Protectants & Biocides, Organochlorine compounds including Pesticides, PCBs, Dioxins and Furans and Dioxin like PCBs and Chemical Elements (heavy metals) etc.
2.	Objectives of NRCP
	 To establish a system for monitoring the residues of Aquaculture drugs/VMPs and Environmental contaminants etc. in shrimp, scampi, fresh water fish, hatchery seed and feed samples drawn from aquaculture farms, feed mills and hatcheries. To establish a system of corrective action in the event of detection of residues/contaminants higher than the prescribed limits. To ensure that the aquaculture products exported from India meet the prescribed regulatory requirements of the importing countries / European Union (EU)/ Great Britain (GB).
3.	Scope of NRCP
	All aquaculture farms, feed-mills and hatcheries linked to and/or intended for export oriented production of aquaculture products and the testing and certifying laboratories are covered under the NRCP, in order to ensure an overall monitoring of the aquaculture products at different stages of production to guarantee safe products from farm to table.
4.	Implementation of NRCP
	By exercising the powers under the Export (Quality Control & Inspection) Act, 1963, Ministry of Commerce and Industry (Govt. of India), amending the Notification S.O. 730(E) dated 21.08.1995, vide notification No. S.O. 1034(E) dated 09.09.2003, designated the Marine Products Export Development Authority (MPEDA) to carry out the residue monitoring on behalf of Export Inspection Council (EIC), the Competent Authority.
5.	Aquaculture in India
	India is one of the largest suppliers of shrimp to the world and ranks 2 nd highest in aquaculture production in the global scenario. The pollution free waters along the 8118 km long Indian coastline, 1.24 million hectares of brackish water area and 5.4 million hectares of fresh water area contribute to the aquaculture (Handbook on Fisheries Statistics, 2020, Ministry of Fisheries,

Animal Husbandry & Dairying, Govt. of India).

In India, the aquaculture constitutes mainly freshwater and brackish water culture and is practiced in the 9 maritime states of India. Andhra Pradesh is the leading state of aquaculture which produces about 77.55% of the total cultured crustaceans (Litopenaeus vannamei, Penaeus monodon and Macrobrachium rosenbergii) in India. Species-wise aquaculture production through inland and brackish water culture is given in Table-1 below.

Presently, L. vannamei and P.monodon are the main species cultured in brackish water. This forms the bulk of shrimp exports to EU/GB and other countries.

5.1 Brackish water / Fresh water Shrimp/Prawn culture

Table - 1

Name of species	Production (M/T)
Shrimp (L. vannamei, P. monodon & P. indicus)	10,17,012
Scampi (Macrobrachium rosenbergii)	21,317
Total	10, 38, 329

Source: MPEDA, 2021 -22

5.2 Details of State-wise production of brackish water shrimp & freshwater prawn (Scampi) during 2021-22:

Among the maritime states, most of the aquaculture activities are concentrated in Andhra Pradesh. The other leading states in aquaculture production are West Bengal, Gujarat, Tamil Nadu and Odisha (MPEDA, 2021-22). The aquaculture production of crustaceans (shrimp & scampi) in the country is given in Table-2 below.

Table = 2

State	L. vannamei& P. monodon	%	M. rosenbergii (Scampi)	%	TOTAL Production (MT)	
	Production(MT)	(production)	Production(MT)	(production)		
Andhra Pradesh	7,88,707.60	77.55	13,398.5	62.85	8,02,106.10	
Gujarat and Daman & Diu	60,159	5.92	1,420	6.66	61,579	
Karnataka & Goa	2,089	0.21	0	0.00	2,089	
Kerala	1,820.20	0.18	0	0.00	1,820.20	
Maharashtra	4,776.50	0.47	2,415.28	11.33	7,191.78	
Odisha	50,661	4.98	976	4.58	51,637	
Tamil Nadu	39,203.70	3.85	70	0.33	39,273.70	
West Bengal	69,595	6.84	3,037	14.25	72,632	
Total	10,17,012		21,317		10,38,329	

5.3 Details of State-wise production of freshwater fish during 2021-22:

Among the maritime states, most of the aquaculture activities are concentrated in Andhra Pradesh. The other leading states in aquaculture production are Tamil Nadu, West Bengal, and Maharashtra (MPEDA, 2021-22). The aquaculture production of Fishes (Seabass, Tilapia, Pangasius) in the country is given below:

State	Fishes (Seabass, Tilapia, Pangasius) Production(MT)	% (production)
Andhra Pradesh	2,06,371.52	93.86
Gujarat and Daman & Diu	664.00	0.30
Karnataka & Goa	3.00	0.00
Kerala	470.79	0.21
Maharashtra	6,630.28	3.02
Odisha	271.00	0.12
Tamil Nadu	3,895.50	1.77
West Bengal	1,556.00	0.71
Total	2,19,862.00	

5.4 Enrollment of Aquaculture Farms by MPEDA:

In order to identify the aquaculture farms producing material for export intended production, the aqua farms producing shrimp, are enrolled by MPEDA. The details of aqua farms were collected through special campaigns conducted in the farming clusters by representatives of MPEDA. The information collected is digitized into several attributes of aqua farms database. Each farm enrolled is physically verified to obtain the Geo-spatial information through capturing co-ordinates of the aqua farm with the help of GPS instrument and the centroid of the farm is created by its latitude and longitude. Other required details/information on the farms is also collected by the representative of MPEDA. Each farm enrolled is recognized by a unique identification number of 8 characters.

5.5 Aquaculture Farms, Feed-mills & Hatcheries

The number of aquaculture farms, hatcheries enrolled with MPEDA and the functional feed-mills manufacturing aqua feeds are as shown in Table-3 below.

Table: 3

Region/State	Farms	Feed-mills (functional)	Shrimp Hatcheries (functional)	
Andhra Pradesh	50,440	23	187	
Chattisgarh	+	1	_	
Gujarat	1,283	2	4	
Karnataka & Goa	562	-	-	
Kerala	2,478	•	12	
Maharashtra	427	-	**	
Odisha	8,059	1	4	
Tamil Nadu	2,663	4	52	
West Bengal	12,781	4	1	
Total	78,697	35	260	

5.6	Export of Aquaculture Products (Shrimp and Fish) by EU/GB approved export establishments:
	During the year 2021-22, a total quantity of 7,28,123MT of aquaculture shrimp/products and 3,890MT of fresh water fish/products exported by EU/GB approved establishments to EU/GB and non-EU countries.
6.0	National Residue Monitoring in India
	There are 705 land based processing establishments in India. Of which, 428 and 447 establishments have been approved for processing of fish and fishery products to EU and GB respectively. In addition, 69 and 71 independent cold storages are also approved for storage of fish and fishery products for export to EU and GB respectively.
	Compliance with the Hazard Analysis and Critical Control Point (HACCP) system has been made mandatory for all seafood processing units in India.
	The residue control plan for aquaculture animal is implemented since 1998 in India, presently complying with Regulation (EU) 2017/625 of the European Parliament and of the Council of 15 March 2017 and Regulation (EU) 2022/1644 of 7 July 2022 to ensure the safety of aquaculture products exported to member states of the European Union/GB.
	National Residue Control Plan (NRCP) is prepared on a risk basis, the criteria for selecting specific combinations of substance groups is based on Annex II to Commission Delegated Regulation (EU) 2022/1644 for both group A and group B. The criteria considered for contaminants are based on Annex I to Commission Delegate Regulation (EU) 2022/931, and for pesticides, the criteria considered are outlined in Article 1 of Commission Implementing Regulation (EU) 2021/1355.
	Substances like Chloramphenicol, Nitrofurans and it's metabolites, Nitroimidazoles, Stilbenes, Steroids, Tetracyclines, Sulphonamides, Quinolones/Fluroquinolones, Anthelmintics, Organochlorine Pesticides, PCBs, Dioxins, Heavy Metals, Dyes, etc. are monitored under NRCP.
7.0	Organizations associated with the implementation of NRCP:
	The Export Inspection Council (EIC) set up under Section 3 of the Export (Quality Control and Inspection) Act 1963, is the Competent Authority (CA) for inspection and quality control of fish and fishery products meant for exports.
7.1	Registering authorities for aquaculture farms:
	As per provision made in notification no. S.O. 497(E) dated 10.3.2011, the Competent Authority has recognized CAA, MPEDA & State Fisheries Authorities for registering the aquaculture farms.
7.2	The Marine Products Export Development Authority (MPEDA), a statutory body under Ministry of Commerce & Industry (Govt. of India) was constituted by the Marine Products Export Development Authority Act No 13 / 1972, to promote the production and export of marine products.
	Following are the major functions of MPEDA: 1. Registration of exporters, processing establishments, storage premises & fishing vessels.

	 Quality up-gradation and modernization of marine products industry. Development of infrastructure facilities. 							
	4. Implementation of residue monitoring/control programmes such as NRCP (as per EC							
	Regulation 2017/625 & 2022/1644), Monitoring of Pesticide Residue at National Level (MPRNL) etc.							
	5. Enrolment of farms, hatcheries & feed-mills intended for export linked production in							
	order to ensure the code of practices for producing quality aquaculture products, hatchery seeds & aqua feed.							
	6. Promotion of export of marine products from the country to different international							
	markets. 7. Guidance to farmers to adopt good management practices for sustainable aquaculture.							
7.3	NRCP laboratories							
	The MPEDA has set up a network of 5 (five) Quality Control Laboratories at Kochi, Bhimavaram, Nellore, Bhubaneswar & Porbandar, are involved in implementation of the National Residue Control Plan for aquaculture products, as per EU Regulation 2017/625 and its subsequent amendments.							
	In addition to above, Export Inspection Agency-Chennai laboratory shall be utilized for testing the parameters like dioxin and furans.							
7.3.1	MPEDA Quality Control Laboratory, Kochi (Cochin)							
	MPEDA House – 5 th Floor, Panampilly Avenue, Cochin – 682 036, Kerala, India. Tel.91-484- 2321811 / 2311033. Fax.91-484-2313361, E-mail: lab.koc@mpeda.gov.in							
7.3.2	MPEDA Quality Control Laboratory, Bhimavaram							
	27/1/6 - Pattabhi Plaza, 2nd floor, Juvalpalem Road, Bhimavaram-534 202, West Godavari Dist. Andhra Pradesh,							
	Tel: 91-8816-226410 / 227076. E-mail: <u>lab.bhi@mpeda.gov.in</u>							
7.3.3	MPEDA Quality Control Laboratory, Nellore							
	D.No.26-1766/A-1, Srinagar colony, Mini Bypass Road,							
	Nellore- 524 003, Andhra Pradesh.							
	Tel: 91-861- 2319144 / 2319344 E-mail: <u>lab.nel@mpeda.gov.in</u>							
7.3.4	MPEDA Quality Control Laboratory, Bhubaneswar							
	2 nd Floor, Raptani Bhavan, Near ID Market, IRC Village, Nayapalli, Bhubaneswar-751 015,							
	Odisha							
	Tel: 91-674-2362365, E-mail: <u>lab.bhu@mpeda.gov.in</u>							
7.3.5	MPEDA Quality Control Laboratory, Porbandar							
	2 nd Floor, SHANTI Complex, 3, Wadi Plot, Opp: TACON Complex, Porbandar- 360575, Gujarat, Tel: +91 286 2210074, E-mail: <u>lab.por@mpeda.gov.in</u>							

726	Ermont Inspection Agency Change Ishanatawy
7.3.6	Export Inspection Agency-Chennai laboratory
	Export Inspection Agency-Chennai, 6th Floor CMDA Tower II, No: 1, Gandhi Irwin Road, Egmore, Chennai - 600 008, Tel: +91-44 - 2855 2841 / 42 Fax: +91-44 - 2855 2840 E-mail: eia-chennailab@eicindia.gov.in
8.0	Level of competence of the MPEDA Laboratories and EIA-Chennai Laboratory involved in residue monitoring:
	The MPEDA QC Laboratories and EIA-Chennai Laboratory are equipped with high precision sophisticated equipments like Liquid Chromatography Tandem Mass Spectrometer (LC-MS/MS), Inductively Coupled Plasma - Mass Spectrometer (ICP-MS), Atomic Absorption Spectrometer (AAS), High Performance Liquid Chromatograph (HPLC) with PDA, FLD detectors, Gas Chromatograph (GC-ECD), Gas Chromatograph - Mass Spectrometer (GC-MS/MS), Automatic ELISA Analyser etc. and all necessary supporting equipment/instruments. The EIA-Chennai Laboratory is also equipped with the GC-HRMS.
8.1	Accreditation / approvals of Laboratories:
	MPEDA QC Laboratories & EIA Chennai Laboratory are accredited by accreditation body of India which is member of International Laboratory Accreditation Co-operation (ILAC), as per the ISO/IEC 17025:2017 Standard.
	The scope of accreditation covers testing of fish and fishery products for chemical residues. The Laboratories are also approved by the Export Inspection Council for testing of fish and fishery products intended for export.
8.2	Proficiency Test & Inter-laboratory comparisons:
	MPEDA QC Laboratories & EIA Chennai Laboratory participate regularly in Proficiency Testing programmes organized by international PT providers like FAPAS (CSL), LGC Promochem, UK, Test Veritas, EIA Laboratories and other PT providers in India for compliance to ISO 17043 to prove the competency in testing of various parameters under the scope of accreditation.
	The Laboratories have successfully participated in the PT programmes for analysis of Chloramphenicol, Nitrofuran metabolites, Tetracyclines, Quinolones, Sulphonamides, Beta-lactams, Chemical Elements, Organochlorine Pesticides, Dioxin like PCBs, PCBs, Anthelmentics and Dyes etc. and also regularly organize as well as participate in Inter-laboratory Testing/Comparison programmes.
9.0	Personnel responsible for collection of samples:
	The MPEDA has a number of field offices (Regional/Sub-regional Divisions) located in different maritime states of India where the aquaculture is carried out. The Residue Monitoring Officers of MPEDA field offices (who are designated for sample collection and other field/follow up activities related to NRCP) at different regions visit the farms, hatcheries and feed mills and collect the targeted samples as per the monthly target/schedule assigned to different regions/states and forward the same to the laboratories of MPEDA at Cochin, Nellore, Bhimavaram, Bhubaneswar and Porbandar. The sampling official, records the nature, source, the date and place of sampling and other relevant information.

Trainings/work-shops are conducted for the Residue Monitoring Officers every year to evaluate the implementation of NRCP with regard to sampling procedure and strategies, collection of samples & follow-up samples, follow-up action, etc.

10.0 | Sampling Strategy:

(As per Annex-I of EU Commission Regulation 2022/1646 – for Group A, Group B, Pesticides and other Contaminants)

- (i) Shrimps (Litopenaeus vannamei, Penaeus monodon & P. indicus), Scampi (Macrobrachium rosenbergii) and Fin-fishes: one sample per 300 tons of annual production of aquaculture for the first 60,000 tons of production and then one additional sample for each additional 2,000 tons (for Group A&B substances)
- (ii) For the group Pesticides and Contaminants: Followed risk based sampling i.e. one sample per 2,000 tons of production.
- (iii) Feed samples: One sample per two registered feed-mill (50%).
- (iv) Hatchery sample (Shrimp seed): At least one sample from each hatchery under operation.

10.1 Number of Aquaculture Samples to be collected and analyzed under NRCP 2023:

Table-4

Type of sample	No. of registered / Enrolled Farms	Aqua-culture Production (M/T) (2021-22)	No. of samples to be analysed	Criteria for sampling
1. Crustaceans (i) L. vannamei (ii) P. monodon (iii) P. indicus & (iv) M. rosenbergii		10,38,329	2424	1 sample per 300 tor of annual production of aquaculture for the first 60,000 tons of production and then additional sample for
2. Freshwater Fin-fishes (i) P. pangasius (ii) O. niloticus (iii) L. calcarifer	78,697	2,19,862	836	each additional 2,00 tons (Group A&B) Followed risk base sampling for contaminants. (sample per 2,000 ton of production.
		Total samples	3260	1

Total

700

271

	<u> </u>	T		Break up of samples to be tested						
	Type of Sample			of Group A substances s	Group B substances	Organo chlorina Pesticide		i i	Heavy Metals	Total
		tested	i							
	l. Crustaceans (i)Shrimp	235	54	664	674	509		166	341	2354
	(ii) Scampi	7(9	27	17	12		5	9	70
	2. Fin-fishes	83	6	280	280	110		83	83	836
	Total	320	60	971	971	631		254	433	3260
-	NRCP 2023 -	Break	up of	samples fo	r analysis o	f Group A	subst	ances	1	
	Type of Sample	A1c Stero ids	A2a Chlor m pheni ol	a A2b Nitrof	A2c Nitro imidazol es	other A2 substan ces	A3a Dye s	Protection products & biocides	unathor ised antimic robials	es fo Gro p A Sub
	Aquaculture Crustaceans		250	250	51	35	35	35	35	691
	Aquaculture Fin-fishes	15	80	80	25	15	25	15	25 -	280
	Total	15	330	330	76	50	60	50	60	971
.4	NRCP 2023 Pesticides:	- Breal	k up o	f samples	for Analysi	s of Grou	ıp B s	ubstances, C	ontamina	nts an
	Table – 7					····				
	Type of Sample		roup E Bla Anti crobials	3 substance B1t Anth minti	Or el chlo	gano rinated pounds	РСВ	mtaminants Heavy Metals (As, Pb, Hg & Ca		otal
	Aquaculture Crustaceans		500	191		521	171	350	17	33
	Aquaculture Fin-fishes		200	80	1	10	83	83	5:	56

254

631

433

2289

10.5 NRCP 2023 - Number of Feed Samples to be monitored: Hatchery and Feed Samples:

Table - 8

Sl no.	Item	Parameter	No. of Hatcheries / Feed-mills in operation	No. of samples to be analysed	Criteria for sampling
. 1	Feed	NF + CAP	35	18	Samples from 50% of registered feed mills
2	Hatchery Seed	NF + CAP	260	260	Samples from 100% of operational Hatcheries

10.6 Total number of Samples proposed under NRCP 2023:

Table - 9

Sl no.	Item / species	No. of Samples to be tested by MPEDA Labs
	Crustaceans	2254
, 1	(i)Shrimp (L. vannamei / P. monodon/ P indicus)	2354
	(ii) Scampi (M. rosenbergii)	70
2	Fresh water Fin-fishes (i) P. pangasius (ii) O. niloticus (iii) L. calcarifer	836
	Sub Total	3260
3	Hatchery seed	260
4	Feed	18
	Sub Total	278
GRAN	D TOTAL	3538

11.0 Collection and transportation of samples

500gms of samples (whole prawns/fish) shall be taken from farms for analysis. In case of samples from hatchery, 20 to 25 gm of juveniles (excluding water) are collected from the larval and post-larval rearing tanks in polythene bags, officially sealed using tamper proof seal and transported in thermocol box packed with dried/ wet ice. In case of feed, 500 gms of feed samples are taken in polythene bags from farms and feed mills.

Shrimp/fish samples collected in polythene bags and covered in aluminum foil, affixed with code numbers, to maintain sample integrity and traceability. The container / packing must be officially sealed with tamper proof seal and packed in thermocol boxes are dispatched along with the sampling report, with sufficient dry ice in the case of long duration transport and with wet ice in the case of short distance transport.

The samples are forwarded to the concerned laboratories within 3 days of its collection so as to reach MPEDA Laboratories within 30 hours (transit time) of its dispatch.

Instructions issued to the field offices of MPEDA on sample collection, packing & transportation and follow-up action to be taken on residue positive samples. (Annexure-5)

12.0 Handling of sample in the Laboratory

Immediately on receipt, the samples are decoded and stored in deep freezer at -18° C ($\pm 2^{\circ}$ C). The samples are then homogenized and divided into two equal portions and stored in deep freezer. One portion is used for the analysis, while the remaining portion is retained in the deep freezer.

The samples are analyzed by the respective laboratories at the earliest not more than 15 days from the receipt of the samples. If the initial test shows positive, the remaining sample will be tested for confirmation of the results. The samples are disposed only on completion of 90 days after analysis.

The test reports are received by the Field Offices & EIAs electronically (online).

13.0 Alert information, communication of results & measures taken in the event of infringement:

- a) In the case of positive test results (non-compliant samples), the alert information along with test results is transmitted to the concerned field offices of MPEDA, EIA and Coastal Aquaculture Authority (CAA)*.
- b) On receipt of such information EIA, MPEDA and CAA* shall undertake the joint inspection of the facility to trace the origin / source of contamination.
- c) The EIA, MPEDA and CAA officials collect follow up samples from the same premises for the further analysis at MPEDA laboratory. A joint inspection report shall be prepared & be available at EIA, MPEDA and CAA*.
- d) If the sample is found positive, on repeated analysis the results shall be communicated by MPEDA to EIAs/CAA* and the defaulting facility will be issued show cause notice by EIAs/CAA*.
- e) Based on the reply received from the facility, the EIA shall take the action as deemed fit. In case of hatcheries falling under jurisdiction of CAA*, shall take actions as deemed fit as per the provisions of the CAA Act.
- f) A monthly summary of the samples drawn, tested and results (including positive and negative), shall be communicated to the Competent Authority by MPEDA.
- g) EIAs shall send the monthly report of action taken on non-compliance results to EIC. CAA* shall inform the outcome of the investigation to the EIA and MPEDA.
- h) The farms reported with non-compliant results are subjected to more stringent checks for a period of at least twelve months by EIAs.
- i) A Committee headed by the In-charge of the EIA reviews regularly the non-compliant (residue positive) cases for appropriate follow-up guidelines and actions.
- *In case of positive test results (non-compliant samples) from the hatcheries falling under the jurisdiction of CAA.

	Group A Substances						
	Substance group	Substances	Substance monitored	RPA /MMPR			
	Alc	Steroids	Progesterone	No limits established			
			MedroxyProgestrone (acetate)	<i>ММРR</i> - 1 µg/kg			
	:		17-β Oestradiol	<i>MMPR</i> - 1 μg/kg			
			17-alpha-methyl Testosterone	<i>MMPR</i> - 1 μg/kg			
	A2a	Chloramphenicol	Chloramphenicol	RPA: 0.15 μg/kg			
ļ	A2b	Nitrofurans	Nitrofuran Metabolites (AOZ, AMOZ, SEM, AHD & DNSH)	RPA: 0.5 μg/kg (each metabolite)			
			Nitrofurans (parent compounds, in case of feed samples)	No limits established			
	A2c	Nitroimidazoles	Nitroimidazoles (Metronidazole, Dimetridazole&Ronidazole, Ipronidazole and their hydroxyl compounds)	MMPR- 1.0 μg/kg (each compound)			
	A2d	other A2 substance	Dapsone	MMPR - 1 μg/kg			
	A3a	Dyes	Malachite Green and Leucomalachite Green	RPA: 0.5 µg/Kg (sun			
	·		Crystal Violet and Leucocrystal Violet	MMPR $-0.5 \mu g/Kg$			
:	A3b	Protection products & biocides	2,5-dichlorobenzoic acid methyl ester (sum of 2,5- dichlorobenzoic acid and its ester)	MRL-10 μg/kg* as po EU Regulation 396/2005			
	A3c	Other unathuorised	Norfloxacin	No limits established			
-		antimicrobials	Nalidixic acid	No limits established			
-			Cefalexin	No limits established			
L	·	<u> </u>	Cefapirin	No limits established			

** Working Limit (ALARA) is determined by each Lab

Bla	Antimicrobials		MRL
		Oxolinic acid	100 μg/kg
	1. Quinolones/	Difloxacin	300 μg/kg
	Fluoro-quinolones	Sarafloxacin	30 μg/kg
		Enrofloxacin (sum of Enrofloxacin& Ciprofloxacin)	100 μg/kg
		Danofloxacin	100 μg/kg
		Flumequine - Fin-fish	600 μg/kg
		Flumequine - Other species	200 μg/kg
	2. Tetracyclines	Tetracycline & its 4-epimer	100 μg/kg
		Oxytetracyline& its 4-epimer	100 μg/kg
		Chlortetracycline & its 4-epimer	100 μg/kg
	·	Doxycycline	100 μg/kg
	3. Sulfonamides	Sulfadiazine, Sulfamethoxazole, Sulfamethoxypyridine, Sulfamethizole, Sulfamethazine, Sulfamerazine, Sulfapyridine, Sulfadimethoxine, Sulfachloropyradizine, Sulfathiazole, Sulfadoxine	100 μg/kg (MRL - sum of al Sulfonamides)
	4. Macrolides	Erythromycin A	200 μg/kg
		Tilmicosin	50 μg/kg
		Tylosin	100 μg/kg
		Spiramyein	No MRL
	5 Deta Lagrana	Lincomycin	(Reporting > LOQ) 100 µg/kg
	5. Beta Lactams		
		Ampicillin	50 μg/kg
		Benzyl Penicillin	50 μg/kg
		Dicloxacillin	300 μg/kg
		Oxacillin	300 μg/kg
		Cloxacilin	300 μg/kg
		Amoxicillin	50 μg/kg
	6. Polypeptides	Colistin A & B	150 μg/kg
	7. Diaminopyramidines	Trimethoprim	50 μg/kg
	8. Aminoglycosides	Neomycin B	500 μg/kg
		Spectinomycin	300 μg/kg
B1b	Anthelmintics	Emamectin	100 μg/kg
		Ivermectin	No limits establishe

Pesticides:

Pesticides	Organochlorine compounds	Substances monitored	MRL
		αBHC	
		β ВНC	
	ļ	γ ВНС	
		Aldrin	
•		2,4 DDT	
		4,4 DDT	
		2,4 DDE	
		4,4 DDE	Default MRL of 0.0
		2,4 DDD	mg/kg for each compound (as per
		4,4 DDD	EU Regulation
		Heptachlor	396/2005)
		Heptachlor Epoxide	
		Dieldrin	
		Endrin	
		НСВ	
		Cis-Chlordane	
		Trans-Chlordane	
		Oxy-Chlordane	

** Working Limit (ALARA) is determined by each Lab

Contaminants:

Contaminants	Substances monitor	ed	ML.
Halogenated persistent organic	PCBs PCBs (PCB 28, PCB 52, PCB 101, PCB 138, PCB 153, PCB 180)		0.075 mg/kg (sum of PCBs)
pollutants	Dioxins/Furans and dioxin like PCBs	Dioxins / Furans (17 compounds) & dioxin like PCBs (12 compounds)	Sum of all Dioxins (WHO-PCDD/F-TEQ 3.5pg/g and Sum of all Dioxins & dioxin like PCBs (WHO-PCDD/F-TEQ 6.5 pg/g
Metals	Chemical Elements	Mercury Cadmium (Crustaceans) -do- (Fish muscle)	0.5 mg/kg 0.5 mg/kg 0.05 mg/kg
		Arsenic (Fish muscle) Lead (Crustaceans) -do- (Fish muscle)	No ML* 0.5 mg/kg 0.3 mg/kg

15.0 DETAILS OF ANALYTICAL METHODS

Unless otherwise mentioned elsewhere the methods described in the Manual/Journal of Association of Official Analytical Chemists and methodology followed in the EU Community Referral Laboratories (CRLs) are followed using the equipment mentioned against the substances as given below.

Group as per Directive	Residue	Technique	3
A1c (Steroids)	Progesterone Medroxy Progestrone (acetate) 17-β Oestradiol 17-alpha-methyl Testosterone	Liquid Chromatography Tandem Mass Spectrometry	
A2a Prohibited substances listed in Table 2 of the Annex to Regulation (EU) No 37/2010 -Chloramphenicol	Chloramphenicol	Liquid Chromatography Tandem Mass Spectrometry	
A2b Prohibited substances listed in Table 2 of the Annex to Regulation (EU) No 37/2010 - Nitrofurans	Nitrofuran Metabolites (AOZ, AMOZ, SEM, AHD & DNSH) Nitrofurans (parent compounds, in case of feed samples)	Liquid Chromatography Tandem Mass Spectrometry	
A2c Prohibited substances listed in Table 2 of the Annex to Regulation (EU) No 37/2010-itroimidazoles	Nitroimidazoles (Metronidazole, Dimetridazole & Ronidazole , Ipronidazole and their hydroxyl compounds)	Liquid Chromatography Tandem Mass Spectrometry	
A2d Pharmacologically active substances, not listed in Table 1 of the Annex to Regulation (EU) No 37/2010 - other A2 substance	Dapsone	Liquid Chromatography Tandem Mass Spectrometry	
A3a Dyes	Malachite Green and Leucomalachite Green Crystal Violet and Leucocrystal Violet	Liquid Chromatography Tandem Mass Spectrometry	
A3b Protection products & biocides	2,5-dichlorobenzoic acid methyl ester (sum of 2,5- dichlorobenzoic acid and its ester)	Liquid Chromatography Tandem Mass Spectrometry	
A3c Other un-authorized antimicrobials	Norfloxacin Nalidixic acid	Liquid Chromatography Tandem Mass Spectrometry	

Group as per Directive	Residue	Technique	Equip
B1a Antimicrobials 1. Quinolones/ Fluoro-quinolone	Oxolinic acid Difloxacin Sarafloxacin Enrofloxacin (sum of Enrofloxacin & Ciprofloxacin) Danofloxacin Flumequine	Liquid Chromatography Tandem Mass Spectrometry	LC- MSM
2. Tetracyclines	Tetracycline & its 4-epimer Oxytetracyline & its 4-epimer Chlortetracycline & its 4- epimer	Liquid Chromatography Tandem Mass Spectrometry	LC- MSM
3.Sulfonamides	Sulfadiazine, Sulfamethoxazole, Sulfamethoxypyridine, Sulfamethizole, Sulfamethazine, Sulfamerazine, Sulfamerazine, Sulfapyridine, Sulfadimethoxine Sulfachloropyradizine, Sulfathiazole, Sulfadoxine	Liquid Chromatography Tandem Mass Spectrometry	LC- MSM
4. Macrolides	Erythromycin A Tilmicosin Tylosin	Liquid Chromatography Tandem Mass Spectrometry	LC- MSM:
5. Beta Lactams	Lincomycin Ampicillin Benzyl Penicillin Dicloxacillin Oxacillin Cloxacilin Amoxicillin	Liquid Chromatography Tandem Mass Spectrometry	LC- MSM
6. Polypeptides	Colistin A & B	Liquid Chromatography Tandem Mass Spectrometry	LC- MSMS
7.Diaminopyramidines	Trimethoprim	Liquid Chromatography Tandem Mass Spectrometry	LC- MSMS
8. Aminoglycosides	Neomycin-B, Spectinomycin	Liquid Chromatography Tandem Mass Spectrometry	LC- MSMS
B1b Anthelmintics	Emamectin Ivermectin	Liquid Chromatography Tandem Mass Spectrometry	LC- MSMS

	Pesticides Organochlorine compounds	α BHC, β BHC, γ BHC, Aldrin, 2,4 DDT, 4,4 DDT, 2,4 DDE, 4,4 DDE, 2,4 DDD, 4,4 DDD, Heptachlor, Heptachlor Epoxide Dieldrin, Endrin, HCB, Cis- Chlordane, Trans-Chlordane, Oxy-Chlordane	Gas Chromatography Tandem Mass Spectrometry	GC MSMS		
	Contaminants Halogenated persistent organic pollutants PCBs	PCBs (PCB-28, PCB-52, PCB-101, PCB-138, PCB- 153, PCB-180)	Gas Chromatography Tandem Mass Spectrometry	GC – HRMS /GC- MSMS		
		Dioxins / Furans (17 compounds) & dioxin like PCBs (12 compounds)	Gas Chromatography Tandem Mass Spectrometry	GC – HRMS /GC- MSMS		
	Heavy Metals: Chemical Elements	Mercury Cadmium Lead Arsenic	Inductively Coupled Plasma-Mass Spectrometry	ICP MS		
16.0	Non-compliant (residue)	positive) samples of NRCP 2022				
16.1	Shrimp, Scampi & Fin-fi					
		st the target/plan of 8551 samples	s (shrimp, scampi and fin-	fishes), a total		
	of 9151 samples were anal	yzed.				
	1	iant (residue positive) samples d Z) (shrimp: 05 + scampi: 0 + fin-		oup-A6 due to		
16.2	Feed & Hatchery Sample	es:				
	In case of hatchery seed and feed samples, against the target/plan of 18 feed and 260 hatcher samples, 19 feed and 306 hatchery samples were analysed. The number of non-compliant sample were, feed: nil and hatchery: 34 (Gr. A6 (CAP/NF (AOZ)).					
	Details of the non- compl	iant samples are given at Anne	xure- 4A, 4B & 4C			
		स्तिविक्षण	A			



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Dr. M. Balaji Joint Secretary, Department of Commerce & Director (Insp. & Quality Control) Export Inspection Council 18 April 2023

Note	Annex-1
1	INSTRUCTIONS
	For each commodity for which the country is already listed in Annex -I to Regulation (EU) 2021/405, or for which residue plan approval and listing is sought, the competent authority is requested to fill in four templates for Group A substances, Group E substances, pesticides and contaminants. There are 60 (numbered) templates in this Excel file and these are listed for ease of reference in tab b. of this file along with a hyperlink which will take you straight to the template in question.
	Numerical data should only be included for those commodities currently being exported to the European Union (EU) or which the third country intends to export to the EU. Numerical data (i.e. production figures - for automatic calculation of sample numbers - see note 2 below - and planned sample numbers for each substance group) should be entered in those cells shaded light yellow.
2	The tables are set up to calculate the required sample numbers for Group A and Group B on the basis of the sampling frequencies laid down in Annex I to Commission Implementing Regulation (EU) 2022/1646 (and included in this Excel file in tab d.). For contaminants the basis for sample number calculation is Annex I to Regulation (EU) 2022/932. For pesticides, no minimum frequency of sampling is laid down in EU legislation (Regulation (EU) 2021/1355).
3	Data in cells shaded light blue are automatically calculated when the production data cell (Cell \$C\$7) is completed (Cell \$B\$7 for contaminants). The total minimum number of samples is displayed in cell \$C\$9 shaded blue (cell \$B\$9 for contaminants).
j	It is important that for those countries where animals and products from any farm are eligible to be exported to the EU, the proportion of animals sampled should be taken relative to the annual national production figures. In this case the annual national production data should be entered in cell \$C\$7 (or cell \$B\$7 for contaminants).
	For those countries where only a defined population of animals are eligible for export to the EU, and where there is a system in place guaranteeing that only those animals from those farms are eligible for export (i.e. a split or segregated system), the proportion of animals sampled is relative to that defined (sub)population. In this case the production data entered in cell \$C\$7 (or \$B\$7 for contaminants) is either the total number of animals slaughtered or the total throughput in tonnes of the EU-approved establishments. Playmand logically active the entered in the EU.
4	Pharmacologically active substances are divided into two main substance groups - Group A and Group B - and are listed in Annex I to Commission Delegated Regulation (EU) 2022/1644 (and included in tab c. of this Excel file for ease of reference). The substance subgroups within Group A which must be included in the risk based plan for each commodity are laid down in Annex II to Commission Delegated Regulation (EU) 2022/1644 (and included in tab e. of this Excel file for ease of reference). For Group B, it is left to the discretion of the competent authority to decide which of the sub-groups listed in Annex I to Regulation (EU) 2022/1644 are included in the plan on the basis of their risk-assessment. The criteria for substance selection are described in Point A of Annex II to Regulation (EU) 2022/1644 for Group A and Point B of Annex II B to said Regulation for Group B.

	For pesticides and contaminants the selection of analytes to be tested for should be on the basis of risk. The list of tested pesticides should be representative of the pesticides used in the third country. Particular attention should be paid to those pesticides which are authorised in the third country but which are not authorised in the EU.
	For contaminants, the combination of contaminant groups per commodity are specified in Annex I to Regulation (EU) 2022/931. The selection of contaminants should take into account the risks from animal feed and the environment, as well those contaminants for which maximum limits have been set in the EU for edible products of animal origin.
5	Matrices are typically edible tissues and materials (e.g. muscle, liver, kidney, fat, milk, honey, eggs) for substances for which an EU Maximum Residue Limit (MRL) has been established (Group B substances). This is also the case for testing for pesticides and contaminants for which EU Maximum Residue Levels (MRLs) and Maximum Levels (MLs) have been established, respectively. For substances which do not have MRLs (e.g. banned Group A substances) non-edible materials are preferable for testing (e.g. urine, blood, bile, faeces, hair) because testing these matrices maximizes the chances of detecting the abuse or misuse of the substances concerned.
	Methods: for screening and confirmatory methods, please indicate whether they are validated (i.e. demonstrated to be fit for the intended purpose) and enter the analytical principle of method (Examples include ELISA, TLC, plate test [microbial growth inhibition test] for screening and HPLC-UV, HPLC-FL, HPLC-DAD, HPLC-DAD, GC-MS, GC-MS/MS, LC-MS/MS for confirmation, AAS and ICP-MS for metals, GC-MS for pesticides etc).
6	Typically the limit of detection (LoD) of a screening test should be set at 50% of the MRL, if one is established. The LoD of the confirmatory test should always be lower than the MRL. If the confirmatory method LoD exceeds the MRL, the method is not fit for purpose. The level of action is usually the MRL (if there is an MRL) or, for a banned substance, any detectable concentration of the substance at which regulatory and enforcement action would be taken by the competent authority. The European Union Reference Laboratories have established non-binding Minimum Method Performance Requirements (MMPRs) for the detection of banned substances and third countries should strive to meet these. The latest document on MMPRs is available at: https://sitesv2.anses.fr/en/minisite/eurl-fougeres/mmpr-%E2%80%93-eurl-guidance-eurl-guidance-minimum-method-performance-requirements
7	To expedite the assessment of the plans for Group B substances, pesticides and contaminants, competent authorities should list both their national MRL/ML for each analyte (if established) and the corresponding EU MRL/ML (if established). [This is not required for the Group A plan since there are no EU MRLs in place for those substances as they are banned from use in food-producing animals; any confirmed concentration is deemed to be non-compliant]. - For pharmacologically active substances (veterinary medicines), MRLs are laid down in Table 2 of the Annex to Regulation (EU) No 37/2010. - For coccidiostat residues in non-target species due to carry over in feed, Regulation (EC) No 124/2009 lists the applicable MRLs.

- EU MRLs for pesticides are laid down in Regulation (EC) No 396/2005.

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- EU MLs for contaminants are laid down in Regulation (EC) No 1881/2006.

In cases where the national MRL/ML is much greater than the EU MRL/ML, the competent authority should inform those food business operators who are eligible to export food to the EU about those differences and advise them that any detection of a residue above the EU MRL/ML at the EU border would result in rejection of the consignment. If testing carried out under the residue control plan identifies cases where an EU MRL/ML is exceeded (but the result complies with a national MRL/ML), the competent authority should inform the operator. It is the responsibility of the operator to take the necessary steps to ensure that the non-EU compliant consignment does not enter the EU food chain.

Detailed guidance on residue controls can be found on the website of the European Commission at the following hyperlink:

https://food.ec.europa.eu/system/files/2023-02/cs vet-med-residues animal-imports-non-eu brochure en 3.pdf

Annexure 1A-Substance groups A & B

		See Annex I to Regulation (EU) 2022/1644		See Annex I to Regulation (EU) 2022/1644		
Gra	oup A	Prohibited or unauthorised pharmacologically active substances in food-producing animals	Group B	Pharmacologically active substances <u>authorised</u> for use in food-producing animals		
	٠.	Substances with hormonal and thyrostatic action and beta agonists the use of which is prohibited under Council Directive 96/22/EC:		Pharmacologically active substances listed in Table 1 of the Annex to Regulation (EU) No 37/2010 (1)		
	(a)	Stilbenes;	(a) (a) (a)	Antomicrobiblisubstances (1921) 1881 1881 1881		
1	(b)	Antithyroid agents;	1. 1. (e) t	Insecticides nungicides anchelia inclusionis etheranciparasicis agains, e		
. [(c)	Steroids;	2 77 (0)	Asedatives as the second of th		
	(d)	Resorcylic acid lactones, including zeranol;	(ð). T	Non-sterofdarfantiamflammetory, diviges (NSA)(DS) accidicas teroids, and glucococidio (1881)		
	(e)	Beta-agonists.	4.5 (1.1)	Otherpharmaccioeleally active substances (1) 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
		Prohibited substances listed in Table 2 of the Annex to Regulation (EU) No 37/2010;	2.	Coccidiostats and histomonostats authorised according to Union legislation, for which maximum levels and maximum residue limits are set under Union legislation		
,	(a)	Chloramphenicol;	100000000000000000000000000000000000000			
4	(b):	Nitrofurans;				
	(6)	Dimetridazole, metronidazole, ronidazole and other nitro- imidazoles;		·		
	(d)	Other substances				
3		Pharmacologically active substances, not listed in Table 1 of the Annex to Regulation (EU) No 37/2010 or substances intrauthorised for use in feed for food producing animals in the Union according to Regulation (EU) No 1831/2003 of the European Parliament and of the Council.				
	(6)	folias (Alt Agentidas de La companyo				

Plant protection products as defined in Regulation (EU) No. 1107/2009 of the European Parliament and of the Council			
(b) and biorides as defined in Regulation (EU) No.528/2012 of	3623 1		
the European Parliament and of the Council Which may be used in animal nusbandry of food-producing animals;			
(c) Antimicrobial substances: "			
(d) Coccidiostats, histomonostats and other antiparasiti			
(e) Protein and peptide hormones;			
(f) Anti-inflammatory substances; sedatives and any other pharmacologically active substances;			
(g) Antiviral substances.		 	·

Annexure 1 B- Group A substances to be tested

		1			Commodity G	roup				
Group A Substances (see tab c. in this Excel sheet)	Bovine, ovine and caprine	Porcine	Equine	Poultry	Aquaculture (finfish, crustaceans and other aquaculture products)	Raw bovine, ovine and caprine milk	Hen eggs and other eggs	Rabbits and farmed game	Honey	Casings
A(1)(a)	X	Х			4 E			X		
A(1)(b)	X	Х	Х				4. 1.0			
A(1)(c)	×	Х	Х	100	X (²)					
A(1)(d)	X	X			8-6					
A(1)(e)	X	X	Х	x						
A(2)	X	Х	Х	Х	X	X	X	×	Х	Х
A(3)(a)					X					
A(3)(b)	X	Х	Х	X	X	X	Х	Х	Х	
A(3)(c)	Х	Х	Х	Х	X	Х	X	X	Х	
A(3)(d)	X	Х		Х			. X	Х	14.04	
A(3)(e)	4									100
A(3)(f)	Х	Х	X	X	X	Х	Х	X	Х	
A(3)(g)									e tres	

Annexure 1C- Aquaculture finfish (Group A)

													
Regu samp		e for the cont	trol of <u>v</u>	eterinary drug resi	<u>dues</u>	in food -	Gro	oup A			RETURN TO TEMPLATE LIST	Check table	
										The total numbe		Sum of all samples	280
Country		INDIA		DATE						taken should at		Planned number	280
	olan implementation	2023		19-01-23						to the minimum		Minimum no regd	280
	pecies or product	FINFISI	 H							samples for Gro Cell C9)	up A in total (in	<u> </u>	
Nationa	I PRODUCTION DATA in S (referring to the	219864								Cell C37			
for calc	CTION DATA in <u>TONNES</u> ulation of SAMPLE RS. (referring to previous roduction)	219864			numbe cell G7 splits	r of establishm (regardless of ystem, and fari	ents, t the pr ned F	ated system is in the total annual pro operition of that pro INFISH from ALL I entered in call C7	duction duction FARM	on of only those on on which was exp	istablishments m ported to the EU) export to the EU	only possible from a pay be entered in). If there is no), national	
Number	of samples	As per Annex I to Reg (EU	J) 2022/1646	As per Codex Alimentarius (CAC/GL 71-2009)	OTH ER								
	d minimum no of <u>samples</u> for based on cell C7)	280											
Planned	number of samples	280											
Groups o	of substances to be controlled	NUMBER OF SAI	MPLES PLAN	COMPOUND or MARKER RESIDUE	MATR IX ANAL YSED	SCREENING METHOD	Validated	CONFIRMATORY METHOD	Validated	SCREEN.METH. DETECTION - LIMIT (19/Kg)	CONFIR.METH. DETECTION LIMIT [µg/Kg]	LEVEL OF ACTION (i.e. concentration above which a result is deemed non-compliant) [jug/Kg]	LABORATORY NAME
A1c	Steroids with androgenic, estrogenic or progestagenic activity	14	15	Progestrone Medroxy- progesterone (acetate) 17ß-estradiol 17-alpha-methyl Testostrone									

A2a			PT1.02									
A2c Nitroimidazoles 1. 25	A2a	Chloramphenicol	14	80	Chloramphenicol							
A2c Nitroimidazoles 1. 25					AOZ				·	· -		
A2c Nitroimidazoles 1. 25		·					•					
A2c Nitroimidazoles 1. 25	4.01			••		1				 		
A2c Nitroimidazoles 1. 25	AZD	Nitroturans	14:	80					 - -			
Metandazole									 	 	<u> </u>	
Metandazole						 		•••	 		<u> </u>	
Rondazole HAMNI					Metanidazole				 			
Rondazole HAMNI												
Rondazole HAMNI		İ				 -			 	- -		
Rondazole HAMNI	A2c	Nitroimidazoles	14	25						<u></u>	· · · · · · · · · · · · · · · · · · ·	
Rondazole HAMNI			177							· 		
A2d Other A2 substances 14 15			C0000000000000000000000000000000000000						 		 	
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A3a Dyes 14 25 Lauco Matchite Green Lauco Matchite Green Lauco Matchite Green Lauco Matchite Green Lauco Crystal Violet Lauco C						+					<u> </u>	
A3a Dyes 14 25 Lauco Matchite Green Lauco Matchite Green Lauco Matchite Green Lauco Matchite Green Lauco Crystal Violet Lauco C					Барзопо						 	
A3a Dyes 14 25 Lauco Matchite Green Lauco Matchite Green Lauco Matchite Green Lauco Matchite Green Lauco Crystal Violet Lauco C	Δ2d	Other A2 substances	Nr.	15					 			
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A3b Plant protection products and biocides 14 15					Malachite Green				 			
A3b Plant protection products and biocides 14 15		İ										
A3b Plant protection products and biocides 14 15	ADa	Direct	44	25		+						
A3b Plant protection products and biocides 14 15	мэа	Dyes	14	20		 -	-		-			
A3b Plant protection products and biocides 14 15					Cedco Crystar Violet				- 	- -		
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A3b Plant protection products and biocides 14 15									 		·	
A3b Plant protection products and biocides 14 15			22			1 -			 	·		
Norfloxacin Nalidixic acid		1										
Norfloxacin Nalidixic acid								· · · · · · · · · · · · · · · · · · ·	 			
Norfloxacin Nalidixic acid		Plant protection products								-	 	
Norfloxacin Nalidixic acid	A3b	and biocides	14	15			=		 i			
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antimicrobials 20	A3c		14	25	Nalidixic acid							
	, 100	antimicrobials	11									
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NRCP for Aquaculture Products - 2023

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	inflammatories, sedatives,		<u> </u>		 								
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The minimum number of samples to be checked each year for all group A residues and substances must be at least equal 1 sample per 300 tonnes for the first 60,000 tonnes of annual production of aquaculture finfish and 1 sample per additional 2000 tonnes.

- Sampling should be performed at any relevant stage in the life cycle of the animals.
- Each sub-group in Group A (with the exception of A3(t)) must be checked each year using a **minimum of 5% of the total number of samples** to be collected for Group A. The competent authority should attribute the remaining samples to each sub-group according to risk, ensuring that the total sample number of all A sub-groups meets or exceeds the minimum required.
- When substances from Group A and Group B are analysed in one sample from a single group of animals, this sample can be taken into account towards the minimum sampling frequency for both groups (Group A and Group B) provided that it can be documented, and that the risk criteria for Group A and Group B are the same.

In the event that the minimum number of samples would, on the basis of production volumes, result in less than five samples per year, sampling may be carried out once per two years.

If within a two years period, production corresponding to a **minimum of one sample is not reached**, a minimum of one sample once per two years shall be analysed provided that there is production for the species or product in question.

The 'unauthorised' substance groups specified above refer to substances unauthorized in the EU for use in food-producing animals.

Annexure 1D-Aquaculture finfish (Group B)

Regulatory progr Group B samples		ontrol of <u>veterina</u>	iry drug re	esidues in	food	<u> </u>			Check table	RETUR N TO TEMPL ATE LIST			
						The total number of		Sum of all samples	280				
Country	INDIA	DATE				samples		Planned number	280				
Year of plan mplementation	2023	19-01-23				taken should at		Minimum no reqd	280				
Animal species or product	FINFISH					least be equal to the minimum number of samples for Group B in total (in Cell			·				
National PRODUCTION DATA in TONNES referring to the previous year)	219864												
PRODUCTION DATA in TONNES for calculation of SAMPLE NUMBERS. (referring to previous year's production)	219864		T of only those	establishments r split system, and	nay be	entered in cell	C7 (req	only possible from a r ardless of the propor ARMS are eligible for	tion of that pr	oduction which	ch was expor	ted to the EU\	
Basis for number of amples	As per Annex I to Reg (EU) 2022/1646	As per Codex Alimentarius (CAC/GL 71- 2009)	Other		·								
alculated minimum number of samples for Group B (based on cell C7)	280												
Planned number of camples	280												
Groups of substances to be controlled	Planned number of SAMPLES	COMPOUND or MARKER RESIDUE	MATRIX ANALYSED	SCREENING METHOD	Validated (Y/N)	CONFIRM ATORY METHOD	Validated (Y/N)	SCREEN.METH. DETECTION LIMIT [µg/kg]	Confir. Meth, Detecti On Limit [µg/kg]	National MRL (if applicabl e) [µg/kg]	EU MRL (if applicabl e) [µg/kg]	LEVEL OF ACTION (i.e. concentratio n above which a	LABO RATO RY NAME

								result is deemed non- compliant) [µg/kg]	
B1a	Antimicrobials	200	Tetracyclines with its 4- epimers Oxytetracyclines with its 4-epimers Chlortetracyclines with its 4-epimers Doxycycline Oxollnlc acid Flumequine Sarafloxacin Enrofloxacin Ciprofloxacin Difloxacin Sulphadiazine Sulphadiazine Sulphamethazine Sulphamethoxicle Sulphamethoxicle Sulphamethoxicle Sulphadoxine Sulphadoxine Sulphadoxine Ciprofloxacin Oxidatione Sulphamethoxicle Sulphamethoxicle Sulphamethoxicle Sulphadoxine Sulphadoxine Colistin Cloxacillin Dicloxacillin Oxacillin					[havka]	
			Ampicillin Amoxicillin Tylosin A Lincomycin						

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			Neomycin B										
			Spectinomycin	-	1								
	-		Tilmicosin										
			Benzylpencillin										
													
				1									
												<u> </u>	
												 -	 -
								· ·			 	·	
				 						<u> </u>			
	Insecticides,		Emamectin								 		
	fungicides,		Ivermectin	 -		 					<u> </u>		
2.41	anthelmintics		TV CTTLECTITI	 	 -	-		 			 		
B1b	and other	80			 			 					
	antiparasitic					 -					 		ļ
	agents]
B1c	Sedatives							1					
	NSAIDs,		<u> </u>								 		
B1d	corticosteroids			·			•					· · · · · · · · · · · · · · · · · · ·	
DIU	and												
	glucocorticoids												
	Other												
B1e	pharmacological								·				
DIE	ly active										 		
	substances												·
							<u></u>						·
						·					 		
	Authorised												_
B2	coccidiostats										 	<u> </u>	
	and										 		
	histomonostats			1	 								
											 -		
				1	1								
			<u> </u>	l	1			L .	·		<u> </u>	<u> </u>	

The minimum number of samples to be checked each year for all kinds of residues and substances must at least equal 1 sample per 300 tonnes for the first 60,000 tonnes of annual production of aquaculture finfish and 1 sample per additional 2000 tonnes. This applies equally to Group A and B.

- Samples should be taken at the point of harvest.
- Within the aquaculture group, samples shall be taken from the fresh and seawater aquaculture species, taking into account their relative production volume.
- The competent authority should attribute the samples to each sub-group according to risk, ensuring that the total sample number for all B sub-groups meets or exceeds the minimum required.
- When substances from Group A and Group B are analysed in one sample from a single group of animals, this sample can be taken into account towards the minimum sampling frequency for both groups (Group A and Group B) provided that it can be documented, and that the risk criteria for Group A and Group B are the same.

In the event that the minimum number of samples would, on the basis of the production volumes, result in less than five samples per year, sampling may be carried out once per two years.

If within a two year period, production corresponding to a minimum of one sample is not reached, a minimum of one sample once per two years shall be analysed provided that there is production for the species or product in question.

Annexure 1E- Aquaculture finfish (Pesticides)

Disk based regulation									1				
Risk-based regulator control of pesticides		me for the									RETU RN TO TEMPL ATE LIST		
Country	INDIA	DATE				-							
Year of plan implementation	2023	19-01-23								<u> </u>			, , , , , , , , , , , , , , , , , , , ,
Animal species or product	Finfish				<u> </u>			-			· · · · · · ·		
<u>Planned</u> no of samples (<u>no</u> <u>minimum set)</u>	110												
Groups of pesticides to be controlled	Planned number of SAMPLES	COMPOUND or MARKER RESIDUE	MATRI X ANAL YSED	SCREEN ING METHO D	Validated (Y/N)	CONFIRM ATORY METHOD	Validated (Y/N)	SCREEN.M ETH DETECTIO N LIMIT [µg/kg]	CONFIR METH, DETECTI ON LIMIT [µg/kg]	National MRL (if applicabl e) [µg/kg]	EU MRL (if applicabl e) [µg/kg]	LEVEL OF ACTION (i.e, concentration above which a result is deemed non- compliant) [µg/kg]	LABORATORY NAME
Organochlorinated compounds	110	Alpha BHC Beta_BHC Gamma BHC HCB Heptachlor Heptachlor epoxide Aldrin cs-chlordane trans-chlordane oxy Chlordane Diefdrin Endrin 2,4' DDT 4,4'DDT 2,4'DDE 4,4'DDE 2,4'DDE											

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		4,4'DDD										
					· · · · · · · · · · · · · · · · · · ·	 						
												-
Organophosphate compounds						 			 			
organophosphiste compounds					- · · · · ·	 						-
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				ŀ								
Carbamates									 			
					<u></u>	 			 			
	 		 			 			 			
		L i										
0 1 11					· · · · ·	 						
Pyrethroids			 			 		<u> </u>	 			
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	1											
									· · · · · · · · · · · · · · · · · · ·			
Others			 					· · · ·	 	- · · · ·		
				·			<u> </u>		 			
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									1			

Annexure 1F- Aquaculture finfish (Contaminants)

Risk-based regulatory programm contaminants in food	ne for the	control of						Check table			RETURN TO TEMPLA TE LIST		
						otal number of les taken should	Sum	of all	166				-
Country	INDIA	DATE			1	st be equal to	Planr	ned number	166				
Year of plan implementation	2023	19-01-23			of sar	ninimum number mples for	Minir reqd	num no	166				
Animal species or product	Finfish					aminants in total ell \$8\$9)							
National PRODUCTION DATA in TONNES (referring to the previous year)	219864												
PRODUCTION DATA in TONNES for calculation of SAMPLE NUMBERS. (referring to previous year's production)	219864	restricted number entered in cell B7 there is no splits	r of establi *.regardles ystem, and	shments, the of the prop aquaculture	total a ortion ifinfish	for exports to the innual production of that production and limitsh production and limitsh product a must be entered	of only which is item	those establishm was exported to ALL FARMS are	ents may be the EUE III eligible for		<u> </u>		
Basis for number of samples	As per Annex I to Reg (EU) 2022/932	Other											
<u>Calculated minimum</u> number of samples (based on cell B7)	166												
<u>Planned</u> number of samples	166												
Groups of contaminants to be controlled(cf. Annex I to Regulation (EU) 2022/931)	Planned number of SAMPLES	COMPOUND or MARKER RESIDUE	MATRI X ANAL YSED	SCREE NING METHO D	Validated (Y/N)	CONFIRMATO METHOD	Y Y	SCREEN.ME DETECTION LIMIT [µg/kg	DETECTION	National MRL (if applicable) [µg/kg]	EU MRL (if applicable) [µg/kg]	LEVEL OF ACTION (i.e. concentration above which a result is deemed non- compliant) [µg/kg]	LA BO RA TO RY NA ME
Halogenated persistent organic pollutants	83	PCB-28 PCB-52				-							

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		,		,	· · · · · · · · · · · · · · · · · · ·	 					
		PCB-101									
•		PCB-138									T
		PCB-153									\top
		PCB-180									+
						11				· · · · · · · · · · · · · · · · · · ·	CSI
				1							R-
											NIIS
	:	17 PCDD/Fs									T,
	1										Triv
	1							1			and
						 +				·	CSI
											R-
										İ	NIIS
		12 DL-PCBs									T,
										:	Friv
											and
		Cadmium				++			· ·		rum
					 	 ++					+
Metals	83	Mercury Lead			 	+					+
	-	Arsenic			1	 	 		 	- · · · · · · · · · · · · · · · · · · 	+
		70 JUIN,				 	 	 	 	- · - · · · · · · · · · · · · · · · · 	+
						 	 	 	· · · · · · · · · · · · · · · · · · ·		
Others	İ	<u> </u>	 					<u> </u>	-		
	•					 ++	 				
						 +	 				
						 ++	 				+
	·		1			 -{		 			+
		1		•		 	 <u> </u>	<u> </u>	<u> </u>		

The minimum number of samples of unprocessed aquaculture fishery products (excluding crustaceans) to be checked each year for contaminants is 1 sample per 700 tonnes of annual production of aquaculture for the first 60,000 tonnes of production and then 1 sample for each additional 2000 tonnes (cf Annex I to Regulation (EU) 2022/932). Unprocessed muscle should be sampled. Third countries should decide on a risk basis what substances they test for in each substance group and should be in a position to justify their decisions to include and exclude substances, the range of substances included in each substance group and the number of samples tested. There is no minimum number of samples required for any substance group.

Annexure 1G- Aquaculture crustaceans (Group A)

	p A samples	ime for the co	ontrol of <u>veterinary o</u>	irug resiai	<u>ues</u> in to	3a -			Check table	RETURN TO TEMPLATE LIST
					T		The total nu	ımber of	Sum of all samples	691 .
Country		INDIA	DATE				samples tak		Planned number	691
Year of p	lan implementation	2023	19-01-23				at least be e	•	Minimum no reqd	691
Animal s	pecies or product	Crustaceans		<u> </u>			minimum no samples for total (in Cell	Group A in		
DATA in	PRODUCTION TONNES (referring revious year)	1041273								
TONNES SAMPLE	CTION DATA in 5 for calculation of E NUMBERS. g to previous year's ion)	1041273	•	only passible those establis production will crustaceans!	from a numbe thments may b tich was expo	r of establishr be entered in the rted to the EU MS are eligible	nents, the lot cell C7 (reger). If there is e for export to	al annual pro dless of the no split sys the EU nat	EU (i.e. this is duction of only proportion of that tern, and farmed lonal production	
Basis for	number of samples	As per Annex I to Reg (EU) 2022/1646	As per Codex Alimentarius (CAC/GL 71-2009)	OTHER						
	minimum no of <u>samples</u> A (based on cell C7)	691								
Planned	number of samples	691								
Groups o controlle	f substances to be	NUMBER OF SAMPLES	COMPOUND or MARKER RESIDUE	MATRIX ANALYSED	SCREENING METHOD	CONFIRMAT ORY METHOD	SCREEN.M ETH. DETECTIO N LIMIT [µg/Kg]	CONFIRME TH. DETECTIO N LIMIT [hg/Kg]	LEVEL OF ACTION (i.e. conceentration above which a result is deemed non- compliant) [µg/Kg]	LABORATORY NAME
A2a	Chloramphenicol	35 250	Chloramphenicol						·	
A2b	Nitrofurans	35 250	AOZ AMOZ AHD SEM DNSH							
A2c	Nitroimidazoles	35 51	Metanidazole							

				ipronidazole							
				Ipronidazole-OH							
				Dimetronidazole							
		ш		Ronidazole							
				HMMNI							
		35		Dapsone							
				- · · · · · · · · · · · · · · · · · · ·						- "	
A2d	Other A2 substances	25	35								· · · · · · · · · · · · · · · · · · ·
			••								
										···	
				Malachite Green							
				Leuco Malachite Green							
A 73	_		25	Crystal Violet					- · · · - · · - · · · · · · · · · · · ·		
АЗа	Dyes	35	35	Leuco Crystal Violet							
				Leuco Crystai violet							
		35									
		35		2,5-dichlorobenzoic acid methyl							
				ester				<u> </u>			
				<u></u>		ļ					
						-					
						<u> </u>			·		
476	Plant protection	ne -	35								
A3b	products and biocides	:00	33								
	,								_		
										. "	
		A 1 1 1 1		Norfloxacin				1			
				Nalidixic acid							
									· - ···		
						 '' 					
							· · · · · ·				
A3c	Unauthorised	25	35			 					
ASC	antimicrobials	23	33			1				· · ·	
										-	
				<u> </u>	-	-		 	 	1	
						-		 			
							ļ	-			
		35									
A3f	Unauthorised anti-										
, 121	oneamonaco and									ļ	<u> </u>

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inflammatories, sedatives, and other pharmacologically active substances							
		 		-			

The minimum number of samples to be checked each year for all group A residues and substances must at least equal 1 sample per 300 tonnes for the first 60,000 tonnes of annual production of aquaculture crustaceans and 1 sample per additional 2000 tonnes.

- Sampling should be performed at any relevant stage in the life cycle of the animals.
- Each sub-group in Group A (with the exception of A3(f)) must be checked each year using a minimum of 5 % of the total number of samples to be collected for Group A. The competent authority should attribute the remaining samples to each sub-group according to risk, ensuring that the total sample number for all A sub-groups meets or exceeds the minimum required.
- When substances from Group A and Group B are analysed in one sample from a single group of animals, this sample can be taken into account towards the minimum sampling frequency for both groups (Group A and Group B) provided that it can be documented, and that the risk criteria for Group A and Group B are the same.

 In the event that the minimum number of samples would, on the basis of the production volumes, result in less than five samples per year, sampling may be carried out once per two years.

If within a two year period, production corresponding to a **minimum of one sample is not reached**, a minimum of one sample once per two years shall be analysed provided that there is production for the species or product in question.

The 'unauthorised' substance groups specified above refer to substances unauthorised in the EU for use in food-producing animals.

Annexure 1H- Aquaculture crustaceans (Group B)

									T				
Reg	julatory progr	amme for the c	ontrol of <u>veterina</u>	ary drug r	<u>esidues</u>	in f	food -				RETURN TO		
Gro	up B samples	-		•							TEMPLATE LIST		
	<u>ap 2 33p.03</u>								The total nur	nber of	Sum of all samples	691	
Countr	ry	INDIA	DATE						samples take		Planned number	691	
Үеаг о	f plan implementation	2023	19-01-23						least be equa		Minimum no read	691	
Anima	species or product	Crustaceans							minimum nu samples for 0 total (in Cell I	Group B in			
DATA (refer	nal PRODUCTION Lin TONNES ring to the bus year)	1041273				•			1000 (11 001				-
PROD TONN of SAI (refer	OUCTION DATA in IES for calculation MPLE NUMBERS. ring to previous production)	1041273		total annual p	roduction of to the FII)	only t	hose establishn	ients i vstem	may be entere	d in cell C7 (i crustaceans fr	s only possible from a nui egardless of the proportio om ALL FARMS are eligit	on of that produ ole for export to	ction which othe EU
Basis fo	or number of samples	As per Annex I to Reg (EU) 2022/1646	As per Codex Alimentarius (CAC/GL 71- 2009)	Other		<u></u>							
	ted minimum number of s for Group B (based on	691											
Planne	ed number of samples	691											
					SCREE	Validated (Y/N)	CONFIRM	(XX)	SCREEN. METH.	CONFIR. METH.		EU MRL (if	LEVEL OF ACTION (i.e. concentration above which
	os of substances to	Planned number of	COMPOUND or	MATRIX	NING	ွာ	ATORY	g	DETECTI	DETECTI	National MRL (if	applicable)	a result is
be co	ntrolled	SAMPLES	MARKER RESIDUE	ANALYSED	METH	gag	METHOD	Validated	ON LIMIT	ON LIMIT	applicable) [µg/kg]	[µg/kg]	deemed
:					OD	- <u>Ş</u>		Υaii	[µg/kg]	[µg/kg]		וביי פרוו	non-
								· ·	1, 3, 3,	1, 5. 51			compliant) [µg/kg]
B1a	Antimicrobials	500	Tetracyclines with its 4- epimers Oxytetracyclines with its 4-epimers Chlortetracyclines with										
			its 4-epimers								İ		

	<u> </u>		Doxycycline									
			Oxolinic acid				•					
			Flumequine		1							
			Sarafloxacin	-						·		
			Enrofloxacin									
			Ciprofloxacin									
			Difloxacin									
			Danofloxacin					 ·			•	
			Sulphadiazine									
			Sulphapyridine								,	
			Sulphamethazine									
			Sulphamerazine									
			Sulphathiazole						72.2			
			Sulphamethoxizole									
			Sulphachloropyridazine									
			Sulphadoxine									
			Sulphadimethoxine									
:			Sulphamethoxypyridazine			_						
			Sulphamethizole									
			Erythromycin A									
			Collstin									
			Cloxacillin									
			Dicloxacillin									-
			Oxacillin									
			Trimethroprime									
			Ampicillin							•		
			Amoxicillin							· · · · · · · · · · · · · · · · · ·		
			Tylosin A									"
			Lincomycin					 				
			Neomycin B									
			Spectinomycin									
			Tilmicosin									
			Benzyłpencillin									
81b_	Insecticides,	191	Emamectin									
יוט	fungicides,	191	lvermectin									

	anthelmintics and other antiparasitic agents			,					
B1c	Sedatives	·	,,,,						
B1d	NSAIDs, corticosteroids and glucocorticoids								
B1e	Other pharmacologically active substances								
B2	Authorised coccidiostats and histomonostats								

The minimum number of samples to be checked each year for all kinds of residues and substances must at least equal 1 sample per 300 tonnes for the first 60,000 tonnes of annual production of aquaculture crustaceans and 1 sample per additional 2000 tonnes. This applies equally to Group A and B.

- Samples should be taken at the point of harvest.
- Within the aquaculture group, samples shall be taken from fresh and seawater aquaculture species, taking into account their relative production volume.
- The competent authority should attribute the samples to each sub-group according to risk, ensuring that the total sample number for all B sub-groups meets or exceeds the minimum required.
- When substances from Group A and Group B are analysed in one sample from a single group of animals, this sample can be taken into account towards the minimum sampling frequency for both groups (Group A and Group B) provided that it can be documented, and that the risk criteria for Group A and Group B are the same. In the event that the minimum number of samples would, on the basis of the production volumes, result in **less than five samples per year**, sampling may be carried out once per two years.

If within a two year period, production corresponding to a **minimum of one sample is not reached**, a minimum of one sample once per two years shall be analysed provided that there is production for the species or product in question.

Annexure 1I- Aquaculture crustaceans (Pesticides)

Risk-based regulato control of pesticides		for the									RETUR N TO TEMPL ATE LIST		
Country	índia	DATE											<u> </u>
Year of plan implementation	2023	19-01-23				<u> </u>					ļ		<u> </u>
Animal species or product	Crustaceans				<u></u>								<u></u>
<u>Planned</u> no of samples <u>(no</u> <u>minimum set)</u>	521												
Groups of pesticides to be controlled	Planned number of SAMPLES	COMPOUND of MARKER RESIDUE	MATRIX ANALYSED	SCREENING METHOD	Validated (Y/N)	CONFIRM ATORY METHOD	Validated (Y/N)	SCREEN.METH. DETECTION LIMIT [µg/kg]	CONFIRMETH, DETECTION LIMIT [µg/kg]	National MRL (if applicab le) [µg/kg]	EU MRL (if applicable) [µg/kg]	LEVEL OF ACTION (i.e. concentratio n above which a result is deemed non- compliant) [µg/kg]	LABO RATO RY NAME
Organochlorinated compounds	521	Alpha BHC Beta BHC Gamma BHC HCB Heptachlor Heptachlor epoxide Aldrin cis-chlordane trans-chlordane oxy Chlordane Dietdrin Endrin 2,4' DDT 4,4'DDT 2,4'DDE											

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	4,4'DDE	<u> </u>		· · · · · ·	i				1			
	2,4'DDD								<u> </u>		_	
	4,4'DDD						··					
	4/4 (2/03)					l i			 		-	
	••••					\vdash						
				 								
									 			
									-	· · · · · · · · · · · · · · · · · · ·		
			1						 			
						-			†			
Organophosphate compounds								 				-
Organophosphate compounds								· · · · · · · · · · · · · · · · · · ·				
					*				 			
			ļ						 		-	
•						-					+	ļ
Cadamata			<u> </u>	 								
Carbamates				ļ							+	
									· · ·	<u> </u>	-	
										<u> </u>		<u> </u>
•											<u></u>	<u> </u>
Pyrethroids												
Tyrediroids						'	•					
		· ·										
			i						_			
Oil												
Others												
				Τ							,	
		•	1					_	•			

Annexure 1J- Aquaculture crustaceans (Contaminants)

Risk-based regulatory programn contaminants in food	ne for the co	ntrol of					-				RETURN TO TEMPLATE LIST		
Country	INDIA	DATE							-			i	
Year of plan implementation	2023	19-01-23											, ,
Animal species or product	Crustaceans												
<u>Planned</u> no of samples (<u>no minimum set</u>)	521												
Groups of contaminants to be controlled(cf. Annex I to Regulation (EU) 2022/931)	Planned number of SAMPLES	COMPOU ND or MARKER RESIDUE	MATRIX ANALY SED	SCREE NING METH OD	Validated (Y/N)	CONFIRMA TORY METHOD	(V/V)	SCREEN. METH. DETECTI ON LIMIT [µg/kġ]	CONFIR. METH. DETECTI ON LIMIT [µg/kg]	Nationa I MRL (if applica ble) [µg/kg]	EU MRL (if applicable) [µg/kg]	LEVEL OF ACTION (i.e. concentra tion above which a result is deemed non- compliant) [µg/kg]	LABORATO RY NAME
Halogenated persistent organic pollutants	171	PCB-28 PCB-52 PCB-401 PCB-138 PCB-153 PCB-180 17 PCDD/Fs											CSIR-NIIST, Trivandrum CSIR-NIPST, Trivandrum
Metais -	350	Cadmium Mercury Lead Arsenic											Trivandrum

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							 :	
					·			
Others		 	 			 		

No minimum number of samples of unprocessed aquaculture crustaceans to be checked each year for contaminants has been set in EU law.

Unprocessed muscle should be sampled. Third countries should decide on a risk basis what substances they test for in each substance group and should be in a position to justify their decisions to include and exclude substances, the range of substances included in each substance group and the number of samples tested. There is no minimum number of samples required for any substance group.

Annexure 2A

The Marine Products Export Development Authority NRCP 2023 - Allocation of Samples from Field Offices to MPEDA Lab Kochi

						Sam	ples fro	n FARM:	S				
Type / Species	Parameter	SRD Valsad	RD Panvel	RD Mangaluru	RD Kochi	SRD Nagapatnam	RD Vijayawada	SRD Bhimavaram	SRD Vizag	SRD Hydera bad	RD Bhubaneswar	RD Kolkata	Total
	Chloramphenicol (A2a)	0	0	1	1	10	20	0	0	0	0	0	32
	NF Metabolites (A2b)	0	0	1	1	10	18	0	0	. 0	0	0	30
aridas Sandas	Nitroimidazoles (A2c)	3	1	0	0	2	21	0	0	0	0	0	27
IMP	Other Substances (A2d)	2	0	0	0	2	0	0	0	0	0	0	4
HR	Dyes (A3a)	0	0	0	0	0	0	0	0	0	0	0	0
CULTURED SHRIMP	Plant protection products and Biocides (A3b)	2	0.	0	0	2	0	0	0	0	2	2	8
SULT	Un-authorised Subatances (A3c)	2	0	0	0	2	0	0	0	0	0	0	4
	Sub Total	9	1	2	2	28	59	0	0	0	2	2	105
	Antibiotics (B1a)	0	0	. 1	1	19	0	0	0	0	0	0	21
	Anthelmintics ((B1b)	11	2	0	0	8	0	0	0	0	0	0	21
	Sub Total	11	2	1	1	27	0	0	0	0	o	0	42

	Organo Chlorine Pesticides	30	2	2	1	20	200	0	o	. 0	26	36	317
	PCBs	10	1	1	1	6	40	0	0	0	8	12	79
	Heavy Metals	0	0	1	1	13	153	104	5	0	18	24	319
	Sub Total	10	1	2	2	19	193	104	5		26	36	398
	SHRIMP Total	60	6	7	6	94	452	104	5	0	54	74	862
	Chloramphenicol (A2a)	0	0	0	0	0	0	0	0	0	0	0	0
	NF Metabolites (A2b)	0	0	0	0	0	0	0	0	0	0	0	0
:	Nitroimidazoles (A2c)	0	1	0	0	0	0	0	0	0	0	0	1
	Other Substances (A2d)	0	0	0	0	0	0	0	0	0	0	0	0
	Dyes (A3a)	0	0	0	0	0	0	0	0	0	0	0	0
<u>d</u>	Plant protection products and Biocides (A3b)	0	1	0	0	0	0	0	0	1	0	1	3
SCAMPI	Un-authorised Subatances (A3c)	0	0	0	0	0	0	0	0	0	0	0	0
0,	Sub Total	0	2	0	О	О	. 0	О	O	1	О	1	4
	Antibiotics (B1a)	0	0	0	0	0	0	0	0	0	0	0	0
· :·	Anthelmintics ((B1b)	0	0	0	0	0	0	0	0	0	0	0	0
	Sub Total	0	0	0	0	0	0	0	0	0	o	O	0
:	Organo Chlorine Pesticides	1	1	0	0	0	О	0	0	0	o	0	2
	PCBs	0	1	0	0	О	0	O	0	o	o	o	1
	Heavy Metals	0	0	0	0	О	o	0	o o	6		1	7

	Sub Total	О	1	0	0	О	0	О	0	6	Ò	1	8
	SCAMPI Total	1	4	0	0	. · · · O	. 0	0	0		0	2	14
	Steroids (A1c)	0	1	0	0	1	11	1	0	1	0	0	15
	Chloramphenicol (A2a)	0	0	0	0	1	0	0	0	0	0	0	1
	NF Metabolites (A2b)	0	0	0	0	1	0	0	0	0	0	0	1
	Nitroimidazoles (A2c)	0	1	0	0	0	0	0	0	0	0	0	1
FISH	Other Substances (A2d)	0	1	0	0	1	0	0	0	0	0	0	,2
-	Dyes (A3a)	0	0	0	0	0	0	0	0	0	0	0	0
	Plant protection products and Biocides (A3b)	0	1	0	0	0	0	0	0	0	0	0	1
	Un-authorised Subatances (A3c)	0	0	0	0	0	0	0	0	0	0	0	0
!	Sub Total	0	4	o	0	4	11	1	0	1	0	0	21
	Antibiotics (B1a)	0	0	0	1	4	0	0	0	0	0	0	5
:·	Anthelmintics ((B1b)	O	2	o	0	1	o	o	0	0	О	0	3
	Sub Total	0	2	0	1	5	0	0	0	0	0	0	8
	Organo Chlorine Pesticides	О	3	o	0	2	0	o	0	0	o	1	6
	PCBs	0	2	0	0	1	0	0	0	0	0	1	4
·	Heavy Metals	0	0	0	0	1	66	4		9		1	81
· .	Sub Total	0	2	0	0	2	66	4	0	9	0	2	85
	FISH TOTAL	0	11	0	1	13	77	5	0	10	o	3	120
Gl	RAND TOTAL	- 61	21	7	7	107	529	109	5.	17	54	'79	996

Annexure 2B

				Th	e Marin	e Produc	ts Export	Development Authorit	v					
	T	NR	CP 2023				<u> </u>	ces to MPEDA Labs at Bhin		& Nellore	9			
	QC	Lab, Bh	imavara	m			•		QC Lal	b, Neliore	=			
			Num	ber of San	ples					N	umber of	Samples		:
Item / Species	Parameter	SRD Vijayawada	SRD Bhímavaram	SRD Vizag	SRD Hyderabad	TOTAL (parametrwise)	Species Parameter		SRD Vijayawada	SRD Bhimavaram	SRD Vizag	SRD Hyderabad	SRD Nagapatnam	TOTAL (parametrwise)
	Chloramphenicol (A2a)	0	50	3	0	53		Chloramphenicol (A2a)	90	25	- 0	0	0	115
	NF Metabolites (A2b)	0	50	3	0	53		NF Metabolites (A2b)	90	25	0	0	0	115
	Nitroimidazoles (A2c)	0	14	1	0	15	A A AND THE	Nitroimidazoles (A2c)	0	0	0	0	0	0
HRIMP	Other Substances (A2d)	0	11	0	0	11	SHRIMP	Other Substances (A2d)	14	0	0	0	0	14
୍ଷ	Dyes (A3a)	O	9	0	0	9		Dyes (A3a)	13	0	1	0	2	16
CULTURED SHRIMP	Plant protection products and Biocides (A3b)	14	11	0	0	25	CULTURED	Plant protection products and Biocides (A3b)	0	. 0	0	0	0	0
	Un-authorised Subatances (A3c)	. 0 .	-	0	0	0		Un-authorised Subatances (A3c)	13	10	1	0	0	24
	Sub Total	14	39 30 11 3 32 23 23 23 23 23 2	7	3110 1000 (300 C)	166		Sub Total	220	60	2	0	. 2	284
· .	Antibiotics (B1a)	32	149	6	0	187		Antibiotics (B1a)	190	0	0	0	0	190
! !	Anthelmintics ((B1b)	0	0	0	0	o		Anthelmintics ((B1b)	85	56	2	0	o	143
į	Sub Total	32	149	6	0	187		Sub Total	275	56	2	0		333

	Organo Chlorine Pesticides	31	155	6		192		Organo Chlorine Pesticides	0	0	0	0	0	0
	PCBs	34	51	2	0	87		PCBs	0	0	0	0	0	0
	Heavy Metals	0	0	0	0	0		Heavy Metals	0	0	0	0	0	0
	Sub Total	34	51	2	0	87	1 (1) (1) 1 (4) (2)	Sub Total					744 S.V	0
	SHRIMP Total	111	500	21	0	632	yś.	SHRIMP Total	495	116	4	0	2	617
·	Chloramphenicol (A2a)	0	0	0	0	0		Chloramphenicol (A2a)	0	0	0	3	0	3
· · .	NF Metabolites (A2b)	0	0	0		0		NF Metabolites (A2b)	0	0	0	4	0	4
	Nitroimidazoles (A2c)	0	0	0	1	1		Nitroimidazoles (A2c)	0	0	0		0	0
: . ·	Other Substances (A2d)	0	0	0	0	0		Other Substances (A2d)	0	Ð	0	1	0	1
	Dyes (A3a)	0	0	0	0	0		Dyes (A3a)	0	0	0	1	0	1
SCAMPI	Plant protection products and Biocides (A3b)	0	0	0	0 .	0	SCAMPI	Plant protection products and Biocides (A3b)	0	0	0	0	0	0
80	Un-authorised Subatances (A3c)	0	0	0	1	1	98	Un-authorised Subatances (A3c)	0	0	0	0	0	0
	Sub Total	0	0	0	2	2		Sub Total	0	0	0	9	0	9
A Z A	Antibiotics (B1a)	0	0	0	9	9		Antibiotics (B1a)	0	0	0	0	0	0
	Anthelmintics ((B1b)	0	o	0	О	О		Anthelmintics ((B1b)	О	О	0	4	0	. 4
	Sub Total	0	0	0	9	9		Sub Total	0	0	0	4	0	4
	Organo Chlorine Pesticides	0	0	, 0	9	9		Organo Chlorine Pesticides	O	0	0	0	o	o

	PCBs	0	0	0	4	4			PCBs	0	0	0	0	0	0
	Heavy Metals	0	0	0	0	0			Heavy Metals	0	0	0	0	0	0
	Sub Total	- 0	0	0	4	4			Sub Total	0 *	0 %	0'	0	0	0.
	SCAMPI Total	0	0	0	24	24	· .		SCAMPI Total	0	0 -	0	13	0	13
-	Chloramphenicol (A2a)	10	3	0	9	22			Chloramphenicol (A2a)	53			-		53
	NF Metabolites (A2b)	10	3	0	9	22			NF Metabolites (A2b)	53	, ,		-		53
	Nitroimidazoles (A2c)	0	0	0	0	0			Nitroimidazoles (A2c)	20	1	-	3		24
	Other Substances (A2d)	11	1	0	1	13		Ī	Other Substances (A2d)	-	-	_	_		0
	Dyes (A3a)	20	1	0	3	24		Ì	Dyes (A3a)	-	-	-	-		0
_	Plant protection products and Biocides (A3b)	12	1	0	1	14		_	Plant protection products and Biocides (A3b)	-	-	-	_		0
FISH	Un-authorised Subatances (A3c)	0	0	0	0	0		HSH	Un-authorised Subatances (A3c)	20	1	_	3		24
	Sub Total	63	- 9	. 0	23	95			Sub Total	146	2 ***	0	6		154
	Antibiotics (B1a)	55	8	0	0	63			Antibiotics (B1a)	100	0	0	22	0	122
	Anthelmintics ((B1b)	0	0	0	0	o			Anthelmintics ((B1b)	64	3	o	9	o	76
	Sub Total	55	8	0	0	63	:	•	Sub Total	164	3	0 .	- 31	0	198
	Organo Chlorine Pesticides	86	5	0	13	104			Organo Chlorine Pesticides	- 0	0	Ö	. 0	- 0	0
	PCBs	66	4	0	9	79		ļ	PCBs	0	0	0	0	0	0
	Heavy Metals	0	0	0	0	0			Heavy Metals	0	0	0	0	0	0
	Sub Total	70 K-00 12 11 AD01180		0	9	79			Sub Total			0			. 0
	FISH Total	270	26	0	45	341			FISH Total	310	5	0	37	0	352
				TOTALS	SAMPLE	997			-		l	TQ	TALSAM	PLE	982

Annexure 2C

	NRCP 2	023 - Allo		Samples ubanesw			ld Offices to MPEDA Labs andar	at	,	·		
	QC Lab, Bhul	paneswar					QC Lab, P	orbandar	ł l			
		Number of Samples						Nun	ber of Sam	ples		
Item / Species	Parameter	RD Bhuba neswar	RD Kolkata	TOTAL (parametrwise)		Item / Species	Parameter	SRD Valsad	RD Panvel	TOTAL (parametrwise)		
	Chloramphenicol (A2a)	12	16	28			Chloramphenicol (A2a)	14	1	15		
	NF Metabolites (A2b)	12	17	29			NF Metabolites (A2b)	14	1	15		
	Nitroimidazoles (A2c)	3	3	6	*		Nitroimidazoles (A2c)	0	0	0		
	Other Substances (A2d)	2	2	4			Other Substances (A2d)	0	0	0		
	Dyes (A3a)	2	3	5			Dyes (A3a)	2	ō	2		
SHRIMP	Plant protection products and Biocides (A3b)	0	0	.0	* 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1	SHRIMP	Plant protection products and Biocides (A3b)	. 0	0	0		
CULTURED	Un-authorised Subatances (A3c)	2	3	5		JULTURED	Un-authorised Subatances (A3c)	0	0	0		
ಕ	Sub Total	- 33	44	77		ਹ	Sub Total Sub Total	- 30	2	32		
	Antibiotics (B1a)	25	34	59			Antibiotics (B1a)	29	2	31		
	Anthelmintics ((B1b)	9	13	22				Anthelmintics ((B1b)	0	0	0	
	Sub Total	34	47	81	*		Sub Total	29	2	31		
	Organo Chlorine Pesticides	0	0	0	0					Organo Chlorine Pesticides	0	0
	PCBs	0	0	0			PCBs	0	0	0		
	Heavy Metals	0	0	0	1		Heavy Metals	20	2	22		

	Sub Total	0	0	0			Sub Total	20	2	22
	SHRIMP Total	67	91	158		57.	SHRIMP Total	79	6	* 85
	Chloramphenicol (A2a)	1	1	2.			Chloramphenicol (A2a)	1	1	2
	NF Metabolites (A2b)	1	1	2			NF Metabolites (A2b)	1	1	2
	Nitroimidazoles (A2c)	0	1	1			Nitroimidazoles (A2c)	0	0	0
	Other Substances (A2d)	0	1	1		.:	Other Substances (A2d)	0	0	0
	Dyes (A3a)	0	1	1			Dyes (A3a)	0	1	1
	Plant protection products and Biocides (A3b)	0	0	0	:		Plant protection products and Biocides (A3b)	0	0	0
SCAMPI	Un-authorised Subatances (A3c)	0	1	1		SCAMPI	Un-authorised Subatances (A3c)	0	0	0
ĭ,	Sub Total	2	6	8		တိ	Sub Total	2	3	5
	Antibiotics (B1a)	1	0	1			Antibiotics (B1a)	1	1	2
	Anthelmintics ((B1b)	0	1	1			Anthelmintics ((B1b)	0	0	0
	Sub Total	1	`1	2			Sub Total	1	1	2
	Organo Chlorine Pesticides	0	0	0	. · · · · · · · · · · · · · · · · · · ·		Organo Chlorine Pesticides	0	0.1	0
	PCBs	0	0	0	i.		PCBs	0	0	0
	Heavy Metals	0	0	0			Heavy Metals	1	1	2
	Sub Total	. 0	0	О			Sub Total	1	1	2
	SCAMPI Total	3.7	7	10	-		SCAMPI Total	4	5	9
	Chloramphenicol (A2a)	0	1	1			Chloramphenicol (A2a)	1	2	3
	NF Metabolites (A2b)	0	1	1			NF Metabolites (A2b)	1	2	3
FISH	Nitroimidazoles (A2c)	0	0	0		FISH	Nitroimidazoles (A2c)	0	0	0
Ē	Other Substances (A2d)	0	0	0		Ë	Other Substances (A2d)	0	0	0
	Dyes (A3a)	0	0 -	0			Dyes (A3a)	0	. 1	1

Plant protection products and Biocides (A3b)	0	0	0	Plant protection products 0 0 0 0 and Biocides (A3b)
Un-authorised Subatances (A3c)	0	0	0	Un-authorised 0 1 1
Sub Total	0	2	2	Sub Total 2 6 8
Antibiotics (B1a)	1	2	3	Antibiotics (B1a) 1 6 7
Anthelmintics ((B1b)	0	1	1	Anthelmintics ((B1b)
Sub Total	1	3	4	Sub Total 1 6 7
Organo Chlorine Pesticides	0	0	0	Organo Chlorine 0, 0, 5
PCBs	0	0	0	PCBs 0 0 0
Heavy Metals	0	0	0	Heavy Metals 0 2 2
Sub Total	0	0	0	Sub Total 0 2 2
FISH Total	. 1	5	6	FISH Total 3 14 17
Total SAMPLES		103	174	Total SAMPLES 86 25 111

														Anne	xure 3
			The Mar	ine Prod	ucts Export Deve	elopment Authori	ty - NR	RCP	2023						
				Alloc	ation of Feed an	d Hatchery Samp	oles					· ·			
A. Sample	e Allocation	from Field	Offices to MPE	DA Lab K	ochi, Bhimavara	m & Bhubanesw	ar		<u> </u>	· · · · · · · · · · · · · · · · · · ·			Т		
		Lab, Kochi	<u></u>			Lab, Bhubanesw	ar			:	Lab, Bhii	navara	am		
ltem / species	Parameter	RD Kochi	SRD Nagapattinam	Total	Item / species	Parameter	RD Bhubaneswar	RD Kolkata	Total	Item / species	Parameter	RD Vijyawada	SRD Bhimavaram	SRD Vizag	Total
Hatchery sample	CAP + NF	12	52	64	Hatchery sample	CAP + NF	4	1	5	Hatchery sample	CAP + NF	54	37	26	117
B. Sample	e Allocation	from Field	Offices to MPE	DA Lab N	lellore & Porband	dar									
				L al	b, Nellore								Lab, F	orband	ar
Item / Species	Parameter	RD Vijaya- wada	SRD Bhimavaram	SRD Vizag	RD Bhubaneswar	SRD Nagapattinam	SR Vals		RD Kolkta	Total			m / cies	Parameter	SRD Valsad
Feed	CAP + NF	6	5	1	1	2	. 1		2	18		Hato	hery	САР	
Hatchery sample	CAP + NF	40	30	0	0	0	0		0	70		7	nple	+ NF	4

Annexure 4A MPEDA - NRCP for Aquaculture Products - 2023 THE MARINE PRODUCTS EXPORT DEVELOPMENT AUTHORITY, KOCHI - 36 NRCP - 2022- Summary of Results- All LABS No. of Samples Item/Species Substance Residue substance (s) Received Analysed Non-compliant Group A6 2839 2839 5 CAP, NF(AOZ) Group B1 2843 2843 0 Group B1 451 451 0 (additional parameters) Group B2a Anth 1153 1153 0 Group B3a Shrimp 570 570 0 OCPs & PCBs DL PCBs 4 4 0 Group B3c CE 567 567 0 Group B3d Myco 289 289 0 Group B3e Dyes 286 286 0 Group A6 32 32 0 Group B1 32 32 0 Group B1 5 5 0 Scampi (additional parameters) Group B2a Anth 15 15 0 Group B3a OCPs & PCBs 6 6 0

	DL PCBs Group B3c CE	9	9	0	
	Group B3d Myco	2	2	0	
	Group B3e Dyes	5	5	0	
	Group A1	4	4	0	
	Group A3	4	4	0	
	Group A6	4	4	0	
	Group B1	11	11	. 0	
	Group B1 (additional parameters)	3	3	0	
Fish	Group B2a Anth	4	4	0	
	Group B3a OCPs & PCBs	2	2	0	
	DL PCBs	4	4	0	
	Group B3c CE	2	2	0	
	Group B3d Myco	1	1	0	
	Group B3e Dyes	2	2	0	
	Sub Total	9151	9151	5	
Feed	Group A6	19	19	0	
Hatchery Seed	Group A6	306	306	34	CAP, NF(AOZ)
	TOTAL	9476	9476	39	

Annexure 4F

						Annexure 4B
	RESULTS OF REGULATOR	RY PROGRAMMI	E FOR CONT	ROL OF RE	SIDUES IN FOOD	
COUNTRY	INDIA				DATE	18.03.2023
YEAR OF IMPLEMENTATION OF THE RESIDUE PLAN	2022					
ANIMAL SPECIES/ PRODUCT	AQUACULTURE - CRUSTACI FINFISH	EANS &				
			NUMBE SAMP	I	LEVEL OF ACTION (i.e.	NUMBER OF NON
GROUP OF SUBSTANCES TO BE MONITORED	COMPOUND or MARKER RESIDUE	MATRIX ANALYSED	PLANNED	TESTED	concentration above which a result is deemed non- compliant) [µg/kg]	COMPLIANT RESULTS (ABOVE LEVEL OF ACTION)
		Shrimp	0	0		NIL
	Diethyl Stilbestrol	Scampi	0	0	CCa: 0.19 (Kochi)	NIL
		Fish	4	4		NIL
A1. STILBENES		Shrimp	0	0		NIL.
AT. STIEDENES	Dienestrol	Scampi	0	0	CCa: 0.24(Kochi)	NIL
		Fish	4	4		NIL
	Hexestrol	Shrimp	0	0	CCa, 0.30//(aahi)	NIL
	I lexestion	Scampi	0	0	CCa: 0.20(Kochi)	NIL

		Fish	4	4		NIL
		Shrimp	0	0		NIL.
	17-Beta Estradiol	Scampi	0	0	CCα: 0:20(Kochi)	NIL
		Fish	4	4		NIL
		Shrimp	0	0		NIL
A3. STEROIDS	Progesterone	Scampi	0	0	CCa: 0.20(Kochi)	NIL
		Fish	4	4		NIL
		Shrimp	0	0		NIL
	Medroxy Progesterone acetate	Scampi	0	0	CCa: 0.11(Kochi)	NIL
		Fish	4	4		NIL
		Shrimp	2839	2839	CCa:	1
A6. CHLORAMPHENICOL	Chloramphenicol	Scampi	32	32	0.06(Kochi) 0.13 (Nellore) 0.07(Bhimavaram)	NIL
		Fish	4	. 4	0.1(Bhubaneswar)	NIL
		Shrimp	2839	2839	CCa:	NIL
	AHD	Scampi	32	32	0.240 (Kochi) 0.506 (Nellore)	NIL
A6 Nitrofurn Metabolites		Fish	4	4	0.37(Bhimavaram) 0.408 (Bhubaneswar)	NIL
	44407	Shrimp	2839	2839	ССа: 0.186 (Kochi)	NIL
	AMOZ	Scampi	32	32	0.507 (Nelloré) 0.36(Bhimavaram)	NIL .

		Fish	4	4	0.405(Bhubaneswar)	NIL
		Shrimp	2839	2839	- CCα: 0.333 (Kochi)	4
	AOZ	Scampi	32	32	0.512 (Nelloré) 0.36(Bhimavaram)	NIL
		Fish	4	4	0.401 (Bhubaneswar)	NIL
		Shrimp	2839	2839	CCa:	NIL
:	SEM	Scampi	32	32	0.443 (Kochi) 0.513 (Nellore) 0.38(Bhimavaram)	NIL
		Fish	4	4	0.401(Bhubaneswar)	NIL
		Shrimp	213	213	CCa:	NIL
	DNSH	Scampi	17	17	0.26(Kochi) 0.27 (Nellore) 0.17(Bhimavaram)	NIL
		Fish	2	2	0.249(Bhubaneswar)	NIL
		Shrimp	2839	2839	CCa:	NIL
	Ronidazole	Scampi	32	32	0.39(Kochi)	NiL
A6 NITROIMIDAZOLES	i (Orlidazole	Fish	4	4	1.26 (Nellore) 0.32(Bhimavaram) 0.96(Bhubaneswar)	NIL
7.0 MITTOMMDAZOLLO		Shrimp	2839	2839	CCa:	NIL
	Metronidazole	Scampi	32	. 32	0.63(Kochi) 1.23 (Nellore)	NIL
		Fish	4	4	0.32(Bhimavaram) 0.96(Bhubaneswar)	NIL

		Shrimp	2839	2839	CCα:	NIL
	Dimetronidazole	Scampi	32	32	0.34(Kochi) 1.27 (Nellore)	NIL
	Dimotoridazoio	Fish	4	4	0.31(Bhimavaram) 0.96(Bhubaneswar)	NIL
		Shrimp	2467	2509	CCa:	NIL
	Inronidazala OH	Scampi	32	34	0.27(Kochi)	NIL
·	lpronidazole-OH -	Fish	2	2	1.25 (Nellore) 0.32(Bhimavaram) 0.95(Bhubaneswar)	NIL
		Shrimp	2839	2839	CCa:	NIL
	lpronidazole	Scampi	32	32	0.17(Kochi) 1.23 (Nellore)	NIL
		Fish	4	4	0.6(Bhubaneswar)	NIL
		Shrimp	2839	2839	CCa:	NIL
	Metronidazole-OH	Scampi	32	32	0.39(Kochi)	NIL
	Metroriidazoie-On	Fish	4	4	1.48 (Nellore) 0.33(Bhimavaram) 0.96(Bhubaneswar)	NIL
		Shrimp	2839	2839	CCa :	NIL
	HMMNI	Scampi	32	32	0.53(Kochi) 1.25 (Nellore)	NIL
	HIVIIVIIII	Fish	4	4	0.32(Bhìmavaram) 0.96(Bhubaneswar)	NIL
B1. ANTIBACTERIAL SUBSTAN	CES			1		
Tetracyclines with 4-epimers	Tetracycline	Shrimp	2843	2843	CCa:	NIL

			····		4044444	
		Scampi	32	32	104.1 (Kochi) 109.80 (N ellore)	NIL
		Fish	11	11	105.94(Bhimavaram) 111.1(Bhubaneswar)	NIL
		Shrimp	2843	2843	CCa:	NIL
	45.57	Scampi	32	32	103.6 (Kochi)	NIL
	4-Epi Tetracycline	Fish	11	11	115.0 (Nellore) 107.96(Bhimavaram) 111.0 (Bhubaneswar)	NIL
		Shrimp	2843	2843	CCa:	NIL
	Oxytetracycline	Scampi	32	32	102.8 (Kochi)	NIL
	Oxytetracycline	Fish	11	11 .	111.5 (Nellore) 107.29(Bhimavaram) 110.9(Bhubaneswar)	NIL
		Shrimp	2843	2843	CCa:	NIL
	4 Eni Ovutotro qualina	Scampi	32	32	103.2 (Kochi)	NIL
	4-Epi Oxytetracycline	Fish	11	11	111.3 (Nellore) 110.62(Bhimavaram) 110.9(Bhubaneswar)	NIL
		Shrimp	2843	2843	CCa:	NIL
	Chlortetracycline	Scampi	32	32	102.6 (Kochi)	NIL
	4-Epi Chlortetracycline	Fish	11	11	107.2 (Nellore) 106.47(Bhimavaram) 110.8 (Bhubaneswar)	NIL
		Shrimp	2843	2843	CCa:	NIL
		Scampi	32	32	103.1 (Kochi) 107.2 (Nellore)	· NIL

		Fish	11	11	106.54(Bhimavaram) 110.9(Bhubaneswar)	NIL
		Shrimp	2843	2843	CCa:	NIL
	Outline attention	Scampi	32	32	109.59 (Kochi)	NIL
	Sulphadiazine	Fish	11	11	108.70 (Nellore) 106.44(Bhimavaram) 110.8(Bhubaneswar)	NIL
		Shrimp	2843	2843	CCa:	NIL
	Sulfapyridine (SPD)	Scampi	32	32	113.05(Kochi) 106.69(Bhimavaram)	NIL
		Fish	11	11	111.0(Bhubaneswar)	NIL
		Shrimp	2843	2843	CCα: 110.99 (Kochi)	NIL
	Sulfamethoxizole(SMTX)	Scampi	32	32	107.02(Bhimavaram)	NIL
Sulfanoamides		Fish	11	11	110.7(Bhubaneswar)	NIL
		Shrimp	2843	2843	CCa:	NIL
	Sulfathiazole(STZ)	Scampi	32	32	109.15 (Kochi) 104.60(Bhimavaram)	NIL
		Fish	11	11	110.8(Bhubaneswar)	NIL
		Shrimp	2843	2843	CCa: 109.14 (Kochi)	NIL
	Sulfamerazine(SMR)	Scampi	32	32	103.37(Bhimavaram)	NIL
		Fish	11	11	111.2(Bhubaneswar)	NIL
		Shrimp	2843	2843	CCα: 111.52 (Kochi)	NIL
	Sulfamethizole(SMTZ)	Scampi	32	32	108.68(Bhimavaram)	NIL
		Fish	11	11	110.8 (Bhubaneswar)	NIL

	Sh	Shrimp	2843	2843	CCa: 106.60 (Kochi)	NIL
	Sulfamethazine(SMT)	Scampi	32	32	105.72(Bhimavaram)	NIL
		Fish	11	11	110.8(Bhubaneswar)	NIL
	* ***	Shrimp	2843	2843	CCa:	NIL
	Sulfadimethoxine(SDM) Fig	Scampi	32	32	111.40 (Kochi) 106.06(Bhimavaram)	NIL
•		Fish	11	11	110.9(Bhubaneswar)	NIL
		Shrimp	2843	2843	CCa: 115.72 (Kochi)	NIL
		Scampi	32	32	106.78(Bhimavaram)	NIL
		Fish	11	11	110.8(Bhubaneswar)	NIL
		Shrimp	2843	2843	CCα: 116.21(Kochi) 105.23(Bhimavaram) 111.0 (Bhubaneswar)	NIL
	Sulfadoxine(SD)	Scampi	32	32		NIL
		Fish	11	11		NIL
		Shrimp	2843	2843	CCα: 111.25(Kochi)	NIL
	Sulfachloropyridazine(SCP	Scampi	32	32	109.21(Bhimavaram)	NIL
		Fish	11	11	111.2 (Bhubaneswar)	NIL
		Shrimp	2843	2843	CCa:	NIL
		Scampi	32	32	106.27 (Kochi)	NIL
Quinolones /Fluroquinolones	Oxolinic Acid	Fish	11	11	106.50 (Nellore) 106.00(Bhimavaram) 111.0(Bhubaneswar)	NIL
	KI-Data to Aliva	Shrimp	2843	2843	LOQ:5 (Kochi)	NIL
	Nalidixic Acid	Scampi	32	32	CCα: 105.18 (Nellore)	NIL

	Fish	11	11	16.89(Bhimavaram) LOQ:8(Bhubaneswar)	NIL
	Shrimp	2843	2843		NIL
51 (51.11)	Scampi	32	32	CCα: 215.48 (Kochi)	NIL
Flumequine (FLU)	Fish	11	11		NIL
	Shrimp	2843	2843	LOQ:5 (Kochi) CCa:	NIL
Norfloxacin (NOR)	Scampi	32	32	18.54(Bhimavaram)	NIL
	Fish	11	11	LOQ:8(Bhubaneswar)	NIL
	Shrimp	2843	2843	CCα: 106.27 (Kochi)	NIL
Ciprofloxacin (CIP)	Scampi	32	32	105.88(Bhimavaram)	NIL
	Fish	11	11	110.7(Bhubaneswar)	NIL
	Shrimp	2843	2843	CCα: 106.14 (Kochi)	NIL
Enrofloxacin (ENR)	Scampi	32	32	106.72(Bhimavaram)	NIL
	Fish	11	11	110.7 (Bhubàneswar)	NIL
	Shrimp	2843	2843	CCa:	NIL
Sarafloxacin (SAR)	Scampi	32	32	31.91(Kochi) 32.19(Bhimavara m)	NIL
	Fish	11	11	33.09(Bhubaneswar)	NIL
Difloxacin (DIF)	Shrimp	2843	2843	CCα: 331.79 (Kochi)	NIL
 Dinoxaciii (Dii-)	Scampi	32	32	313.31(Bhimavaram)	NIL

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		Fish	11	11	336.4(Bhubaneswar)	NIL
		Shrimp	2843	2843	CCa: 109.29 (Kochi)	NIL
	Danofloxacin (DAN)	Scampi	32	32	106.27(Bhimavaram)	NIL
		Fish	11	11	110.8(Bhubaneswar)	NIL
		Shrimp	451	451		NIL
	Erythromycin A	Scampi	5	5	CCa : 223 (Kochi)	NIL
		Fish	3	3		NIL
		Shrimp	451	451	CCa : 55.6 (Kochi)	NIL.
	Tilmicosin	Scampi	5	5		NIL
Macrolides		Fish	3	3		NIL
Macrondes	Tylosin	Shrimp	451	451	CCα : 117.7 (Kochi)	NIL
		Scampi	5	5		NIL
		Fish	3	3		NIL
		Shrimp	451	451		NIL
	Spiramycin	Scampi	5	5	CCa : 225 (Kochi)	NIL
		Fish	3	3		NIL
		Shrimp	451	451		NIL
Beta Lactams	Ampicillin	Scampi	5	5	CCα: 53.8 (Kochi)	NIL
Dela Lacialiis		Fish	3	3		NIL
	Benzyl Penicillin	Shrimp	451	451	CCa : 56.5 (Kochi)	NIL

		Scampi	5	5		NIL
		Fish	3	3		NIL
		Shrimp	451	451		NIL
	Dicloxacillin	Scampi	5	5	CCa : 338 (Kochi)	NIL
		Fish	3	3		NIL
		Shrimp	451	451		NIL
	Oxacillin	Scampi	5	5	CCα: 327.4 (Kochi)	NIL
		Fish	3	3		NIL
		Shrimp	451	451		NiL
	Cloxacilin	Scampi	5	5	CCα : 327.6 (Kochi)	NIL
	Colistin A &B	Fish	3	3	CCa:168(CollistinA) CCa:164(Collistin B) (Kochi)	NIL
		Shrimp	451	451		NIL
		Scampi	5	5		NIL
		Fish	3	3		NIL
		Shrimp	451	451		NIL
	Amoxicillin	Scampi	5	5	CCa : 54.00 (Kochi)	NIL
		Fish	3	3		NIL
		Shrimp	451	451		NIL
Lincosamides	Lincomycin	Scampi	5	5	CCα: 112.9 (Kochi)	NIL
		Fish	3	3		NIL
Diaminopyramidines	Trimethoprim	Shrimp	451	451	CCa : 53.7 (Kochi)	NIL

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·		Scampi	5	. 5	·	NIL
		Fish	3	3		NIL
	•••	Shrimp	451	451		NIL
Doxycycline	Doxycycline	Scampi	5	5	CCa : 109.1 (Kochi)	NIL
		Fish	3	3		NIL
		Shrimp	451	451		NIL
	Cefalexin	Scampi	5	5	CCa : 228 (Kochi)	NIL
Cephalosporins -		Fish	3	3		NIL
		Shrimp	451	451	CCa : 54.4 (Kochi)	NIL
	Cefapirin	Scampi	5	5		NIL
		Fish	3	3		NIL
	Ivermectin	Shrimp	1153	1153	LOQ 3.00 (Kochi) 3 (Nellore)	NIL
		Scampi	15	15		NIL
B2a ANTHELMINTICS —		Fish	4	4	5 (Bhimavaram) CCα: 112(Bhubaneswar)	NI L
BZa ANTHELMINTICS —		Shrimp	1153	1153	CCα:	NIL
	Emmmectin	Scampi	15	15	111.00 (Kochi) 104.20 (Nellore) 114.20(Bhimavaram)	NIL
		Fish	4	4	112(Bhubaneswar)	NIL
33a ORGANOCHLORINE	A1-1-:-	Shrimp	570	570	> 1.00 40-mb	NIL
OMPOUNDS INCLUDING PCBS	Aldrin	Scampi	6	6	> LOQ -10ppb	NIL

		Fish	2	2		NIL
		Shrimp	570	570		NIL
·	Dieldrin	Scampi	6	6		NIL
		Fish	2	2		NIL
		Shrimp	570	570		NIL
	Chloradane	Scampi	6	6		NIL .
		Fish	2	2		NIL.
		Shrimp	570	570		NIL
	DDT	Scampi	6	6	,	NIL
		Fish	2	2		NIL
		Shrimp	570	570		NIL
	Endrin	Scampi	6	6		NIL
		Fish	2	2		NIL
		Shrimp	570	570	,	NIL
	Heptachlor	Scampi	6	6		NIL
		Fish	2	2		NIL
		Shrimp	570	570		NIL
	Hexachloro Benzene	Scampi	6	6		NIL
		Fish	2	2		NIL.
	AL-1 11014	Shrimp	570	570		NIL
	Alpha HCH	Scampi	6	6		NIL

-		Fish	2	2		NIL
		Shrimp	570	570		NIL
	Beta HCH	Scampi	6	6		NIL
		Fish	2	2	_	NIL
		Shrimp	570	570	_	NIL.
	Gamma HCH	Scampi	6	6	_	NIL
		Fish	2	2	_	NIL
		Shrimp	570	570		NIL
	PCBs	Scampi	6	6	ML: 75 Sum of 6 NDL- PCBs	NIL.
		Fish	2	2		NIL
	Mercury	Shrimp	567	567	ML:500	NiL
		Scampi	9	9		NIL
		Fish .	2	2		NIL
		Shrimp	567	567		NIL
	Cadmium	Scampi	9	9	ML:500	NIL
B3c CHEMICAL ELEMENTS		Fish	2	2		NIL
		Shrimp	567	567		NIL .
	Arsenic	Scampi	9	9	> LOQ- 40ppb	NIL
		Fish	2	2		NIL
	Lead	Shrimp	567	567	ML.FOO	NIL
	Leau	Scampi	9	9	ML:500	NIL

		Fish	2	2		NIL
		Shrimp	289	289	LOQ: 0.5 (Kochi)	NIL
	Aflatoxin B1	Scampi	2	2	LOQ: 0.5(Nellore) LOQ:0.5 (Bhimavaram)	NIL
B3d MYCOTOXINS		Fish	1	1	LOQ:0.5(Bhubaneswar)	NIL
B30 WTCOTOAINS		Shrimp	289	289	LOQ: 0.5 (Kochi)	NIL
	Aflatoxin B2	Scampi	2	2	LOQ: 0.5(Nellore) LOQ:0.5 (Bhimavaram)	NIL.
		Fish	1	1	LOQ:0.5(Bhubaneswar)	NIL
		Shrimp	286	286	CCa:	NIL
	Malachite green	Scampi	5	5	0.33 (Kochi) 0.17(Nellore) 0.37 (Bhimavaram) 0.24(Bhubaneswar)	NIL
	Walacinto green	Fish	2	2		NIL
		Shrimp	286	286	CCa:	NIL
	Leucomalachite green	Scampi	5	5	0.22(Kochi)	NIL
B3e DYES	Ledcomalacinte green	Fish	2	2	- 0.16(Nellore) 0.24 (Bhimavaram) 0.39(Bhubaneswar)	NIL
		Shrimp	286	286	CCa:	NIL
	Crystal Violet	Scampi	5	5	0.41 (Bhimavaram)	NIL
		Fish	2	2	0.23(Bhubaneswar)	NIL
		Shrimp	286	286	CCa:	NIL
	Leucocrystal Violet	Scampi	5	5.	0.49 (Bhimavaram)	NIL NIL
		Fish	2	2	0.35(Bhubaneswar)	. NIL

Annexure 4C

The Marine Products Export Development Authority
NRCP 2022 – List of Non-Compliant (Residue Positive) samples

SNo.	Sample ID	Type & Species	Test	Parameter	Value (μg/kg)
		FARM SAM	PLES - SHRIMI	1	
I	11/S1/Q1/0134/2022	Shrimp L.vannamei	Antibacterial- Gr.A	Nitrofuran Metabolite - AOZ	11.84
2	11/S1/Q1/0135/2022	Shrimp L.vannamei	Antibacterial- Gr.A	Nitrofuran Metabolite - AOZ	10.41
3	11/S1/Q1/0136/2022	Shrimp L.vannamei	Antibacterial- Gr.A	Nitrofuran Metabolite - AOZ	1.63
4	33/S1/Q1/1655/2022	Shrimp L.vannamei	Antibacterial- Gr.A	Nitrofuran Metabolite - AOZ	0.83
5	33/S1/Q1/2044/2022	Shrimp L.vannamei	Antibacterial- Gr.A	Chloramphenicol	0.12
	НА	TCHERY SAMI	PLES_SHRIMP	SEED	
6	11/S4/01/0044/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Nitrofuran Metabolite - AOZ	3.09
7	11/S4/01/0115/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Chloramphenicol	2.95
8	11/S4/01/0125/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Chloramphenicol	0.18
9	11/S4/01/0138/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Chloramphenicol	0.46
10	23/S4/01/0195/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Nitrofuran Metabolite - AOZ	165.65
11	23/84/01/0199/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Chloramphenicol	0.23
12	23/84/01/0217/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Nitrofuran Metabolite - AOZ	8.59
13	23/84/01/0223/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Chloramphenicol	1.67
	33/S4/01/0106/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Nitrofuran Metabolite - AOZ	628.99
15	33/S4/01/0107/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Nitrofuran Metabolite - AOZ	61.84

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16	33/84/01/0659/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Nitrofuran Metabolite - AOZ	43.12
17	33/S4/01/0660/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Nitrofuran Metabolite - AOZ	0.53
18	33/\$4/01/0866/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Chloramphenicol	0.96
19	33/S4/01/0867/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Chloramphenicol	0.35
20	33/S4/01/0876/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Chloramphenicol	0.06
21	33/S4/01/1479/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Chloramphenicol	0.68
22	33/S4/01/1480/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Chloramphenicol	0.40
23	33/S4/01/1495/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Chloramphenicol Nitrofuran Metabolite - AOZ	1.79 75.75
24	33/S4/01/1497/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Nitrofuran Metabolite - AOZ	1.83
25	33/S4/01/1498/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Chloramphenicol Nitrofuran Metabolite - AOZ	0.16 16.54
26	33/S4/01/1500/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Chloramphenicol	20.03
27	33/\$4/01/1501/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Chloramphenicol	0,20
28	33/S4/01/1677/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Nitrofuran Metabolite - AOZ	245.04
29	33/S4/01/1680/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Nitrofuran Metabolite - AOZ	193.84
30	33/S4/01/1681/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Chloramphenicol	0.30
31	33/\$4/01/1682/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Chloramphenicol Nitrofuran Metabolite - AOZ	2.80 247.74
32	33/84/01/1683/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Chloramphenicol	0.24

33	33/S4/01/1881/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Nitrofuran Metabolite - AOZ	330.58
34	33/\$4/01/2080/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Nitrofuran Metabolite - AOZ	0.58
35	33/S4/01/2081/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Nitrofuran Metabolite - AOZ	217.60
36	33/S4/01/2082/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Nitrofuran Metabolite - AOZ	1.87
37	33/\$4/01/2083/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Chloramphenicol Nitrofuran Metabolite - AOZ	12.71 4.09
38	33/\$4/01/2084/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Nitrofuran Metabolite - AOZ	904.46
39	33/\$4/01/2209/2022	Hatchery Sample Shrimp seed	Antibacterial- Gr.A	Chloramphenicol	9.42

Annexure 5

The Marine Products Export Development Authority (Ministry of Commerce & Industry, Govt. Of India) Kochi – 682 036

No. LAB-KOC/NRCP(NRCP)/1/2023

Dated: 01 January 2023

NRCP - Instructions - effective from January 2023.

- 1. The sampling procedure/strategy shall be as per the instruction contained in Annex-I of EU Commission Regulation 2022/1646 for Group A&B and Commission Regulation 2022/932 for Pesticides and other Contaminants. The sampling level for RDs/SRDs is being communicated to you separately.
- 2. The target given to each field office of MPEDA is in consideration production of shrimp/scampi/fish from their jurisdiction. The sample target for field office is fixed on the basis of district-wise production of farms and the month-wise targets for the field offices are also based on the various stages of production.
- 3. The collection of sample shall be unforeseen, unexpected and effected at no fixed time and on no particular day of the week and the sample collection must be done as per the guidelines on sample acceptance criteria.
- 4. The shrimp/scampi/fish samples under NRCP shall be collected by the designated residue monitoring officers (RMOs) only from farms that are enrolled by the Marine Products Export Development Authority (MPEDA), which may include farms approved by the Coastal Aquaculture Authority (CAA) and State fisheries Departments.
- 5. Samples must be collected in Polythene bags and properly labeled to maintain the sample integrity and traceability by using tamper proof seal. The container/packing must prevent the substitution, cross contamination and degradation of sample. The container/packing must be officially sealed. The designated officers for sample collection have to be provided with official seals by the concerned field offices.
- 6. The follow-up samples being collected from farms shall be considered as only additional samples over and above the samples allocated under NRCP to each region/state.
- 7. Sampling at farm level shall be in such a way that it covers major areas under aquaculture. In other words, there shall not be excess drawl of samples from one farm and similarly no farm will be left uncovered.
- 8. The farms reported with residue positive cases and processing plants reported with rejections/quality complaints have to be closely monitored and subjected to stringent and frequent sampling.
- 9. In case of farms situated in areas reported/suspected with presence/use of unknown chemicals/substances or indications of fraudulent activities, disease out breaks etc, more samples may be drawn.

10. Sampling levels:

• Shrimp (black tiger) farms

: 60 - 90 days & 15 days prior to harvest.

Scampi farms

: 60-90 days, 90-120 days & 15 days

prior to harvest.

Fish farms

: at any stage of production & 15 days prior to harvest.

- 11. In respect of farms, while the netting may be done by the employees of the farm, the supervision of the netting and actual selection of the samples shall be done by the MPEDA officer himself and not by the farm representative. When sample is drawn from the aquaculture farm, netting should be done at least in 4 to 5 positions of the pond. Sample netting may be done in each pond at equidistant places on four sides and the centre.
- 12. While collecting the hatchery samples (seed), a minimum of 20 25 gm (excluding water) shall be drawn. The supervision of seed sample collection shall be done by the MPEDA officer and not by the hatchery representative. The seed sample should be collected in polythene bags, sealed and transported in thermocol box packed with dry/wet ice.
- 13. In case of any farmer/hatchery operator want to retain a portion the collected sample as reference sample. The sample shall be divided equally from the drawn sample packed in polythene pouches and properly labeled, signed (by MPEDA & CAA officials wherever applicable) and sealed by using tamper proof seal. This sample shall be under custody of field office without losing the sample integrity.
- 14. All field offices are advised to draw samples from saltwater aquaculture (cage culture) also, as per availability in their region, for analysis of different substance groups.
- 15. RDs and SRDs are directed to use the GPS device while collecting samples from farms.
- 16. In the case of on-farm sampling, the farmer or his representative has to sign the original sampling report. The original sampling report has to be kept with the field office to guarantee that unauthorized persons cannot access the original report.
- 17. When collecting samples from the farm, the details of medication within the last 4 weeks before sampling shall be collected and indicated in the register as well as in the packing slip/sampling report that will accompany each sample.
- 18. As already in practice, the field offices shall maintain a register of samples collected and dispatched to the respective Laboratory.
- 19. The field offices shall verify periodically, the parameter-wise target/allocation assigned to each region/state, in order to ensure that all the districts in the region/state are covered for all the parameters in sample collection during the plan year.
- 20. The drawl of samples shall be done by the residue monitoring officer of MPEDA himself. This task should not be entrusted to any personnel of the farm/Hatchery/Feed mill.
- 21. The quantity (net weight) of sample drawn shall be 500 gm in case of farm / processing plant and 20 25 gm in case of hatchery seed.
- 22. The samples shall be forwarded to the respective MPEDA Laboratory with in 3 (three) days of its collection so as to reach the laboratory with in 30 (thirty) hours of dispatch.
- 23. All field offices shall ensure that the samples are collected and delivered to the QC Lab concerned before 20th of every month as per their monthly target/allocation.
- 24. The results of the tests communicated from the respective laboratory should be recorded in the specified columns in the registers maintained by the field offices.
- 25. Wherever non-compliant (residue positive) results are reported, the EIAs and MPEDA field offices concerned may take action as follows:
 - i. On receipt of the alert information along with test results, the EIA, CAA & MPEDA shall undertake the joint inspection of the facility to trace the origin/source of contamination. A joint inspection report shall be prepared & be available at EIA, CAA & MPEDA.
 - ii. The EIA, CAA & MPEDA officials collect follow up samples from the same premises for further analysis at MPEDA Laboratory. If the sample is found positive, on repeated

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- analysis the results shall be communicated by MPEDA to EIAs and the defaulting facility will be issued show cause notice by EIAs.
- iii. Based on the reply received from the facility, the ElA shall take the action as deemed fit.
- iv. A Committee headed by the In-charge of the EIA reviews regularly the non-compliant (residue positive) cases for appropriate follow-up guidelines and actions.
- 26. The farms reported with non-compliant results are subjected to more stringent checks for a period of at least twelve months by the EIAs.

Sd/-

(DR. M. KARTHIKEYAN)

DIRECTOR

Copy for information and necessary action, to:

- 1. All field offices of MPEDA
- 2. MPEDA QC Laboratories Kochi, Nellore, Bhimavaram & Bhubaneswar
- 3. Director, EIC of India, New Delhi