



ANNUAL REPORT

2021

**Port State
Control
(PSC) &
Flag State
Inspection
(FSI)**

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General of Shipping
Government of India*



**Directorate General of Shipping
(Indian Maritime Administration)**

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IOMOU detention data is available on Indian Ocean Memorandum of Understanding (IOMOU)
on Port State Control website: www.iomou.nic.in

Message from Director General of Shipping

The Directorate General of Shipping (DGS), in the year 2021, has given special focus for Maritime India Summit 2021 wherein various MoUs were signed by stake holders to generate more employment opportunities for seafarers in next 5 years. Special emphasis was given to Maritime India Vision 2030 wherein key performance indicators with defined road map and objectives were identified and adopted to ensure overall growth of Indian maritime sector.



The year 2021 has also witnessed implementation of digital registration and certification portal for Indian flag ships. Further, a Mercantile Marine Domain Awareness Centre called as “Sagar Manthan” was established for real time vessel tracking of Indian vessels. Also, Indian built and owned vessels have been given highest priority to promote shipping and ship building activities in India.

This year (2021) the bust of Mahatma Gandhi, the father of nation, was placed in International Maritime Organization (IMO) headquarters in London coinciding with 150th birthday of Mahatma Gandhi.

Port State Control

The key activity in ship’s examination remains to be the port state control (PSC) and flag state implementation (FSI) process, where the Directorate exercises its authority over its vessels and foreign vessels in waters subject to its jurisdiction. Both FSI and PSC exams are intended to be of sufficient breadth and depth to validate that a ship’s major systems comply with applicable national and international standards. Vessels that are not in substantial compliance with applicable laws or regulations are identified in an exam and controls are imposed until the substandard conditions are rectified and the vessels are brought into compliance. This tactics, techniques / procedures are going to continue and strengthened till self-regulation becomes an effective and dependable. Therefore, all stake holders are urged to own up their responsibilities and discharge to the best of their ability to make the shipping cleaner, greener and the most sought mode of transportation by all.



As India aim to be a modern Maritime Administration, it is of great concern to see that India continues to be in grey list of Paris and Tokyo MoU. However, the efforts in the last few years have seen a reduction in port state detention of Indian ships and improvement of performance under USCG (de-listed from targeted list). The performance needs to be improved further in the upcoming years to ensure that India gets eligible for USCG Qualship 21 program and gets listed in the white list of Paris and Tokyo MoUs.

I congratulate the officers and staff of the Directorate General of Shipping for their diligent work in bringing out this exhaustive and informative report about the performance of Port State inspection and Flag State inspection of Indian and/or foreign flag vessels for eleventh consecutive year. I am sure that this report will assist scientific decision making and judicious investment of time and resources by all stake holders to make Indian Shipping safe and Indian coast free from casualties.

It is with great pleasure, on behalf of the Directorate to present the 2021 Annual Report on Port State and Flag State control activities of the Indian Maritime Administration.

With best wishes

Amitabh Kumar

Director General of Shipping
cum Additional Secretary to GoI.



Foreword by Chief Surveyor

It is with great pleasure, on behalf of the Directorate to present the 2021 Annual Report on Port State and Flag State control activities of the Indian Maritime Administration.

In 2021, Indian Maritime Administration has given special emphasis to Maritime India Vision 2030 in digitalizing the services and to ease up compliance burden. Further, as per current National Educational Policy this Directorate upon consultation with the stake holders as devised and implemented multi-disciplinary course catering to the latest and upcoming technology in particularly for Marine



Autonomous Surface Ships (MASS). This Directorate remains committed to reducing GHG emissions from shipping for low-carbon future and keeps it on high priority to achieve IMO GHG short-term and mid-term goals. In this process, India has participated as a lead pilot country for IMO-Norway green voyage 2050 while developing National Action Plan and initiated pilot projects for supplying shore power services to visiting ships. Further, India is considering implementation of Market Based Measures (MBMs) to support alternative low-carbon fuels and innovative emission reduction mechanisms.

There is a paradigm shift in the scope of Port State Inspection regime from discouraging sub-standard ships to protecting rights of seafarers and now to encourage fuel-efficient ships. This year, due to the second wave of COVID-19 pandemic, the targeted Port State Inspections in India were restricted however PSCs were carried out on clear grounds where ever necessary. Under Flag State inspection regime, there is 20% increase in number of flag state inspections conducted in 2021 when compared to 2020. There is increase in detention rate from 4.32% in 2020 to about 5.97% in 2021 while average deficiency index has increased from 6 to 8 signifying lack of adequate maintenance in the pandemic period.



Indian flag abroad performance continued to be good under USCG with nil detentions in the last four years. However, for qualifying for QUALSHIP21 program a flag state needs to be subjected to at least 10 no's of inspections in a calendar year and Indian flag vessels couldn't meet that criteria due to restricted PSC inspections conducted under USCG during the pandemic. Under Paris MoU and Tokyo MoU, India continued to be in Grey list however average deficiency per inspection under Tokyo MoU and performance rating in Paris MoU are on improving trend.

With a goal to bring India in the White list of Paris and TOKYO MOU and get eligible for USCG Qualship21 program in the upcoming years, a better monitoring of Indian ships with a goal to achieve Zero detention policy by all stake holders and regulators is envisaged.

I am sure, collectively this will be achieved by promoting quality, encouraging effective self-regulation, and fostering full obedience to the law by everyone involved in ship and shipping and not only being restricted to fulfill the legal, commercial and ethical responsibilities at individual level (s).

With best wishes.

AJITH SUKUMARAN

Chief Surveyor
cum Additional Director General of Shipping (Tech)



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Keywords

- **Average Deficiency Index:** It is the ratio of total number of deficiencies of all ships to the total number of inspections of all ships in that category.
- **Detention Rate:** It is the percentage of the total number of detained vessels to the total number of inspections of all ships in that category.
- **Nil Deficiency Rate:** It is the percentage of the total number of inspected vessels with nil deficiency to the total number of inspections of all ships in that category.

Disclaimer

The consolidated data provided is based on the data available in DGS website and is for the purpose of disseminating information for the benefit of the public and industry at large.

The Directorate General of Shipping has made every effort to ensure the quality of the information available in this report. However, before relying on the information provided in this report, users should carefully evaluate its accuracy, completeness and relevance for their intended purposes.

The Directorate General of Shipping does not accept any liability for whatsoever reason by use of or reliance on the information provided in the report.



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Port State Control (PSC) in India



Trend analysis of Port State Inspection Statistics

India is a member of Indian Ocean Memorandum on Port State control along with 20 other members. The ultimate goal of IOMOU is to identify and eliminate substandard ships from the region.

To achieve the above objectives, Indian law under various sections of the Merchant Shipping Act, 1958 gives power to Indian Port State surveyors to inspect foreign ships when in Indian ports for compliance to various conventions to which India is a signatory.

Section 342 of MS Act, 1958 gives powers to detain a sub- standard ship and Section 334 states that “A ship is ‘unseaworthy’ within the meaning of this Act when the materials of which she is made, her construction, qualifications of the master, the number, description and qualifications of the crew including officers, the weight, description and stowage of the cargo and ballast, the condition of her hull and equipment, boilers and machinery are not such as to render her in every aspect fit for the proposed voyage or service”.

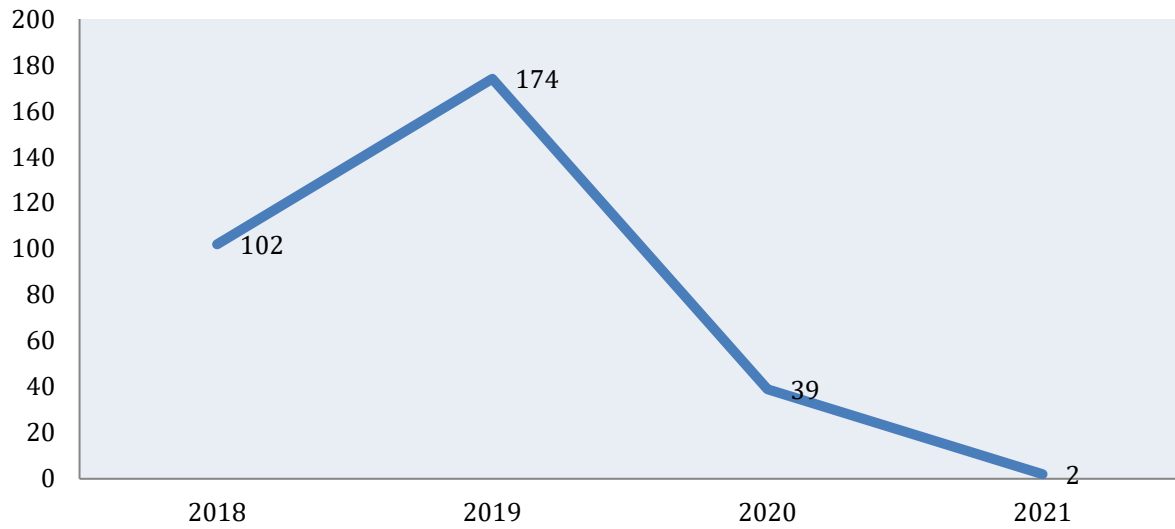
India has been carrying out its commitment to identify and eliminate sub- standard shipping year on year and has been publishing the results of port state inspections annually from last many years. In the calendar year 2021, India conducted 17 initial inspections. Though these inspections were conducted on various types of vessels, majority were conducted on Bulk carriers, that is, about 23.53% of the total initial inspections. More than 58% of all vessels inspected were less than 20 years of age.

There were a total of 176 deficiencies identified during these 17 initial inspections constituting an average of 10.35 deficiencies per ship. No ship was found without any deficiencies.

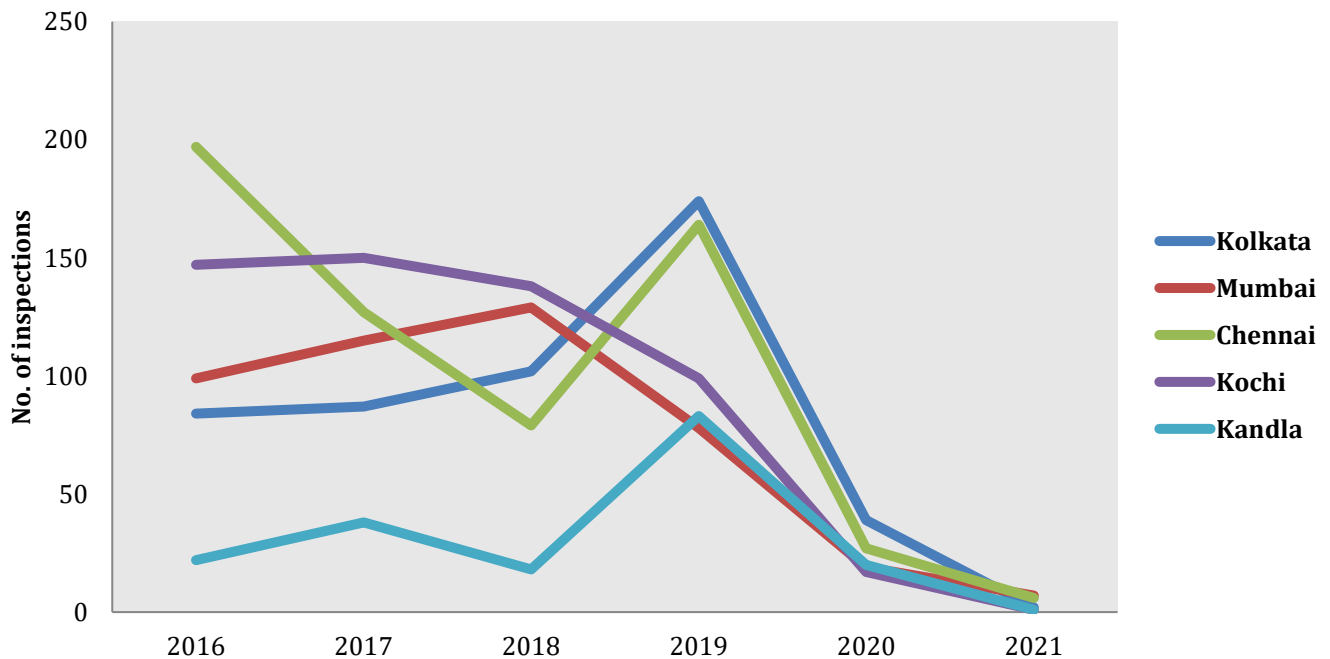
There were a total of 03 detentions constituting a detention rate of 18%. Maximum numbers, that is, 2 of all vessels detained were Offshore Service Vessels and with 2 initial inspections it constitutes a detention rate of 100%.



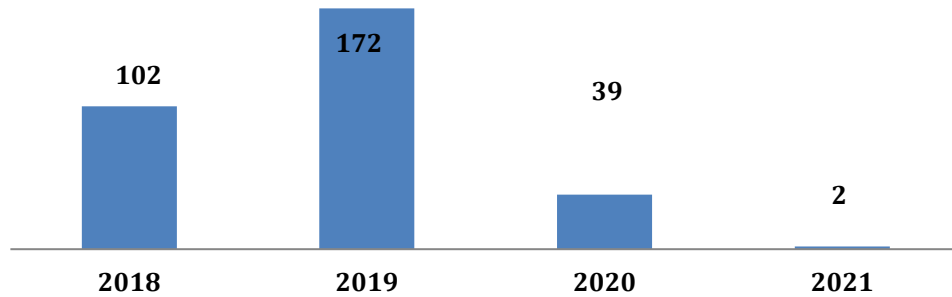
**Trends - Number of PSC Inspections from 2018-2020
(Figure 1)**



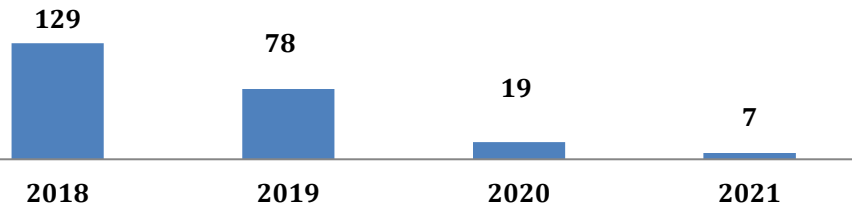
**Trends - Comparison of PSC Inspections by district
Figure 1A**



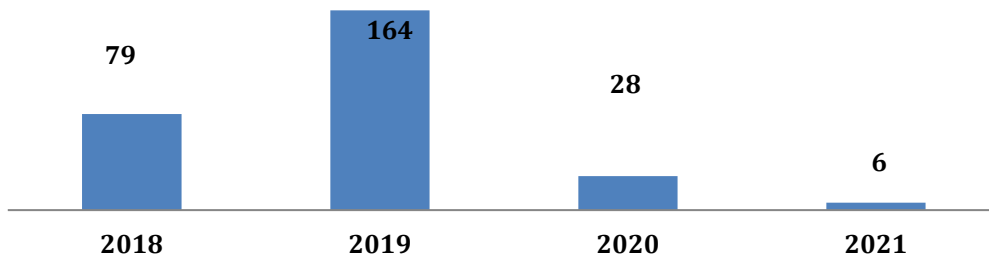
Trends - Number of PSC Inspections by Kolkata District (Figure 2A)



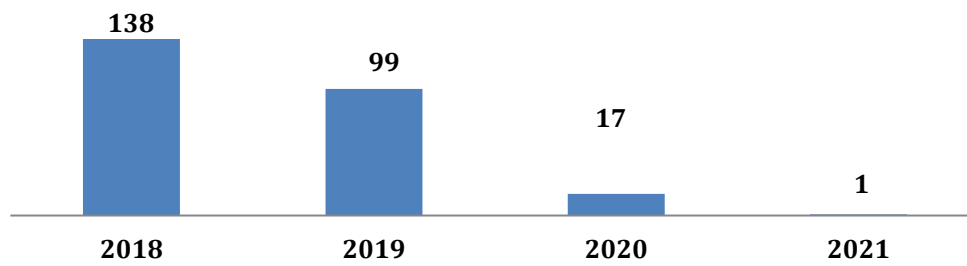
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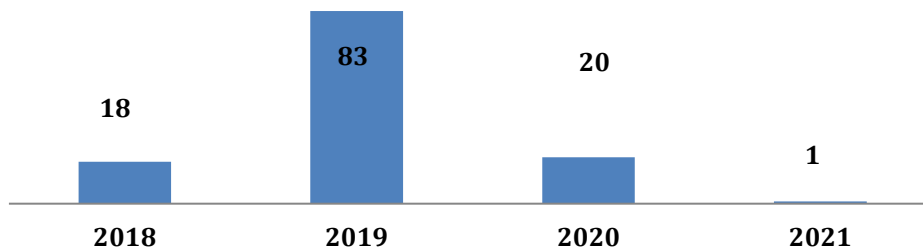
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**Trends - Number of PSC Inspections by Kochi District
(Figure 2D)**



**Trends - Number of PSC Inspections by Kandla District
(Figure 2E)**

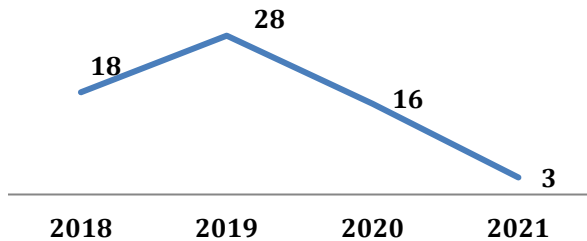


Overall PSC Performance Trends

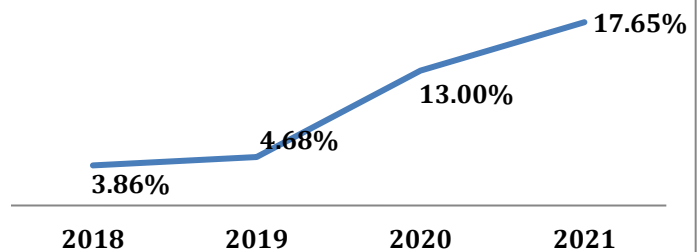
Table 1: PSC Performance

Ship Type	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
Bulk Carrier	4	0	6.75	0.00
Chemical Tanker	1	0	4.00	0.00
Container Ship	3	0	3.33	0.00
General Cargo/ Multi-Purpose Ship	2	0	2.50	0.00
MODU or FPSO	1	0	26.00	0.00
Oil Tanker	2	0	11.00	0.00
OSV	2	2	27.00	0.00
Other Types of Ships	1	1	23.00	0.00
Passenger Ships	1	0	5.00	0.00
Total	17	3	10.35	0.00

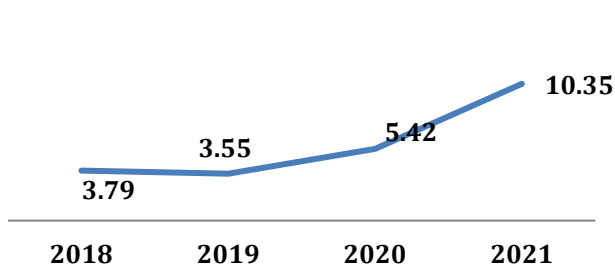
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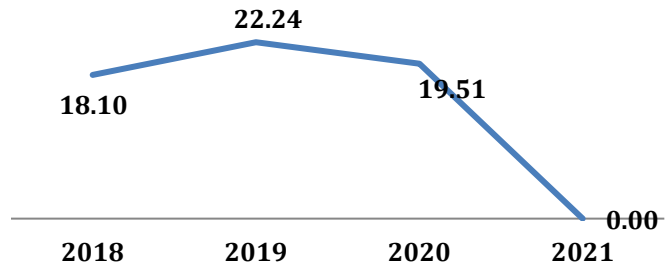
Trends - Detention Rate (Figure 4)



Trends - Performance parameter: Avg. Deficiency Index (Figure 5A)



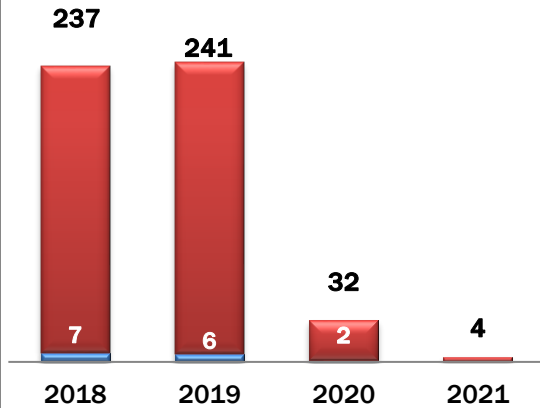
Trends - Performance parameter: Nil Deficiency Percentage (Figure 5B)



Trend analysis of Performance parameter: Ship-type

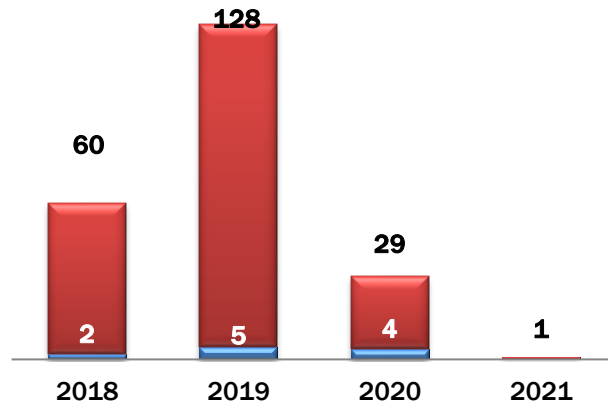
Trends - Comparison of Detentions to Inspections : Bulk Carriers (Figure 6A)

■ No. of Detentions ■ No. of Inspections



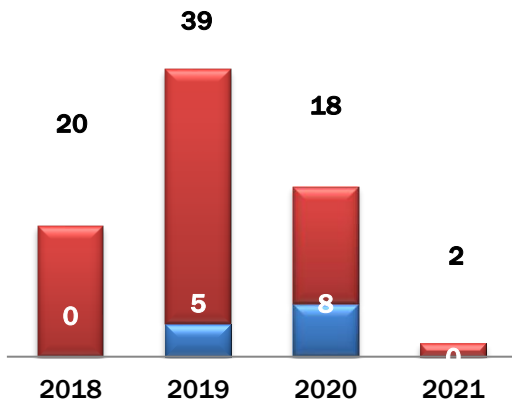
Trends - Comparison of Detentions to Inspections : Chemical Tankers (Figure 6B)

■ No. of Detentions ■ No. of Inspections



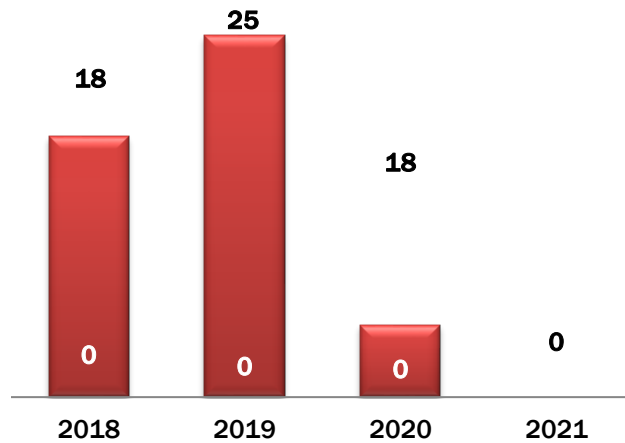
Trends - Comparison of Detentions to Inspections : Oil Tankers (Figure 6C)

■ No. of Detentions ■ No. of Inspections



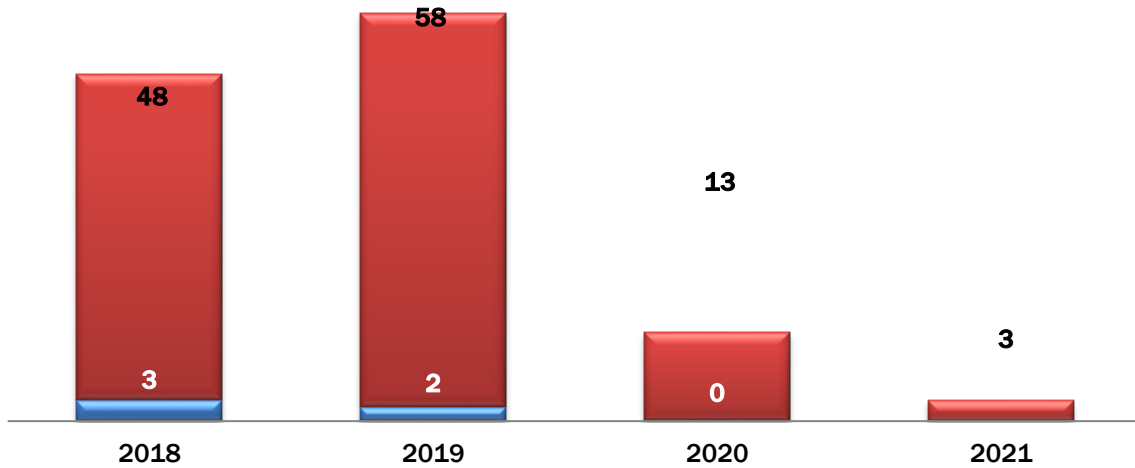
Trends - Comparison of Detentions to Inspections : Gas Carriers (Figure 6D)

■ No. of Detentions ■ No. of Inspections



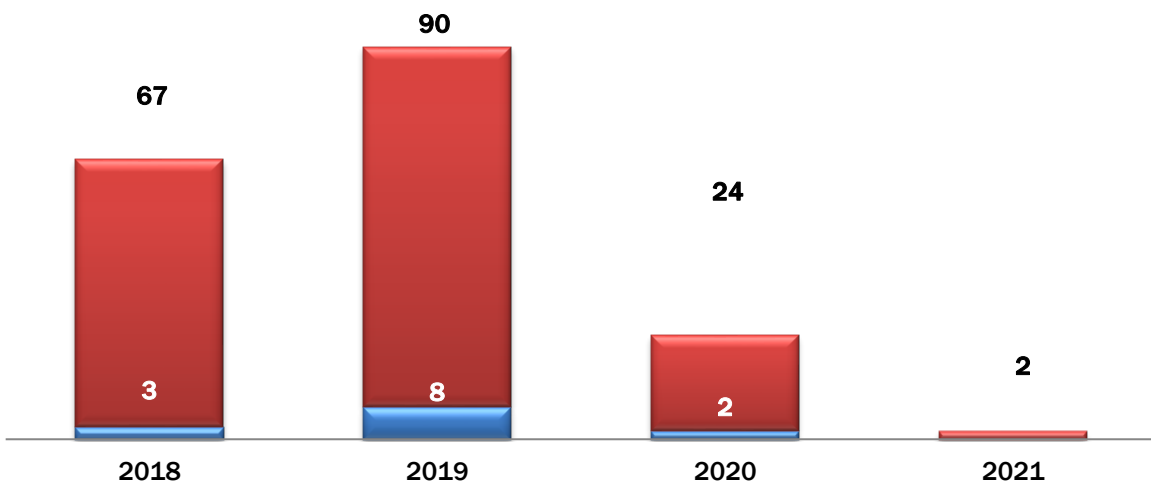
**Trends - Comparison of Detentions to Inspections :
Container Vessels (Figure 6E)**

■ No. of Detentions ■ No. of Inspections



**Trends - Comparison of Detentions to Inspections :
GeneralCargo/Multi-purpose vessels (Figure 6F)**

■ No. of Detentions ■ No. of Inspections



Trend Analysis of Performance parameter: Age

**Table 2A: Performance Parameters of various ship types
(Age category 0-12 Years)**

Type of vessel	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
All Types	3	0	5.33	0.00
Bulk Carriers	2	0	5.50	0.00
Oil Tankers	0	0	-	-
Chemical tankers	0	0	-	-
Gas carrier	0	0	-	-
Container	1	0	5.00	0.00
General Cargo/Multi-Purpose Vessel	0	0	-	-
Ro-ro cargo ship	0	0	-	-

**Table 2B: Performance Parameters of various ship types
(Age category 13-20 Years)**

Type of vessel	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
All Types	8	1	11.00	0.00
Bulk Carriers	2	0	8.00	0.00
Container Ships	2	0	2.50	0.00
General Cargo	1	0	2.00	0.00
MODU or FPSO	1	0	26.00	0.00
Oil Tanker	1	0	13.00	0.00
OSV	1	1	26.00	0.00



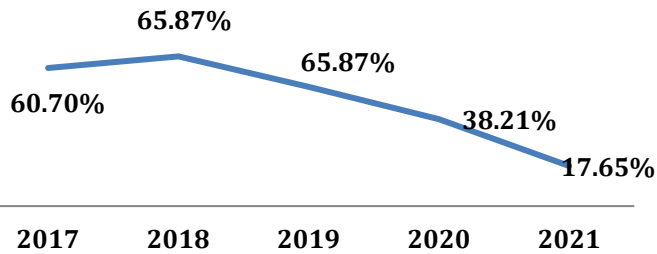
**Table 2C: Performance Parameters of various ship types
(Age category: over 20 Years)**

Type of vessel	Number of Inspection	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
All Types	6	2	12	0.00
Chemical Tanker	1	0	4	0.00
General Cargo	1	0	3	0.00
Oil Tanker	1	0	9	0.00
OSV	1	1	28	0.00
Other Types of Ship	1	1	23	0.00
Passenger Ship	1	0	5	0.00

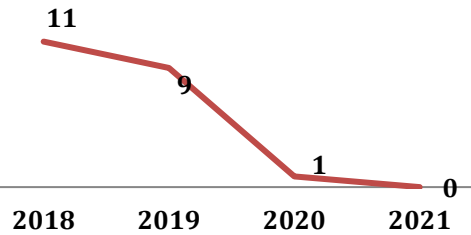


Trends Analysis of Age based Performance parameters

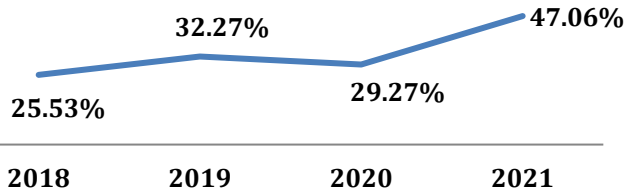
**Trends - Percentage of vessels inspected:
Age 0-12 years (Figure 7A)**



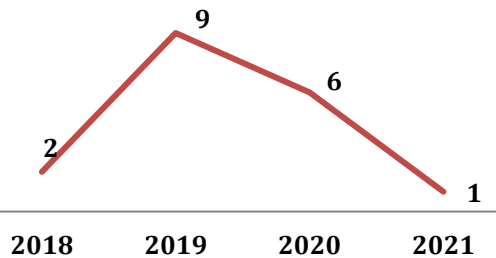
**Trends - No. of detentions:
Age 0- 12 years (Figure 7B)**



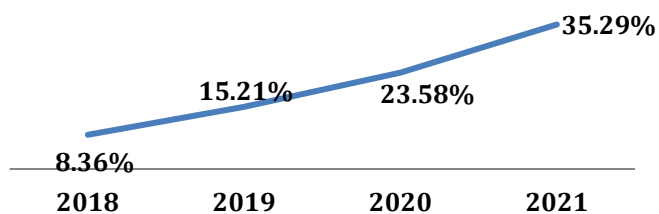
**Trends - Percentage of vessels inspected:
Age 13-20 years (Figure 7C)**



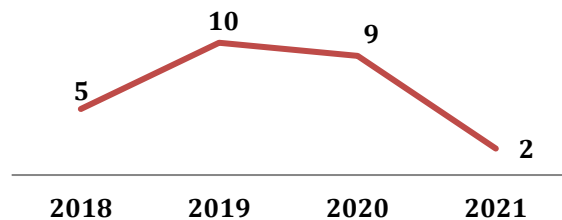
**Trends - No. of detentions:
Age 13-20 years (Figure 7D)**



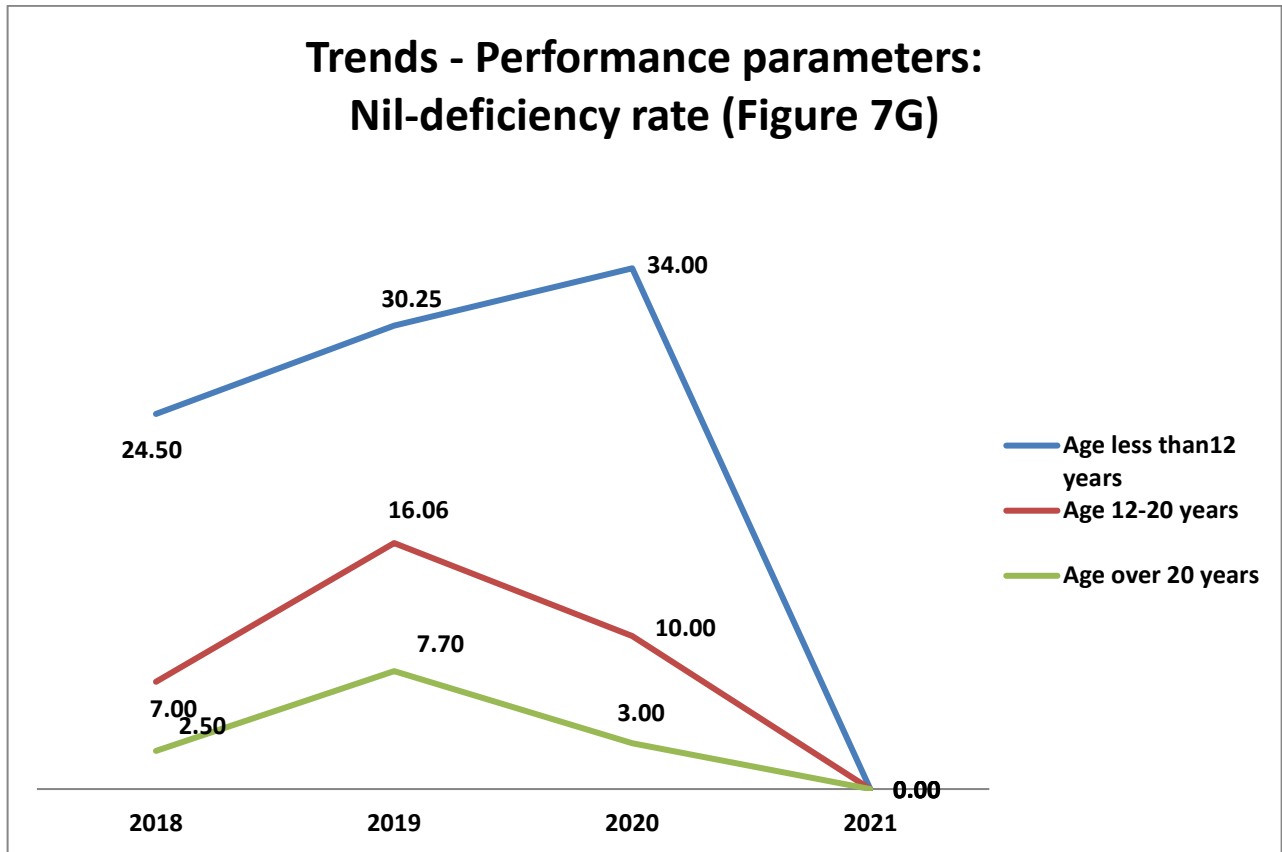
**Trends - Percentage of vessels inspected:
Age over 20 years (Figure 7E)**



**Trends - No. of detentions:
Age over 20 years (Figure 7F)**



Trends - Performance parameters: Nil-deficiency rate (Figure 7G)



Trends Analysis of Age based Performance parameters

Table 3A: Performance: Recognized Organizations

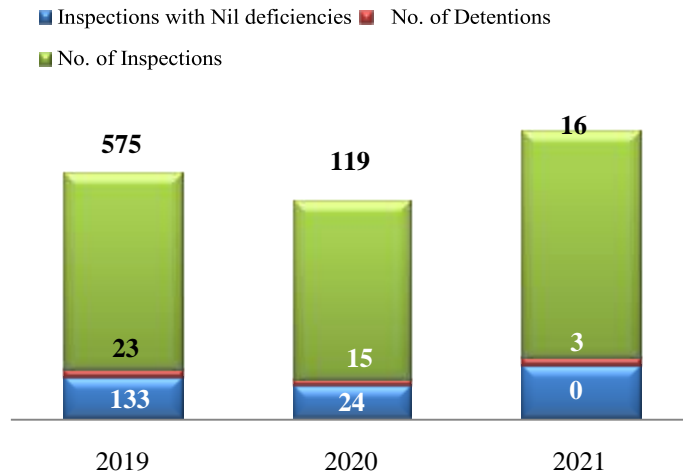
Recognized Organization	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil Deficiency Rate
ABS	5	1	12.80	0.00
BV	1	0	13.00	0.00
DNV GL AS	2	0	7.00	0.00
IRS	2	1	15.00	0.00
KRS	1	0	4.00	0.00
LR	1	0	5.00	0.00
NKK	3	1	11.67	0.00
No Class	1	0	4.00	0.00
PRS	1	0	7.00	0.00
TOTAL	17	3	10.35	0.00

Table 3B: Performance: Recognized Organizations based on IACS Membership

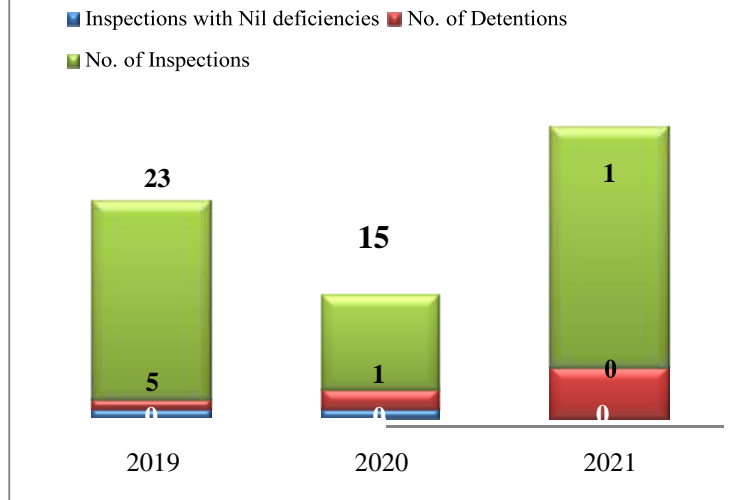
Recognized Organization	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
All Types	17	3	10.35	0.00
IACS Members	16	3	10.75	0.00
Non-IACS Members	1	0	4.00	0.00



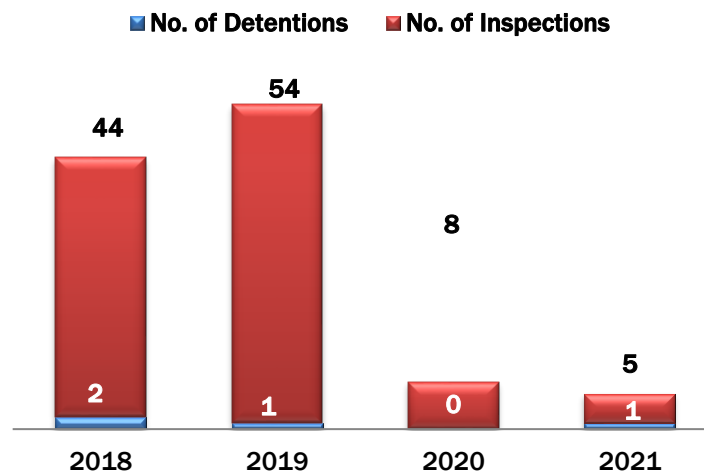
Trends - Performance parameters of RO with IACS Membership (Figure 8A)



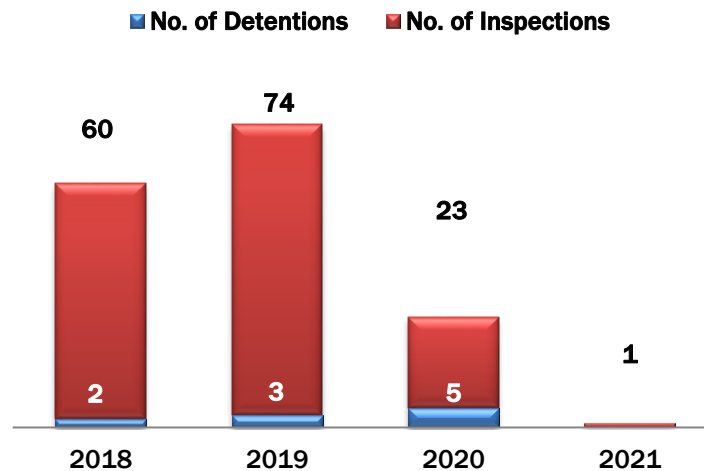
Trends - Performance parameters of RO with non-IACS Members (Figure 8B)

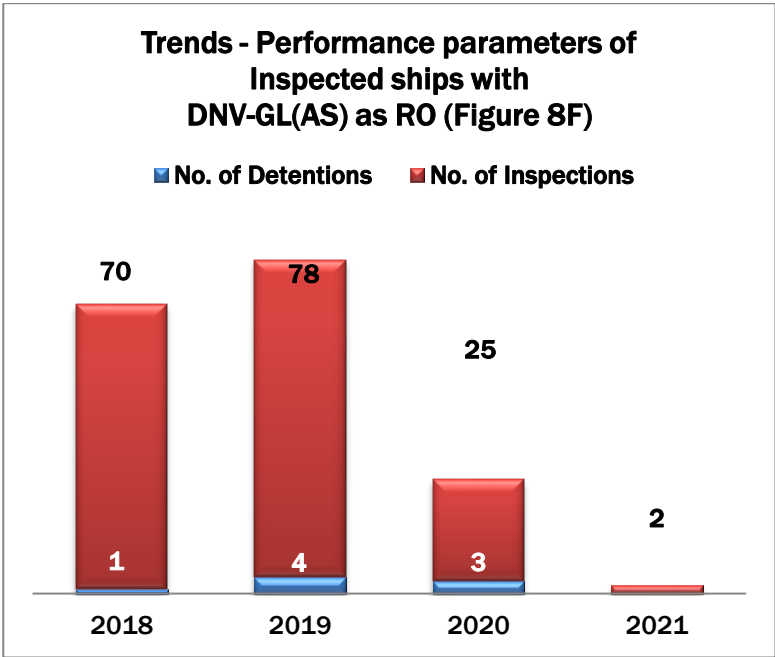
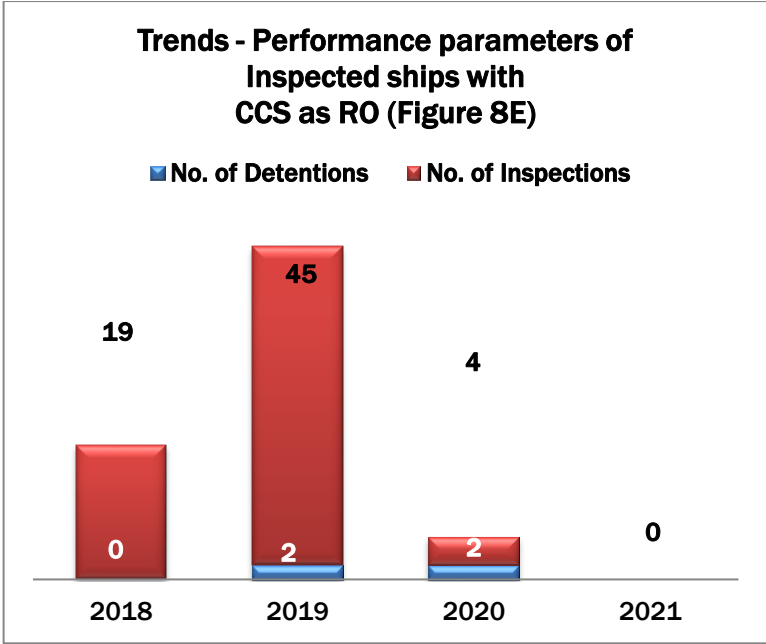


**Trends - Performance parameters of
Inspected ships with ABS as RO
(Figure 8C)**



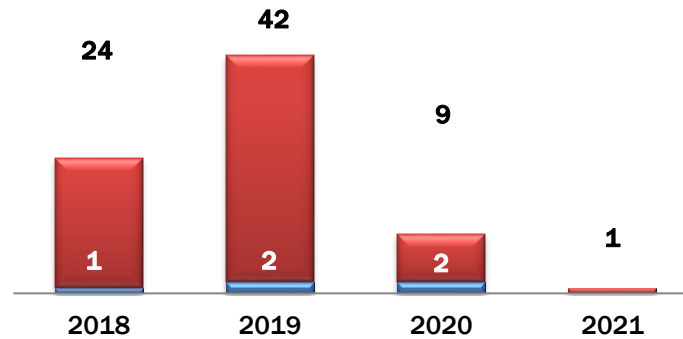
**Trends - Performance parameters of
Inspected ships with
BV as RO (Figure 8D)**





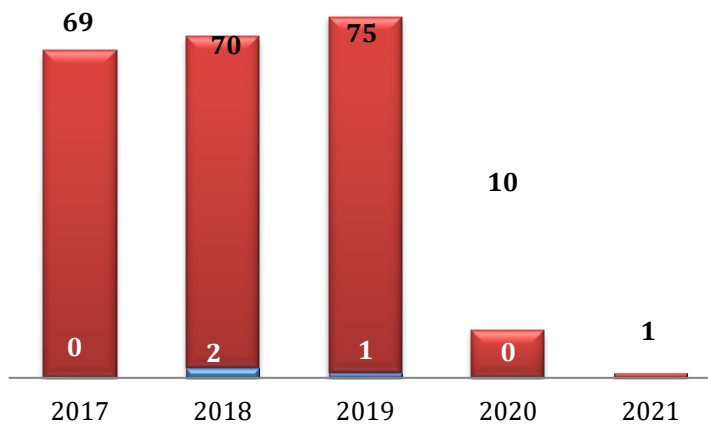
Trends - Performance parameters of Inspected ships with KRS as RO (Figure 8G)

■ No. of Detentions ■ No. of Inspections



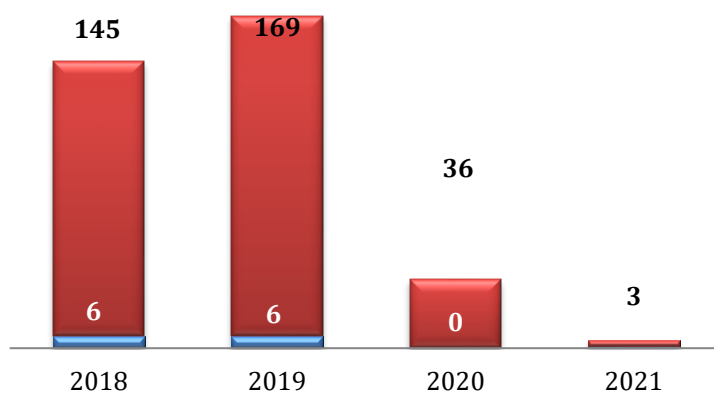
Trends - Performance parameters of Inspected ships with LR as RO (Figure 8H)

■ No. of Detentions ■ No. of Inspections



**Trends - Performance parameters of
Inspected ships with
NK as RO (Figure 8I)**

■ No. of Detentions ■ No. of Inspections



Performance of Flag State

Flag	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
Bahamas	1	0	5.00	0.00
Hong Kong, China	1	0	3.00	0.00
Indonesia	1	1	26.00	0.00
Italy	1	0	4.00	0.00
Korea, Republic of	1	0	4.00	0.00
Liberia	2	0	3.00	0.00
Panama	3	0	6.00	0.00
Portugal	1	0	4.00	0.00
Saint Kitts and Nevis	1	0	28.00	0.00
Saint Vincent and the Grenadines	1	1	26.00	0.00
Singapore	2	0	10.00	0.00
Tuvalu	2	1	16.00	0.00
Total	17	3	10.35	0.00



List of ships detained under PSC in 2021

Sr. No.	Date Of Inspection	IMO No.	Ship Name	Flag	Year Built	Ship Type	Classification Society	Place Of Inspection
1	27.05.2021	8318233	NOVE	Saint Kitts and Nevis	1983	OSV	IRS	Mumbai
2	30.10.2021	9483061	NPP NUSANTARA	Indonesia	2008	OSV	ABS	Mumbai
3	08.12.2021	8602438	NORTHERN ENDEAVOUR	Tuvalu	1986	Other Types of Ship	NKK	Mumbai





Flag State Inspection (FSI) Of Indian Ships



Since most of the statutory surveys of Indian flag vessels are conducted by recognized organizations, the directorate fulfils its obligation under United Nations Law of Sea by carrying out flag state inspections of Indian flag vessels. The Flag State inspection (FSI) regime implemented in India is based on age, that is, more the age of a vessel - more frequent are the number of inspections. Further the FSI regime also monitors the performance of recognized organizations by carrying out these FSI 1-3 months after the completion of statutory surveys.

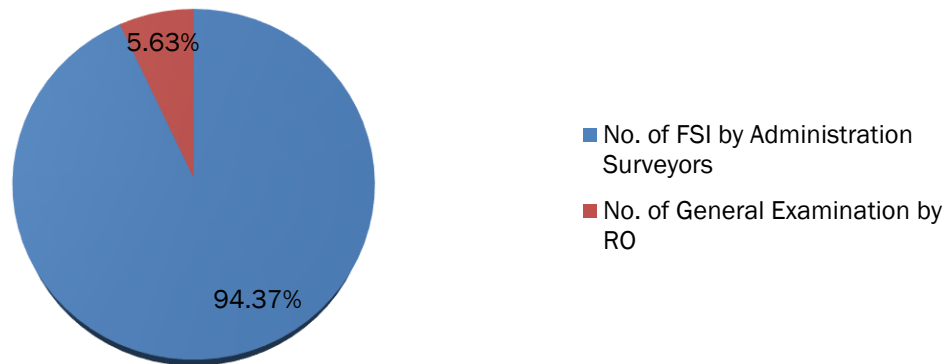
In 2021, there were 515 initial inspections of Indian flag vessels under FSI/GI regime and this figure is about 90 initial inspections more than that conducted in 2020. Out of these 515 initial inspections, 29 inspections were general examinations conducted abroad by an Indian RO other than that which conducted the statutory surveys of the vessel.

There were 3855 deficiencies raised in 486 initial FSI inspections constituting about an average of 7.93 deficiencies per ship. The 36 numbers of Offshore Service Vessels inspected registered the highest average deficiencies of 16.16 per vessel followed by 53 number Oil Tankers inspected with an average of 10.16 deficiencies per vessel.

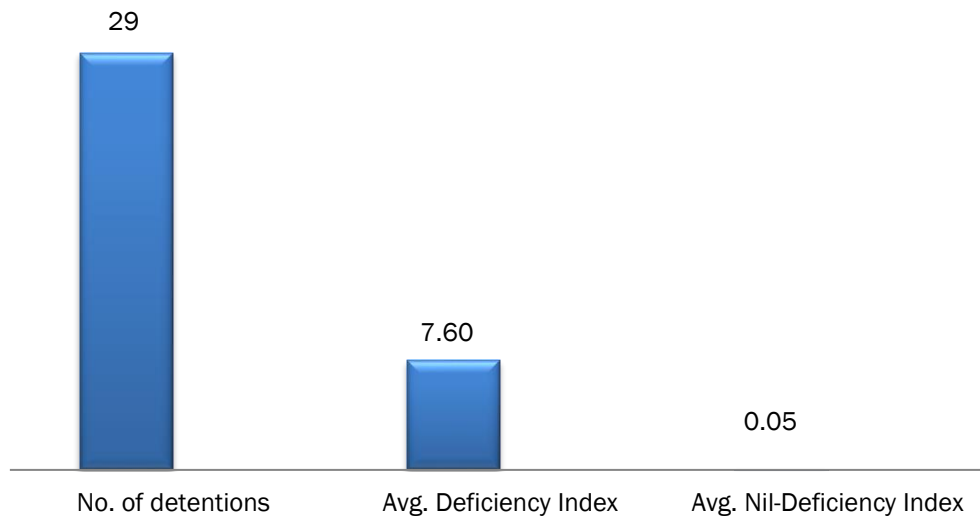
There were 29 vessels detained under FSI in 2021 constituting a three-year highest detention rate of 5.97%. Among all ship types detained, the highest i.e. 12 were Tugboats.



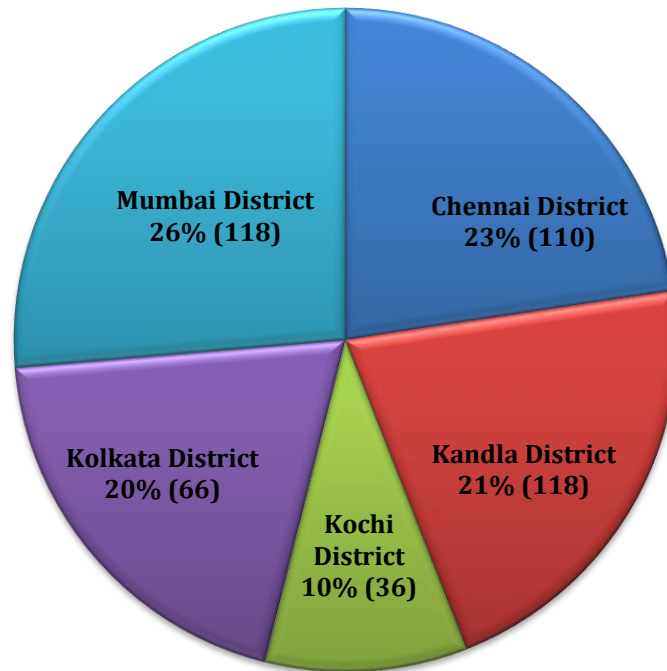
Comparison of FSI Inspections (in India) and GE (abroad) (Figure 10)



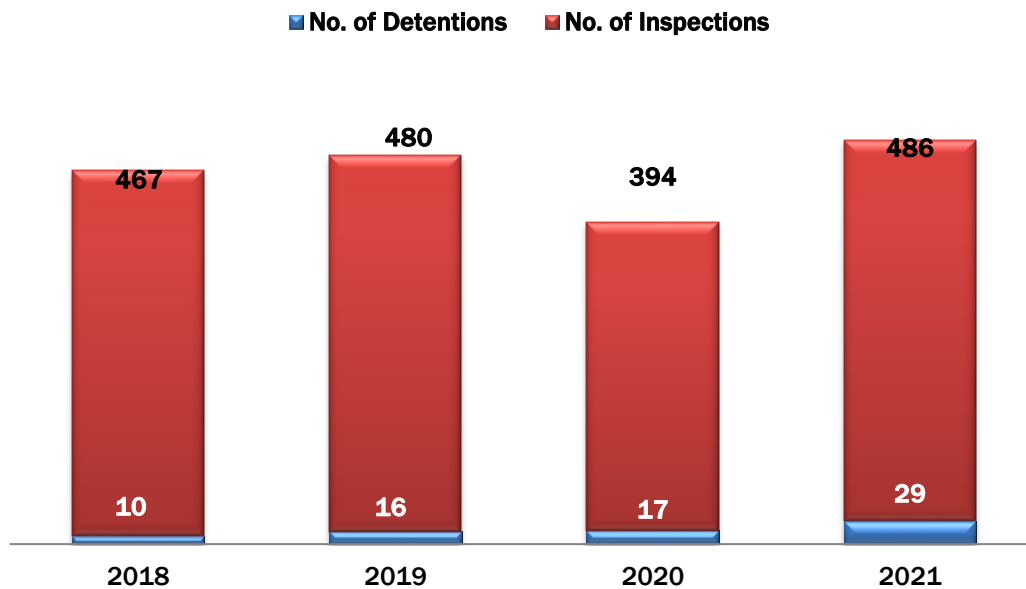
Performance of Indian Ships under FSI and GE (Figure 11)



**Distribution of FSI Inspections across regions
(Figure 12)**



**Trends - Comparison of FSI Inspections and Detentions from
2018-2021 (Figure 13A)**



**Trends - Detention Rate in FSI Inspections from 2018-2021
(Figure 13B)**

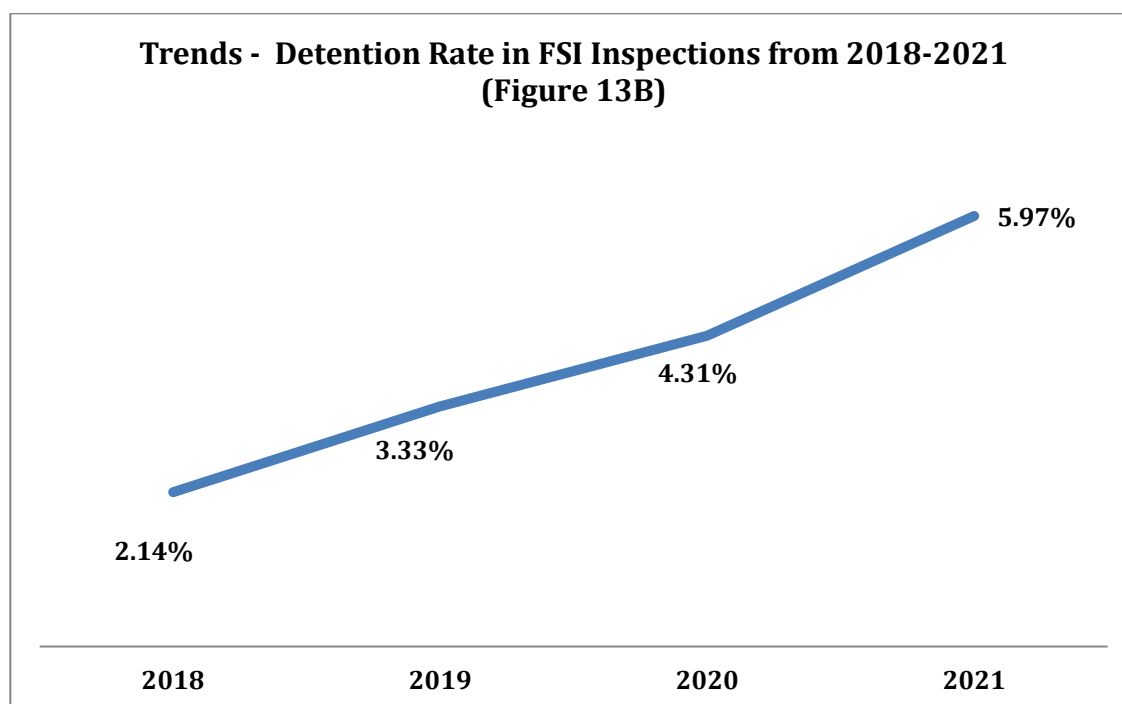
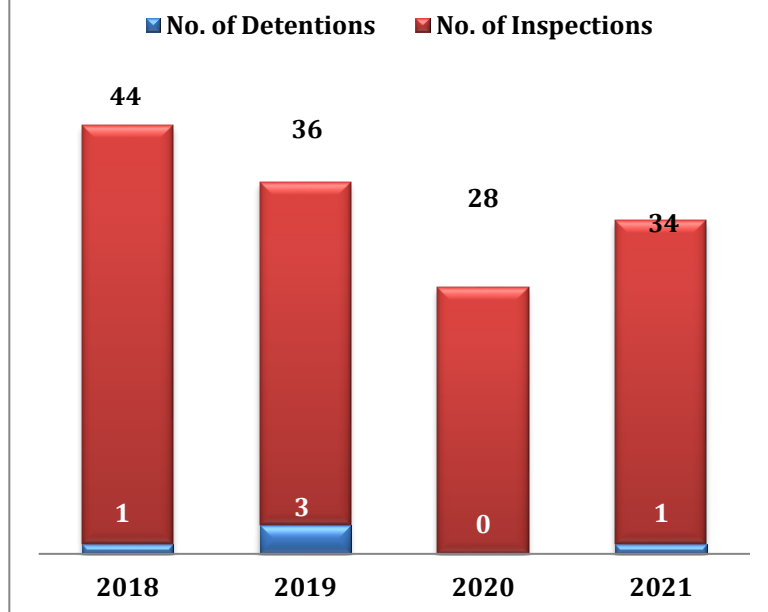


Table 4: Flag State Inspection Performance based on Ship Type

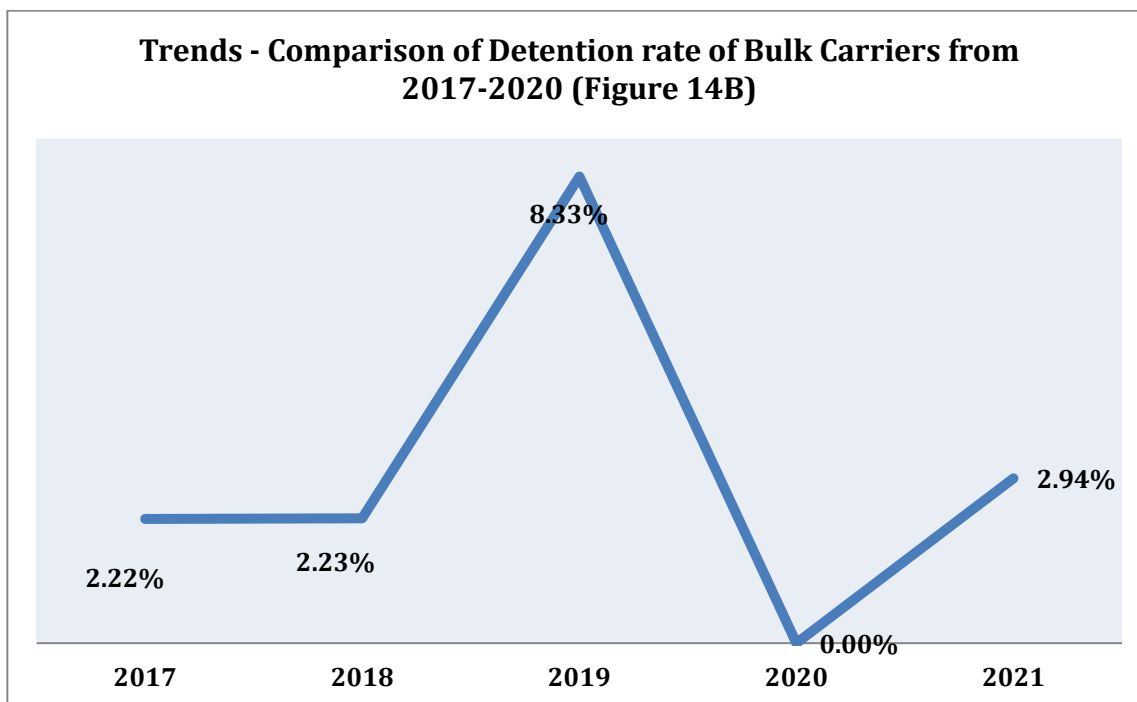
Type of Vessel	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
All Types	486	29	7.93	0.03
Bulk Carrier	34	0	7.03	0.03
Chemical Tanker	1	1	10.00	0.00
Container Ship	18	0	9.00	0.00
Gas Carrier	19	0	4.16	0.05
General Cargo	31	4	9.00	0.03
Oil Tanker	53	2	10.17	0.00
OSV	36	2	16.17	0.00
Other Types of Ship	117	3	8.28	0.02
Passenger Ship	10	0	8.40	0.00
Tugboat	167	5	5.46	0.05



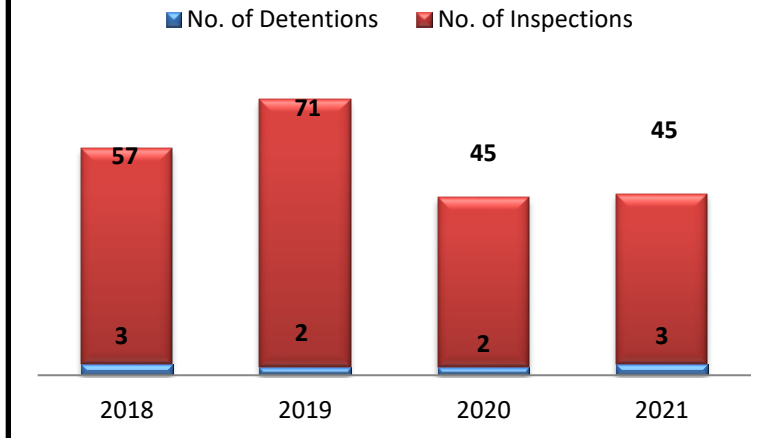
Trends - Comparison of FSI Inspections and Detentions of Bulk Carriers from 2018-2021 (Figure 14A)



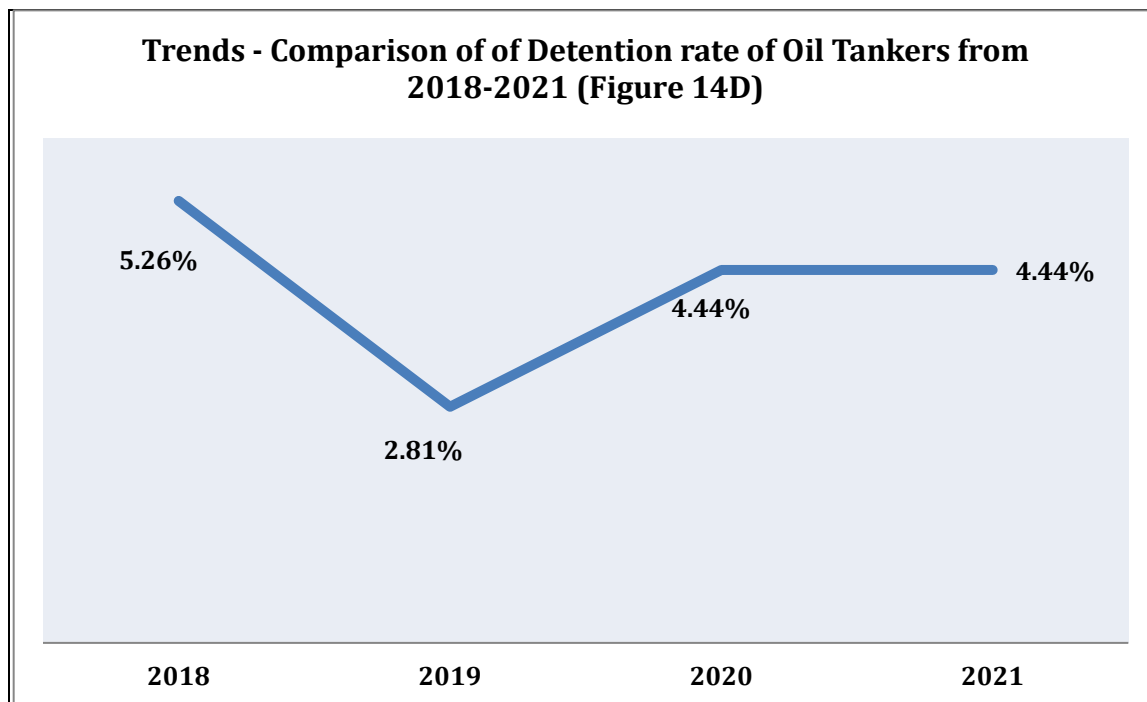
Trends - Comparison of Detention rate of Bulk Carriers from 2017-2020 (Figure 14B)



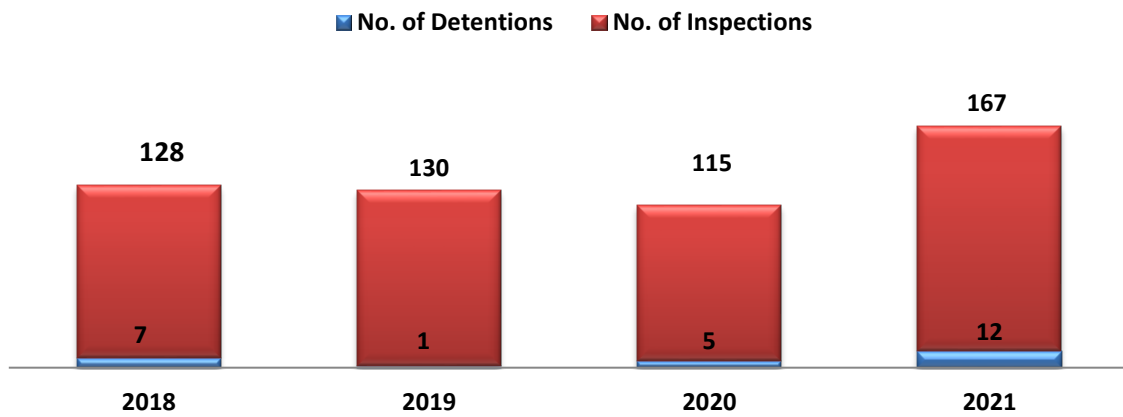
Trends - Comparison of FSI Inspections and Detentions of Oil Tankers from 2017-2020 (Figure 14C)



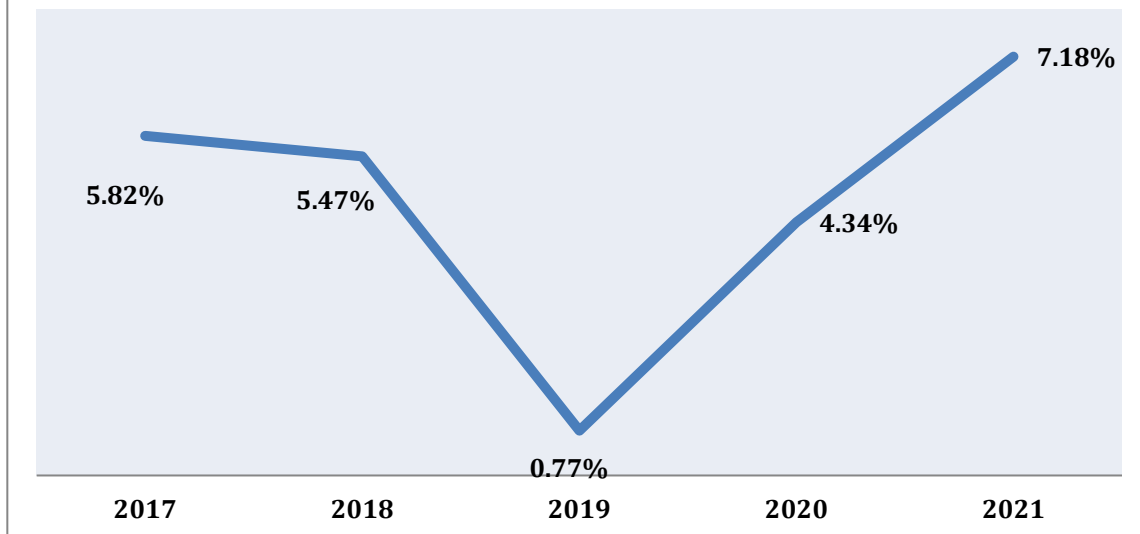
Trends - Comparison of of Detention rate of Oil Tankers from 2018-2021 (Figure 14D)



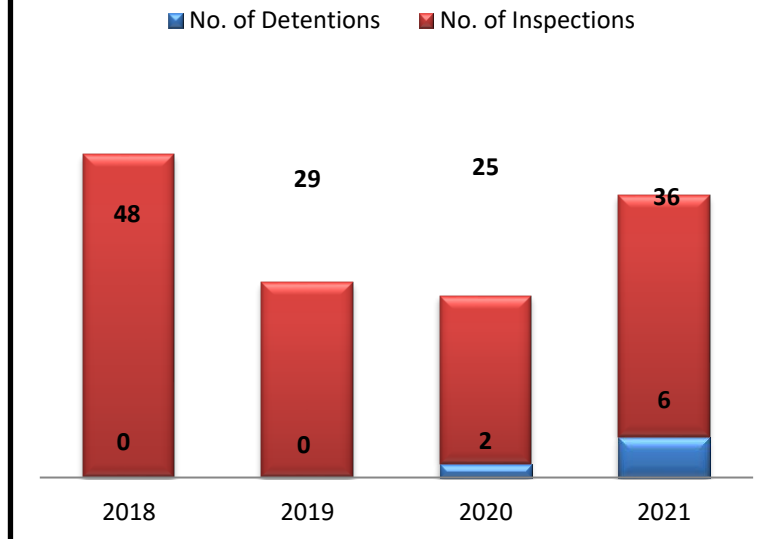
**Trends - Comparison of FSI Inspections and Detentions of Tug boats/Pilot launch from 2018-2021
(Figure 14E)**



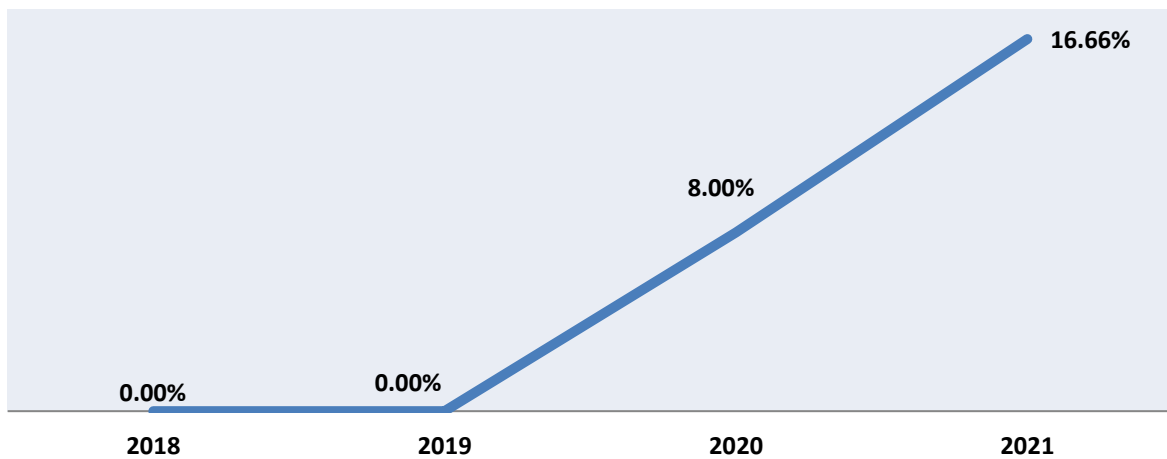
**Trends - Comparison of of Detention rate of Tug boats/Pilot launch from 2018-2021
(Figure 14F)**



Trends - Comparison of FS Inspections
and Detentions of Offshore vessels
from 2017-2020
(Figure 14G)



Trends - Comparison of Detention rate of
Offshore vessels from 2017-2020
(Figure 14H)



GE & FSI Performance of Ships

Table 5: General Examination Performance based on Ship Type

Type of Vessel	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
Total	29	0	2.00	0.44
Bulk Carrier	10	0	0.50	0.70
Chemical tanker	2	0	1.00	0.00
Container Ship	1	0	3.00	0.00
General Cargo	1	0	7.00	0.00
Oil Tanker	14	0	2.93	0.36
Tugboat	1	0	0.00	1.00

Table 6A: FSI Performance of ships up to 500GT

Type of Vessel	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
All Types	200	12	5.79	0.05
Fiber Boat	0	0	-	-
General Cargo/Multi-Purpose Ship	1	0	8.00	0.00
High Speed Passenger Craft	0	0	-	-
Offshore Service Vessel	1	0	8.00	0.00
Oil Tanker	0	0	-	-
Other Types of Ship	38	3	7.92	0.03
Passenger Ship	3	0	8.33	0.00
Special Purpose Ship	0	0	-	-
Tugboat	157	9	5.19	0.06

Table 6B: FSI Performance of ships of above 500GT and below 3000 GT

Type of Vessel	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
All Types	131	14	12.05	0.00
Bulk Carrier	4	0	2.25	0.25
Container	1	0	11.00	0.00
Gas Carrier	1	0	8.00	0.00
General Cargo/Multi-Purpose Ship	23	2	9.87	0.00
Offshore Service Vessel	33	6	17.09	0.00
Oil Tanker	5	1	29.20	0.00
Other Types of Ship	50	2	9.64	0.02
Passenger Ship	4	0	8.75	0.00
Tugboat	10	3	9.70	0.00



Table 6C: FSI Performance of ships more than 3000 GT

Type of Vessel	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
All Types	155	3	7.22	0.01
Bulk Carrier	30	1	7.67	0.00
Chemical tanker	1	0	10.00	0.00
Container Ship	17	0	8.88	0.00
Gas Carrier	18	0	3.94	0.05
General Cargo/Multi-Purpose Ship	7	0	6.29	0.14
Offshore Service Vessel	2	0	5.00	0.00
Oil Tanker	48	2	8.19	0.00
Other Types of Ship	29	0	6.41	0.00
Passenger Ship	3	0	8.00	0.00

Table 7A: FSI Performance of ships up to 5 years of age

Type of Vessel	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
All Types	35	2	5.17	0.03
Bulk Carrier	1	0	2.00	0.00
General Cargo/Multi-Purpose Ship	0	0	-	-
Offshore Service Vessel	1	0	1.00	0.00
Other Types of Ship	10	0	6.10	0.00
Passenger Ship	2	0	5.50	0.00
Tugboat	21	2	5.05	0.05

Table 7B: FSI Performance of ships above 5 years & up to 15 years of age

Type of Vessel	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
All Types	163	13	8.13	0.03
Bulk Carrier	15	0	6.27	0.07
Chemical Tanker	0	-	-	-
Container Ship	3	0	12.33	0.00
Gas Carrier	10	0	2.60	0.01
General Cargo/Multi-Purpose Ship	9	2	11.89	0.11
Offshore Service Vessel	19	4	15.32	0.00
Oil Tanker	8	0	6.50	0.00
Other Types of Ship	42	2	9.31	0.00
Passenger Ship	1	0	16.00	0.00
Tugboat	56	5	5.57	0.03



Table 7C: FSI Performance of ships above 15 years & up to 25 years of age

Type of Vessel	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
All Types	196	7	7.67	0.03
Bulk Carrier	16	1	8.25	0.00
Container Ship	15	0	8.33	0.00
Gas Carrier	6	0	6.17	0.00
General Cargo	7	0	7.29	0.00
Oil Tanker	38	1	8.24	0.00
Offshore Service Vessel	15	2	18.73	0.00
Other Types of Ship	27	0	6.85	0.07
Passenger Ship	5	0	8.00	0.00
Tugboat	67	3	5.06	0.07

Table 7D: FSI Performance of ships more than 25 years of age

Type of Vessel	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
All Types	92	7	9.18	0.00
Bulk Carrier	2	0	5.50	0.00
Chemical Tanker	1	0	10.00	0.00
Gas Carrier	3	0	5.33	0.00
General Cargo	15	0	8.07	0.00
Offshore Service Vessel	1	0	9.00	0.00
Oil Tanker	7	2	24.86	0.00
Other Types of Ship	38	3	8.74	0.00
Passenger Ship	2	0	8.50	0.00
Tugboat	23	2	6.74	0.05



FSI Performance of ROs and Shipping Companies

Table 8 : FSI Performance– Recognized Organization

Recognized Organization	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
All Ships	486	29	7.93	0.03
IRS	389	25	7.88	0.03
IRS-ABS	29	3	12.17	0.00
IRS-BV	8	1	12.25	0.12
IRS-DNV	14	0	7.14	0.00
IRS-KRS	1	0	3.00	0.00
IRS-LR	38	0	5.37	0.03
IRS-NKK	6	0	4.00	0.00
IRS-RINA	1	0	9.00	0.00

Table 9 : FSI Performance of Shipping Companies

Name of Company	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
ABS MARINE SERVICES PVT LTD	1	0	6.00	0.00
ACOMS INDIA PRIVATE LIMITED	1	0	6.00	0.00
Adani Harbour services Pvt Ltd	5	0	3.00	0.00
ADSUN OFFSHORE DIVING CONTRACTORS PVT LTD MUMBAI	1	0	5.00	0.00
AERO SHIPPING SERVICES	1	0	10.00	0.00
Ajwa logistics pvt ltd	1	0	3.00	0.00
AK Ship Management	2	0	6.00	0.00
Albatross Marien Services	5	0	4.40	0.00
Amaze Maritime Service Pvt Ltd	1	0	15.00	0.00
AMBA Shipping & Logistics	10	2	13.20	0.00
Ambuja Cements Limited	10	0	6.40	0.00



Amro Marine	1	0	10.00	0.00
ANGLO EASTERN	1	0	4.00	0.00
Apeejay Shipping	7	1	8.00	0.00
ARKA GLOBAL MARINE SERVICES LLC, UAE	1	0	12.00	0.00
ARKAY LOGISTICS PVT LTD	1	0	2.00	0.00
ARYA TANKERS PVT LTD	2	0	6.50	0.00
ASMI SHIPS PVT.LTD	1	0	13.00	0.00
AVM MARINE LLP	1	1	21.00	0.00
AZA SHIPPING PVT LTD	2	0	1.50	0.00
CAN OFFSHORE PVT LTD	3	0	5.67	0.00
Capstan Marine Services Pvt. Ltd.	1	0	1.00	0.00
Chandra Ship Management pvt Ltd.	1	0	4.00	0.00
Coastal Marine Construction &&&&&&& Engineering Limited.	1	0	4.00	0.00
Cochin Port Trust	2	0	13.00	0.00
DARYA SHIPMANAGEMENT PVT LTD	1	0	4.00	0.00
Dawn Shipping	2	0	8.00	0.00
DCI	8	0	8.50	0.00
Deendayal Port Trust	2	0	5.00	0.00
DELMAR OFFSHORE PVT. LTD	2	0	1.50	0.00
DELTA MARITIME	4	3	22.25	0.00
Directorate Shipping Services	2	0	5.00	0.50
Equip Trans Logistics Pvt. Ltd	22	0	5.05	0.00
Essar Shipping Limited	6	0	7.50	0.00
Executuve Ship management Pvt Ltd	4	0	13.50	0.00
FIVE STARS SHIPPING CO. PVT LTD	1	0	5.00	0.00
Fleet management india pvt ltd	2	0	6.00	0.00
Galleon Shipping	1	0	7.00	0.00
Global Offshore Services Ltd	5	3	12.20	0.00
Glory Ship Management Pvt. Ltd	3	2	43.33	0.00
Great Eastern Shipping Co. Ltd.	11	0	4.00	0.09
Greatship India Limited	10	0	7.90	0.00
HAL OFFSHORE LIMITED	1	0	11.00	0.00
Hind Offshore Pvt Ltd	9	0	9.67	0.00
HOGER OFFSHORE PVT LTD	2	0	11.50	0.00
I-Marine Infratech India Pvt. Ltd.	3	0	11.00	0.00
Ind-Aust Maritime Pvt Ltd.	6	0	10.67	0.00
India Cements Ltd	1	0	3.00	0.00
Integrity Ships Pvt Ltd	3	1	10.33	0.00
ITT Shipping Pvt.Ltd	3	0	8.00	0.00
JUMBO OFFSHORE ENTERPRISE	1	0	45.00	0.00



K STEAM SHIP AGENCIES PVT LTD	1	0	3.00	0.00
KAKINADA SEAPORTS LTD	2	0	3.00	0.00
Khattar Marine Services	1	0	3.00	0.00
KMEW OFFSHORE PVT LTD	1	0	4.00	0.00
KNK SHIP MANAGEMENT	2	0	4.00	0.00
KOLKATA PORT TRUST	1	0	5.00	0.00
KVR OFFSHORE PVT LTD.	1	0	2.00	0.00
LDCL KOCHI	8	0	9.75	0.00
LIBRAA Ship Management Pvt Ltd	2	0	2.00	0.00
LIFT AND SHIFT INDIA PVT LTD	2	0	3.50	0.00
M. Pallonji Logistics Pvt. Ltd.	3	2	27.67	0.00
M.J marine Services Pvt. Ltd.	2	1	19.50	0.00
MAK Logistics Pvt. Ltd.	2	0	6.00	0.00
MARINETECH SHIP MANAGERS	1	0	11.00	0.00
MAT MARINE SERVICES PVT LTD	6	0	1.83	0.17
MOHAN MUTHA TRANSLOGISTICS PVT LTD	1	0	14.00	0.00
NAUTEX MARITIME PVT LTD. CHENNAI	1	0	0.00	1.00
New Horizons Ship Mgmt Pvt Ltd	5	0	3.00	0.00
OCEAN PORT SERVICES LTD	1	0	10.00	0.00
Ocean Sparkle Ltd	52	0	3.98	0.10
ORION MARITIME PVT LTD	3	0	5.33	0.00
OSL	2	0	5.00	0.00
P SURYA RAO, KAKINADA	1	0	3.00	0.00
PENINSULAR MARITIME INDIA PVT LTD	4	0	19.75	0.00
Penna shipping Limited	1	0	3.00	0.00
Piranha DNV Marine Private Limited	1	1	26.00	0.00
POLESTAR MARITIME LIMITED	9	0	3.33	0.00
PRAGATI MARINE	3	2	4.33	0.00
Proactive Ship Managemnt Pvt Ltd	5	1	29.20	0.00
QK Marine services Pvt LTD	2	0	3.50	0.00
Raj Shipping Agencies Ltd.	3	0	15.00	0.00
RANGALA MADHU MOHAN RAJU AND RANGALA SHARMILA	1	0	7.00	0.00
Reliance Industries limited.	18	0	4.50	0.06
S S Offshore Pvt. Ltd	1	1	23.00	0.00
SADAV SHIPPING LTD	4	0	8.75	0.00
Samson Maritime Limited	14	2	12.29	0.00
SAN MARINE, KAKINADA	2	0	1.50	0.00



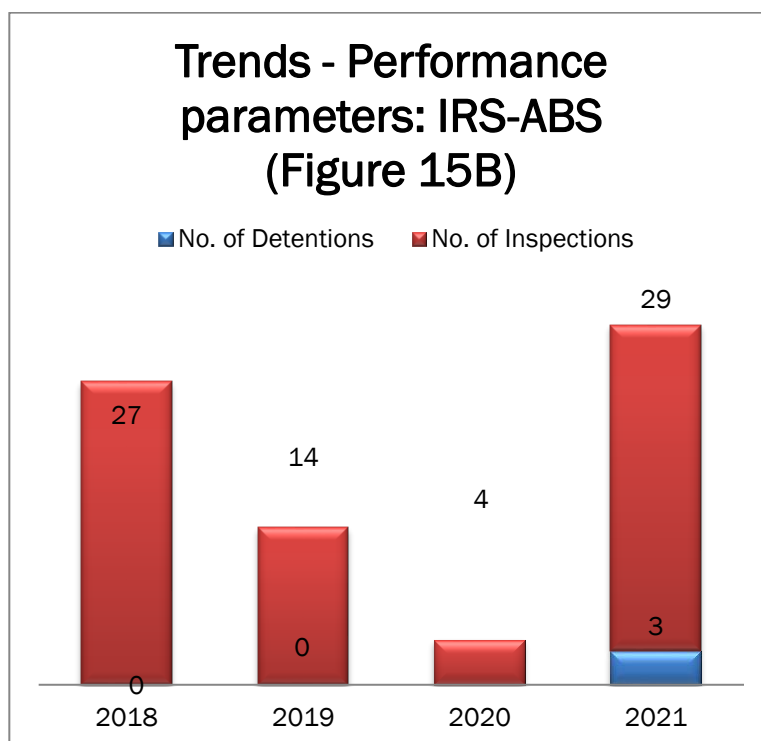
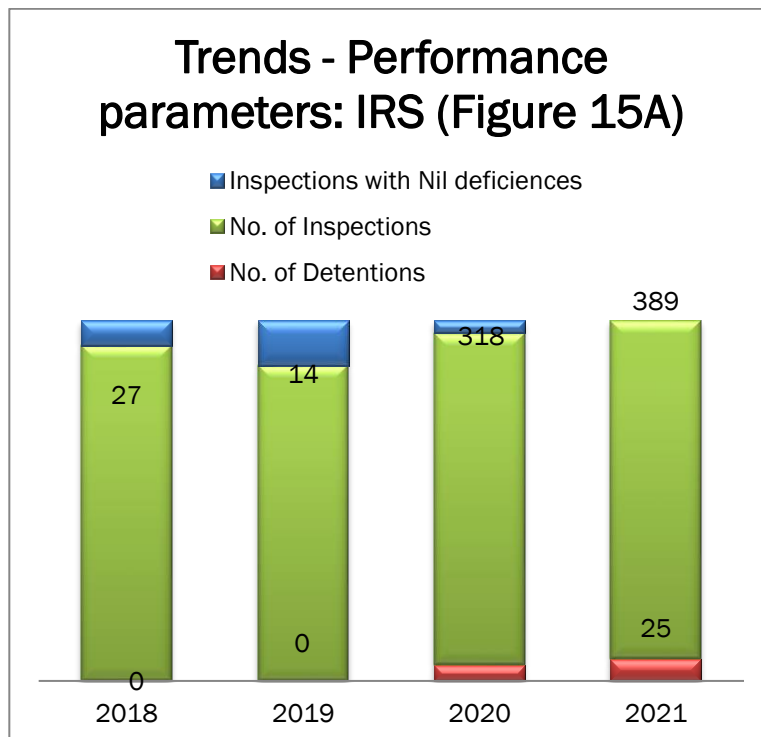
Sangani sattibabu and sangani Annantha Laxmi	1	0	7.00	0.00
SANMAR SHIPPING LTD	4	0	4.25	0.00
SCI Ltd	41	2	9.27	0.02
SDS OFFSHORE Pvt. Ltd	1	0	6.00	0.00
SEA SPARKLE HARBOUR SERVICES LTD	1	0	2.00	0.00
Sea waves marine services	1	0	5.00	0.00
SEAMEC LIMITED	2	0	9.00	0.00
SEAPORT SHIPPING PVT LTD	2	0	2.50	0.50
Seavantek Shipping Services Private Ltd.	1	0	8.00	0.00
Serva Shanti Properties Pvt Ltd Ahmedabad	1	0	7.00	0.00
SEVA SHIPPING	1	0	16.00	0.00
Seven Island Shipping Ltd.	17	0	7.47	0.00
SHANTI SAGAR INTERNATIONAL DREDGING LTD	1	0	3.00	0.00
SHRI LAXMI ENTERPRISES	1	0	6.00	0.00
SILVER PORT SERVICES PVT LTD	1	1	12.00	0.00
SIMA MARINE INDIA Pvt. Ltd.	4	0	10.50	0.00
SINDHU MARINE,KAKINADA	1	0	2.00	0.00
Sparkle Terminal and Towage Services Ltd.	4	0	5.50	0.00
SSR MARINE SERVICES PVT. LTD.	2	0	16.00	0.00
Star Shipping Company	1	0	8.00	0.00
Suchna Marine Services Pvt Ltd	1	0	13.00	0.00
Super tug offshore services Pvt LTD	2	1	8.50	0.00
SUPREME MARINE	1	0	2.00	0.00
Sushe Marine Services Pvt. Ltd.	4	0	8.50	0.00
SVS MARINE SERVICES PVT LTD	2	0	6.00	0.50
Synergy Oceanic Services India Pvt. Ltd.	10	0	3.60	0.00
TAHSPL	1	0	6.00	0.00
TCI Seaways	6	0	7.00	0.00
Teama shipyard LTD	1	0	4.00	0.00
T-ERUDITE SHIPMANAGEMENT PVT LTD	1	0	6.00	0.00
TIMBLO SHIPYARD PVT LIMITED, MUMBAI	1	0	4.00	0.00
Transtar Marine and Offshore Services	1	1	30.00	0.00
TRANSWORLD SHIP MANAGEMENT PVT LTD	1	0	5.00	0.00
TRITON MARITIME	2	1	5.50	0.50
TW Ship Management	7	0	9.43	0.00



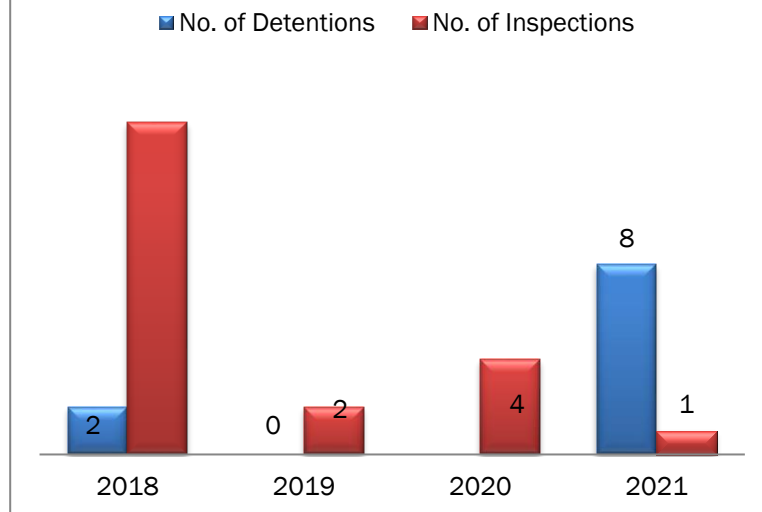
United Ocean Marine System	2	0	4.00	0.00
UNITED SHIPPERS LIMITED	1	0	4.00	0.00
Vamsee shipping carrier Pvt LTD	1	0	17.00	0.00
Van Oord India Pvt. Ltd	2	0	5.50	0.00
Vedant Ship Management	2	0	7.00	0.00
Vinayak Marine Services	2	0	11.00	0.00
TOTAL	486	29	7.93	0.03



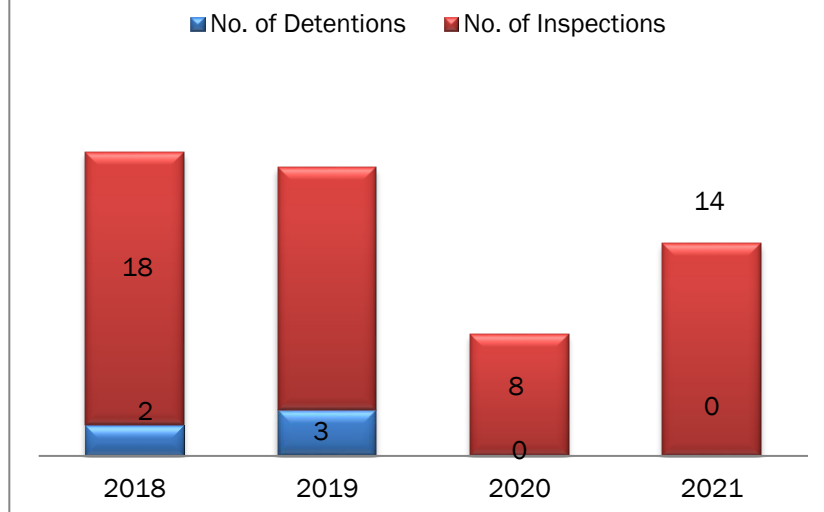
Trend Analysis of Performance parameters: Inspections



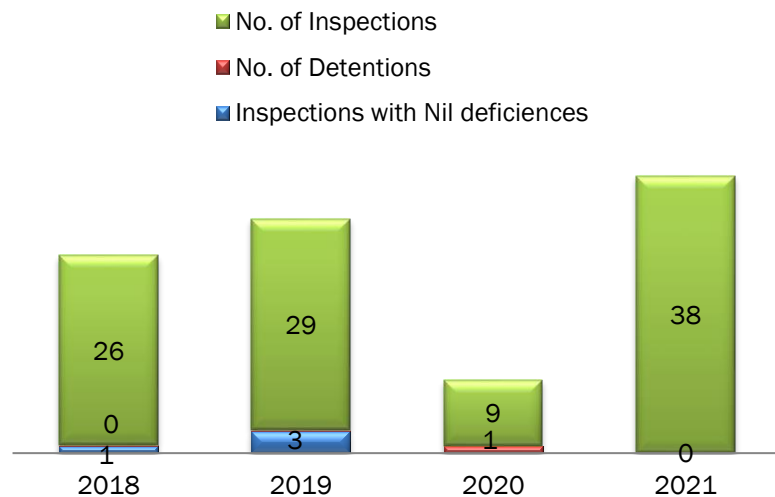
Trends - Performance parameters: IRS-BV (Figure 15C)



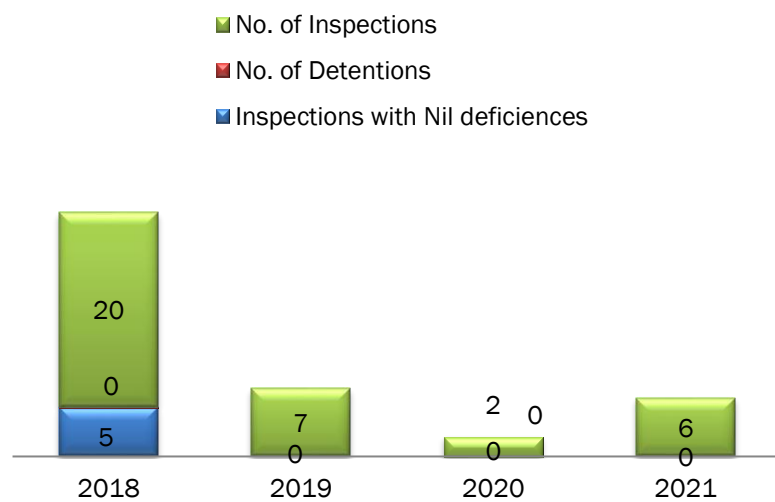
Trends - Performance parameters: IRS-DNV-GL(AS) (Figure 15D)



Trends - Performance parameters: IRS-LR (Figure 15E)



Trends - Performance parameters: IRS-NKK (Figure 15F)



Trend analysis of Flag State Inspection Statistics

Table 10: Distribution of Deficiencies across Deficiency Codes (FSI & GE)

Nature Of Deficiencies	No. of Deficiencies	Percentage
01101 : Cargo Ship Safety Equipment (including exemption)	12	0.31%
01102: Cargo Ship Safety Construction (including exempt.)	6	0.16%
01103 : Passenger Ship Safety (including exemption)	2	0.05%
01104 : Cargo Ship Safety Radio (including exemption)	4	0.10%
01105 : Cargo Ship Safety (including exemption)	1	0.03%
01106 : Document of Compliance (DoC/ ISM)	4	0.10%
01107 : Safety Management Certificate (SMC/ ISM)	9	0.23%
01108 : Load Lines (including Exemption)	2	0.05%
01112 : Liquefied Gases in Bulk (ICoF/IGC Code)	1	0.03%
01113 : Minimum Safe Manning Document	25	0.65%
01114 : Dangerous Chemicals in Bulk (CoF/BCH Code)	1	0.03%
01115 : Dangerous Chemicals in Bulk (ICoF/IBC Code)	1	0.03%
01117 : International Oil Pollution Prevention (IOPP)	2	0.05%
01119 : International Sewage Pollution Prevention Cert.	1	0.03%
01122 : International ship security certificate	3	0.08%
01123 : Continuous synopsis record	14	0.36%
01125 : Engine International Air Pollution Prev. Cert.	2	0.05%
01126 : Document of Compliance Dangerous Goods	1	0.03%
01131 : International Anti-fouling-System Certificate	2	0.05%
01132 : Tonnage certificate	2	0.05%
01134 : Other (certificates)	107	2.78%
01201 : Certificates for master and officers	40	1.04%
01202 : Certificate for rating for watch keeping	3	0.08%
01203 : Certificates for radio personnel	2	0.05%
01204 : Certificate for personnel on tankers	4	0.10%
01205 : Certificate for personnel on fast rescue boats	3	0.08%
01209 : Manning specified by the minimum safe manning doc	19	0.49%
01210 : Certificate for medical first aid	3	0.08%
01212 : Certificate for medical care	2	0.05%
01213 : Evidence of Basic Training	3	0.08%
01214 : Endorsement by Flag State	1	0.03%
01216 : Other (STCW)	43	1.12%
01217 : Ship Security Officer Certificate	1	0.03%
01301 : Cargo Gear Record Book	6	0.16%
01305 : Log-books/compulsory entries	27	0.70%
01306 : Schedules for watch keeping personnel	1	0.03%
01307 : Tables of working hours	5	0.13%
01308 : Records of rest	21	0.54%
01309 : Fire control plan - all	14	0.36%
01310 : Signs, indications	11	0.29%



01311 : Survey report file	2	0.05%
01312 : Thickness measurement report	3	0.08%
01313 : Booklet for bulk cargo loading/unloading/stowage	1	0.03%
01314 : SOPEP	14	0.36%
01315 : Oil record book	23	0.60%
01316 : Cargo information	1	0.03%
01317 : Cargo record book	1	0.03%
01318 : P&A manual	2	0.05%
01320 : Garbage record book	6	0.16%
01321 : Endorsement of cargo booklet	1	0.03%
01323 : Fire safety operational booklet	4	0.10%
01324 : Material Safety Data Sheets(MSDS)	5	0.13%
02101 : Closing devices/watertight doors	14	0.36%
02102 : Damage control plan	1	0.03%
02103 : Stability/strength/loading information and instruments	2	0.05%
02105 : Steering gear	3	0.08%
02106 : Hull damage impairing seaworthiness	2	0.05%
02107 : Ballast, fuel and other tanks	4	0.10%
02108 : Electrical installations in general	5	0.13%
02109 : Permanent means of access	3	0.08%
02110 : Beams, frames, floors-op.damage	5	0.13%
02111 : Beams, frames, floors-corrosion	11	0.29%
02112 : Hull - corrosion	23	0.60%
02113 : Hull - cracking	1	0.03%
02114 : Bulkhead -corrosion	3	0.08%
02115 : Bulkheads - operational damage	2	0.05%
02116 : Bulkheads - cracking	3	0.08%
02117 : Decks - corrosion	32	0.83%
02118 : Decks - cracking	7	0.18%
02120 : Marking of IMO number	6	0.16%
02122 : Openings to cargo area, doors, ... scuttles	3	0.08%
02123 : Wheelhouse -door -window	5	0.13%
02124 : Cargo pumproom	2	0.05%
02125 : Spaces in cargo areas	2	0.05%
02126 : Cargo tank vent system	1	0.03%
02131 : Other (Bulk carriers)	2	0.05%
03102 : Freeboard marks	13	0.34%
03103 : Railing, gangway, walkway and means for safe passage	7	0.18%
03104 : Cargo & other hatchways	16	0.42%
03105 : Covers (hatchway-, portable-, tarpaulins, etc.)	10	0.26%
03106 : Windows, sidescuttles and deadlights	6	0.16%
03107 : Doors	53	1.37%
03108 : Ventilators, air pipes, casings	75	1.95%
03109 : Machinery space openings	19	0.49%
03110 : Manholes/flush scuttles	10	0.26%
03111 : Cargo ports and other similar openings	2	0.05%
03112 : Scuppers, inlets and discharges	5	0.13%



03113 : Bulwarks and freeing ports	1	0.03%
03115 : Other (load lines)	28	0.73%
04101 : Public address system	13	0.34%
04102 : Emergency fire pump and its pipes	19	0.49%
04103 : Emergency, lighting,batteries and switches	49	1.27%
04105 : Location of emergency installations	3	0.08%
04106 : Emergency steering position com./ compass reading	16	0.42%
04107 : Emergency towing arrangements and procedures	3	0.08%
04108 : Muster list	11	0.29%
04109 : Fire drills	1	0.03%
04110 : Abandon ship drills	2	0.05%
04111 : Damage control plan	1	0.03%
04112 : Shipboard Marine Pollution emergency operations	1	0.03%
04113 : Water level indicator	1	0.03%
04114 : Emergency source of power - Emergency generator	14	0.36%
05102 : Functional requirements	3	0.08%
05105 : MF/HF Radio installation	15	0.39%
05106 : INMARSAT ship earth station	6	0.16%
05107 : Maintenance/duplication of equipment	2	0.05%
05109 : VHF radio installation	9	0.23%
05110 : Facilities for reception of marine safety inform.	11	0.29%
05111 : Satellite EPIRB 406MHz/1.6GHz	4	0.10%
05113 : SART/AIS-SART	13	0.34%
05114 : Reserve source of energy	11	0.29%
05115 : Radio log (diary)	6	0.16%
05116 : Operation/maintenance	6	0.16%
05117 : Other (radiocommunication)	20	0.52%
05118 : Operation of GMDSS equipment	10	0.26%
06101 : Cargo Securing Manual	1	0.03%
06103 : Other cargo/timber/deck/construction	2	0.05%
06104 : Lashing material	1	0.03%
06105 : Other (cargo)	15	0.39%
06106 : Cargo transfer - Tankers	3	0.08%
06107 : Cargo operation	8	0.21%
06109 : Loading instrument	2	0.05%
07101 : Fire prevention structural integrity	3	0.08%
07102 : Inert gas system	1	0.03%
07105 : Fire doors/openings in fire-resisting divisions	21	0.54%
07106 : Fire detection and alarm system	23	0.60%
07108 : Ready availability of fire fighting equipment	21	0.54%
07109 : Fixed fire extinguishing installation	26	0.67%
07110 : Fire fighting equipment and appliances	91	2.36%
07111 : Personal equipment for fire safety	10	0.26%
07112 : Emergency Escape Breathing Device and disposition	9	0.23%
07113 : Fire pumps and its pipes	59	1.53%
07114 : Remote Means of control (opening,pumps,ventilation,etc.) Machinery spaces	8	0.21%



07115 : Fire-dampers	17	0.44%
07116 : Ventilation	13	0.34%
07118 : International shore-connection	2	0.05%
07119 : Other (fire safety)	90	2.33%
07120 : Means of escape	6	0.16%
07121 : Crew alarm	2	0.05%
07122 : Fire control plan	17	0.44%
07123 : Operation of Fire protection systems	5	0.13%
07124 : Maintenance of Fire protection systems	6	0.16%
07125 : Evaluation of crew performance (fire drills)	2	0.05%
08101 : General alarm	3	0.08%
08103 : Fire alarm	8	0.21%
08106 : Inert gas alarm	1	0.03%
08107 : Machinery controls alarm	8	0.21%
08108 : UMS - alarms	1	0.03%
08111 : Other (alarms)	13	0.34%
09102 : Dirty, parasites	15	0.39%
09103 : Ventilation (Accommodation)	18	0.47%
09106 : Sanitary Facilities	20	0.52%
09107 : Drainage	1	0.03%
09108 : Lighting (Accommodation)	9	0.23%
09109 : Pipes, wires (insulation)	3	0.08%
09110 : Electrical devices	1	0.03%
09111 : Sickbay	4	0.10%
09112 : Medical Equipment	22	0.57%
09113 : Access/structure	3	0.08%
09114 : Sleeping room	4	0.10%
09116 : Furnishings	4	0.10%
09117 : Berth dimensions, etc.	1	0.03%
09119 : Messroom (location)	2	0.05%
09121 : Laundry	6	0.16%
09122 : Record of inspection (Accommodation)	2	0.05%
09123 : Other (crew and accommodation)	36	0.93%
09124 : Galley, handlingroom (maintenance)	10	0.26%
09125 : Ventilation	5	0.13%
09126 : Lighting	2	0.05%
09127 : Cleanliness	8	0.21%
09128 : Provisions quantity	1	0.03%
09129 : Provisions quality	1	0.03%
09130 : Water, pipes, tanks	9	0.23%
09131 : Cold room	2	0.05%
09132 : Cold room temperature	4	0.10%
09134 : Food personal hygiene	1	0.03%
09136 : Food segregation	2	0.05%
09138 : Other (food)	3	0.08%
09201 : Ventilation (Working spaces)	12	0.31%
09203 : Lighting (Working spaces)	14	0.36%



09204 : Safe means of access	35	0.91%
09205 : Safe means of access Shore - Ship	6	0.16%
09206 : Safe means of access Deck - hold/tank, etc.	10	0.26%
09207 : Obstruction/slipping, etc.	20	0.52%
09208 : Protection machinery	6	0.16%
09209 : Electrical	63	1.63%
09210 : Machinery	43	1.12%
09211 : Steam pipes and pressure pipes	21	0.54%
09212 : Danger areas	4	0.10%
09213 : Gas instruments	17	0.44%
09215 : Other (working space ILO)	14	0.36%
09216 : Personal equipment	9	0.23%
09217 : Warning notices	5	0.13%
09218 : Protection machines/parts	8	0.21%
09219 : Pipes, wires (insulation)	18	0.47%
09220 : Structural features (ship)	5	0.13%
09221 : Entry dangerous spaces	1	0.03%
09222 : Other (accident prevention)	97	2.52%
09223 : Gangway, accommodation-ladder	21	0.54%
09224 : Stowage of cargo	1	0.03%
09225 : Loading and unloading equipment	3	0.08%
09226 : Holds and tanks safety	5	0.13%
09227 : Ropes and wires	11	0.29%
09228 : Anchoring devices	18	0.47%
09229 : Winches & capstans	20	0.52%
09231 : Other (mooring)	33	0.86%
09232 : Cleanliness of engine room	45	1.17%
09233 : Guards - fencing around dangerous machinery parts	7	0.18%
10101 : Pilot ladders and hoist/pilot transfer arrangements	1	0.03%
10103 : Radar	32	0.83%
10104 : Gyro compass	17	0.44%
10105 : Magnetic compass	63	1.63%
10106 : Compass correction log	1	0.03%
10108 : Direction finder	1	0.03%
10109 : Lights, shapes, sound-signals	56	1.45%
10110 : Signalling lamp	15	0.39%
10111 : Charts	29	0.75%
10113 : Automatic Identification System (AIS)	7	0.18%
10114 : Voyage data recorder (VDR)/Simplified Voyage data recorder(S-VDR)	8	0.21%
10115 : GNSS receiver/terrestrial radio navigation system	2	0.05%
10116 : Nautical publications	49	1.27%
10117 : Echo sounder	19	0.49%
10118 : Speed and distance indicator	7	0.18%
10119 : Rudder angle indicator	6	0.16%
10122 : Rate-of-turn indicator	1	0.03%
10123 : International code of signals-SOLAS	1	0.03%
10124 : Life-saving signals	1	0.03%



10125 : Use of the automatic pilot	1	0.03%
10127 : Voyage or passage plan	8	0.21%
10128 : Navigation bridge visibility	3	0.08%
10130 : Other (navigation)	57	1.48%
10133 : Bridge operation	2	0.05%
10135 : Monitoring of voyage or passage plan	3	0.08%
10137 : Long-range identification and tracking system (LRIT)	4	0.10%
11101 : Lifeboats	46	1.19%
11102 : Lifeboat inventory	2	0.05%
11103 : Stowage and provision of Lifeboats	2	0.05%
11104 : Rescue boats	42	1.09%
11105 : Rescue boat inventory	4	0.10%
11106 : Fast Rescue Boats	6	0.16%
11107 : Stowage of rescue boats	3	0.08%
11108 : Inflatable liferafts	29	0.75%
11109 : Rigid liferafts	1	0.03%
11110 : Stowage and provision of liferafts	9	0.23%
11112 : Launching arrangements for survival craft	7	0.18%
11113 : Launching arrangements for rescue boats	15	0.39%
11115 : Means of rescue	3	0.08%
11116 : Distress flares	1	0.03%
11117 : Lifebuoys incl. provision and disposition	58	1.50%
11118 : Lifejackets incl.provision and disposition	15	0.39%
11119 : Immersion suits	4	0.10%
11122 : Radio life-saving appliances	2	0.05%
11124 : Embarkation arrangement survival craft	16	0.42%
11125 : Embarkation arrangements rescue boats	4	0.10%
11127 : Buoyant apparatus	2	0.05%
11128 : Line-throwing appliance	2	0.05%
11129 : Operational readiness of lifesaving appliances	7	0.18%
11131 : On board training and instructions	29	0.75%
11132 : Maintenance and inspections	10	0.26%
11133 : Other (life saving)	49	1.27%
11134 : Operation of Life Saving Appliances	5	0.13%
11135 : Maintenance of Life Saving Appliances	3	0.08%
12101 : Stowage/segregation/packaging dangerous goods	1	0.03%
12108 : Personal protection	1	0.03%
12110 : Tank entry	1	0.03%
12112 : Dangerous goods / harmful substances in pack. form	1	0.03%
13101 : Propulsion main engine	33	0.86%
13102 : Auxiliary engine	52	1.35%
13103 : Gauges,thermometers, etc	28	0.73%
13104 : Bilge pumping arrangements	7	0.18%
13105 : UMS - Ship	1	0.03%
13106 : Insulation wetted through (oil)	4	0.10%
13107 : Other (machinery)	67	1.74%
13108 : Operation of machinery	18	0.47%



13109 : Manuals, instructions, etc.	3	0.08%
14101 : Control of discharge	5	0.13%
14102 : Retention of oil on board	3	0.08%
14104 : Oil filtering equipment	6	0.16%
14105 : Pumping, piping and discharge arrangements	8	0.21%
14107 : Oil disch. Monitoring and control system	4	0.10%
14108 : 15 PPM Alarm arrangmts.	14	0.36%
14110 : Standard disch. conn.	5	0.13%
14116 : Pollution report-MARPOL Annex I	2	0.05%
14118 : Other (MARPOL Annex I)	36	0.93%
14119 : Oil and oily mixtures from machinery spaces	21	0.54%
14122 : Oil fuel tank protection	2	0.05%
14123 : Accidental oil outflow performance	3	0.08%
14202 : Residue disch.systems	1	0.03%
14206 : Vent. Procedures/equipment	1	0.03%
14207 : Pollution report-MARPOL Annex II	2	0.05%
14402 : Sewage treatment plant	16	0.42%
14404 : Sewage discharge connection	6	0.16%
14405 : Other (MARPOL Annex IV)	16	0.42%
14501 : Garbage	27	0.70%
14502 : Placards	13	0.34%
14503 : Garbage management plan	10	0.26%
14504 : Other MARPOL Annex V	4	0.10%
14601 : Technical files and if applicable, monitoring manual	7	0.18%
14608 : Incinerator incl.operations and operating manual	2	0.05%
14612 : Other MARPOL Annex VI	2	0.05%
Total	3855	100%

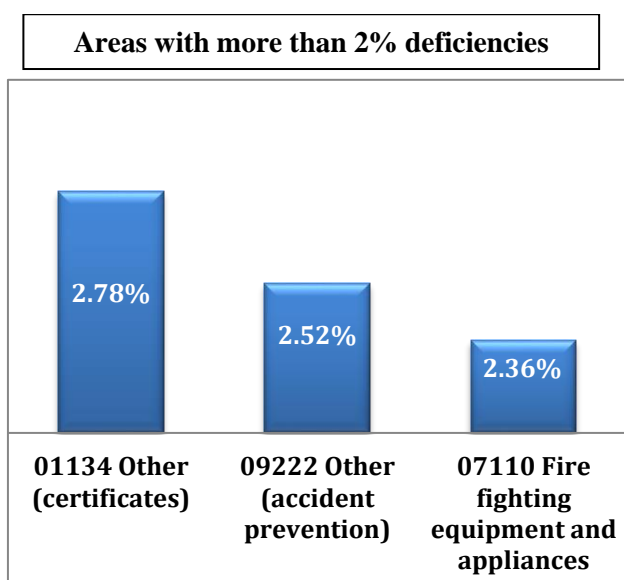


Table11 : List of Ships detained under FSI for 2021

Sr. No.	IMO Number	Gross Tonnage	Particulars of Company	Ship Name	Year Built	Ship Type	Classification Society	Date of Inspection
1	9369605	1943	TRITON MARITIME	TRITON GRACE	2009	TUGBOAT	IRS	07.01.2021
2	8504985	1609	PROACTIVE SHIP MANAGEMENT	KAMAL XXI	1987	OIL TANKER	IRS	14.01.2021
3	9697739	2281	GLOBAL OFFSHORE SERVICES	LACHUNG	2015	TUGBOAT	IRS	22.01.2021
4	8223256	424	AMBA SHIPPING & LOGISTIC PVT LTD	FLAMBOYAN	1983	OTHER TYPES OF SHIP	IRS	25.01.2021
5	9300233	1592	AMBA SHIPPING & LOGISTIC PVT LTD	CREATIVE 1	2004	OFFSHORE SERVICE VESSEL	IRS	09.02.2021
6	9647825	1923	M. PALLONJI LOGISTICS PVT LTD	MPB - 8	2012	GENERAL CARGO/ MULTIPURPOSE SHIP	IRS	30.04.2021
7	9833448	107	SAMSON MARITIME LIMITED	KB 11	2017	TUGBOAT	IRS	10.06.2021
8	9361897	1601	M. PALLONJI LOGISTICS PVT LTD	MPB - II	2006	GENERAL CARGO/ MULTIPURPOSE SHIP	IRS	10.06.2021
9	9377626	1966	GLORY SHIP MANAGEMENT PVT LTD	SHUBHAPRADA	2007	OFFSHORE SERVICE VESSEL	IRS	14.06.2021
10	9660762	1081	SAMSON MARITIME LIMITED	OCEAN JADE ONE	2013	OFFSHORE SERVICE VESSEL	IRS-ABS	16.07.2021
11	9119000	4236	INTEGRITY SHIPS PVT LTD	ARK PROGRESS	1995	OIL TANKER	IRS	22.07.2021
12	9547269	2067	THE SHIPPING CORPORATION OF INDIA	SCI URJA	2013	OTHER TYPES OF SHIP	IRS	23.07.2021
13	9176656	21827	THE SHIPPING CORPORATION OF INDIA	SAMPURNA SWARAJYA	1999	OIL TANKER	IRS-BV	31.07.2021

14	9221176	1972	GLORY SHIP MANAGEMENT PVT LTD	PFS SUPPLIER	2000	OFFSHORE SERVICE VESSEL	IRS	10.08.2021
15	9339870	1585	DELTA MARITIME INDUSTRIAL SKILL	GARNET	2005	TUGBOAT	IRS	28.08.2021
16	9282716	202	GLOBAL CAMBAY MARINE SERVICES PVT LTD	AQUA BOAT	2002	TUGBOAT	IRS	07.09.2021
17	9509205	1706	GLOBAL OFFSHORE SERVICES LTD	MEGHNA	2008	OFFSHORE SERVICE VESSEL	IRS-ABS	27.09.2021
18	8888563	177	TRANSTAR MARINE AND OFFSHORE SERVICES	TRANSTAR	1995	TUGBOAT	IRS	02.10.2021
19	9494125	333	PRAGATI MARINE	AORAKI	2007	TUGBOAT	IRS	29.10.2021
20	9549827	457	PRAGATI MARINE	SEA HUNTER	2009	TUGBOAT	IRS	29.10.2021
21	9128817	36559	APEEJAY SHIPPING LIMITED	APJ MAHAKALI	1996	BULK CARRIER	IRS	05.11.2021
22	8873439	119	DELTA INDUSTRIAL SKILL TRAINING INSTITUTE PVT LTD	RAAVI	1981	OTHER TYPES OF SHIP	IRS	12.11.2021
23	9073945	396	S S OFFSHORE PVT LTD	SAGAR 5	1994	TUGBOAT	IRS	25.11.2021
24	9823376	107	AVM MARINE LLP	KB 4 (RSV TYPE IV)_	2017	TUGBOAT	IRS	29.11.2021
25	9413482	1615	DELTA INDUSTRIAL SKILL TRAINING INSTITUTE PVT LTD	SHIVANSH ARYAN	2009	OFFSHORE SERVICE VESSEL	IRS	06.12.2021
26	9532264	299	SUPER TUG OFFSHORE SERVICES PVT LTD	MERMAID - 2	2008	TUGBOAT	IRS	06.12.2021
27	8216552	1078	MJ MARINE SERVICES PVT LTD	SUMAYLA ONE	1984	OTHER TYPES OF SHIP	IRS-ABS	08.12.2021
28	0	72	PIRANHA DNV MARINE PVT LTD	OCEAN CREWZER III	2014	OTHER TYPES OF SHIP	IRS	14.12.2021
29	9216872	204	SILVER PORT SERVICES PVT LTD	FINORATNA	1999	TUGBOAT	IRS	26.12.2021



Port State Control (PSC) of Indian Flag vessels in Foreign Ports



Member States of the prominent MoUs on Port State Control



1. Paris MoU
2. Tokyo MoU
3. Indian Ocean MoU
4. Mediterranean MoU
5. Acuerdo de Vina del Mar (Latin American MoU)
6. Caribbean MoU
7. Abuja MoU
8. Black Sea MoU
9. Riyadh MoU
10. United States Coast Guard MoU



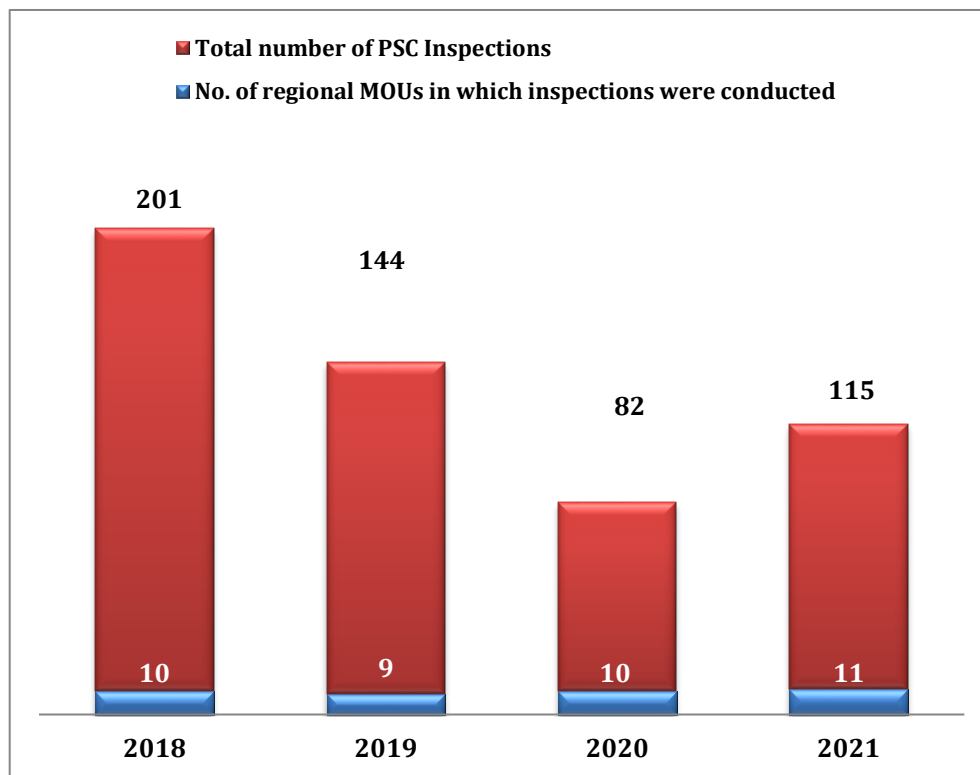
There were a total of 115 inspections in 11 PSC regimes worldwide. These vessels are managed by about 18 Indian companies holding Indian DOC. Nearly 24 out of 115 inspections (constituting about 21.2% of all the inspections) were conducted in RIYADH PSC regime.

Compared to 1 detention in 2020, there were 4 detentions in 2021; & in terms of detention rate, it constituted 3.48 % detention rate compared to 1.22% in 2020. The 115 inspections resulted in about 211 deficiencies that is about 1.83 deficiencies per vessel. 60.87% of all inspected vessels resulted in nil deficiencies.

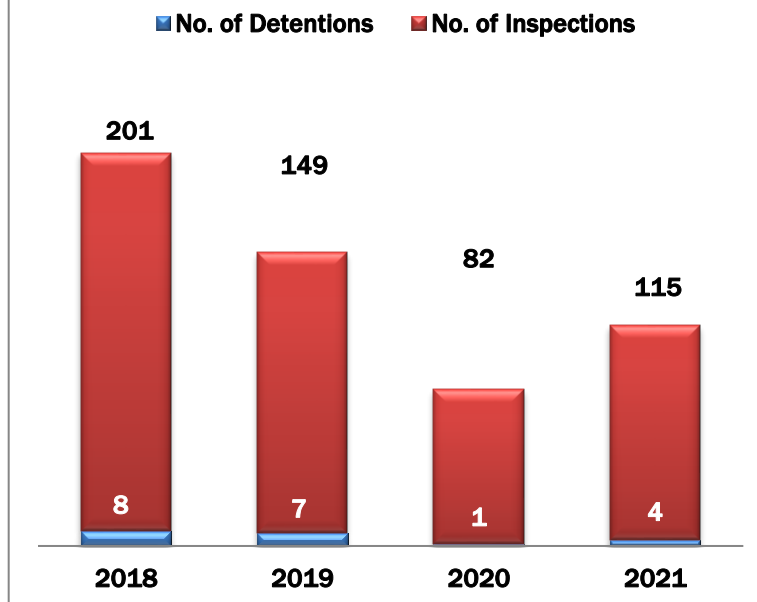


Detention and Detention Trends of Indian Ships

Distribution of inspections of Indian vessels under PSC (Figure 17)

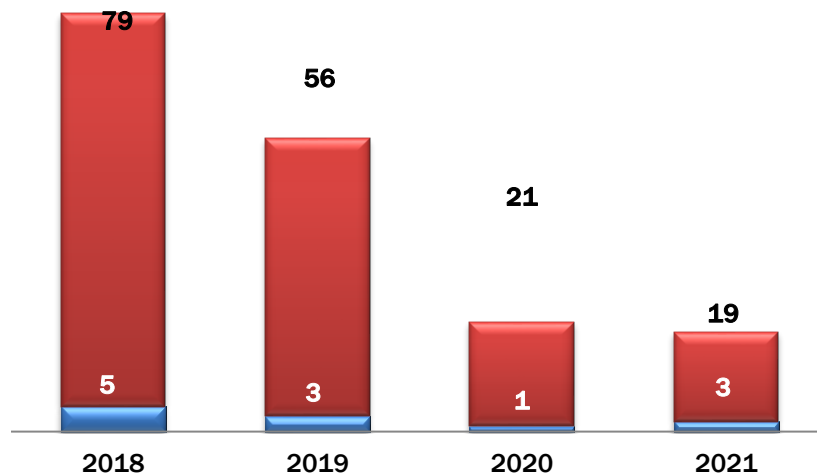


Trends - Detention of Indian Ships under PSC (Figure 18A)



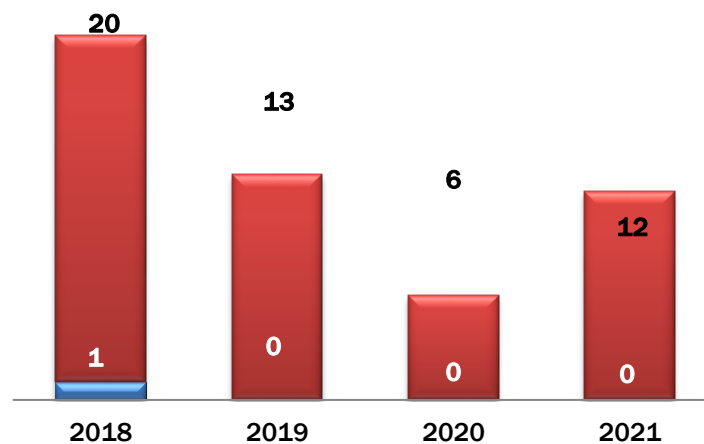
**Trends - Detention of Indian Flag Vessels
inspected in
Tokyo MoU (Figure 18B)**

■ No. of Detentions ■ No. of Inspections



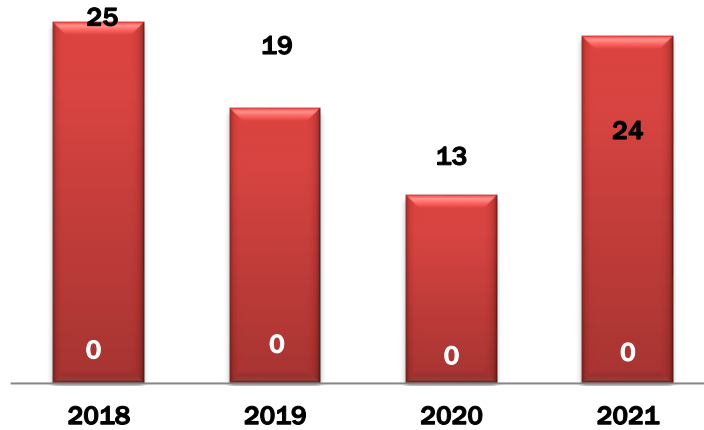
**Trends - Detention of Indian Flag Vessels
inspected in
Paris MoU (Figure 18C)**

■ No. of Detentions ■ No. of Inspections



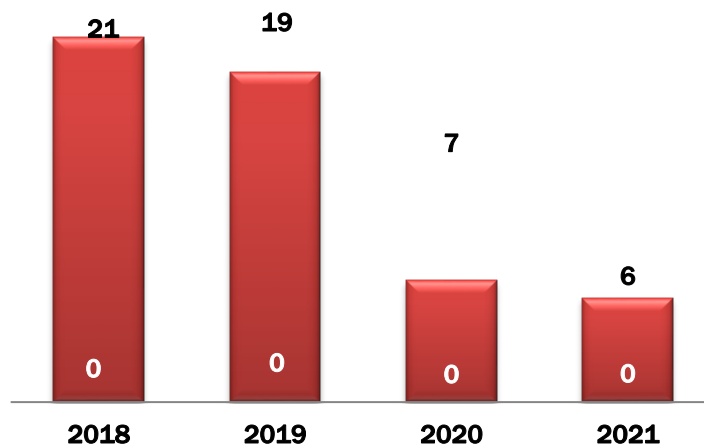
**Trends - Detention of Indian Flag Vessels
inspected in
Riyadh MoU (Figure 18D)**

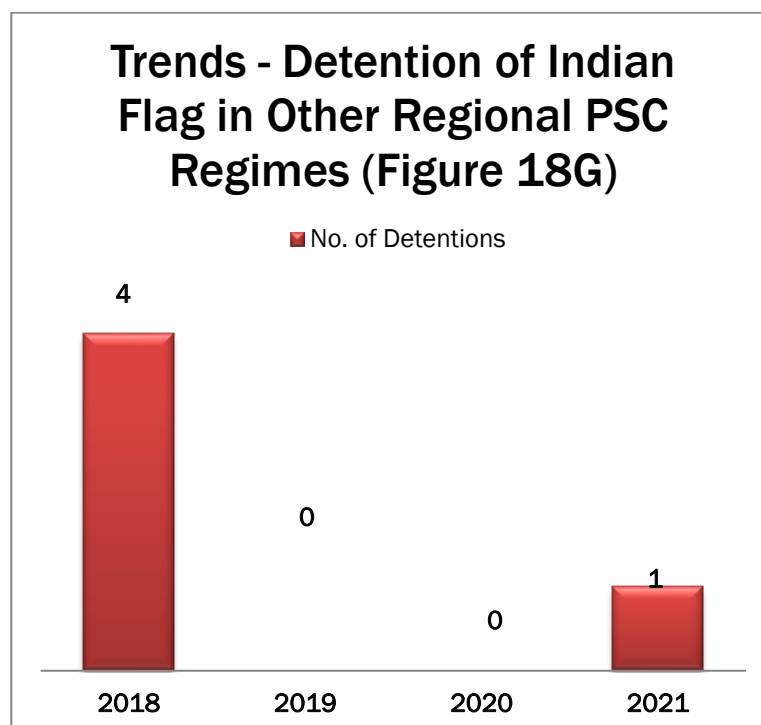
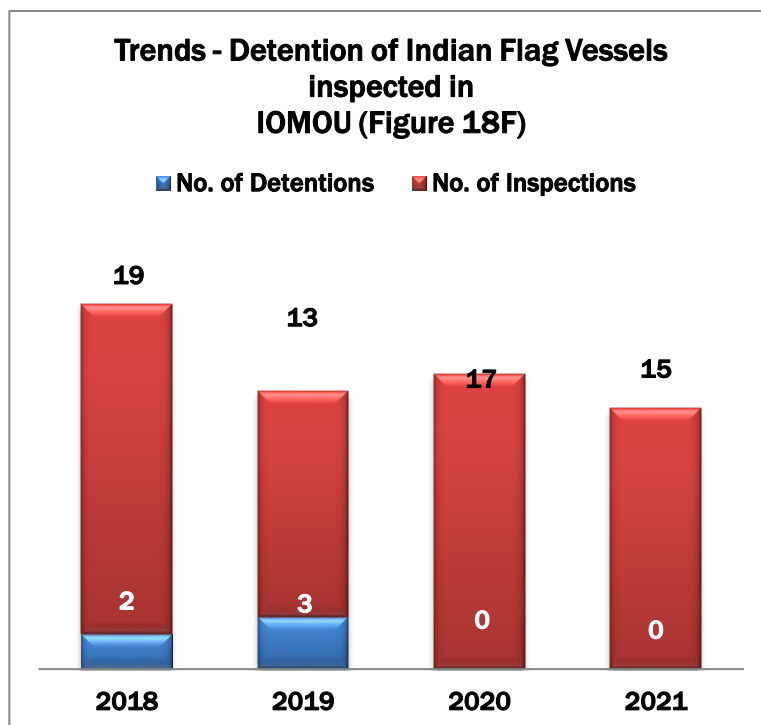
■ No. of Detentions ■ No. of Inspections



**Trends - Detention of Indian Flag Vessels
inspected in
USCG (Figure 18E)**

■ No. of Detentions ■ No. of Inspections





Performance of Indian Flag Vessels inspected under various PSC

Performance of Indian Flag Vessels inspected under various PSC Regimes

Table12 : Performance in various Regional PSC Groups				
Total Inspections/ Inspections under PSC Regimes	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
Abuja MOU	3	0	0.00	1.00
AMSA MOU	8	0	2.38	0.12
Black Sea MOU	10	1	4.40	0.60
Caribbean	1	0	6.00	0.00
IOMOU	15	0	2.40	0.47
MED-MOU	7	0	1.29	0.71
Paris MOU	12	0	3.00	0.50
Riyadh MOU	24	0	1.21	0.79
Tokyo MOU	19	3	1.42	0.52
USCG	6	0	0.00	1.00
VINA-DEL-MAR	10	0	0.50	0.70
Total	115	4	1.83	0.61

PERFORMANCE OF INDIAN SHIPS: AGE BASED

Table 13A : Age based Performance of Indian Vessels				
Type of Vessel and Age Bracket	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
0-5 Years	15	1	0.73	0.80
6-15 Years	64	1	1.65	0.61
16-25 Years	32	2	2.34	0.59
More than 25 years	4	0	3.50	0.00
All	115	4	1.81	0.61

Table 13B : Age based Performance of Bulk Carriers				
Type of Vessel and Age Bracket	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
0-5 Years	14	0	1.15	0.79
6-15 Years	39	1	2.51	0.46
16-25 Years	14	1	4.07	0.54
More than 25 years	0	-	-	-
All	67	2	2.52	0.53



Table 13C : Age based Performance of Chemical Tankers

Type of Vessel and Age Bracket	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
0-5 Years	0	-	-	-
6-15 Years	3	0	1.33	0.66
16-25 Years	2	1	2.00	0.50
More than 25 years	0	-	-	-
All	5	1	1.60	0.60

Table 13D : Age based Performance of Gas Carriers

Type of Vessel and Age Bracket	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
0-5 Years	0	-	-	-
6-15 Years	1	0	0.00	1.00
16-25 Years	0	-	-	-
More than 25 years	0	-	-	-
All	1	0	0.00	1.00

Table 13E : Age based Performance of Other Type Vessels

Type of Vessel and Age Bracket	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
0-5 Years	1	0	0.00	1.00
6-15 Years	5	0	0.00	1.00
16-25 Years	0	-	-	-
More than 25 years	2	0	4.00	0.00
All	8	0	1.00	0.75

Table 13F : Age based Performance of Oil Tankers

Type of Vessel and Age Bracket	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
0-5 Years	0	-	-	-
6-15 Years	15	0	0.27	0.80
16-25 Years	12	-	0.25	0.83
More than 25 years	2	0	3.00	0.00
All	29	0	0.45	0.76



Table 13G : Age based Performance of General Cargo Vessels

Type of Vessel and Age Bracket	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
0-5 Years	0	-	-	-
6-15 Years	0	-	-	-
16-25 Years	3	0	2.33	0.66
More than 25 years	0	-	-	-
All	3	0	2.33	0.66

Table 13H : Age based Performance of Container Vessels

Type of Vessel and Age Bracket	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
0-5 Years	0	-	-	-
6-15 Years	0	-	-	-
16-25 Years	1	0	4.00	0.00
More than 25 years	0	-	-	-
All	1	0	4.00	0.00

Table 13I : Age based Performance of Offshore Service Vessel

Type of Vessel and Age Bracket	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
0-5 Years	0	-	-	-
6-15 Years	1	-	0.00	1.00
16-25 Years	0	-	-	-
More than 25 years	0	-	-	-
All	1	0	0.00	1.00



Table 14: Performance of Recognized Organizations

Recognized Organization	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
IRS	42	2	1.21	0.63
IRS-ABS	19	1	2.58	0.68
IRS-BV	3	0	5.00	0.33
IRS- DNV/ GL	18	0	2.56	0.67
IRS/ LR	26	0	1.73	0.50
IRS/ NKK	7	0	0.71	0.71
All	115	3	1.81	0.61

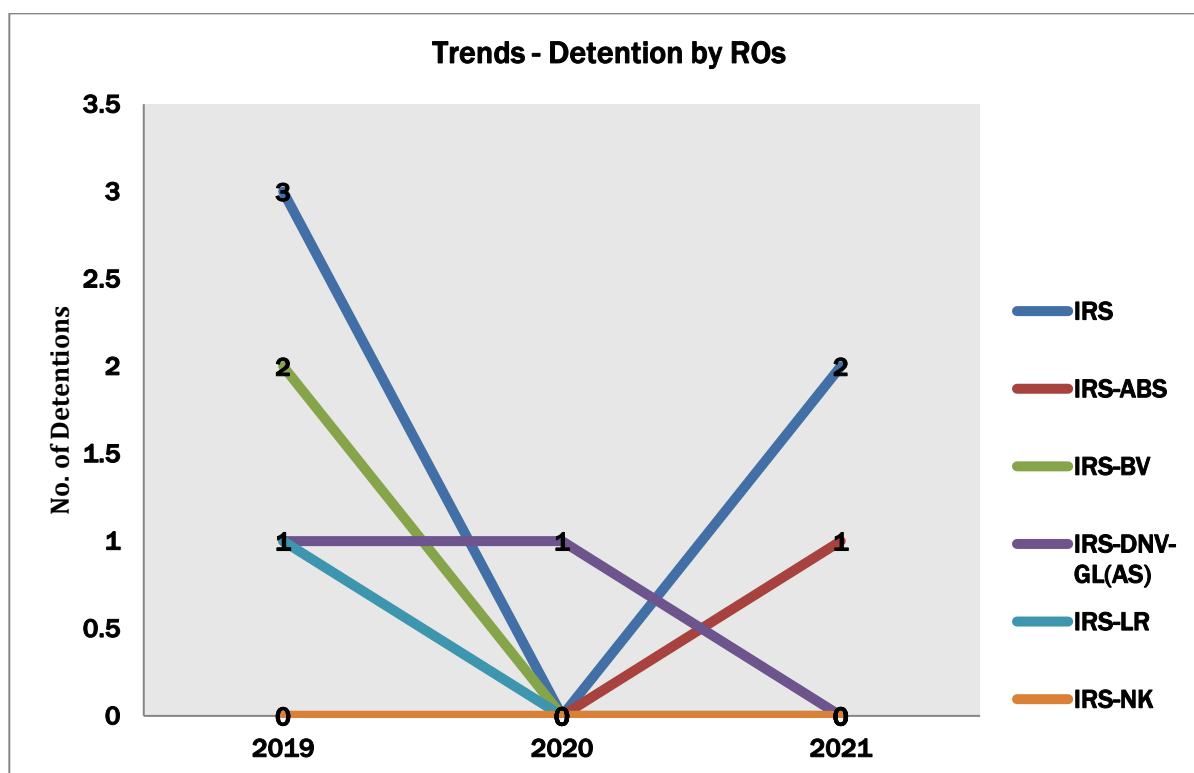


Table 15: Performance of Indian Shipping Companies

Company	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
Arka Global marine Services LLC	1	0	1.00	0.00
ASMI SHIPS PVT LTD	2	0	3.00	0.00
ASP Ship Management (India) Pvt. Ltd	2	0	3.00	0.00
AZA SHIPPING PVT LTD	2	0	1.50	0.00
FIVE STARS SHIPPING CO.PVT.LTD	12	1	4.00	0.58
Fleet Management India Pvt. Ltd.	5	0	1.00	0.60
INTEGRITY SHIPS PVT LTD	2	0	4.00	0.00
Sai Maritime	3	0	2.33	0.66
SANMAR SHIPPING LTD	2	0	0.00	1.00
SCI	15	0	5.20	0.27
SEAVANTEK SHIPPING SERVICES PVT. LTD. INDIA	3	0	2.67	0.00
Seven Islands Shipping Ltd	1	0	0.00	1.00
SYNERGY OCEANIC PRIVATE LIMITED	3	0	0.00	1.00
Phelix Shipping	1	1	4.00	0.00
T-Erudite Ship Managers Pvt. Ltd.	1	0	0.00	1.00
THE GREAT EASTERN SHIPPING CO LTD	55	1	0.48	0.81
TOLANI SHIPPING COMPANY LIMITED	4	0	0.50	0.75
TW Ship Management Private Limited	1	0	4.00	0.00
JSW Shipping	1	1	5.00	0.00
Total	115	4	1.81	0.61



List of Detainable deficiencies observed during the PSC Inspection of Indian Flag Ships

Description of Detainable Deficiencies by Category

S.No.	Code	Description	Deficiencies Main Head
01	01201	Certificates for master and officers	STCW
02	09223	Gangway, accommodation-ladder	ILO
03	10109	Lights, shapes, sound-signals	SOLAS
04	07113	Fire pumps and its pipes	SOLAS
05	07106	Fire detection and alarm system	SOLAS
06	07116	Ventilation	SOLAS
07	07115	Fire-dampers	SOLAS
08	11113	Launching arrangements for rescue boats	SOLAS

List of Indian Flag Ships detained under Port State Control for 2021

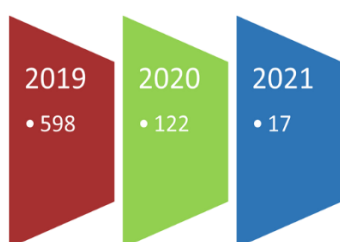
List of Indian Flag Ships detained under Port State Control (Table 16)

Sr. No.	Date of Inspection	IMO No.	Ship Name	Name of Owner	GT	Year Built	Ship Type	RO	Place of Inspection	MOU
1	26.02.2021	9705354	JAG ARNAV	THE GREAT EASTERN SHIPPING CO LTD	43007	2014	Bulk Carrier	IRS	Vancouver BC	TOKYO
2	29.05.2021	9899143	JSW FATHEGAD	JSW Shipping & Logistics Private Ltd	5834	2021	General Cargo	IRS	TAIZHOU	TOKYO
3	29.07.2021	9231004	MAHA ROOS	FIVE STARS SHIPPING CO.PVT.LTD	38731	2002	Bulk Carrier	IRS-ABS	NOVOROSS IYSK	BLACK SEA
4	08.11.2021	9179127	DISTYA PUSHTI	PHELIX SHIPPING	21165	1998	Chemical Tanker	IRS	Teluk Bayur	TOKYO

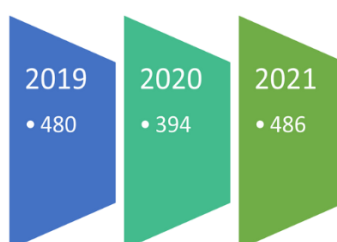


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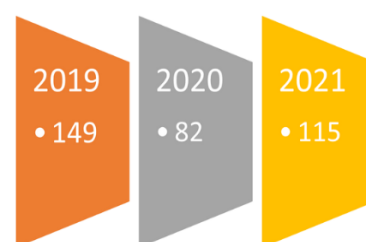
PSC Inspection Trends India



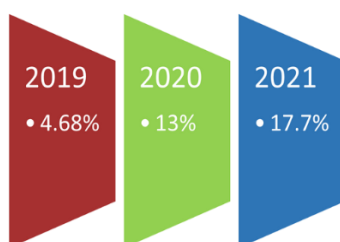
FSI Inspection Trends India



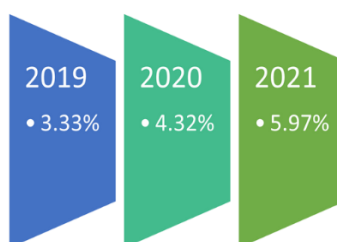
PSC Inspection Trends India flag vessel/Foregin port



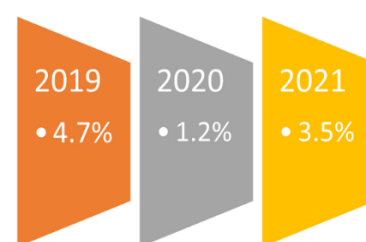
PSC Detention Trends India



FSI Detention Trends India



PSC Detention Trends India flag vessel/Foregin port



Top 4 FSI Deficiency categories

Other (fire safety) 2.33%

Fire fighting equipment and appliances 2.36%

Other (accident prevention) 2.52%

Other (certificates) 2.78%



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Further information may be obtained from:

**Port State Control Cell,
Directorate General of Shipping**

9th Floor, Beta Building,
I-Think Techno Campus,
Kanjurmarg (East),
Mumbai - 400 042 (India)

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