

INDIA

NATIONAL RESIDUE CONTROL PLAN

FOR

AQUACULTURE PRODUCTS

YEAR 2025



Export Inspection Council
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NATIONAL RESIDUE CONTROL PLAN OF INDIA
FOR AQUACULTURE PRODUCTS – 2025

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**NATIONAL RESIDUE CONTROL PLAN OF INDIA FOR
AQUACULTURE PRODUCTS – 2025**

1.	Introduction 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 antibacterials 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/Furans, dioxin like PCBs & Non 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, freshwater 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) dtd. 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 of India (EIC), the Competent Authority.
5.	Aquaculture in India India is one of the largest suppliers of shrimp to the world and ranks 2nd highest in aquaculture production in the global scenario. The country has a long coastline of 8118 km, 1.24 million hectares of brackish water area and 5.4 million hectares of fresh water area which contributes to the aquaculture (Handbook on Fisheries Statistics, 2022, Ministry of Fisheries, Animal Husbandry & Dairying, Govt. of India). In India, aquaculture constitutes mainly freshwater and brackish water culture and is practised in the 9 maritime states / 4 union territories of India. Andhra Pradesh is the leading state of aquaculture which produces about 78.59% of the total aquaculture crustaceans (<i>Litopenaeus vannamei</i>, <i>Penaeus monodon</i> and <i>Macrobrachium rosenbergii</i>) in India. Species-wise aquaculture production through inland and brackish water culture is given in Table-1 below. Presently, <i>L. vannamei</i> and <i>P. monodon</i> are the main shrimp 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 (MT)
Shrimp (<i>L. vannamei</i> , <i>P. monodon</i> & <i>P. indicus</i>)	11,63,440
Scampi (<i>Macrobrachium rosenbergii</i>)	5,601
Total	11,69,041

Source: MPEDA, 2023 -24

5.2

Details of State-wise production of brackish water shrimp & freshwater prawn (Scampi) during 2023-24:

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, Odisha and Tamil Nadu (MPEDA, 2023-24).

The aquaculture production of crustaceans (shrimp & scampi) in the country is given in Table-2 below.

Table – 2

State	<i>L. vannamei</i> & <i>P. monodon</i>	% (production)	<i>M. rosenbergii</i> (Scampi)	% (production)	Total Production (MT)
	Production (MT)		Production (MT)		
Andhra Pradesh	9,63,849	82.85	25	0.45	9,63,874
Gujarat and Daman & Diu	45,445	3.91	0	0	45,445
Karnataka & Goa	2,711	0.23	0	0	2,711
Kerala	2,570	0.22	0	0	2,570
Maharashtra	2,036	0.18	0	0	2,036
Odisha	43,039	3.70	0	0	43,039
Tamil Nadu	41,399	3.41	4.55	0.08	41,403
Telangana	209	0.01	0	0	14,107
West Bengal	62,180	5.34	5,572	99.47	62,180
Total	11,63,440		5,601		11,69,041

5.3	Details of State-wise production of freshwater fish during 2023-24:																																																
	Among the maritime states, most of the aquaculture activities are concentrated in Andhra Pradesh. The other leading states in aquaculture production are Tamil Nadu and Maharashtra (MPEDA, 2023-24). The aquaculture production of Fishes (Seabass, Tilapia, Pangasius) in the country is given below in Table – 2.1: Table – 2.1 <table><tr><th rowspan="2">State</th><th>Fishes (Seabass, Tilapia, Pangasius) Production (MT)</th><th>% (production)</th></tr><tr><th></th><th></th></tr><tr><td>Andhra Pradesh</td><td>1,63,780</td><td>92.45</td></tr><tr><td>Gujarat and Daman & Diu</td><td>381</td><td>0.22</td></tr><tr><td>Karnataka & Goa</td><td>9.5</td><td>0.01</td></tr><tr><td>Kerala</td><td>689</td><td>0.39</td></tr><tr><td>Maharashtra</td><td>3,473</td><td>1.96</td></tr><tr><td>Odisha</td><td>1,626</td><td>0.92</td></tr><tr><td>Tamil Nadu</td><td>5,217</td><td>2.95</td></tr><tr><td>Telangana</td><td>1,639</td><td>0.93</td></tr><tr><td>West Bengal</td><td>336</td><td>0.19</td></tr><tr><td>Total</td><td>1,77,151</td><td></td></tr></table>	State	Fishes (Seabass, Tilapia, Pangasius) Production (MT)	% (production)			Andhra Pradesh	1,63,780	92.45	Gujarat and Daman & Diu	381	0.22	Karnataka & Goa	9.5	0.01	Kerala	689	0.39	Maharashtra	3,473	1.96	Odisha	1,626	0.92	Tamil Nadu	5,217	2.95	Telangana	1,639	0.93	West Bengal	336	0.19	Total	1,77,151														
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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 <table><tr><th colspan="4">Number of Aquaculture Farms, Feed-mills & Hatcheries enrolled/registered under MPEDA</th></tr><tr><th>Region/State</th><th>Farms</th><th>Feed mills (functional)</th><th>Shrimp Hatcheries (functional)</th></tr><tr><td>Andhra Pradesh</td><td>40,707</td><td>22</td><td>169</td></tr><tr><td>Gujarat</td><td>1,309</td><td>2</td><td>3</td></tr><tr><td>Karnataka & Goa</td><td>506</td><td>-</td><td>-</td></tr><tr><td>Kerala</td><td>1,855</td><td>-</td><td>10</td></tr><tr><td>Maharashtra</td><td>419</td><td>-</td><td>-</td></tr><tr><td>Odisha</td><td>8,106</td><td>2</td><td>11</td></tr><tr><td>Tamil Nadu</td><td>2,507</td><td>4</td><td>40</td></tr><tr><td>Telangana</td><td>16</td><td>-</td><td>-</td></tr><tr><td>West Bengal</td><td>7,622</td><td>3</td><td>2</td></tr><tr><td>Total</td><td>63,047</td><td>33</td><td>235</td></tr></table>	Number of Aquaculture Farms, Feed-mills & Hatcheries enrolled/registered under MPEDA				Region/State	Farms	Feed mills (functional)	Shrimp Hatcheries (functional)	Andhra Pradesh	40,707	22	169	Gujarat	1,309	2	3	Karnataka & Goa	506	-	-	Kerala	1,855	-	10	Maharashtra	419	-	-	Odisha	8,106	2	11	Tamil Nadu	2,507	4	40	Telangana	16	-	-	West Bengal	7,622	3	2	Total	63,047	33	235
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5.6	Export of fish and fishery products (Shrimp and Fish) by EU/GB approved export establishments:
	During the year 2023-24, a total quantity of 89,697 MT of shrimp / products and 7,430 MT of fish / products were exported by EU / GB approved establishments to EU / GB and non-EU countries.
6.0	National Residue Monitoring in India
	There are 694 land based processing establishments in India. Of which, 456 and 502 establishments have been approved for processing of fish and fishery products to EU and GB respectively. In addition, 70 and 92 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 establishments 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 EU/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, Organo-chlorine Pesticides, PCBs, Dioxins, Heavy Metals, Dyes, methyl Testosterone 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 approved establishments shall procure aquaculture products only from farms registered with authorities authorized / designated by the Competent Authority. The Coastal Aquaculture Authority (CAA) registers aquaculture farms and hatcheries in salt and brackish waters in coastal areas (i.e. within two kilometers of the high tide lines of the coast and rivers). Registration of other aquaculture farms (e.g. inland freshwater farms) fall under the responsibility of the respective State Fisheries Authorities (SFAs). The MPEDA is one of the designated authorities for the enrolment of farms supplying aquaculture products for export, as well as of hatcheries and feed mills supplying feed to exporting aquaculture farms.

7.2	The Marine Products Export Development Authority (MPEDA),
	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. 2. Quality up-gradation and modernization of marine products industry. 3. 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, and 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 – 5th Floor, Panampilly Avenue, Kochi – 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: lab.bhi@mpeda.gov.in
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: lab.nel@mpeda.gov.in
7.3.4	MPEDA Quality Control Laboratory, Bhubaneswar
	2nd Floor, Raptani Bhavan, Near ID Market, IRC Village, Nayapalli, Bhubaneswar-751 015, Odisha Tel: +91-674-2362365, E-mail: lab.bhu@mpeda.gov.in

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: lab.por@mpeda.gov.in
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-chennai@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 equipment like Liquid Chromatography Tandem Mass Spectrometer (LC-MS/MS), Inductively Coupled Plasma - Mass Spectrometer (ICP-MS), High Performance Liquid Chromatograph (HPLC) with PDA, FLD detectors, Gas Chromatography Tandem Mass Spectrometer (GC-MS/MS), Automatic ELISA Analyzer 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 and EIA-Chennai Laboratory are accredited for 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 and EIA-Chennai Laboratory participate regularly in Proficiency Testing programmes organized by international PT providers like FAPAS, EIA PTP 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, Nitrofurantoin metabolites, Tetracyclines, Quinolones, Sulphonamides, Beta-lactams, Chemical Elements, Organochlorine Pesticides, Dioxin like PCBs, PCBs, Anthelmintics 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 Frequency :

For Group A and Group B the sampling frequencies as per Annex I to Commission Implementing Regulation (EU) 2022/1646. For contaminants as per Annex I to Regulation (EU) 2022/932. For pesticides, no minimum frequency of sampling as per EU Regulation (EU) 2021/1355.

Sl.no	Aquaculture commodity group	Substance group		EU Regulation
1	Shrimps (<i>Litopenaeus vannamei</i> , <i>Penaeus monodon</i> & <i>P. indicus</i>), Scampi (<i>Macrobrachium rosenbergii</i>) and Fin-fishes	Group A & B	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	Annex-I of EU Commission Regulation 2022/1646
2	Shrimps (<i>Litopenaeus vannamei</i> , <i>Penaeus monodon</i> & <i>P. indicus</i>), Scampi (<i>Macrobrachium rosenbergii</i>)	Pesticides and other Contaminants	Followed risk-based sampling i.e. one sample per 2,000 tons of production	For contaminants as per Annex I to Regulation (EU) 2022/932. For pesticides, no minimum frequency of sampling as per EU Regulation (EU) 2021/1355.
3	Fin-fishes	Pesticides	Followed risk-based sampling i.e. one sample per 2,000 tons of production	
4	Fin-fishes	Contaminants	one sample per 700 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	

(i) **Feed samples:** One sample per two registered feed mills (50%).

(ii) **Hatchery sample** (Shrimp seed): At least one sample from each hatchery under operation.

11.0	Number of Aquaculture Samples to be collected and analysed under NRCP 2025:																																														
	Table 4 - Number of aquaculture samples to be collected and analysed under NRCP 2025:																																														
	<table><tr><th>Type of sample</th><th>Aquaculture Production (M/T) (2023-24)</th><th>No. of samples to be analysed</th></tr><tr><td>1. Crustaceans (i) <i>L. vannamei</i> (ii) <i>P. monodon</i> (iii) <i>P. indicus</i> & (iv) <i>M. rosenbergii</i></td><td>11,69,041</td><td>2680</td></tr><tr><td>1. Freshwater Fin-fishes (i) <i>P. pangasius</i> (ii) <i>O. niloticus</i> (iii) <i>L. calcarifer</i></td><td>1,77,151</td><td>751</td></tr><tr><td colspan="2">TOTAL</td><td>3431</td></tr></table>							Type of sample	Aquaculture Production (M/T) (2023-24)	No. of samples to be analysed	1. Crustaceans (i) <i>L. vannamei</i> (ii) <i>P. monodon</i> (iii) <i>P. indicus</i> & (iv) <i>M. rosenbergii</i>	11,69,041	2680	1. Freshwater Fin-fishes (i) <i>P. pangasius</i> (ii) <i>O. niloticus</i> (iii) <i>L. calcarifer</i>	1,77,151	751	TOTAL		3431																												
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12.0	Table 5 - Break up of Aquaculture samples for analysis of various Group of substances																																														
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13.0	Table 6 - NRCP 2025- Break up of samples for analysis of Group A substances																																														
	<table><tr><th>Type of Sample</th><th>A1c Steroids</th><th>A2a Chloram phenicol</th><th>A2b Nitrofurans</th><th>A2c Nitro imidazoles</th><th>A2d other A2 substances</th><th>A3a Dyes</th><th>A3b Plant Protection products &</th><th>A3c unauthorised antimicrobials</th><th>No. of samples for Group A Substances</th></tr><tr><td>Aquaculture Crustacean s</td><td>--</td><td>180</td><td>180</td><td>80</td><td>100</td><td>50</td><td>85</td><td>80</td><td>755</td></tr><tr><td>Aquaculture Fin-fishes</td><td>15</td><td>85</td><td>85</td><td>15</td><td>15</td><td>15</td><td>15</td><td>14</td><td>259</td></tr><tr><td>Total</td><td>15</td><td>265</td><td>265</td><td>95</td><td>115</td><td>65</td><td>100</td><td>94</td><td>1014</td></tr></table>							Type of Sample	A1c Steroids	A2a Chloram phenicol	A2b Nitrofurans	A2c Nitro imidazoles	A2d other A2 substances	A3a Dyes	A3b Plant Protection products &	A3c unauthorised antimicrobials	No. of samples for Group A Substances	Aquaculture Crustacean s	--	180	180	80	100	50	85	80	755	Aquaculture Fin-fishes	15	85	85	15	15	15	15	14	259	Total	15	265	265	95	115	65	100	94	1014
Type of Sample	A1c Steroids	A2a Chloram phenicol	A2b Nitrofurans	A2c Nitro imidazoles	A2d other A2 substances	A3a Dyes	A3b Plant Protection products &	A3c unauthorised antimicrobials	No. of samples for Group A Substances																																						
Aquaculture Crustacean s	--	180	180	80	100	50	85	80	755																																						
Aquaculture Fin-fishes	15	85	85	15	15	15	15	14	259																																						
Total	15	265	265	95	115	65	100	94	1014																																						

	Table 7 - NRCP 2025- Break up of samples for Analysis of Group B substances contaminants and Pesticides						
14.0							
	Type of Sample	Group B substances		Pesticides	Contaminants		Total
		B1a Anti microbials	B1b Anthel mintics	Organo chlorinated compounds	PCBs	Heavy Metals (As, Pb, Hg & Cd)	
	Aquaculture Crustaceans	545	210	585	117	468	1925
	Aquaculture Fin-fishes	184	75	89	29	115	492
	Total	729	285	674	146	583	2417
15.0	Table 8 - NRCP 2025 - Hatchery & Feed Samples:						
	Sl no.	Item	Parameter	No. of Hatcheries / Feed-mills in operation	No. of samples to be analysed	Criteria for sampling	
	1	Feed	NF + CAP	33	17	Samples from 50% of registered feed mills	
	2	Hatchery Seed	NF + CAP	235	235	Samples from 100% of operational Hatcheries	
16.0	Table 9 - Total number of Samples proposed under NRCP 2025						
	Sl no.	Item / species				No. of Samples to be tested by MPEDA Labs	
	1	Crustaceans				2680	
		Shrimp (L. vannamei / P. monodon/ P indicus) & Scampi (M. rosenbergii)					
	2	Fresh water Fin-fishes				751	
		(i) P. pangasius					
		(ii) O. niloticus					
		(iii) L. calcarifer					
	Sub Total					3431	
	3	Hatchery seed				235	
	4	Feed				17	
Sub Total					252		
GRAND TOTAL					3683		

17.0	Collection and transportation of samples
	Whole shrimps/fish samples of 500 gms shall be taken from farms for analysis. In case of samples from hatchery, 20 to 25 gms 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 sample is 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).
18.0	Handling of sample in the Laboratory
	Immediately on receipt, the samples are decoded and stored in deep freezer at -18°C ($\pm 2^{\circ}\text{C}$). 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 (retained 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 generated and received by the Field Offices of MPEDA & EIAs electronically (online).

19.0	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 EIA, MPEDA and 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) CAA* shall inform the outcome of the investigation to the EIA and MPEDA. g) The farms reported with non-compliant results are subjected to more stringent checks for a period of at least twelve months by EIAs. h) A Committee headed by the In-charge of the EIAs shall monthly review the non-compliant (residue positive) cases for appropriate follow-up guidelines and actions. i) A monthly summary of the samples drawn, tested and results (including positive and negative), shall be communicated to the Competent Authority by MPEDA. j) EIAs shall send the monthly report of action taken on non-compliance results to EIC as per format at Annexure-6. *In case of positive test results (non-compliant samples) from the hatcheries falling under the jurisdiction of CAA.

20.0	List of substances/residues and their RPA /MMPR/MRL/ML:			
20.1	Group A Substances			
	Substance group	Substances	Substance monitored	RPA /MMPR
	A1c	Steroids	Progesterone	No limits established**
			Medroxy Progesterone (acetate)	MMPR- 1 µg/kg
			17-β estradiol	MMPR- 1 µg/kg
			17-alpha-methyl Testosterone	MMPR- 1 µg/kg
	A2a	Chloramphenicol	Chloramphenicol	RPA: 0.15 µg/kg
	A2b	Nitrofurans	Nitrofurantoin 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, Iprnidazole and their hydroxyl compounds)	MMPR - 1.0 µg/kg
	A2d	other A2 substance	Dapsone	MMPR - 5 µg/kg
	A3a	Dyes	Malachite Green and Leucomalachite Green	RPA: 0.5 µg/kg (sum)
			Crystal Violet and Leucocrystal Violet	MMPR – 0.5 µg/kg (sum)
	A3b	Plant protection products and biocides	2,5-dichlorobenzoic acid methyl ester (sum of 2,5-dichlorobenzoic acid and its ester)	Default MRL-10 µg/kg* as per EU Regulation 396/2005 and 2019/1176.
	A3c	Other unauthorised antimicrobials	Norfloxacin	No limits established**
			Nalidixic acid	No limits established**
			Cefalexin	No limits established**
Cefapirin (sum of cephapirin and desacetylcephapirin)			No limits established**	
* Limit of analytical determination				
** Working Limit (ALARA) is determined by each Lab				

Group B substances/residues:

B1a	Antimicrobials	MRL	
	1. Quinolones/ Fluoro-quinolones	Oxolinic acid	100 µg/kg
		Difloxacin	300 µg/kg
		Sarafloxacin	30 µg/kg
		Enrofloxacin (sum of Enrofloxacin & Ciprofloxacin)	100 µg/kg
		Danofloxacin	100 µg/kg
		Flumequine - Finfish	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
	3. Sulfonamides	Sulfadiazine, Sulfamethoxazole, Sulfamethoxypyridine, Sulfamethizole, Sulfamethazine, Sulfamerazine, Sulfapyridine, Sulfadimethoxine, Sulfachloropyradizine, Sulfathiazole, Sulfadoxine	100 µg/kg (MRL - sum of all Sulfonamides)
	4. Macrolides	Erythromycin A	200 µg/kg
		Tilmicosin	50 µg/kg
		Tylosin	100 µg/kg
	5. Beta Lactams	Lincomycin	100 µg/kg
		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. Diaminopyrimidines	Trimethoprim	50 µg/kg
	8. Aminoglycosides	Neomycin B	500 µg/kg
		Spectinomycin	300 µg/kg
B1b	Anthelmintics	Emamectin	100 µg/kg
		Ivermectin	No limits established**

Pesticides:

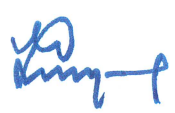
Pesticides	Organochlorine compounds	Substances monitored	MRL
		α BHC	No MRL. Default value of 0.01 mg/kg for each compound (as per EU Regulation 396/2005)
		β BHC	
		γ BHC	
		Aldrin	
		2,4 DDT	
		4,4 DDT	
		2,4 DDE	
		4,4 DDE	
		2,4 DDD	
		4,4 DDD	
		Heptachlor	
		Heptachlor Epoxide	
		Dieldrin	
		Endrin	
		HCB	
		Cis-Chlordane	
		Trans-Chlordane	
		Oxy-Chlordane	

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

	Contaminants:			
	Contaminants	Substances monitored		ML
	Halogenated persistent organic pollutants	PCBs	PCBs (PCB 28, PCB 52, PCB 101, PCB 138, PCB 153, PCB 180)	0.075 mg/kg (sum of PCBs)
		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 - Crustaceans Mercury - Fish muscle	0.5 mg/kg
			Cadmium -Crustaceans Cadmium - Fish muscle	0.5 mg/kg 0.05 mg/kg
			Arsenic –Crustaceans Arsenic - Fish muscle	No ML* Default value of 76 mg/kg (as per National MRL)
			Lead - Crustaceans Lead -Fish muscle	0.5 mg/kg 0.3 mg/kg
	<i>* LOD & LOQ is determined as working limit by individual laboratory</i>			
21.0	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.			

21.1	Group-A Substances:			
	Group as per Directive	Marker Residue	Technique	Equipment
	A1c (Steroids)	Progesterone Medroxy Progesterone (acetate) 17- β Oestradiol 17-alpha-methyl Testosterone	Liquid Chromatography Tandem Mass Spectrometry	LC-MSMS
	A2a Prohibited substances listed in Table 2 of the Annex to Regulation (EU) No 37/2010 -Chloramphenicol	Chloramphenicol	Liquid Chromatography Tandem Mass Spectrometry	LC-MSMS
	A2b Prohibited substances listed in Table 2 of the Annex to Regulation (EU) No 37/2010 - Nitrofurans	Nitrofurans Metabolites (AOZ, AMOZ, SEM, AHD & DNSH) Nitrofurans (parent compounds, in case of feed samples)	Liquid Chromatography Tandem Mass Spectrometry	LC-MSMS
	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	LC-MSMS
	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	LC-MSMS
	A3a Dyes	Malachite Green (Sum of Malachite Green and Leucomalachite Green) Crystal Violet (Sum of Crystal Violet and And Leucocrystal Violet)	Liquid Chromatography Tandem Mass Spectrometry	LC-MSMS
	A3b Protection products & biocides	2,5-dichlorobenzoic acid methyl ester (sum of 2,5-dichlorobenzoic acid and its ester)	Liquid Chromatography Tandem Mass Spectrometry	LC-MSMS
	A3c Other un-authorized antimicrobials	Norfloxacin Nalidixic acid	Liquid Chromatography Tandem Mass Spectrometry	LC-MSMS

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

	Pesticides Organochlorine compounds	α BHC, β BHC, γ BHC, Aldrin and Dieldrin (Aldrin and dieldrin combined expressed as dieldrin) DDT (2,4 DDT, 4,4 DDT, 2,4 DDE, 4,4 DDE, 2,4 DDD, 4,4 DDD) Heptachlor (sum of heptachlor and heptachlor epoxide expressed as heptachlor) Endrin, HCB, Chlordane (sum of cis- and trans-chlordane), Oxy-Chlordane	Gas Chromatography Tandem Mass Spectrometry	GC MSMS
	Contaminants Halogenated persistent organic pollutants PCBs	Sum of Non Dioxin like PCBs (PCB-28, PCB-52, PCB-101, PCB-138, PCB-153, PCB-180)	Gas Chromatography Tandem Mass Spectrometry	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
22.0	Non-compliant (residue positive) samples of NRCP 2024:			
22.1	Under NRCP 2024, against the target/plan of 3,692 samples (shrimp, scampi and fin-fishes), a total of 3,706 were received and analyzed. The number of non-compliant (residue positive) samples detected were two (fin-fish: 2) under Group-A due to residues of Chloramphenicol and Nitrofurantoin Metabolite – AOZ. All the shrimp samples from farms were found compliant.			
22.2	Feed & Hatchery Samples:			
	Under NRCP 2024, 17 feed and 269 hatchery samples were received and analyzed against the target/ plan of 16 feed and 260 hatchery samples. There were no non-compliant feed samples, while 9 seed samples from shrimp hatcheries were tested non-compliant due to the presence of residues of Group-A substances such as Chloramphenicol and Nitrofurantoin Metabolite – AOZ. Details of the non compliant samples are given at Annexure-4A, 4B & 4C.			
	  Nitin Kumar Yadav IAS Joint Secretary, Department of Commerce & Director (Insp. & Quality Control) Export Inspection Council Ministry of Commerce & Industry Government of India 01.05.2025			

Annex- 1

Note	Instructions for completion of risk-based residue control plans for <u>Group A</u> and <u>Group B</u> substances, <u>pesticides</u> and <u>contaminants</u>
1	Templates to be completed. For <u>each commodity</u> 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 B 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	Sample numbers (as laid down in EU legislation). 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). 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).
3	Basis of the calculation of sample numbers - annual production or split/segregated production system. 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 <u>national</u> production figures. <u>In this case the annual national production data should be entered in cell \$C\$7 (or cell \$B\$7 for contaminants).</u> 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. <u>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 (listed in the Commission's TRACES-NT database, regardless of the actual export volumes to the EU).</u>

Note	Instructions for completion of risk-based residue control plans for <u>Group A</u> and <u>Group B</u> substances, <u>pesticides</u> and <u>contaminants</u>
4	Substances to be tested for. 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 sub-groups 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 IIB 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 and analytical methods. 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 maximises 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, LC-MS/MS for confirmation, AAS and ICP-MS for metals, GC-MS for pesticides etc).

Note	Instructions for completion of risk-based residue control plans for Group A and Group B substances, pesticides and contaminants
6	Detection limits and levels of action. 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 <u>always be lower than the MRL</u>. 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	<u>EU</u> Maximum residue limits - MRLs - (for residues of pharmacologically active substances), Maximum Residue Levels - MRLs - (for pesticides), Maximum Levels - MLs - (for contaminants) and the corresponding <u>national</u> MRLs and MLs. To expedite the assessment of the plans for Group B substances, pesticides and contaminants, competent authorities should list <u>both</u> their national MRL/ML for each analyte (if established) <u>and</u> 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. -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 ensure that the non-EU compliant consignment does not enter the EU food chain.
8	Detailed guidance on residue controls can be found on the website of the European Commission at the following hyperlink: https://food.ec.europa.eu/document/download/a2661e60-c1cc-4b0f-98bc-ee5edcf17c9c_en

See Annex I to Regulation (EU) 2022/1644

Group A		Prohibited or unauthorised pharmacologically active substances in food-producing animals
1		Substances with hormonal and thyrostatic action and beta agonists the use of which is prohibited under Council Directive 96/22/EC:
	(a)	Stilbenes;
	(b)	Antithyroid agents;
	(c)	Steroids;
	(d)	Resorcylic acid lactones, including zeranol;
	(e)	Beta-agonists.
2		Prohibited substances listed in Table 2 of the Annex to Regulation (EU) No 37/2010:
	(a)	Chloramphenicol;
	(b)	Nitrofurans;
	(c)	Dimetridazole, metronidazole, ronidazole and other nitroimidazoles;
	(d)	Other substances.
3		Pharmacologically active substances, not listed in Table 1 of the Annex to Regulation (EU) No 37/2010 or substances not authorised 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:
	(a)	Dyes;
	(b)	Plant protection products as defined in Regulation (EU) No 1107/2009 of the European Parliament and of the Council and biocides as defined in Regulation (EU) No 528/2012 of the European Parliament and of the Council which may be used in animal husbandry of food-producing animals;
	(c)	Antimicrobial substances;
	(d)	Coccidiostats, histomonostats and other antiparasitic agents;
	(e)	Protein and peptide hormones;
	(f)	Anti-inflammatory substances, sedatives and any other pharmacologically active substances;
	(g)	Antiviral substances.

Annexure 1A-Substance groups A&B

See Annex I to Regulation (EU) 2022/1644

Group B		Pharmacologically active substances <u>authorised</u> for use in food-producing animals
1		Pharmacologically active substances listed in Table 1 of the Annex to Regulation (EU) No 37/2010:
	(a)	Antimicrobial substances;
	(b)	Insecticides, fungicides, anthelmintics and other antiparasitic agents;
	(c)	Sedatives;
	(d)	Non-steroidal anti-inflammatory drugs (NSAIDs), corticosteroids and glucocorticoids;
	(e)	Other pharmacologically active substances.
2		Coccidiostats and histomonostats authorised according to Union legislation, for which maximum levels and maximum residue limits are set under Union legislation

Annexure 1B – Group A substances to be tested

Group A Substances (see tab c. in this Excel sheet)	Commodity Group									
	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	X						X		
A(1)(b)	X	X	X							
A(1)(c)	X	X	X		X ⁽²⁾					
A(1)(d)	X	X								
A(1)(e)	X	X	X	X						
A(2)	X	X	X	X	X	X	X	X	X	X
A(3)(a)					X					
A(3)(b)	X	X	X	X	X	X	X	X	X	
A(3)(c)	X	X	X	X	X	X	X	X	X	
A(3)(d)	X	X		X			X	X		
A(3)(e)										
A(3)(f)	X	X	X	X	X	X	X	X	X	
A(3)(g)										

⁽²⁾ Relevant only for finfish

Annexure 1C- Aquaculture finfish (Group A)

Regulatory programme for the control of veterinary drug residues in food - Group A samples

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Country	INDIA	DATE
Year of plan implementation	2025	30-12-24
Animal species or product	FINFISH	
National PRODUCTION DATA in TONNES (referring to the previous year)	177151	
PRODUCTION DATA in TONNES for calculation of SAMPLE NUMBERS. (referring to previous year's production)	177151	
Number of samples	As per Annex I to Reg (EU) 2022/1646	As per Codex Alimentarius (CAC/GL 71-2009)
Calculated minimum no of <u>samples</u> for Group A (based on cell C7)	259	
<u>Planned</u> number of samples	259	

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If there is a split or segregated system is in place for exports to the EU (i.e. this is only possible from a number of establishments, the total annual production of only those establishments may be entered in cell C7 (regardless of the proportion of that production which was exported to the EU). If there is no split system, and farmed FINFISH from ALL FARMS are eligible for export to the EU, national production data must be entered in cell C7.

The total number of samples taken should at least be equal to the minimum number of samples for Group A in total (in Cell C9)	Sum of all samples	259
	Planned number	259
	Minimum no reqd	259

Groups of substances to be controlled		NUMBER OF SAMPLES		COMPOUND or MARKER RESIDUE	MATRIX ANALYSED	SCREENING METHOD	Validated (Y/N)	CONFIRMATORY METHOD	Validated (Y/N)	SCREEN.METH. DETECTION LIMIT [µg/Kg]	CONFIR.METH. DETECTION LIMIT [µg/Kg]	LEVEL OF ACTION (i.e. concentration above which a result is deemed non-compliant) [µg/Kg]	LABORATORY NAME
		MIN	PLAN										
A1c	Steroids with androgenic, estrogenic or progestagenic activity	13	15	Progesterone	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	MMPR=1	0.2	MPEDA QC Laboratory, Kochi
				Medroxy- progesterone (acetate)	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	MMPR=1	0.11	MPEDA QC Laboratory, Kochi
				17β-estradiol	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	MMPR=1	0.2	MPEDA QC Laboratory, Kochi
				17-alpha-methyl Testosterone	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	N	NA	MMPR=1	*	MPEDA QC Laboratory, Kochi

A2a	Chloramphenicol	13	85	Chloramphenicol	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	RPA=0.15	0.06; 0.13; 0.07; 0.1 & 0.06	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
A2b	Nitrofurans	13	85	AOZ	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	RPA=0.5	0.333; 0.512; 0.36; 0.401 & 0.13	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
				AMOZ	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	RPA=0.5	0.106; 0.507; 0.36; 0.405 & 0.12	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
				AHD	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	RPA=0.5	0.24; 0.506; 0.37; 0.408 & 0.12	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
				SEM	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	RPA=0.5	0.443; 0.513; 0.38; 0.401 & 0.14	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
				DNSH	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	RPA=0.5	0.26; 0.27; 0.17; 0.249 & 0.15	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
A2c	Nitroimidazoles	13	15	Metronidazole	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	MMPR=1	0.63; 0.32; 0.96	MPEDA QC Laboratory, Kochi, Bhimavaram & Bhubaneswar.
				Metronidazole-OH	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	MMPR=1	0.39; 0.33; 0.96	MPEDA QC Laboratory, Kochi, Bhimavaram & Bhubaneswar.
				Ipronidazole	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	MMPR=1	0.17; 0.6	MPEDA QC Laboratory, Kochi, Bhimavaram & Bhubaneswar.

				Ipronidazole-OH	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	MMPR=1	0.27; 0.32; 0.95	MPEDA QC Laboratory, Kochi, Bhimavaram & Bhubaneswar.
				Dimetronidazole	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	MMPR=1	0.34; 0.31; 0.96	MPEDA QC Laboratory, Kochi, Bhimavaram & Bhubaneswar.
				Ronidazole	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	MMPR=1	0.39; 0.32; 0.96	MPEDA QC Laboratory, Kochi, Bhimavaram & Bhubaneswar.
				HMMNI	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	MMPR=1	0.53; 0.32; 0.96	MPEDA QC Laboratory, Kochi, Bhimavaram & Bhubaneswar.
A2d	Other A2 substances	13	15	Dapsone	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	MMPR=5	1.43	MPEDA QC Laboratory, Nellore
A3a	Dyes	13	15	Malachite Green	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	RPA=0.5 (sum)	0.17(Nellore) 0.37 (Bhimavaram) 0.24(Bhubaneswar)	MPEDA QC Laboratory Nellore, Bhimavaram & Bhubaneswar.
				Leuco Malachite Green	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA		0.16(Nellore) 0.24 (Bhimavaram) 0.39(Bhubaneswar)	MPEDA QC Laboratory Nellore, Bhimavaram & Bhubaneswar.
				Crystal Violet	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	MMPR=0.5(sum)	0.41 (Bhimavaram) 0.23(Bhubaneswar)	MPEDA QC Laboratory Nellore, Bhimavaram & Bhubaneswar.
				Leuco Crystal Violet	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA		0.49 (Bhimavaram) 0.35(Bhubaneswar)	MPEDA QC Laboratory Nellore, Bhimavaram & Bhubaneswar.
A3b	Plant protection products and biocides	13	15	2,5-dichlorobenzoic acid methyl ester	skin and muscle in natural proportion	Not Applicable	N	GC-MS/MS	N	NA	MRL=10	10	MPEDA QC Laboratory, Kochi & Bhimavaram.

A3c	Unauthorised antimicrobials	13	14	Norfloxacin	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	No limit prescribed.	5 (Kochi) 18.54(Bhimavaram) :8(Bhubaneswar) & 33.5 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
				Nalidixic acid	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	No limit prescribed.	5 (Kochi) 105.18 (Nellore) 16.89(Bhimavaram) 8(Bhubaneswar) & 31.9 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
				Cefalexin	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	No limit prescribed.	20(Kochi)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
				Cefapirin	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	No limit prescribed.	20(Kochi)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
A3f	Unauthorised anti-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 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(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.

Note: In cases where Screening method is Not Applicable, only a chemical confirmatory test is used & no screening methods are applied

* Validation under progress to be completed by June 2025

Annexure 1D- Aquaculture finfish (Group B)

Regulatory programme for the control of veterinary drug residues in food - **Group B samples**Check
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Country	INDIA	DATE
Year of plan implementation	2025	30-12-24
Animal species or product	FINFISH	
National PRODUCTION DATA in TONNES (referring to the previous year)	177151	
PRODUCTION DATA in TONNES for calculation of SAMPLE NUMBERS. (referring to previous year's production)	177151	
Basis for number of samples	As per Annex I to Reg (EU) 2022/1646	As per Codex Alimentarius (CAC/GL 71-2009)
Calculated minimum number of samples for Group B (based on cell C7)	259	
Planned number of samples	259	

The total number of samples taken should at least be equal to the minimum number of samples for Group B in total (in Cell C9)	Sum of all samples	259
	Planned number	259
	Minimum no reqd	259

If a split system is in place for exports to the EU (i.e. this is only possible from a number of establishments, the total annual production of only those establishments may be entered in cell C7 (regardless of the proportion of that production which was exported to the EU). If there is no split system, and farmed FINFISH from ALL FARMS are eligible for export to the EU, **national production data must be entered in cell C7.**

Groups of substances to be controlled	Planned number of SAMPLES	COMPOUND or MARKER RESIDUE	MATRIX ANALYSED	SCREENING METHOD	Validated (Y/N)	CONFIRMATORY METHOD	Validated (Y/N)	SCREEN.METHOD. DETECTION LIMIT [µg/kg]	CONFIRM.METHOD. DETECTION LIMIT [µg/kg]	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]	LABORATORY NAME
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B1 a	Antimicrobia ls	184	Tetracyclines with its 4- epimers	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	25		100	104.1 (Kochi) 109.80 (Nellore) 105.94(Bhimavaram) 111.1(Bhubaneswar) & 111.0 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
			Oxytetracycline s with its 4- epimers	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	25		100	102.8 (Kochi) 111.5 (Nellore) 107.29(Bhimavaram) 110.9(Bhubaneswar) & 110.7(Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
			Chlortetracycli nes with its 4- epimers	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	25		100	102.6 (Kochi) 107.2 (Nellore) 106.47(Bhimavaram) 110.8 (Bhubaneswar) & 109.4 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
				skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	5		100	106.27 (Kochi) 106.50 (Nellore) 106.00(Bhimavaram) 111.0(Bhubaneswar) & 109.1 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
			Oxolinic acid	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	5		100	106.27 (Kochi) 106.50 (Nellore) 106.00(Bhimavaram) 111.0(Bhubaneswar) & 109.1 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
			Flumequine	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	5		600	215.48 (Kochi) 216.50(Bhimavaram) 224.7(Bhubaneswar) & 218.1 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
				skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	5		30	31.91(Kochi) 32.19(Bhimavaram) 33.09(Bhubaneswar) & 32.6 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
			Sarafloxacin	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	5		30	31.91(Kochi) 32.19(Bhimavaram) 33.09(Bhubaneswar) & 32.6 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
			Enrofloxacin	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	5		100(sum)	106.14 (Kochi) 106.72(Bhimavaram) 110.7 (Bhubaneswar) & 113 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
				skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	5			106.27 (Kochi) 105.88(Bhimavaram) 110.7(Bhubaneswar) & 111.5 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
			Difloxacin	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	5		300	331.79 (Kochi) 313.31(Bhimavaram) 336.4(Bhubaneswar) & 332.2 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar

			Danofloxacin	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	5	100	109.29 (Kochi) 106.27(Bhimavaram) 110.8(Bhubaneswar) & 112.9 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
			Sulphadiazine	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	5	100 (sum)	109.59 (Kochi) 108.70 (Nellore) 106.44(Bhimavaram) 110.8(Bhubaneswar) & 111 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
			Sulphapyridine	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	5		113.05(Kochi) 106.69(Bhimavaram) 111.0(Bhubaneswar) & 113.5 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
			Sulphamethazine	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	5		106.60 (Kochi) 105.72(Bhimavaram) 110.8(Bhubaneswar) & 111 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
			Sulphamerazine	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	5		109.14 (Kochi) 103.37(Bhimavaram) 111.2(Bhubaneswar) & 111.9 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
			Sulphathiazole	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	5		109.15 (Kochi) 104.60(Bhimavaram) 110.8(Bhubaneswar) & 110.5 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
			Sulphamethoxazole	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	5		111.52 (Kochi) 108.68(Bhimavaram) 110.8 (Bhubaneswar) & 110.9 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
			Sulphachloropyridazine	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	5		111.40 (Kochi) 106.06(Bhimavaram) 110.9(Bhubaneswar) & 115.5 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
			Sulphadoxine	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	5		116.21(Kochi) 105.23(Bhimavaram) 111.0 (Bhubaneswar) & 114.2 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar

			Sulphadimethoxine	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	5			115.72 (Kochi) 106.78(Bhimavaram) 110.8(Bhubaneswar) & 112.1 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
			Sulphamethoxy pyridazine	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	5			111.40 (Kochi) 106.06(Bhimavaram) 110.9(Bhubaneswar) & 110.1(Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
			Sulphamethizole	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	5			111.52 (Kochi) 108.68(Bhimavaram) 110.8 (Bhubaneswar) & 110.6 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
			Erythromycin A	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	10	200	223		MPEDA QC Laboratory, Kochi
			Colistin	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	10	150	CCα:168(ColistinA) CCα:164(Colistin B)		MPEDA QC Laboratory, Kochi
			Cloxacillin	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	10	300	327.6		MPEDA QC Laboratory, Kochi
			Dicloxacillin	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	10	300	338		MPEDA QC Laboratory, Kochi
			Oxacillin	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	10	300	327.4		MPEDA QC Laboratory, Kochi
			Trimethoprim	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	10	50	53.7		MPEDA QC Laboratory, Kochi
			Ampicillin	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	10	50	53.8		MPEDA QC Laboratory, Kochi
			Amoxicillin	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	10	50	54		MPEDA QC Laboratory, Kochi
			Tylosin A	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	10	100	117.7		MPEDA QC Laboratory, Kochi
			Lincomycin	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	10	100	112.9		MPEDA QC Laboratory, Kochi

			Neomycin B	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	N	NA	100		500	100	MPEDA QC Laboratory, Kochi
			Spectinomycin	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	N	NA	100		300	100	MPEDA QC Laboratory, Kochi
			Tilmicosin	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	10		50	55.6	MPEDA QC Laboratory, Kochi
			Benzylpencillin	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	10		50	56.5	MPEDA QC Laboratory, Kochi
B1 b	Insecticides, fungicides, anthelmintics and other antiparasitic agents	75	Emamectin	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	100		100	104.20 (Nellore) & 112(Bhubaneswar)	MPEDA QC Laboratory, Kochi, Nellore & Bhubaneswar.
			Ivermectin	skin and muscle in natural proportion	Not Applicable	N	LC-MS/MS	Y	NA	10		No limit prescribed	(Nellore) & CC-α : 112(Bhubaneswar)	MPEDA QC Laboratory, Kochi, Nellore & Bhubaneswar.
B1 c	Sedatives													
B1 d	NSAIDs, corticosteroids and glucocorticoids													
B1 e	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 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 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 animal,s 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.

Note: In cases where Screening method is Not Applicable, only a chemical confirmatory test is used & no screening methods are applied

Annexure 1E- Aquaculture finfish (Pesticides)

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Risk-based regulatory programme for the control of pesticides in food

Country	INDIA	DATE
Year of plan implementation	2025	30-12-24
Animal species or product	Finfish	
Planned no of samples (<i>no minimum set</i>)	89	

Groups of pesticides to be controlled	Planned number of SAMPLES	COMPOUND or MARKER RESIDUE	MATRIX ANALYSED	SCREENING METHOD	Validated (Y/N)	CONFIRMATORY METHOD	Validated (Y/N)	SCREEN.METH. DETECTION LIMIT [µg/kg]	CONFIR. METH. DETECTION LIMIT [µg/kg]	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]	LABORATORY NAME
Organochlorinated compounds	89	Alpha BHC	muscle	Not Applicable	N	GC-MS/MS	Y	NA	10		Default value of 10 µg/kg for each compound (as per EU Regulation 396/2005)	10	MPEDA QC Laboratory, Bhimavaram / Kochi
		Beta BHC	muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi
		Gamma BHC	muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi
		HCB	muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi
		Heptachlor	muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi
		Heptachlor epoxide	muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi
		Aldrin	muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi
		cis-chlordane	muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi
		trans-chlordane	muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi
		oxy Chlordane	muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi
		Dieldrin	muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi
		Endrin	muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi

		2,4' DDT	muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi
		4,4'DDT	muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi
		2,4'DDE	muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi
		4,4'DDE	muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi
		2,4'DDD	muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi
		4,4'DDD	muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi
Organophosphate compounds													
Carbamates													
Pyrethroids													
Others													

Note: In cases where Screening method is Not Applicable, only a chemical confirmatory test is used & no screening methods are applied

Annexure 1F- Aquaculture finfish (Contaminants)

Risk-based regulatory programme for the control of contaminants in food

Check table

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Country	INDIA	DATE
Year of plan implementation	2025	12/30/2024
Animal species or product	Finfish	
National PRODUCTION DATA in TONNES (referring to the previous year)	177151	
PRODUCTION DATA in TONNES for calculation of SAMPLE NUMBERS. (referring to previous year's production)	177151	If there is a split or segregated system in place for exports to the EU (i.e. this is only possible from a restricted number of establishments, the total annual production of only those establishments may be entered in cell B7 regardless of the proportion of that production which was exported to the EU). If there is no split system, and aquaculture finfish and finfish products from ALL FARMS are eligible for export to the EU, then national production data must be entered in cell B7.
Basis for number of samples	As per Annex I to Reg (EU) 2022/932	Other
Calculated minimum number of samples (based on cell B7)	144	
Planned number of samples	144	

The total number of samples taken should at least be equal to the minimum number of samples for contaminants in total (in Cell B\$9)	Sum of all samples	144
	Planned number	144
	Minimum no reqd	144

Groups of contaminants to be controlled(cf. Annex I to Regulation (EU) 2022/931)	Planned number of SAMPLES	COMPOUND or MARKER RESIDUE	MATRIX ANALYSED	SCREENING METHOD	Validated (Y/N)	CONFIRMATORY METHOD	Validated (Y/N)	SCREEN.M ETH. DETECTION LIMIT [µg/kg]	CONFIR.M ETH. DETECTION LIMIT [µg/kg]	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]	LABORATORY NAME
		6 NDL-PCBs											
Halogenated persistent organic pollutants	29	PCB-28	muscle	Not Applicable	N	GC-MS/MS	Y	NA	4		75 (Sum of 6 NDL-PCBs)	75 (Sum of 6 NDL-PCBs)	MPEDA QC Laboratory, Bhimavaram & Kochi
		PCB-52	muscle	Not	N	GC-MS/MS	Y	NA	4				MPEDA QC

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		PCB 126	muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000323		PCBs (WHO-PCDD/F-TEQ) 6.5 pg/g	TEQ) 6.5 pg/g	
		PCB 169	muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000271				
		PCB 123	muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000304				
		PCB 118	muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000254				
		PCB 114	muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000239				
		PCB 105	muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000263				
		PCB 167	muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000187				
		PCB 156	muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000237				
		PCB 157	muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000172				
		PCB 189	muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000215				
Metals	115	Cadmium	muscle	Not Applicable	N	ICP-MS	Y	NA	2		50	50	MPEDA QC Laboratory, Kochi & Piorbandar
		Mercury	muscle	Not Applicable	N	ICP-MS	Y	NA	33		500	500	MPEDA QC Laboratory, Kochi & Piorbandar
		Lead	muscle	Not Applicable	N	ICP-MS	Y	NA	27		300	300	MPEDA QC Laboratory, Kochi & Piorbandar
		Arsenic	muscle	Not Applicable	N	ICP-MS	Y	NA	7	76000		76000	MPEDA QC Laboratory, Kochi & Piorbandar
Others													

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 2 000 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 of substances included in each substance group and the number of samples tested. There is no minimum number of samples

Note: In cases where Screening method is Not Applicable, only a chemical confirmatory test is used & no screening methods are applied

Annexure 1G- Aquaculture Crustaceans (Group A)

Regulatory programme for the control of veterinary drug residues in food - **Group A samples**

Check table

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Country	INDIA	DATE
Year of plan implementation	2025	30-12-24
Animal species or product	Crustaceans	11882099 
National PRODUCTION DATA in TONNES (referring to the previous year)	1169041	
PRODUCTION DATA in TONNES for calculation of SAMPLE NUMBERS. (referring to previous year's production)	1169041	
Basis for number of samples	As per Annex I to Reg (EU) 2022/1646	
Calculated minimum no of <u>samples</u> for Group A (based on cell C7)	755	
<u>Planned</u> number of samples	755	

The total number of samples taken should at least be equal to the minimum number of samples for Group A in total (in Cell \$C\$9)	Sum of all samples	755
	Planned number	755
	Minimum no reqd	755

← If there is a split or segregated system in place for exports to the EU (i.e. this is only possible from a number of establishments, the total annual production of only those establishments may be entered in cell C7 (regardless of the proportion of that production which was exported to the EU). If there is no split system, and farmed crustaceans from ALL FARMS are eligible for export to the EU, national production data must be entered in cell C7.

Groups of substances to be controlled		NUMBER OF SAMPLES		COMPOUND or MARKER RESIDUE	MATRIX ANALYSED	SCREENING METHOD	CONFIRMATORY METHOD	SCREEN.MET H. DETECTION LIMIT [µg/Kg]	CONFIR.ME TH. DETECTION LIMIT [µg/Kg]	LEVEL OF ACTION (i.e. concentration above which a result is deemed non-compliant) [µg/Kg]	LABORATORY NAME
		MIN	PLAN								
A2a	Chloramphenicol	38	180	Chloramphenicol	Shrimps & Scampi muscle	Not Applicable	LC-MS/MS	NA	RPA=0.15	0.06; 0.13; 0.07; 0.1 & 0.06	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
A2b	Nitrofurans	38	180	AOZ	Shrimps & Scampi muscle	Not Applicable	LC-MS/MS	NA	RPA=0.5	0.333; 0.512; 0.36; 0.401 & 0.13	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
				AMOZ	Shrimps & Scampi muscle	Not Applicable	LC-MS/MS	NA	RPA=0.5	0.106; 0.507; 0.36; 0.405 & 0.12	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar

				AHD	Shrimps & Scampi muscle	Not Applicable	LC-MS/MS	NA	RPA=0.5	0.24; 0.506; 0.37; 0.408 & 0.12	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
				SEM	Shrimps & Scampi muscle	Not Applicable	LC-MS/MS	NA	RPA=0.5	0.443; 0.513; 0.38; 0.401 & 0.14	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
				DNSH	Shrimps & Scampi muscle	Not Applicable	LC-MS/MS	NA	RPA=0.5	0.26; 0.27; 0.17; 0.249 & 0.15	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
					Shrimps & Scampi muscle						
A2c	Nitroimidazoles	38	80	Metronidazole	Shrimps & Scampi muscle	Not Applicable	LC-MS/MS	NA	MMPR=1	0.63; 0.32; 0.96	MPEDA QC Laboratory, Kochi, Bhimavaram & Bhubaneswar.
				Metronidazole-OH	Shrimps & Scampi muscle	Not Applicable	LC-MS/MS	NA	MMPR=1	0.39; 0.33; 0.96	MPEDA QC Laboratory, Kochi, Bhimavaram & Bhubaneswar.
				Ipronidazole	Shrimps & Scampi muscle	Not Applicable	LC-MS/MS	NA	MMPR=1	0.17; 0.6	MPEDA QC Laboratory, Kochi, Bhimavaram & Bhubaneswar.
				Ipronidazole-OH	Shrimps & Scampi muscle	Not Applicable	LC-MS/MS	NA	MMPR=1	0.27; 0.32; 0.95	MPEDA QC Laboratory, Kochi, Bhimavaram & Bhubaneswar.
				Dimetronidazole	Shrimps & Scampi muscle	Not Applicable	LC-MS/MS	NA	MMPR=1	0.34; 0.31; 0.96	MPEDA QC Laboratory, Kochi, Bhimavaram & Bhubaneswar.
				Ronidazole	Shrimps & Scampi muscle	Not Applicable	LC-MS/MS	NA	MMPR=1	0.39; 0.32; 0.96	MPEDA QC Laboratory, Kochi, Bhimavaram & Bhubaneswar.
				HMMNI	Shrimps & Scampi muscle	Not Applicable	LC-MS/MS	NA	MMPR=1	0.53; 0.32; 0.96	MPEDA QC Laboratory, Kochi, Bhimavaram & Bhubaneswar.
A2d	Other A2 substances	38	100	Dapsone	Shrimps & Scampi muscle	Not Applicable	LC-MS/MS	NA	MMPR=5	1.43	MPEDA QC Laboratory, Nellore
A3a	Dyes	38	50	Malachite Green	Shrimps & Scampi muscle	Not Applicable	LC-MS/MS	NA	RPA=0.5 (sum)	0.17(Nellore) 0.37 (Bhimavaram) 0.24(Bhubaneswar)	MPEDA QC Laboratory Nellore, Bhimavaram & Bhubaneswar.
				Leuco Malachite Green	Shrimps & Scampi muscle	Not Applicable	LC-MS/MS	NA		0.16(Nellore) 0.24 (Bhimavaram) 0.39(Bhubaneswar)	MPEDA QC Laboratory Nellore, Bhimavaram & Bhubaneswar.
				Crystal Violet	Shrimps & Scampi muscle	Not Applicable	LC-MS/MS	NA	MMPR=0.5 (sum)	0.41 (Bhimavaram) 0.23(Bhubaneswar)	MPEDA QC Laboratory Nellore, Bhimavaram & Bhubaneswar.
				Leuco Crystal Violet	Shrimps & Scampi muscle	Not Applicable	LC-MS/MS	NA		0.49 (Bhimavaram) 0.35(Bhubaneswar)	MPEDA QC Laboratory Nellore, Bhimavaram & Bhubaneswar.
A3b	Plant protection products and biocides	38	85	2,5- dichlorobenzoic acid methyl ester	Shrimps & Scampi muscle	Not Applicable	GC-MS/MS	NA	MRL=10	10	MPEDA QC Laboratory, Kochi & Bhimavaram.

A3c	Unauthorised antimicrobials	38	80	Norfloxacin	Shrimps & Scampi muscle	Not Applicable	LC-MS/MS	NA	No limit prescribed	5 (Kochi) 18.54(Bhimavaram) :8(Bhubaneswar) & 33.5 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
				Nalidixic acid	Shrimps & Scampi muscle	Not Applicable	LC-MS/MS	NA	No limit prescribed	5 (Kochi) 105.18 (Nellore) 16.89(Bhimavaram) 8(Bhubaneswar) & 31.9 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
				Cefalexin	Shrimps & Scampi muscle	Not Applicable	LC-MS/MS	NA	No limit prescribed	20(Kochi)	MPEDA QC Laboratory, Kochi
				Cefapirin	Shrimps & Scampi muscle	Not Applicable	LC-MS/MS	NA	No limit prescribed	20(Kochi)	MPEDA QC Laboratory, Kochi
A3f	Unauthorised anti-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.

Note: In cases where Screening method is Not Applicable, only a chemical confirmatory test is used & no screening methods are applied

Annexure 1H- Aquaculture Crustaceans (Group B)

Regulatory programme for the control of veterinary drug residues in food - **Group B samples**RETURN
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The total number of samples taken should at least be equal to the minimum number of samples for Group B in total (in Cell C9)	Sum of all samples	755
	Planned number	755
	Minimum no reqd	755

Country	INDIA	DATE
Year of plan implementation	2025	30-12-24
Animal species or product	Crustaceans	
National PRODUCTION DATA in TONNES (referring to the previous year)	1169401	
PRODUCTION DATA in TONNES for calculation of SAMPLE NUMBERS. (referring to previous year's production)	1169401	
Basis for number of samples	As per Annex I to Reg (EU) 2022/1646	As per Codex Alimentarius (CAC/GL 71-2009)
Calculated minimum number of samples for Group B (based on cell C7)	755	
Planned number of samples	755	

If there is a split or segregated system in place for exports to the EU (i.e. this is only possible from a number of establishments, the total annual production of only those establishments may be entered in cell C7 (regardless of the proportion of that production which was exported to the EU). If there is no split system, and farmed crustaceans from ALL FARMS are eligible for export to the EU, national production data must be entered in cell C7.

Groups of substances to be controlled	Planned number of SAMPLES	COMPOUND or MARKER RESIDUE	MATRIX ANALYSED	SCREENING METHOD	Validated (Y/N)	CONFIRMATORY METHOD	Validated (Y/N)	SCREEN. METH. DETECTION LIMIT [µg/kg]	CONFIRM. METH. DETECTION LIMIT [µg/kg]	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]	LABORATORY NAME
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B1a	Antimicrobials	545	Tetracyclines with its 4-epimers	Shrimps & Scampi muscle	Not Applicable	N	LC-MS/MS	Y	NA	25		100	104.1 (Kochi) 109.80 (Nellore) 105.94(Bhimavaram) 111.1(Bhubaneswar) & 111.0 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
			Oxytetracyclines with its 4-epimers	Shrimps & Scampi muscle	Not Applicable	N	LC-MS/MS	Y	NA	25		100	102.8 (Kochi) 111.5 (Nellore) 107.29(Bhimavaram) 110.9(Bhubaneswar) & 110.7(Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
			Chlortetracyclines with its 4-epimers	Shrimps & Scampi muscle	Not Applicable	N	LC-MS/MS	Y	NA	25		100	102.6 (Kochi) 107.2 (Nellore) 106.47(Bhimavaram) 110.8 (Bhubaneswar) & 109.4 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
			Oxolinic acid	Shrimps & Scampi muscle	Not Applicable	N	LC-MS/MS	Y	NA	5		100	106.27 (Kochi) 106.50 (Nellore) 106.00(Bhimavaram) 111.0(Bhubaneswar) & 109.1 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
			Flumequine	Shrimps & Scampi muscle	Not Applicable	N	LC-MS/MS	Y	NA	5		200	215.48 (Kochi) 216.50(Bhimavaram) 224.7(Bhubaneswar) & 218.1 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
			Sarafloxacin	Shrimps & Scampi muscle	Not Applicable	N	LC-MS/MS	Y	NA	5		30	31.91(Kochi) 32.19(Bhimavaram) 33.09(Bhubaneswar) & 32.6 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
			Enrofloxacin	Shrimps & Scampi muscle	Not Applicable	N	LC-MS/MS	Y	NA	5		100(su m)	106.14 (Kochi) 106.72(Bhimavaram) 110.7 (Bhubaneswar) & 113 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
			Ciprofloxacin	Shrimps & Scampi muscle	Not Applicable	N	LC-MS/MS	Y	NA	5			106.27 (Kochi) 105.88(Bhimavaram) 110.7(Bhubaneswar) & 111.5 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
			Difloxacin	Shrimps & Scampi muscle	Not Applicable	N	LC-MS/MS	Y	NA	5		300	331.79 (Kochi) 313.31(Bhimavaram) 336.4(Bhubaneswar) & 332.2 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
			Danofloxacin	Shrimps & Scampi muscle	Not Applicable	N	LC-MS/MS	Y	NA	5		100	109.29 (Kochi) 106.27(Bhimavaram) 110.8(Bhubaneswar) & 112.9 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar &

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			Sulphamethoxyp yridazine	Shrimps & Scampi muscle	Not Applicable	N	LC- MS/MS	Y	NA	5			111.40 (Kochi) 106.06(Bhimavaram) 110.9(Bhubaneswar) & 110.1(Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
			Sulphamethizole	Shrimps & Scampi muscle	Not Applicable	N	LC- MS/MS	Y	NA	5			111.52 (Kochi) 108.68(Bhimavaram) 110.8 (Bhubaneswar) & 110.6 (Porbandar)	MPEDA QC Laboratory, Kochi, Nellore, Bhimavaram, Bhubaneswar & Porbandar
			Erythromycin A	Shrimps & Scampi muscle	Not Applicable	N	LC- MS/MS	Y	NA	10		200	223	MPEDA QC Laboratory, Kochi
			Colistin	Shrimps & Scampi muscle	Not Applicable	N	LC- MS/MS	Y	NA	10		150	CCα:168(CollistinA) CCα:164(Collistin B)	MPEDA QC Laboratory, Kochi
			Cloxacillin	Shrimps & Scampi muscle	Not Applicable	N	LC- MS/MS	Y	NA	10		300	327.6	MPEDA QC Laboratory, Kochi
			Dicloxacillin	Shrimps & Scampi muscle	Not Applicable	N	LC- MS/MS	Y	NA	10		300	338	MPEDA QC Laboratory, Kochi
			Oxacillin	Shrimps & Scampi muscle	Not Applicable	N	LC- MS/MS	Y	NA	10		300	327.4	MPEDA QC Laboratory, Kochi
			Trimethoprim	Shrimps & Scampi muscle	Not Applicable	N	LC- MS/MS	Y	NA	10		50	53.7	MPEDA QC Laboratory, Kochi
			Ampicillin	Shrimps & Scampi muscle	Not Applicable	N	LC- MS/MS	Y	NA	10		50	53.8	MPEDA QC Laboratory, Kochi
			Amoxicillin	Shrimps & Scampi muscle	Not Applicable	N	LC- MS/MS	Y	NA	10		50	54	MPEDA QC Laboratory, Kochi
			Tylosin A	Shrimps & Scampi muscle	Not Applicable	N	LC- MS/MS	Y	NA	10		100	117.7	MPEDA QC Laboratory, Kochi
			Lincomycin	Shrimps & Scampi muscle	Not Applicable	N	LC- MS/MS	Y	NA	10		100	112.9	MPEDA QC Laboratory, Kochi
			Neomycin B	Shrimps & Scampi muscle	Not Applicable	N	LC- MS/MS	N	NA	100		500	100	MPEDA QC Laboratory, Kochi
			Spectinomycin	Shrimps & Scampi muscle	Not Applicable	N	LC- MS/MS	N	NA	100		300	100	MPEDA QC Laboratory, Kochi
			Tilmicosin	Shrimps & Scampi muscle	Not Applicable	N	LC- MS/MS	Y	NA	10		50	55.6	MPEDA QC Laboratory, Kochi
			Benzylpencillin	Shrimps & Scampi muscle	Not Applicable	N	LC- MS/MS	Y	NA	10		50	56.5	MPEDA QC Laboratory, Kochi
B1b	Insecticides, fungicides, anthelmintics and other antiparasitic agents	210	Emamectin	Shrimps & Scampi muscle	Not Applicable	N	LC- MS/MS	Y	NA	100		100	104.20 (Nellore) & 112(Bhubaneswar)	MPEDA QC Laboratory, Kochi, Nellore & Bhubaneswar.
			Ivermectin	Shrimps & Scampi muscle	Not Applicable	N	LC- MS/MS	Y	NA	10		No limit prescrib ed	(Nellore) & CC-α : 112(Bhubaneswar)	MPEDA QC Laboratory, Kochi, Nellore & Bhubaneswar.
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 animal,s 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.

Note: In cases where Screening method is Not Applicable, only a chemical confirmatory test is used & no screening methods are applied

Annexure 1 I - Aquaculture Crustaceans (Pesticides)

Risk-based regulatory programme for the control of pesticides in food

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Country	india	DATE
Year of plan implementation	2025	30-12-24
Animal species or product	Crustaceans	
Planned no of samples <i>(no minimum set)</i>	585	

Groups of pesticides to be controlled	Planned number of SAMPLES	COMPOUND or MARKER RESIDUE	MATRIX ANALYSED	SCREENING METHOD	Validated (Y/N)	CONFIRMATORY METHOD	Validated (Y/N)	SCREEN .METH. DETECTION LIMIT [µg/kg]	CONFIRM. METH. DETECTION LIMIT [µg/kg]	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]	LABORATORY NAME
Organochlorinated compounds	585	Alpha BHC	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	10		Default value of 10 µg/kg for each compound (as per EU Regulation 396/2005)	10	MPEDA QC Laboratory, Bhimavaram / Kochi
		Beta BHC	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi
		Gamma BHC	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi
		HCB	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi
		Heptachlor	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi
		Heptachlor epoxide	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi
		Aldrin	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi

		cis-chlordane	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi
		trans-chlordane	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi
		oxy Chlordane	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi
		Dieldrin	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi
		Endrin	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi
		2,4' DDT	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi
		4,4'DDT	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi
		2,4'DDE	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi
		4,4'DDE	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi
		2,4'DDD	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi
		4,4'DDD	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	10			10	MPEDA QC Laboratory, Bhimavaram / Kochi
Organophosphate compounds													
Carbamates													
Pyrethroids													
Others													

Note: In cases where Screening method is Not Applicable, only a chemical confirmatory test is used & no screening methods are applied

Annexure 1 J - Aquaculture Crustaceans (Contaminants)

[RETURN TO TEMPLATE LIST](#)

Risk-based regulatory programme for the control of contaminants in food

Country	INDIA	DATE
Year of plan implementation	2025	12/30/2024
Animal species or product	Crustaceans	
Planned no of samples <i>(no minimum set)</i>	585	

Groups of contaminants to be controlled(cf. Annex I to Regulation (EU) 2022/931)	Planned number of SAMPLES	COMPOUND or MARKER RESIDUE	MATRIX ANALYSED	SCREENING METHOD	Validated (Y/N)	CONFIRMATORY METHOD	Validated (Y/N)	SCREEN. METH. DETECTION LIMIT [µg/kg]	CONFIR. METH. DETECTION LIMIT [µg/kg]	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]	LABORATORY NAME
		6 NDL-PCBs											
Halogenated persistent organic pollutants	117	PCB-28	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	4		75 (Sum of 6 NDL-PCBs)	75 (Sum of 6 NDL-PCBs)	MPEDA QC Laboratory, Bhimavaram & Kochi
		PCB-52	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	4				MPEDA QC Laboratory, Bhimavaram & Kochi
		PCB-101	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	4				MPEDA QC Laboratory, Bhimavaram & Kochi
		PCB-138	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	4				MPEDA QC Laboratory, Bhimavaram & Kochi
		PCB-153	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	4				MPEDA QC Laboratory, Bhimavaram & Kochi

		PCB-180	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	4				MPEDA QC Laboratory, Bhimavaram & Kochi
		17 PCDD/Fs											
		2378-TCDF	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000063		Sum of all Dioxins (WHO-PCDD/F-TEQ) 3.5 pg/g	Sum of all Dioxins (WHO-PCDD/F-TEQ) 3.5 pg/g	CSIR-NIIST, Trivandrum
		2378-TCDD	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000078				
		12378-PeCDF	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.0001				
		23478-PeCDF	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.0001				
		12378-PeCDD	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000132				
		123478-HxCDF	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000174				
		123678-HxCDF	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000161				
		234678-HxCDF	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000117				
		123478-HxCDD	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000215				
		123678-HxCDD	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000188				
		123789-HxCDD	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000168				
		123789-HxCDF	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000088				
		1234678-HpCDF	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000133				
		1234678-HpCDD	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000107				
		1234789-HpCDF	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000069				
		OCDD	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000384				
		OCDF	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000353				
		12 DL-PCBs											
		PCB 81	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000221		Sum of all Dioxins & dioxin like PCBs (WHO-PCDD/F-TEQ) 6.5 pg/g	Sum of all Dioxins & dioxin like PCBs (WHO-PCDD/F-TEQ) 6.5 pg/g	CSIR-NIIST, Trivandrum
		PCB 77	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000219				
		PCB 126	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000323				

		PCB 169	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000271				
		PCB 123	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000304				
		PCB 118	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000254				
		PCB 114	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000239				
		PCB 105	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000263				
		PCB 167	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000187				
		PCB 156	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000237				
		PCB 157	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000172				
		PCB 189	Shrimps & Scampi muscle	Not Applicable	N	GC-MS/MS	Y	NA	0.000215				
Metals	468	Cadmium	Shrimps & Scampi muscle	Not Applicable	N	ICP-MS	Y	NA	2		500	500	MPEDA QC Laboratory, Kochi & Piorbandar
		Mercury	Shrimps & Scampi muscle	Not Applicable	N	ICP-MS	Y	NA	9		500	500	MPEDA QC Laboratory, Kochi & Piorbandar
		Lead	Shrimps & Scampi muscle	Not Applicable	N	ICP-MS	Y	NA	22		500	500	MPEDA QC Laboratory, Kochi & Piorbandar
		Arsenic	Shrimps & Scampi muscle	Not Applicable	N	ICP-MS	Y	NA	40	76000		76000	MPEDA QC Laboratory, Kochi & Piorbandar
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.

Note: In cases where Screening method is Not Applicable, only a chemical confirmatory test is used & no screening methods are applied

The Marine Products Export Development Authority
NRCP 2025 - Allocation of Samples from Field Offices to MPEDA Lab Kochi

Annexure -2A

	Parameter	Samples from FARMS											
		SRD Valsad	RD Mumbai	RD Mangaluru	RD Kochi	SRD Nagapatnam	RD Vijayawada	SRD Bhimavaram	SRD Vizag	SRD Kakinada	RD Bhubaneswar	RD Kolkata	Total
CULTURED SHRIMP	Chloramphenicol (A2a)	0	0	1	0	6	0	0	0	0	0	0	7
	NF Metabolites (A2b)	0	0	1	0	6	0	0	0	0	0	0	7
	Nitroimidazoles (A2c)	0	0	0	0	3	0	0	0	0	0	0	3
	Other Prohibited 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
	Plant protection products and Biocides (A3b)	3	0	1	0	3	41	20	0	9	3	4	84
	Un-authorised Subatances (A3c)	0	0	0	0	3	0	0	0	0	0	0	3
	Sub Total	3	0	3	0	21	41	20	0	9	3	4	104
	Antibiotics (B1a)	0	0	2	1	19	0	0	0	0	0	0	22
	Anthelmintics ((B1b)	0	0	0	0	0	0	0	0	0	0	0	0
	Sub Total	0	0	2	1	19	0	0	0	0	0	0	22
	Organo Chlorine Pesticides	23	1	1	1	21	217	100	3	39	22	33	461
	PCBs	5	0	0	0	4	56	27	1	13	4	6	116
	Heavy Metals	0	0	1	1	17	0	59	0	0	17	26	121
	Sub Total	28	1	2	2	42	273	186	4	52	43	65	698
	SHRIMP Total	31	1	7	3	82	314	206	4	61	46	69	824
	Chloramphenicol (A2a)												0
	NF Metabolites (A2b)												0
	Nitroimidazoles (A2c)												0

	Parameter	Samples from FARMS											
		SRD Valsad	RD Mumbai	RD Mangaluru	RD Kochi	SRD Nagapatnam	RD Vijayawada	SRD Bhimavaram	SRD Vizag	SRD Kakinada	RD Bhubaneswar	RD Kolkata	Total
SCAMPI	Other Substances (A2d)												0
	Dyes (A3a)												0
	Plant protection products and Biocides (A3b)											1	1
	Un-authorised Substances (A3c)												0
	Sub Total	0	0	0	0	0	0	0	0	0	0	1	1
	Antibiotics (B1a)												0
	Anthelmintics ((B1b)												0
	Sub Total	0	0	0	0	0	0	0	0	0	0	0	0
	Organo Chlorine Pesticides									0	0	1	1
	PCBs					0					0	1	1
	Heavy Metals					0						1	1
	Sub Total	0	0	0	0	0	0	0	0	0	0	2	3
	SCAMPI Total	0	0	0	0	0	0	0	0	0	0	4	4
	Steroids (A1c)	0	0	0	0	1	7	7	0	0	0	0	15
	Chloramphenicol (A2a)	0	0	0	0	3	1	0	0	0	0	0	4
	NF Metabolites (A2b)	0	0	0	0	3	1	0	0	0	0	0	4
	Nitroimidazoles (A2c)	0	0	0	0	1	0	0	0		0	0	1
	Other Substances (A2d)	0	0	0	0	0	0	0	0		0	0	0
	Dyes (A3a)	0	0	0	0	1	0	0	0		0	0	1
	Plant protection products and Biocides (A3b)	0	0	0	0	1	7	7	0	0	0	0	15

	Parameter	Samples from FARMS											
		SRD Valsad	RD Mumbai	RD Mangaluru	RD Kochi	SRD Nagapatnam	RD Vijayawada	SRD Bhimavaram	SRD Vizag	SRD Kakinada	RD Bhubaneswar	RD Kolkata	Total
FISH	Un-authorised Subatances (A3c)	0	0	0	0	0	0	0	0	0	0	0	0
	Sub Total	0	0	0	0	10	16	14	0	0	0	0	40
	Antibiotics (B1a)				1	5	2						8
	Anthelmintics ((B1b)	0	0		0	0	0						0
	Sub Total	0	0	0	1	5	2	0	0	0	0	0	8
	Organo Chlorine Pesticides	0	2	0	0	3	40	40	0	3	1	0	89
	PCBs	0	1	0	0	1	13	13	0	1	0	0	29
	Heavy Metals	0	0	0	1	3	1	0	0	4	1	0	10
	Sub Total	0	3	0	1	7	54	53	0	8	2	0	128
FISH TOTAL		0	3	0	2	22	72	67	0	8	2	0	176
GRAND TOTAL		31	4	7	5	104	386	273	4	69	48	73	1004

The Marine Products Export Development Authority

Annexure 2B

NRCP 2025- Allocation of Samples from Field Offices to MPEDA Labs at Bhimavaram & Nellore

QC Lab, Bhimavaram						
Item / Species	Parameter	Number of Samples				
		SRD Vijayawada	SRD Bhimavaram	SRD Vizag	SRD Kakinada	TOTAL (parametrwise)
CULTURED SHRIMP	Chloramphenicol (A2a)	0	0	0	0	0
	NF Metabolites (A2b)	0	0	0	0	0
	Nitroimidazoles (A2c)	0	0	0	0	0
	Other Substances (A2d)	0	0	0	0	0
	Dyes (A3a)	0	0	0	0	0
	Plant protection products and Biocides (A3b)	0	0	0	0	0
	Un-authorised Substances (A3c)	0	0	0	0	0
	Sub Total	0	0	0	0	0
	Antibiotics (B1a)	54	20	0	11	85
	Anthelmintics ((B1b)	0	0	0	0	0
	Sub Total	54	20	0	11	85
	Organo Chlorine Pesticides	63	36	0	24	123
	PCBs	0	0	0	0	0
	Heavy Metals	0	0	0	0	0
	Sub Total	63	36	0	24	123
	SHRIMP Total	117	56	0	35	208
AMPI	Chloramphenicol (A2a)					0
	NF Metabolites (A2b)					0
	Nitroimidazoles (A2c)					0
	Other Substances (A2d)					0
	Dyes (A3a)					0
	Plant protection products and					0
	Un-authorised Substances (A3c)					0
	Sub Total	0	0	0	0	0

QC Lab, Nellore											
Number of Samples											
SRD Vijayawada	SRD Bhimavaram	SRD Vizag	SRD Kakinada	SRD Nagapatnam	RD Bhubaneswar	RD Kolkata	SRD Valsad	RD Mumbai	SRD Mangalore	RD Kochi	TOTAL (parametrwise)
56	42	1	19								118
56	42	1	19								118
38	0	0	9								47
47	23	1	11	4	4	5	4	0	0	0	99
0	12	0	5	2							19
											0
0	19	0	9								28
197	138	3	72	6	4	5	4	0			429
161	46	0	17								224
76	20			7			8		1	1	113
237	66	0	17	7	0	0	8	0	1	1	337
0	0	0	0	0							0
0	0	0	0	0							0
0	0	0	0	0							0
0	0	0	0	0							0
434	204	3	89	13	4	5	12	0	1	1	766
											0
											0
											0
						1					1
											0
											0
											0
0	0	0	0	0		1					1

QC Lab, Bhimavaram						
Item / Species	Parameter	Number of Samples				
		SRD Vijayawada	SRD Bhimavaram	SRD Vizag	SRD Kakinada	TOTAL (parametrwise)
SC	Antibiotics (B1a)					0
	Anthelmintics ((B1b)					0
	Sub Total					0
	Organo Chlorine Pesticides					0
	PCBs					0
	Heavy Metals					0
	Sub Total	0	0	0	0	0
	SCAMPI Total	0	0	0	0	0
FISH	Chloramphenicol (A2a)	0	0	0	0	0
	NF Metabolites (A2b)	0	0	0	0	0
	Nitroimidazoles (A2c)	0	0	0	0	0
	Other Substances (A2d)				0	0
	Dyes (A3a)	0	0	0	0	0
	Plant protection products and Biocides (A3b)	0	0	0	0	0
	Un-authorized Substances (A3c)	0	0	0	0	0
	Sub Total	0	0	0	0	0
	Antibiotics (B1a)	0	0	0	0	0
	Anthelmintics ((B1b)	0	0	0	0	0
	Sub Total	0	0	0	0	0
	Organo Chlorine Pesticides	0	0	0	0	0
	PCBs	0	0	0	0	0
	Heavy Metals					0
	Sub Total	0	0	0	0	0
	FISH Total	0	0	0	0	0
TOTAL SAMPL					208	

QC Lab, Nellore											
Number of Samples											
SRD Vijayawada	SRD Bhimavaram	SRD Vizag	SRD Kakinada	SRD Nagapattanam	RD Bhubaneswar	RD Kolkata	SRD Valsad	RD Mumbai	SRD Mangalore	RD Kochi	TOTAL (parametrwise)
			0								0
			0								0
			0								0
											0
											0
											0
0	0	0	0	0							0
0	0	0	0	0							0
0	0	0	0	0		1					1
38	8		3								49
38	8		3								49
7	7										14
7	7	0	0	1	0	0	0	0			15
				0							0
											0
0	0	0		0							0
90	30	0	6	1	0	0	0	0			127
50	20		7	0							77
33	34		3	2				1			73
83	54	0	10	2	0	0	0	1			150
											0
											0
											0
0	0	0	0	0	0	0	0	0			0
173	84	0	16	3	0	0	0	1			277
TOTAL SAMPLE											1044

Annexure 2C

NRCP 2025 - Allocation of Samples from Field Offices to MPEDA Labs at

QC Lab, Bhubaneswar								
Item / Species	Parameter	Number of Samples						
		RD Bhubaneswar	RD Kolkata	SRD Vijayawada	SRD Bhimavaram	SRD Vizag	SRD Kakinada	TOTAL (parametrwise)
CULTURED SHRIMP	Chloramphenicol (A2a)	7	10	30				47
	NF Metabolites (A2b)	7	10	30				47
	Nitroimidazoles (A2c)	3	4		19			26
	Other Substances (A2d)	0	0					0
	Dyes (A3a)	2	2					4
	Plant protection products and Biocides (A3b)	0	0					0
	Un-authorized Substances (A3c)	3	4	38				45
	Sub Total	22	30	98	19	0	0	169
	Antibiotics (B1a)	20	31	25	24	4	30	134
	Anthelmintics ((B1b)	8	11	25	29	1	22	96
	Sub Total	28	42	50	53	5	52	230
	Organo Chlorine Pesticides	0	0					0
	PCBs	0	0					0
	Heavy Metals	0	0					0
	Sub Total	0	0					0
	SHRIMP Total	50	72	148	72	5	52	399
	Chloramphenicol (A2a)		1					1
	NF Metabolites (A2b)		1					1
	Nitroimidazoles (A2c)		1					1
	Other Substances (A2d)		0					0
	Dyes (A3a)		1	0	0			1

QC Lab, Porbandar							
Number of Samples							
SRD Valsad	RD Mumbai	SRD Vijayawada	SRD Bhimavaram	SRD Vizag	SRD Kakinada	TOTAL (parametrwise)	
7	0					7	
7	0					7	
3	0					3	
0	0					0	
2	0	24				26	
0	0					0	
3	0					3	
22	0	24	0	0	0	46	
21	1	21	36	0	0	79	
0	0					0	
21	1	21	36	0	0	79	
0	0					0	
0	0					0	
18	1	224	50	3	50	346	
18	1	224	50	3	50	346	
61	2	269	86	3	50	471	
						0	
						0	
						0	
						0	
		0	0			0	

QC Lab, Bhubaneswar								
Item / Species	Parameter	Number of Samples						
		RD Bhubaneswar	RD Kolkata	SRD Vijayawada	SRD Bhimavaram	SRD Vizag	SRD Kakinada	TOTAL (parametwise)
SCAMPI	Plant protection products and Biocides (A3b)		0					0
	Un-authorised Subatances (A3c)		1					1
	Sub Total	0	5					5
	Antibiotics (B1a)		1					1
	Anthelmintics ((B1b)		1					1
	Sub Total	0	2					2
	Organo Chlorine Pesticides	0	0					0
	PCBs	0	0					0
	Heavy Metals	0	0					0
	Sub Total	0	0	0	0	0	0	0
	SCAMPI Total	0	7	0	0	0	0	7
FISH	Chloramphenicol (A2a)	0	0		30			30
	NF Metabolites (A2b)	0	0		30			30
	Nitroimidazoles (A2c)	0	0					0
	Other Substances (A2d)	0	0					0
	Dyes (A3a)	0	0	7	7			14
	Plant protection products and Biocides (A3b)	0	0					0
	Un-authorised Substances (A3c)	0	0	6	7			13
	Sub Total	0	0	13	74	0	0	87

QC Lab, Porbandar						
Number of Samples						
SRD Valsad	RD Mumbai	SRD Vijayawada	SRD Bhimavaram	SRD Vizag	SRD Kakinada	TOTAL (parametwise)
						0
						0
0	0	0			0	0
						0
						0
0	0				0	0
0	0					0
0		0			0	0
0	0					0
0	0	0			0	0
0	2					2
0	2					2
0	0					0
0	0					0
0	0					0
0	0					0
0	1					1
0	5	0	0	0	0	5

QC Lab, Bhubaneswar								
Item / Species	Parameter	Number of Samples						
		RD Bhubaneswar	RD Kolkata	SRD Vijayawada	SRD Bhimavaram	SRD Vizag	SRD Kakinada	TOTAL (parametwise)
	Antibiotics (B1a)	2	0	28	40			70
	Anthelmintics ((B1b)	1	0	1				2
	Sub Total	3	0	29	40	0	0	72
	Organo Chlorine Pesticides	0	0					0
	PCBs	0	0					0
	Heavy Metals	0	0					0
	Sub Total	0	0	0	0	0	0	0
	FISH Total	3	0	42	114	0	0	159
Total SAMPLES		53	79	190	186	5	52	565

QC Lab, Porbandar						
Number of Samples						
SRD Valsad	RD Mumbai	SRD Vijayawada	SRD Bhimavaram	SRD Vizag	SRD Kakinada	TOTAL (parametwise)
0	4	0	25			29
0	0					0
0	4	0	25	0	0	29
0	0					0
0	0					0
1	2	51	51	0	0	105
1	2	51	51	0	0	105
1	11	51	76	0	0	139
62	13	320	162	3	50	610

Annexure 3**A.Sample Allocation from Field Offices to MPEDA Lab Kochi, Nellore, Bhimavaram & Bhubaneswar**

Lab, Kochi					
Item / species	Parameter	RD Kochi	SRD Nagapattinam	SRD, Mangalore	Total
Hatchery sample	CAP + NFM	10	40	0	50

Lab, Bhubaneswar							
Item / species	Parameter	RD Bhubaneswar	RD Kolkata	RD Vizag	SRD Bhimavaram	SRD Kakinada	Total
Hatchery sample	CAP + NFM	11	2	20	0	21	54
Feed	CAP + NFP	0	0	0	0	0	0

Lab, Bhimavaram						
Item / species	Parameter	RD Bhubaneswar	RD Kolkata	RD Vizag	SRD Bhimavaram	Total
Hatchery sample	CAP + NFM	0	0	0	0	0
Feed	CAP + NFP	1	2	1	2	6

B.Sample Allocation from Field Offices to MPEDA Lab Nellore & Porbandar

Lab, Nellore									
Item / Species	Para meter	RD Vijaya- wada	SRD Bhimavar am	SRD Vizag	RD Bhubanes war	SRD Nagapatti nam	SRD Kakinada	RD Valsad	Total
Hatchery sample	CAP + NFM	37	1	40	0	0	50	0	128
Feed	CAP + NFP	3	0	0	0	2	5	1	11

Lab, Porbandar		
Item / species	Parameter	SRD Valsad
Hatchery sample	CAP + NF	3
Feed	CAP + NFP	0

TOTAL	
Hatchery sample	235
Feed	17

Annexure 4A

NRCP - 2024- Summary of Results- All LABS					
Item/Species	Substance	No. of Samples			Residue substance (s)
		Received	Analysed	Non-compliant	
Shrimp	Group A2a	180	180	0	
	Group A2b	179	179	0	
	Group A2c	81	81	0	
	Group A2d	104	104	0	
	Group A3a	50	50	0	
	Group A3b	88	88	0	
	Group A3c	80	80	0	
	Group B1a	548	548	0	
	Group B1b	211	211	0	
	Pesticides	588	588	0	
	PCB's	119	119	0	
	Metals	472	472	0	
Scampi	Group A1c	0	0	0	
	Group A2a	1	1	0	
	Group A2b	1	1	0	
	Group A2c	0	0	0	
	Group A2d	0	0	0	
	Group A3a	0	0	0	
	Group A3c	1	1	0	

	Group B1a	4	4	0	
	Group B1b	1	1	0	
	Pesticides	5	5	0	
	PCBs	0	0	0	
	Metals	0	0	0	
Fish	Group A1c	8	8	0	
	Group A2a	80	80	0	
	Group A2b	80	80	2	
	Group A2c	17	17	0	
	Group A2d	15	15	0	
	Group A3a	16	16	0	
	Group A3b	12	12	0	
	Group A3c	22	22	0	
	Group B1a	176	176	0	
	Group B1b	70	70	0	
	Pesticides	78	78	0	
	PCBs	27	27	0	
	Metals	109	109	0	
Sub Total		3423	3423	2	
Feed	Chloramphenicol & Nitrofurantoin Parent	17	17	0	
Hatchery Seed	Chloramphenicol & Nitrofurantoin Metabolite	269	269	9	CAP, NF(AOZ)
TOTAL		3709	3709	11	

Annexure 4B

RESULTS OF REGULATORY PROGRAMME FOR CONTROL OF RESIDUES IN FOOD						
COUNTRY		INDIA				
YEAR OF IMPLEMENTATION OF THE RESIDUE PLAN		2024				
ANIMAL SPECIES / PRODUCTS		AQUACULTURE- CRUSTACEANS & FINFISH				
GROUP OF SUBSTANCES TO BE MPONITORED	COMPOUND OR MARKER RESIDUE	MATRIX ANALYSED	NUMBER OF SAMPLES		LEVEL OF ACTION (ie concentration above which a result is deemed non- compliant) µg/kg	NUMBER OF NON-COMPLIANT RESULTS (ABOVE LEVEL OF ACTION)
			PLANNED	TESTED		
A1c - STEROIDS	17-Beta Estradiol	Fish	8	8	CCα: 0.20(Kochi)	Nil
	Progesterone	Fish	8	8	CCα: 0.20(Kochi)	Nil
	Medroxy Progesterone Acetate	Fish	8	8	CCα: 0.11(Kochi)	Nil
	17 Alpha-methyl Testosterone	Fish	8	8	LOQ: 0.5(Kochi)	Nil
A2a CHLORAMPHE NICOL	Chloramphenicol	Shrimp	179	180	CCα 0.06(Kochi) 0.074(Nellore) 0.046(Bhimavaram) 0.077(Bhubaneswar) 0.06(Porbandar)	Nil
		Scampi	1	1		Nil
		Fish	80	80		Nil

A2b NITROFURAN METABOLITES	AHD	Shrimp	179	179	CCα 0.240(Kochi) 0.30(Nellore) 0.24(Bhimavaram) 0.252(Bhubaneswar) 0.12(Porbandar)	Nil
		Scampi	1	1		Nil
		Fish	80	80		Nil
	AMTZ	Shrimp	179	179	CCα 0.186(Kochi) 0.20(Nellore) 0.20(Bhimavaram) 0.254(Bhubaneswar) 0.12(Porbandar)	Nil
		Scampi	1	1		Nil
		Fish	80	80		Nil
	AOZ	Shrimp	179	179	CCα 0.333(Kochi) 0.28(Nellore) 0.19(Bhimavaram) 0.25(Bhubaneswar) 0.13(Porbandar)	Nil
		Scampi	1	1		Nil
		Fish	80	80		2
	SEM	Shrimp	179	179	CCα 0.443(Kochi) 0.30(Nellore) 0.21(Bhimavaram) 0.258(Bhubaneswar) 0.14(Porbandar)	Nil
		Scampi	1	1		Nil
		Fish	80	80		Nil
	DNSH	Shrimp	179	179	CCα 0.270(Kochi) 0.27(Nellore) 0.17(Bhimavaram) 0.25(Bhubaneswar) 0.15(Porbandar)	Nil
		Scampi	1	1		Nil
		Fish	80	80		Nil

A2c NITROIMIDAZOLES	Ronidazole	Shrimp	81	81	CCα 0.387 (Kochi) 0.085 (Nellore) 0.32 (Bhimavaram) 0.493 (Bhubaneswar)	Nil
		Scampi	0	0		Nil
		Fish	17	17		Nil
	Metronidazole	Shrimp	81	81	CCα 0.632 (Kochi) 0.082 (Nellore) 0.32 (Bhimavaram) 0.456 (Bhubaneswar)	Nil
		Scampi	0	0		Nil
		Fish	17	17		Nil
	Dimetridazole	Shrimp	81	81	CCα 0.346 (Kochi) 0.152 (Nellore) 0.31 (Bhimavaram) 0.488 (Bhubaneswar)	Nil
		Scampi	0	0		Nil
		Fish	17	17		Nil
	Iprnidazole-OH	Shrimp	81	81	CCα 0.273 (Kochi) 0.172 (Nellore) 0.32 (Bhimavaram) 0.457 (Bhubaneswar)	Nil
		Scampi	0	0		Nil
		Fish	17	17		Nil
	Iprnidazole	Shrimp	81	81	CCα 0.17 (Kochi) 0.191 (Nellore) 0.482 (Bhubaneswar)	Nil
		Scampi	0	0		Nil
		Fish	17	17		Nil
	Metronidazole-OH	Shrimp	81	81	CCα 0.393 (Kochi) 0.100 (Nellore)	Nil
		Scampi	0	0		Nil

		Fish	17	17	0.33 (Bhimavaram) 0.428 (Bhubaneswar)	Nil
	HMMNI	Shrimp	81	81	CCα 0.535 (Kochi)	Nil
		Scampi	0	0	0.128 (Nellore)	Nil
		Fish	17	17	0.32 (Bhimavaram) 0.484 (Bhubaneswar)	Nil
A2d (OTHER A2 SUBSTANCES)	Dapsone	Shrimp	102	104	CCα: 1.43(Nellore)	Nil
		Fish	13	12		Nil
A3a DYES	Malachite Green	Shrimp	50	50	CCα 0.09 (Nellore)	Nil
		Scampi	0	0	0.197 (Bhimavaram)	Nil
		Fish	13	16	0.254 (Bhubaneswar) 0.2 (Porbandar)	Nil
	Leucomalachite Green	Shrimp	50	50	CCα 0.09 (Nellore)	Nil
		Scampi	0	0	0.158 (Bhimavaram)	Nil
		Fish	13	16	0.238 (Bhubaneswar) 0.16 (Porbandar)	Nil
	Crystal Violet	Shrimp	50	50	CCα 0.08 (Nellore)	Nil
		Scampi	0	0	0.215 (Bhimavaram)	Nil
		Fish	13	16	0.233 (Bhubaneswar) 0.19 (Porbandar)	Nil
	Leucocrystal Violet	Shrimp	50	50	CCα	Nil
		Scampi	0	0	0.05 (Nellore) 0.233 (Bhimavaram)	Nil

		Fish	13	16	0.256 (Bhubaneswar) 0.25 (Porbandar)	Nil
A3b PLANT PROTECTION PRODUCTS AND BIOCIDES	2,5-Dichlorobenzoic acid methyl ester	Shrimp	88	88	MRL: 10 (Kochi)	Nil
			12	12		
		Fish				Nil
A3c UNAUTHORIZ ED ANTIMICROBI ALS	Cefalexin	Shrimp	80	80	CC α 228 (Kochi) LOQ 5 (Nellore)	Nil
		Scampi	1	1		Nil
		Fish	15	22		Nil
	Cefapirin	Shrimp	80	80	CC α 54.4 (Kochi) LOQ 5 (Nellore)	Nil
		Scampi	1	1		Nil
		Fish	15	22		Nil
	Norfloxacin	Shrimp	80	80	CC α 10.73 (Kochi) LOQ 5 (Nellore) 18.54 (Bhimavaram) LOQ 8 (Bhubaneswar) 33.5 (Porbandar)	Nil
		Scampi	1	1		Nil
			15	22		
	Nalidixic Acid	Shrimp	80	80	CC α 10.54 (Kochi) LOQ 5 (Nellore) 16.89 (Bhimavaram) LOQ 8 (Bhubaneswar) 31.9 (Porbandar)	Nil
		Scampi	1	1		Nil
		Fish	22	22		Nil
B1a- ANTIBACTERIAL SUBSTANCES						
TETRACYCLIN ES WITH 4-	Tetracycline	Shrimp	545	548	CC α 104.1 (Kochi)	Nil

EPIMERS		Scampi	4	4	117.80 (Nellore) 105.94 (Bhimavaram) 111.15 (Bhubaneswar) 111 (Porbandar)	Nil
		Fish	176	176		Nil
	4- Epi Tetracycline	Shrimp	545	548	CCα 103.6 (Kochi) 119.07 (Nellore) 107.96 (Bhimavaram) 111.09 (Bhubaneswar) 112.2 (Porbandar)	Nil
		Scampi	4	4		Nil
		Fish	176	176		Nil
	Oxytetracycline	Shrimp	545	548	CCα 102.8 (Kochi) 117.47 (Nellore) 107.29 (Bhimavaram) 110.91 (Bhubaneswar) 110.7 (Porbandar)	Nil
		Scampi	4	4		Nil
		Fish	176	176		Nil
	4- Epi Oxytetracycline	Shrimp	545	548	CCα 103.2 (Kochi) 118.11 (Nellore) 110.62 (Bhimavaram) 110.95 (Bhubaneswar) 114.7 (Porbandar)	Nil
		Scampi	4	4		Nil
		Fish	176	176		Nil
	Chlortetracycline	Shrimp	545	548	CCα 102.6 (Kochi) 115.51 (Nellore) 106.47	Nil
		Scampi	4	4		Nil

		Fish	176	176	(Bhimavaram) 110.84(Bhubaneswar) 109.4 (Porbandar)	Nil
	4- Epi Chlortetracycline	Shrimp	545	548	CCα 103.1 (Kochi) 115.30 (Nellore)	Nil
		Scampi	4	4	106.55 (Bhimavaram)	Nil
		Fish	176	176	110.92 (Bhubaneswar) 110.8 (Porbandar)	Nil
SULFONAMIDES	Sulfadiazine (SDZ)	Shrimp	545	548	CCα 109.59 (Kochi) 110.31 (Nellore)	Nil
		Scampi	4	4	106.44 (Bhimavaram)	Nil
		Fish	176	176	110.80(Bhubaneswar) 111 (Porbandar)	Nil
	Sulfapyridine (SPD)	Shrimp	545	548	CCα 113.05 (Kochi) 108.66(Nellore)	Nil
		Scampi	4	4	106.069(Bhimavaram)	Nil
		Fish	176	176	111.03 (Bhubaneswar) 113.5 (Porbandar)	Nil
	Sulfamethoxazole (SMTX)	Shrimp	545	548	CCα 110.99 (Kochi) 115.26(Nellore)	Nil
		Scampi	4	4	107.02 (Bhimavaram)	Nil
		Fish	176	176	110.77 (Bhubaneswar)	Nil

					110.9 (Porbandar)	
	Sulfathiazole (STZ)	Shrimp	545	548	CCα 109.15 (Kochi) 107.06 (Nellore) 104.60(Bhimavaram)	Nil
		Scampi	4	4	110.89(Bhubaneswar)	Nil
		Fish	176	176	110.5 (Porbandar)	Nil
	Sulfamerazine (SMR)	Shrimp	545	548	CCα 109.14 (Kochi) 115.48 (Nellore) 103.37 (Bhimavaram)	Nil
		Scampi	4	4	111.24 (Bhubaneswar)	Nil
		Fish	176	176	111.9 (Porbandar)	Nil
	Sulfamethizole (SMTZ)	Shrimp	545	548	CCα 111.52 (Kochi) 107.53 (Nellore) 108.68 (Bhimavaram)	Nil
		Scampi	4	4	110.85 (Bhubaneswar)	Nil
		Fish	176	176	110.6 (Porbandar)	Nil
	Sulfamethazine (SMT)	Shrimp	545	548	CCα 106.6 (Kochi) 114.33 (Nellore) 105.72 (Bhimavaram)	Nil
		Scampi	4	4	110.85 (Bhubaneswar)	Nil
		Fish	176	176	111 (Porbandar)	Nil

	Sulfamethoxypyridazine (SMP)	Shrimp	545	548	CCα 111.4 (Kochi) 112.59 (Nellore) 106.06 (Bhimavaram) 110.92 (Bhubaneswar) 110.1 (Porbandar)	Nil
		Scampi	4	4		Nil
		Fish	176	176		Nil
	Sulfadimethoxine (SDM)	Shrimp	545	548	CCα 115.72 (Kochi) 112.42 (Nellore) 106.78 (Bhimavaram) 110.88 (Bhubaneswar) 112.1 (Porbandar)	Nil
		Scampi	4	4		Nil
		Fish	176	176		Nil
	Sulfadoxine (SD)	Shrimp	545	548	CCα 116.21 (Kochi) 112.13 (Nellore) 105.23 (Bhimavaram) 111.04 (Bhubaneswar) 114.2(Porbandar)	Nil
		Scampi	4	4		Nil
		Fish	176	176		Nil
	Sulfachloropyridazine (SCP)	Shrimp	545	548	CCα 111.25 (Kochi) 109.21 (Nellore) 109.21 (Bhimavaram) 111.20 (Bhubaneswar) 115.5 (Porbandar)	Nil
		Scampi	4	4		Nil
		Fish	176	176		Nil
QUINOLONES/ FLUOROQUIN	Oxolinic Acid (OA)	Shrimp	545	548	CCα 106.27 (Kochi)	Nil

OLONES		Scampi	4	4	105.79 (Nellore) 106.00 (Bhimavaram)	Nil
		Fish	176	176	111.08 (Bhubaneswar) 109.1 (Porbandar)	Nil
	Flumequine (FLU)	Shrimp	545	548	CCα 215.48 (Kochi) 221.15 (Nellore)	Nil
		Scampi	4	4	216.51 (Bhimavaram)	Nil
		Fish	176	176	224.70 (Bhubaneswar) 218.1 (Porbandar)	Nil
	Ciprofloxacin (CIP)	Shrimp	545	548	CCα 106.03 (Kochi) 112.81 (Nellore)	Nil
		Scampi	4	4	105.88 (Bhimavaram)	Nil
		Fish	176	176	110.77 (Bhubaneswar) 111.5 (Porbandar)	Nil
	Enrofloxacin (ENR)	Shrimp	545	548	CCα 106.14 (Kochi) 114.87 (Nellore)	Nil
		Scampi	4	4	106.72 (Bhimavaram)	Nil
		Fish	176	176	110.76 (Bhubaneswar) 113 (Porbandar)	Nil
	Sarafloxacin (SAR)	Shrimp	545	548	CCα 31.91 (Kochi) 34.26 (Nellore)	Nil
		Scampi	4	4	32.19 (Bhimavaram)	Nil

		Fish	176	176	33.09 (Bhubaneswar) 32.6 (Porbandar)	Nil	
	Difloxacin (DIF)	Shrimp	545	548	CCα 331.79 (Kochi) 330.45 (Nellore) 313.31 (Bhimavaram) 336.48 (Bhubaneswar) 332.2 (Porbandar)	Nil	
		Scampi	4	4		Nil	
		Fish	176	176		Nil	
	Danofloxacin (DAN)	Shrimp	545	548	CCα 109.29 (Kochi) 112.62 (Nellore) 106.27 (Bhimavaram) 110.84 (Bhubaneswar) 112.9 (Porbandar)	Nil	
		Scampi	4	4		Nil	
		Fish	176	176		Nil	
	MACROLIDES	Erythromycin A	Shrimp	545	548	CCα : 204.842 (Nellore)	Nil
Scampi			4	4	Nil		
Fish			176	176	Nil		
Tilmicosin		Shrimp	545	548	CCα : 52.097 (Nellore)	Nil	
		Scampi	4	4		Nil	
		Fish	176	176		Nil	
Tylosin		Shrimp	545	548	CCα : 104.338 (Nellore)	Nil	
		Scampi	4	4		Nil	
		Fish	176	176		Nil	
Lincomycin		Shrimp	545	548	CCα : 101.898 (Nellore)	Nil	
		Scampi	4	4		Nil	
		Fish	176	176		Nil	
BETA LACTAMS		Ampicillin	Shrimp	545	548	MRL : 100 (Bhimavaram)	Nil
			Scampi	4	4		Nil

	Benzyl Pencillin	Fish	176	176	MRL : 100 (Bhimavaram)	Nil
		Shrimp	545	548		Nil
		Scampi	4	4		Nil
		Fish	176	176		Nil
	Amoxycillin	Shrimp	545	548	CCα : 54 (Porbandar)	Nil
		Scampi	4	4		Nil
		Fish	176	176		Nil
	Dicloxacillin	Shrimp	545	548	MRL : 300 (Bhimavaram)	Nil
		Scampi	4	4		Nil
		Fish	176	176		Nil
	Oxacillin	Shrimp	545	548	MRL : 300 (Bhimavaram)	Nil
		Scampi	4	4		Nil
		Fish	176	176		Nil
	Cloxacillin	Shrimp	545	548	MRL : 300 (Bhimavaram)	Nil
		Scampi	4	4		Nil
		Fish	176	176		Nil
DIAMINOPYRA MIDINE	Trimethoprim	Shrimp	545	548	CCα : 51.510 (Nellore)	Nil
		Scampi	4	4		Nil
		Fish	176	176		Nil
AMINOGLYCO SIDES	Spectinomycin	Shrimp	545	548	MRL : 300 (Kochi)	Nil
		Scampi	4	4		Nil
		Fish	176	176		Nil
	Neomycin	Shrimp	545	548	MRL : 500 (Kochi)	Nil
		Scampi	4	4		Nil
		Fish	176	176		Nil
POLY PEPTIDES	Colistin A	Shrimp	545	548	CCα : 168 (Kochi)	Nil
		Scampi	4	4		Nil
		Fish	176	176		Nil
	Colistin B	Shrimp	545	548	CCα : 164 (Kochi)	Nil
		Scampi	4	4		Nil
		Fish	176	176		Nil
B1b	Ivermectin	Shrimp	211	211	CCα	Nil

ANTHELMINTICS		Scampi	1	1	LOQ 5 (Nellore) LOQ 15 (Bhubaneswar)	Nil
		Fish	70	70		Nil
	Emamectin	Shrimp	211	211	CC α 104.2 (Nellore) 111 (Bhubaneswar)	Nil
		Scampi	1	1		Nil
		Fish	70	70		Nil
	PESTICIDES					
ORGANO CHLORINE PESTICIDES	Aldrin	Shrimp	586	588	Default value : 10 (Kochi & Bhimavaram)	Nil
		Scampi	6	5		Nil
		Fish	78	78		Nil
	Dieldrin	Shrimp	586	588	Default value : 10 (Kochi & Bhimavaram)	Nil
		Scampi	6	5		Nil
		Fish	78	78		Nil
	Chlordane	Shrimp	586	588	Default value : 10 (Kochi & Bhimavaram)	Nil
		Scampi	6	5		Nil
		Fish	78	78		Nil
	DDT	Shrimp	586	588	Default value : 10 (Kochi & Bhimavaram)	Nil
		Scampi	6	5		Nil
		Fish	78	78		Nil
	Endrin	Shrimp	586	588	Default value : 10 (Kochi & Bhimavaram)	Nil
		Scampi	6	5		Nil
		Fish	78	78		Nil
	Heptachlor	Shrimp	586	588	Default value : 10 (Kochi & Bhimavaram)	Nil
		Scampi	6	5		Nil
		Fish	78	78		Nil
	Hexachloro Benzene	Shrimp	586	588	Default value : 10 (Kochi & Bhimavaram)	Nil
		Scampi	6	5		Nil
		Fish	78	78		Nil
	Alpha HCH	Shrimp	586	588	Default value : 10 (Kochi & Bhimavaram)	Nil
		Scampi	6	5		Nil
		Fish	78	78		Nil

	Beta HCH	Shrimp	586	588	Default value : 10 (Kochi & Bhimavaram)	Nil
		Scampi	6	5		Nil
		Fish	78	78		Nil
	Gamma HCH	Shrimp	586	588	Default value : 10 (Kochi & Bhimavaram)	Nil
		Scampi	6	5		Nil
		Fish	78	78		Nil
CONTAMINANTS						
PCB's	PCB- 28 ; PCB 52 PCB 101 ; PCB 138 PCB 153 ; PCB 180	Shrimp	119	119	ML : 75 (Sum of 6 NDL- PCB's)- Kochi and Bhimavaram	Nil
		Scampi	0	0		Nil
		Fish	27	27		Nil
CHEMICAL ELEMENTS	MERCURY	Shrimp	470	472	ML : 500 (Kochi & Porbandar)	Nil
		Scampi	0	0		Nil
		Fish	109	109	ML : 300 (Kochi & Porbandar)	Nil
	CADMIUM	Shrimp	470	472	ML : 500 (Kochi & Porbandar)	Nil
		Scampi	0	0		Nil
		Fish	109	109	ML : 50 (Kochi & Porbandar)	Nil
	ARSENIC	Shrimp	470	472	No limits	NA
		Scampi	0	0		
		Fish	109	109		
	LEAD	Shrimp	470	472	ML : 500 (Kochi & Porbandar)	Nil
		Scampi	0	0		Nil
		Fish	109	109	ML : 300 (Kochi & Porbandar)	Nil

Annexure 4C

NRCP 2024 – List of Non-Compliant (Residue Positive) samples

SNo.	Sample ID	Type & Species	Test	Parameter	Value (µg/kg)
FARM SAMPLES – SHRIMP					
1	33/S3/P6/1061/2024	Fish Rohu	Antibacterial-Gr.A	Nitrofurantol Metabolite - AOZ	1.01
2	33/S3/P6/1443/2024	Fish Rohu	Antibacterial-Gr.A	Nitrofurantol Metabolite - AOZ	20.22
HATCHERY SAMPLES - SHRIMP SEED					
3	01/S4/P1/0009/202	Hatchery Sample Shrimp seed	Antibacterial-Gr.A	Nitrofurantol Metabolite - AOZ	17.24
4	23/S4/Q1/0066/2024	Hatchery Sample Shrimp seed	Antibacterial-Gr.A	NFM -AOZ	3.05
5	23/S4/Q1/0117/2024	Hatchery Sample Shrimp seed	Antibacterial-Gr.A	NFM -AOZ	28.93
6	16/S4/Q1/0560/2024	Hatchery Sample Shrimp seed	Antibacterial-Gr.A	NFM-AOZ	1.87
7	16/S4/Q1/0088/2024	Hatchery Sample Shrimp seed	Antibacterial-Gr.A	CAP	0.14
8	33/S4/Q1/0290/2024	Hatchery Sample Shrimp seed	Antibacterial-Gr.A	CAP	2.35
9	10/S4/Q1/0001/2024	Hatchery Sample Shrimp seed	Antibacterial-Gr.A	NFM -AOZ	14.34
10	10/S4/Q1/0005/2024	Hatchery Sample Shrimp seed	Antibacterial-Gr.A	CAP NFM-AOZ	0.28 70.98
11	10/S4/Q1/0021/2024	Hatchery Sample Shrimp seed	Antibacterial-Gr.A	NFM-AOZ	31.22



Annex: 5

The Marine Products Export Development Authority

(Ministry of Commerce & Industry, Govt. Of India)

Kochi – 682036

No. LAB-KOC/NRCP/1/2025

Dated: 01 January 2025

NRCP – Instructions – effective from January 2025.

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 based on 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 outbreaks etc, more samples may be drawn.

10. Sampling levels:

- Shrimp 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 any farmer/ hatchery operator wants to retain a portion of 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 whenever applicable) and sealed using tamper proof seal. The 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. Field offices 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 seeds.

22. The samples shall be forwarded to the respective MPEDA Laboratory within 3 (three) days of its collection so as to reach the laboratory within 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 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 EIA 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. RAM MOHAN M.K.)

Director (Additional Charge), Joint Director (QC) & CEO, Labs

Copy for information and necessary action, to:

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

Annexure 6**Annexure 6: Results of residue testing: Explanatory data for the Non-compliance results of National Residue Control Plan 2025****Doc. No. EIC-11011/18/202585**

Specific question/information required		Competent Authority response. Should be provided by e-mail to: director@eicindia.gov.in	
EIA:		Date of provision of information to the competent authority	
Pursuant to Clause no. 19.0 of NRCP, EIAs must, provide the explanatory data on the non-compliance results of NRCP 2025			
1. For each non-compliant result please provide the data listed above (please repeat this Table for each non-compliant result)			
Non-compliant result (analyte and species/commodity)			
a) date of sampling			
a) date of availability of the analytical results			
b) marker residue identified			
c) concentration measured (µg/kg for pharmacologically active substances and pesticides; mg/kg for contaminants)			
d) analytical method used			
e) name of laboratory which carried out the test			
f) brief description of the outcome of the follow-up investigation undertaken by the competent authorities including the reason identified for the non-compliance			
g) a description of any measures taken to prevent recurrence			