



ANNUAL REPORT 2019

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

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Government of India*



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

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Message from Director General of Shipping

In the year 2019, this Directorate has given special focus on automation and digitalization to improve monitoring mechanism and reduce delay in processing of various tasks.

This year we have implemented automatic issuance of digitally signed DC endorsements / watch keeping certificates, online module for all RPSL and LSA related matters, taken lead role in IMO-Norway Green Voyage 2050 project and celebrated 70th foundation day of this Directorate. Further the Directorate has taken pro-active steps for implementation of the recently enforced Sulphur cap and carriage ban of non-compliant fuel by constantly interacting with Indian ship owners and suppliers so as to seamlessly comply with the Marpol Annex VI requirements.



IMO has marked the year 2019 as the year of the empowerment of women in Maritime sector. We have implemented various reforms like providing sponsorships to women, creating barrier free environment in all activities, rewarding those companies which employ women seafarer and conducted awareness programs with the help of Indian women seafarer fraternity.

Current COVID 19 situation

The COVID-19 pandemic has significant impacts on the shipping industry and on seafarers. Travel restrictions, and lock down imposed by the governments around the world have created significant hurdles for repatriation of seafarers, crew changeovers, timely re-validation of seafarer certificates and timely completion of periodical surveys & audits by Indian ship owners. This Directorate has taken pragmatic and practical steps addressing the changing needs of the seafarers and ship owners during the ongoing crisis by easing up the travel restrictions, implementing online courses and exams for assessing continual proficiency of seafarers, networking with various Ministries so as to promptly obtain chartered flight and port clearances, and further devising frame work for remote survey of ships and extension of statutory certificates. The circumstance created by COVID-19 has taught us how to work together and support each other and self-regulate. I am sure the lessons learnt will definitely contribute in improving the performance of our ships in every aspect.



Way ahead

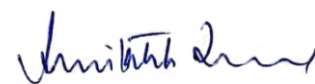
The Directorate's initiatives in automation and digitizing the platforms serving various facets of shipping fraternity is a paradigm shift in the governance and also helps in maintaining transparency and speed up the process.

The directorate's policy making has always been the driving factor in increasing the Indian tonnage and Indian Seafarers on board. The safety of Indian seafarers, the prevention of marine pollution, safety of ship and the promotion of maritime education, and compliance to various International maritime conventions continue to remain the focal point of directorate's policy making and in the ongoing revamping of Merchant Shipping Bill.

Port State performance

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 assiduous 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.



Amitabh Kumar
Director General of Shipping
cum
Additional Secretary to Gol.



Foreword by Chief Surveyor

It is with great pleasure, on behalf of the Directorate to present the 2019 Annual Report on Port State and Flag State control activities of the Indian Maritime Administration.

In 2019, Indian Maritime Administration has implemented strategic action plan, in co-ordination with ship owners and oil suppliers, so as to comply with new Sulphur requirements of MARPOL Annex VI which has come into force from 1st January 2020 and the carriage ban on non-compliance fuel from 31st March 2020. Further, our Administration acknowledges timely reporting of fuel consumption data by the ship owners and urges them to ensure the collected data is accurate and as per the requisite IMO guidelines so as to formulate effective regulations to achieve GHG reduction goals.

The essence of any Port State inspection regime is to discourage sub-standard shipping through scientific targeting and by effective use of available resources. This Administration has strived to optimize the number of inspections by setting target to inspect Priority-I (high-risk) ships. Nearly 30% increases in inspections were achieved by constantly monitoring the progress and which has led to 8% increase in the inspections of vessels aged more than 12 years.

Under Flag State inspection regime, there is 3% increase in number of flag state inspections conducted in 2019 when compared to 2018. There is increase in detention rate from 2.14% in 2018 to about 3.33% in 2019 while average deficiency index has decreased from 8 to 6 signifying improvement in the condition of Indian flag vessels.

Indian flag performance is improved under USCG by getting de-listed from the targeted flag administration thereby ensuring minimum number of inspections are conducted for Indian flag vessels. This performance still needs to be continued in the upcoming years so as to qualify for the USCG QUALSHIP 21 program. India is still in the Grey list of Paris and TOKYO MOU but there is slight improvement of Indian flag performance under Paris MoU whereas performance in the Tokyo MoU region has slightly declined with 5 detentions.

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 by all stake holders and regulators is envisaged.

This year report gives a detailed statistical analysis based on a multitude of factors such as age and type of vessels and details the performance of all the stakeholders involved in the safe operation of ships. We expect that the stakeholders will analyze the report in detail and draw their own lessons learnt for the benefit of their company, ships and most importantly the seafarers in improving their employability. Improvement in the performance of Indian flag vessel under all PSC regimes should be the motto by all stake



holders and therefore everyone should assist and contribute towards improving the quality of Indian ships which ought to be the common self-interest.

The year 2020 is a challenging year due to COVID 19 pandemic and effective implementation of PSC and FSI requirements will require sensible decision, close monitoring by all stake holders and more of self-regulation by the ship owners / operators.

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).



S. Barik

Chief Surveyor with the GoI



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.



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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 2019, India conducted 598 initial inspections. Though these inspections were conducted on various types of vessels, majority were conducted on Bulk carriers, that is, about 40.30% of the total initial inspections. More than

52.50% of all vessels inspected were less than 12 years of age.

There were a total of 2124 deficiencies identified during these 598 initial inspections constituting an average of 3.55 deficiencies per ship. About 22.24% of ships inspected were found without any deficiencies.

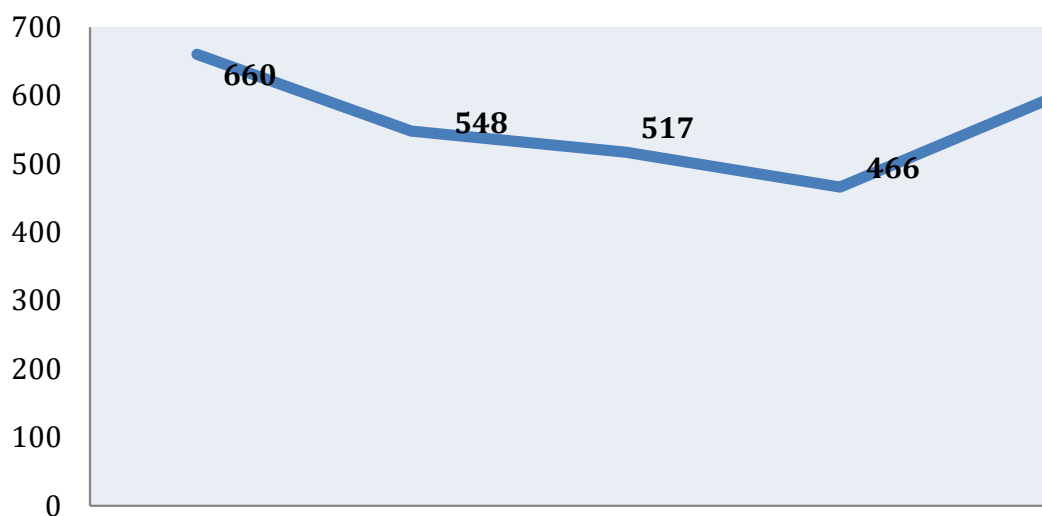
There were a total of 28 detentions constituting a detention rate of 4.68%. Maximum numbers, that is, 8 of all vessels detained were General Cargo / Multipurpose ships and with 90 initial inspections it constitutes a detention rate of 8.88%.

There were 6 Bulk carriers detained in 2019 and with 241 initial inspections of these types of vessels, it constitutes a detention rate of about 2.48%. Though there were only 01 Offshore Service Vessels detained, but with only 02 initial inspections, it constitutes the highest detention rate of 50% among all ship types detained. 32.14% of vessels detained were less than 12 years of age.

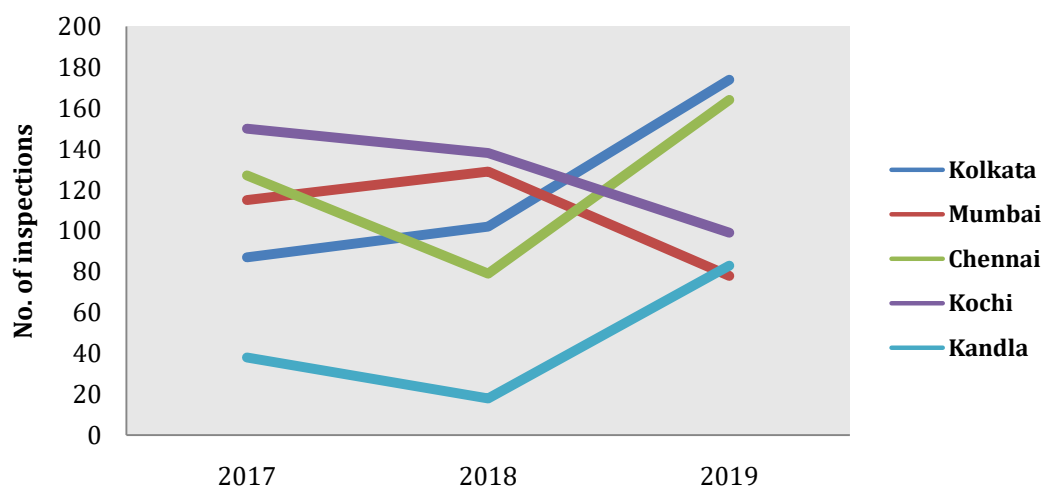
Nearly 4.27% of total deficiencies were associated with ventilators, air pipes and casing (Code no.03108) and 3.79 % of total deficiencies were associated with Cleanliness of engine room (Code no.09232).



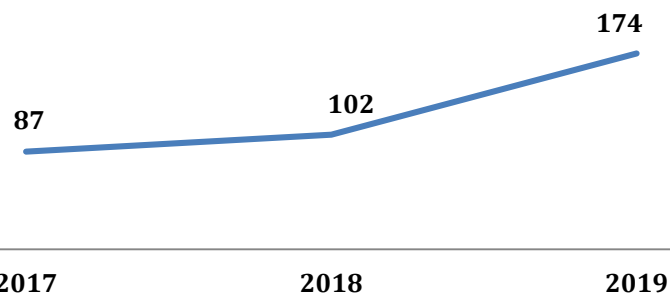
**Trends - Number of PSC Inspections from 2015-2019
(Figure 1)**



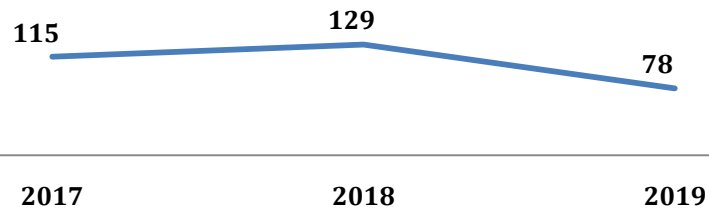
**Trends - Comparison of PSC Inspections by district
Figure 1A**



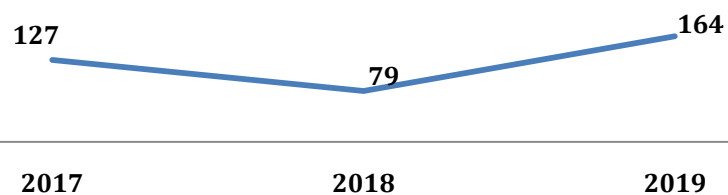
Trends - Number of PSC Inspections by Kolkata District (Figure 2A)



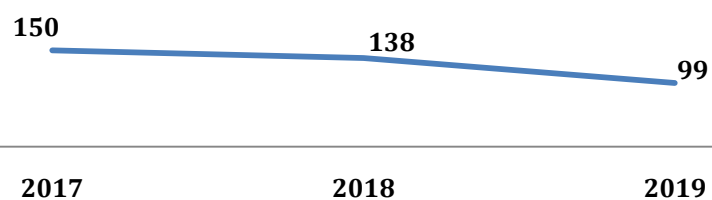
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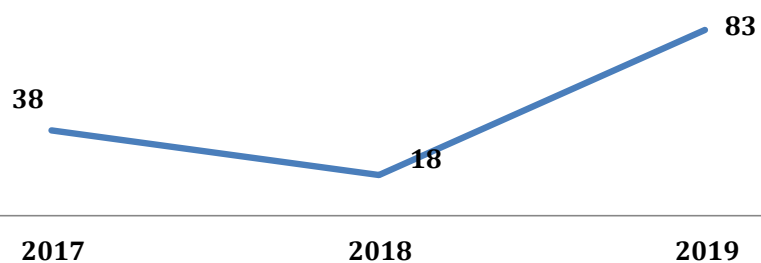
Trends - Number of PSC Inspections by Chennai District (Figure 2C)



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



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

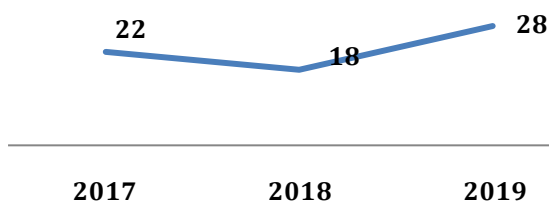


Overall PSC Performance Trends

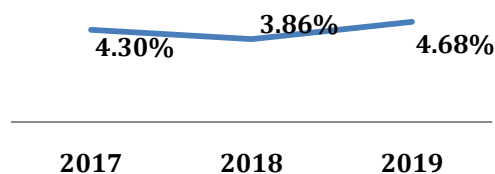
Table 1: PSC Performance

Ship Type	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
Bulk Carrier	241	06	3.45	21.16
Chemical Tanker	128	05	2.84	28.90
Container Ship	58	02	4.89	5.17
Gas Carrier	25	00	1.56	40.1
General Cargo/ Multi-Purpose Ship	90	08	4.25	14.44
Offshore Service Vessel	02	01	9.5	0
Oil Tanker	39	05	4.15	35.89
Other Type of Ships	06	00	1.5	50.1
Ro-Ro Cargo Ship	09	01	3.44	22.22
Total	598	28	3.55	22.24

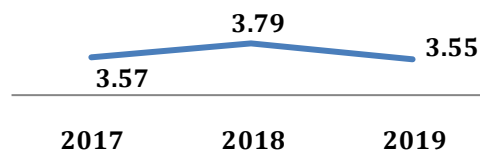
Trends - Number of PSC Detentions (Figure 3)



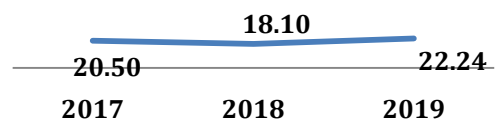
Trends - Detention Rate (Figure 4)



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

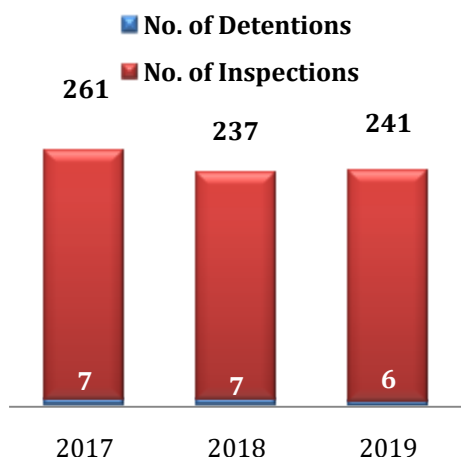


Trends - Performance parameter:
Nil Deficiency Percentage (Figure 5B)

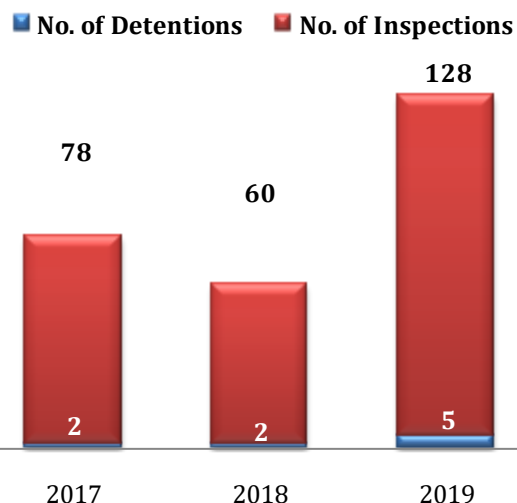


Trend analysis of Performance parameter: Ship-type

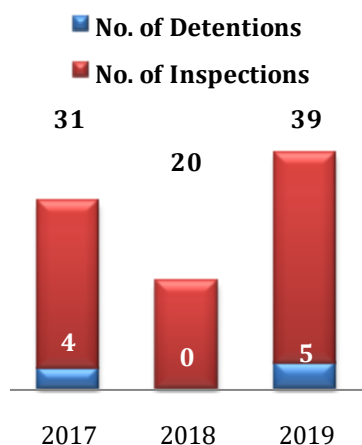
Trends - Comparison of Detentions to Inspections : Bulk Carriers (Figure 6A)



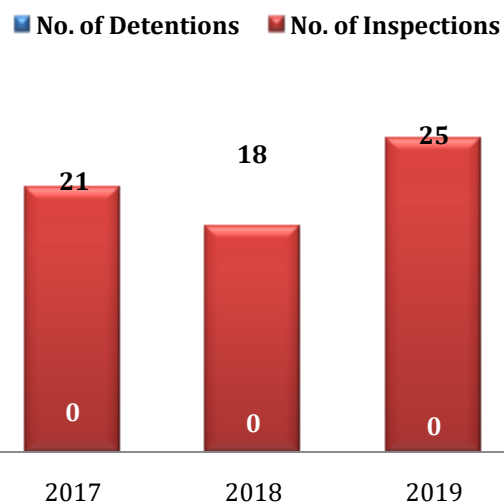
Trends - Comparison of Detentions to Inspections : Chemical Tankers (Figure 6B)



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

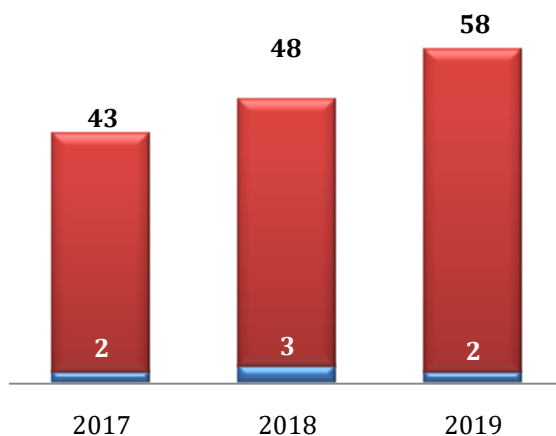


Trends - Comparison of Detentions to Inspections : Gas Carriers (Figure 6D)



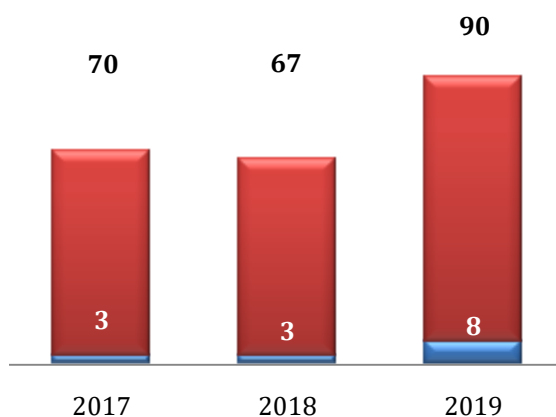
Trends - Comparison of Detentions to Inspections : Container Vessels (Figure 6E)

■ No. of Detentions ■ No. of Inspections



Trends - Comparison of Detentions to Inspections : General Cargo/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	314	09	2.52	30.25
Bulk Carriers	163	03	2.75	27.60
Oil Tankers	15	01	2.6	46.66
Chemical tankers	61	0	1.65	39.35
Gas carrier	16	0	0.875	50
Container	10	0	3.3	0
General Cargo/Multi-Purpose Vessel	42	04	0.833	19
Ro-ro cargo ship	02	01	0	100
Off shore service vessel	00	0	-	-
Other type of Ships	5	0	0	1

**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	193	09	4.07	16.06
Bulk Carriers	60	01	3.8	10
Oil Tankers	17	0	3.48	41.17
Chemical Tankers	47	3	3.76	23.40
Gas Carriers	5	0	1.4	40
Container ship	34	2	5.23	5.8
General Cargo/Multi-Purpose Vessel	25	3	5.24	8
Ro-Ro Cargo Vessel	2	0	1.5	0
Other type of Ships	3	0	2	33.33



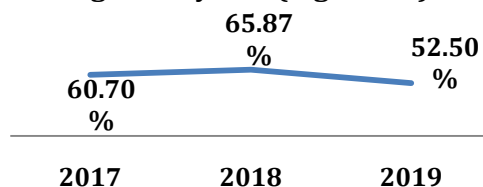
**Table 2C: Performance Parameters of various ship types
(Age category: over 20 Years)**

Type of vessel	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
All Types	91	10	5.93	7.7
Bulk Carriers	18	02	8.77	0
Oil Tankers	07	04	9.57	0
Chemical Tankers	18	02	4.88	11.11
Gas Carriers	04	00	4.5	0
Container	14	00	5.14	7.14
General Cargo/Multi-Purpose Vessel	23	01	5	13.04
Offshore Service Vessel	02	01	9.5	0
Ro-Ro Cargo Vessel	01	00	4	0
Other type of Ships	4	0	0.75	25

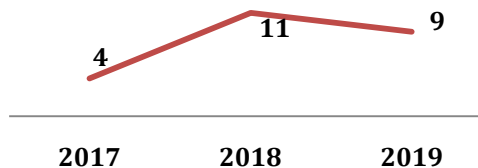


Trends Analysis of Age based Performance parameters

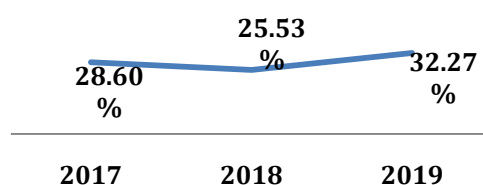
**Trends - Percentage of vessels inspected:
Age 0-12 years (Figure 7A)**



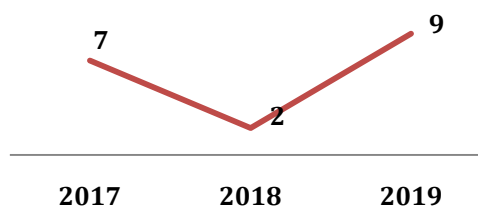
**Trends - No. of detentions:
Age 0- 12 years (Figure 7B)**



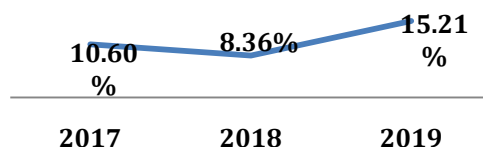
**Trends - Percentage of vessels inspected:
Age 13-20 years (Figure 7C)**



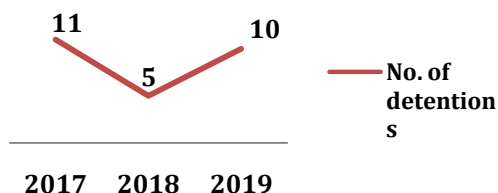
**Trends - No. of detentions:
Age 13-20 years (Figure 7D)**



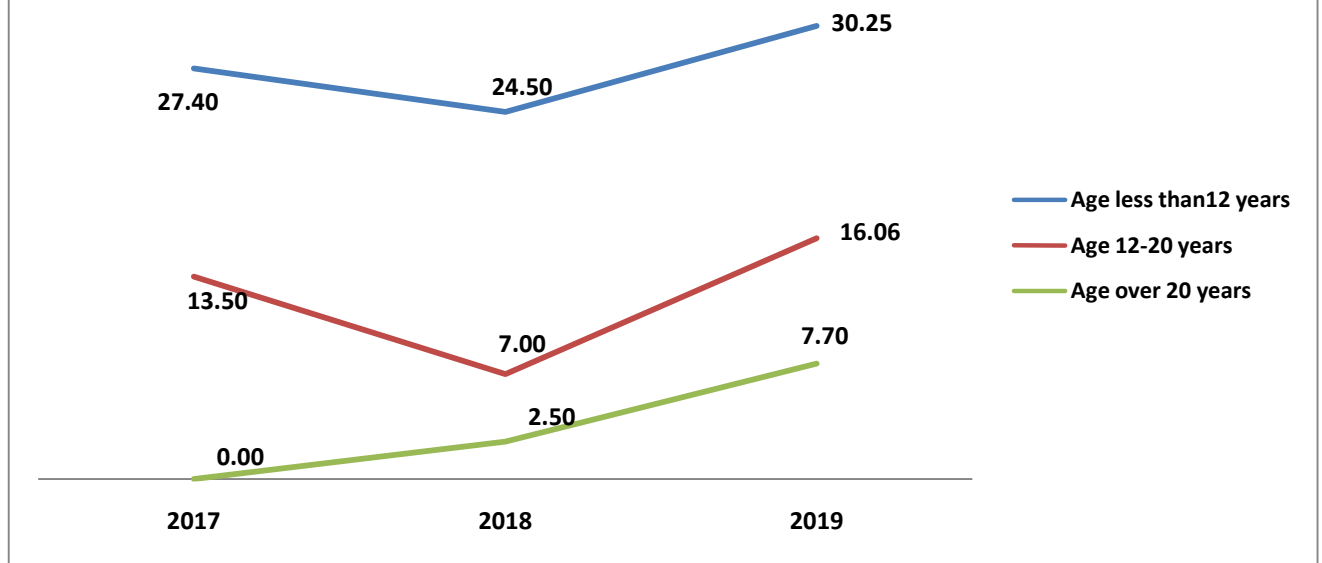
**Trends - Percentage of vessels inspected:
Age over 20 years (Figure 7E)**



**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	54	01	2.48	38.88
BV	74	03	3.83	13.51
Asia Classification Society	04	00	2.75	0
CCS	45	02	3.13	17.77
DNV GL AS	78	04	3.84	20.51
IRS	09	03	8.77	0
INSB	01	01	26	0
KRS	42	02	3.69	21.42
LR	75	01	2.77	26.66
NKK	169	06	3.39	24.26
Polski Rejestr Statkow (PRS)	3	0	1.33	0
RINA	25	01	2.88	32
RMRS	01	00	4	0
VR	18	04	7.22	0
Total	598	28	3.55	22.24

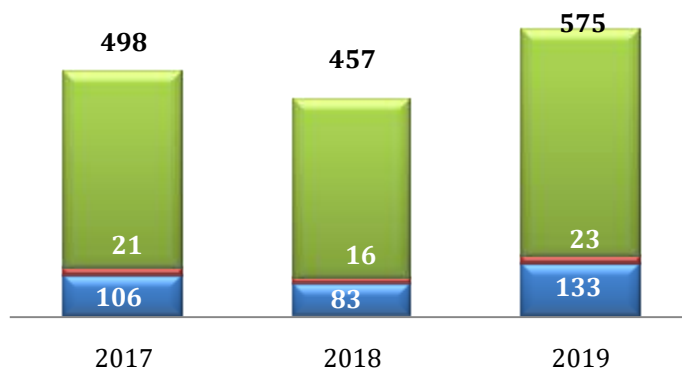
Table 3B: Performance: Recognized Organizations based on IACS Membership

Recognized Organization	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
All Types	598	28	3.55	22.24
IACS Members	575	23	3.4	23.13
Non-IACS Members	23	5	7.26	0



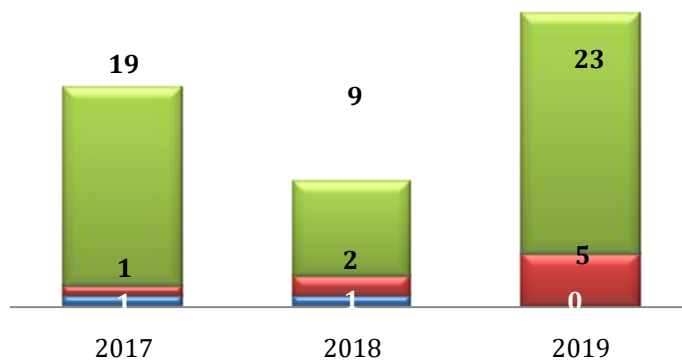
Trends - Performance parameters of RO with IACS Membership (Figure 8A)

■ Inspections with Nil deficiencies
 ■ No. of Detentions
 ■ No. of Inspections



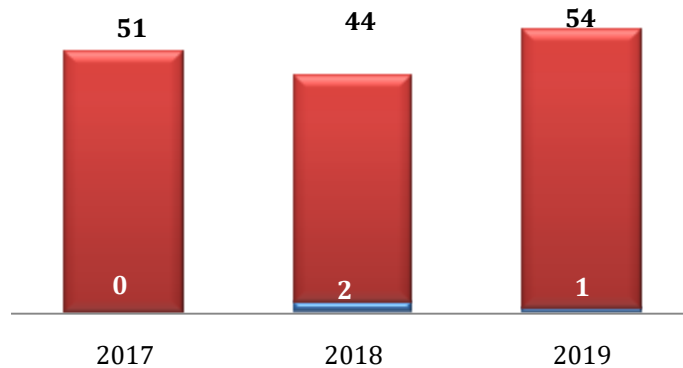
Trends - Performance parameters of RO with non-IACS Members (Figure 8B)

■ Inspections with Nil deficiencies
 ■ No. of Detentions
 ■ No. of Inspections



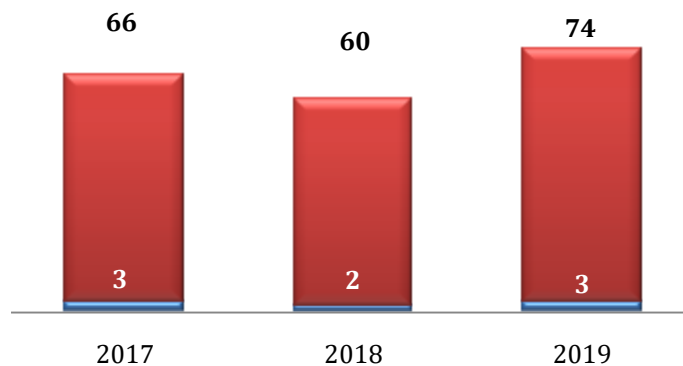
**Trends - Performance parameters of
Inspected ships with ABS as RO
(Figure 8C)**

■ No. of Detentions ■ No. of Inspections



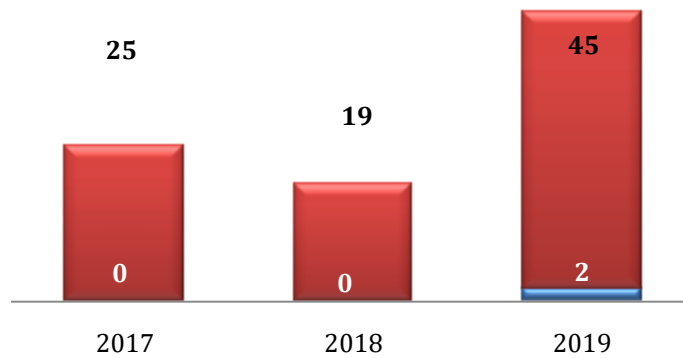
**Trends - Performance parameters of
Inspected ships with
BV as RO (Figure 8D)**

■ No. of Detentions ■ No. of Inspections



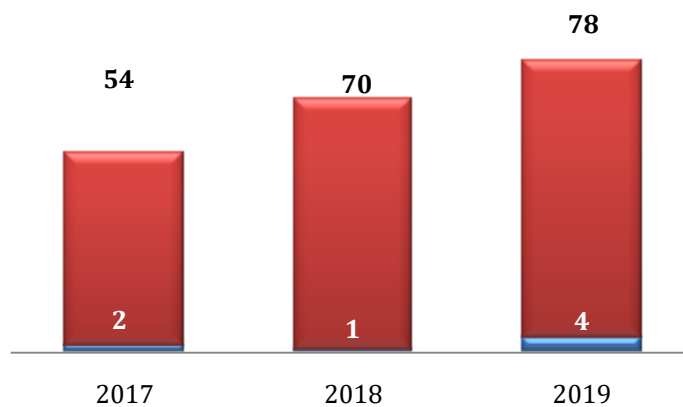
Trends - Performance parameters of Inspected ships with CCS as RO (Figure 8E)

■ No. of Detentions ■ No. of Inspections



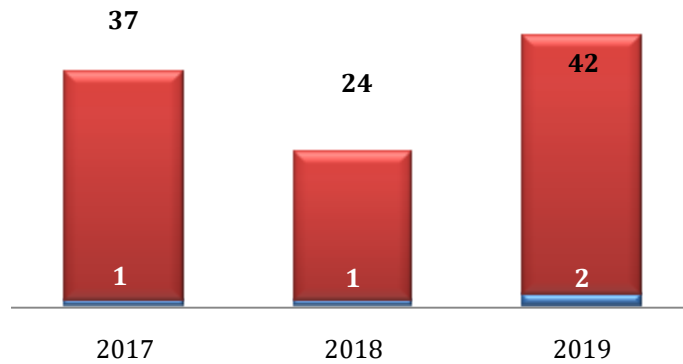
Trends - Performance parameters of Inspected ships with DNV-GL(AS) as RO (Figure 8F)

■ No. of Detentions ■ No. of Inspections



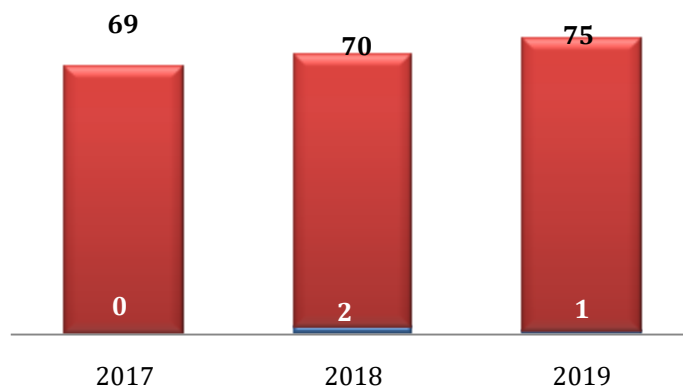
**Trends - Performance parameters of
Inspected ships with
KRS as RO (Figure 8G)**

■ No. of Detentions ■ No. of Inspections



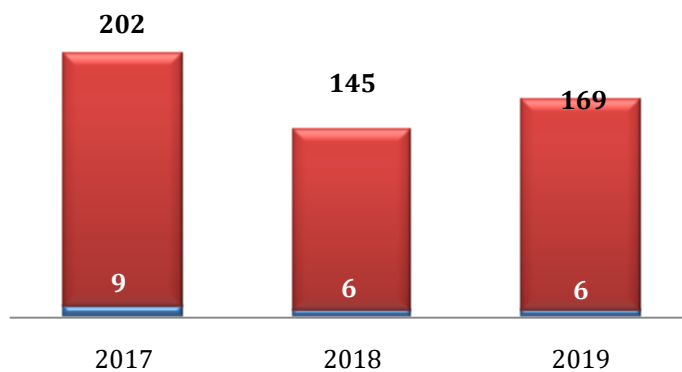
**Trends - Performance parameters of
Inspected ships with
LR as RO (Figure 8H)**

■ 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
Antigua and Barbuda	19	01	3.31	15.78
Bahamas	14	0	2.07	28.57
Bangladesh	3	0	3	0
Barbados	1	0	4	0
Belize	3	0	8.66	0
Belgium	1	0	0	100
Cayman Islands (UK)	1	0	1	0
China	6	0	2.83	0
Cyprus	8	1	4.5	0
Denmark	6	0	2.66	16.66
Ethiopia	1	0	2	0
Gibraltar (UK)	2	0	8	0
Greece	5	1	3.2	40
Hong Kong, China	68	2	2.77	30.88
Indonesia	2	0	4.5	0
Iran	4	0	2.75	0
Isle of Man (UK)	4	0	1	75
Italy	4	0	2	25
Korea, Republic of	10	0	4.2	0
Liberia	71	2	3.47	14.08
Luxembourg	1	0	0	100
Malaysia	3	0	5	0
Maldives	2	1	15	0
Malta	24	0	1.66	50
Marshall Islands	64	1	3.04	28.12
Mauritius	1	0	1	0
Mongolia	1	0	2	0
Myanmar	1	0	7	0
Netherlands	3	1	6.33	0
Norway	3	0	1.66	33.33
Pakistan	2	0	6	0
Palau	1	0	5	0
Panama	146	11	3.74	24.65
Philippines	2	0	4	0
Portugal	4	0	1.25	25
Saint Vincent and the Grenadines	3	1	12	0
Saudi Arabia	2	0	0	100
Singapore	63	1	3.57	22.22
South Africa	1	0	3	0



Srilanka	1	0	4	0
Switzerland	1	0	4	0
Thailand	4	0	2.5	1
Turkey	2	0	3	0
Tuvalu	8	1	7.75	0
United Kingdom	4	0	2.5	25
Viet Nam	18	4	7.22	0

Distribution of Deficiencies across Deficiency Codes

Nature of Deficiencies	Total No.	Percentage
01102: Cargo Ship Safety Construction (including exempt.)	1	0.07
01105 : Cargo Ship Safety (including exemption)	0	0.00
01106 : Document of Compliance (DOC/ ISM code)	3	0.20
01123 : Continuous synopsis record	1	0.07
01138 : International Energy Efficiency Certificate	1	0.07
01140 : Declaration of Maritime Labour Compliance (part I and II)	1	0.07
01199 : Other (certificates)	8	0.54
01201 : Certificates for master and officers	5	0.34
01202 : Certificate for rating for watch keeping	3	0.20
01204 : Certificate for personnel on tankers	2	0.14
01214 : Endorsement by Flag State	3	0.20
01301 : Cargo Gear Record Book	1	0.07
01303 : Unattended Machinery Spaces (UMS) Evidence	0	0.00
01305 : Log-books/compulsory entries	18	1.22
01307 : Tables of working hours	12	0.81
01308 : Records of rest	41	2.78
01310 : Signs, indications	16	1.08
01311 : Survey report file	0	0.00
01314 : Shipboard oil pollution emergency plan (SOPEP)	11	0.75
01315 : Oil record book	27	1.83
01320 : Garbage record book	19	1.29
01324 : Material Safety Data Sheets(MSDS)	9	0.61
02101 : Closing devices/watertight doors	7	0.47
02105 : Steering gear	4	0.27
02107 : Ballast, fuel and other tanks	1	0.07
02108 : Electrical installations in general	2	0.14
02112 : Hull - corrosion	5	0.34
02114 : Bulkhead -corrosion	0	0.00
02117 : Decks - corrosion	26	1.76



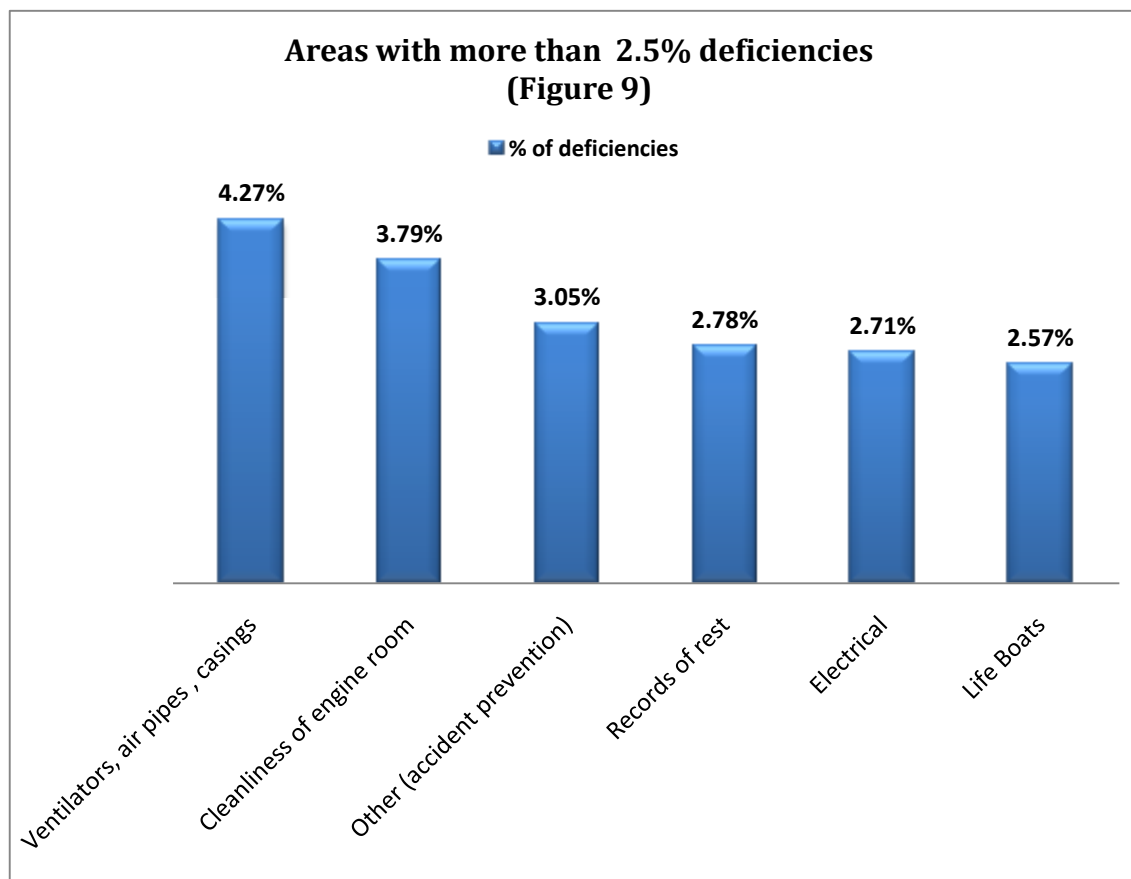
02122 : Openings to cargo area, doors, ... scuttles	1	0.07
02126 : Cargo tank vent system	0	0.00
02199 : Other (structural condition)	18	1.22
03102 : Freeboard marks	3	0.20
03103 : Railing, gangway, walkway and means for safe passage	4	0.27
03107 : Doors	29	1.96
03108 : Ventilators, air pipes, casings	63	4.27
03109 : Machinery space openings	31	2.10
03112 : Scuppers, inlets and discharges	3	0.20
03199 : Other (load lines)	19	1.29
04101 : Public address system	1	0.07
04102 - Emergency fire pump & it's pipes	19	1.29
04102 : Emergency fire pump and its pipes	0	0.00
04103 : Emergency, lighting, batteries and switches	31	2.10
04114 : Emergency source of power - Emergency generator	5	0.34
04114 : Emergency source of power - Emergency generator	16	1.08
04116 : Means of communication between safety centre and other	6	0.41
05106 : INMARSAT ship earth station	0	0.00
05114 : Reserve source of energy	22	1.49
05115 : Radio log (diary)	7	0.47
07102 : Inert gas system	0	0.00
07105 : Fire doors/openings in fire-resisting divisions	18	1.22
07106 : Fire detection and alarm system	14	0.95
07108 : Ready availability of fire fighting equipment	7	0.47
07109 : Fixed fire extinguishing installation	15	1.02
07110 : Fire fighting equipment and appliances	13	0.88
07113 : Fire pumps and its pipes	17	1.15
07116 : Ventilation	4	0.27
07124 : Maintenance of Fire protection systems	5	0.34
07126 : Oil accumulation in engine room	13	0.88
07199 : Other (fire safety)	30	2.03
08107 : Machinery controls alarm	3	0.20
08199 : Other (alarms)	6	0.41
09103 : Ventilation (Accommodation)	11	0.75
09106 : Sanitary Facilities	20	1.36
09107 : Drainage	2	0.14
09125 : Ventilation	0	0.00
09127 : Cleanliness	12	0.81
09201 : Ventilation (Working spaces)	13	0.88



09203 : Lighting (Working spaces)	15	1.02
09204 : Safe means of access	12	0.81
09205 : Safe means of access Shore - Ship	17	1.15
09207 : Obstruction/slipping, etc.	11	0.75
09208 : Protection machinery	4	0.27
09209 : Electrical	40	2.71
09210 : Machinery	32	2.17
09211 : Steam pipes and pressure pipes	27	1.83
09213 : Gas instruments	10	0.68
09216 : Personal equipment	2	0.14
09219 : Pipes, wires (insulation)	20	1.36
09221 : Entry dangerous spaces	4	0.27
09223 : Gangway, accommodation-ladder	21	1.42
09227 : Ropes and wires	1	0.07
09229 : Winches & capstans	23	1.56
09230 : Adequate lighting - mooring arrangements	0	0.00
09232 : Cleanliness of engine room	56	3.79
09297 : Other (working space ILO)	9	0.61
09298 : Other (accident prevention)	45	3.05
09299 : Other (mooring)	10	0.68
10104 : Gyro compass	3	0.20
10105 : Magnetic compass	15	1.02
10109 : Lights, shapes, sound-signals	26	1.76
10111 : Charts	9	0.61
10116 : Nautical publications	28	1.90
10127 : Voyage or passage plan	17	1.15
10199 : Other (navigation)	26	1.76
11101 : Lifeboats	38	2.57
11117 : Lifebuoys incl. provision and disposition	26	1.76
11129 : Operational readiness of lifesaving appliances	4	0.27
13101 : Propulsion main engine	23	1.56
13102 : Auxiliary engine	34	2.30
13103 : Gauges, thermometers, etc	15	1.02
13104 : Bilge pumping arrangements	6	0.41
13108 : Operation of machinery	6	0.41
13199 : Other (machinery)	4	0.27
14199 : Other (MARPOL Annex I)	12	0.81
14402 : Sewage treatment plant	34	2.30
14501 : Garbage	35	2.37



14502 : Placards	12	0.81
14611 : Ozone-depleting substances	3	0.20
16105 : Access control to ship	23	1.56
16199 : Other (maritime security)	10	0.68
Grand Total	1476	100.00



List of Ships detained under PSC in 2019

Sr. No.	IMO Number	Gross Tonnage	Ship Name	Flag	Year Built	Ship Type	Classification Society	Place of Inspection	Date of Inspection
1	9629134	2993	HAI PHUONG GLORY	Viet Nam	2008	general cargo/multi-purpose ship	VR	Tuticorin	31.01.2019
2	9418688	4079	PHUONG NAM 1	Viet Nam	2005	general cargo/multi-purpose ship	VR	Chennai	31.01.2019
3	9290189	7823	TAN BINH 99	Panama	2003	general cargo/multi-purpose ship	NKK	Chennai	18.03.2019
4	9120891	4951	GP ASPHALT I	Panama	1995	oil tanker	NKK	Pipavav Port	24.04.2019
5	9383481	5272	MCP SALZBURG	Cyprus	2007	general cargo/multi-purpose ship	CCS	Kolkata	30.04.2019
6	9075682	38779	EASTERN VIEW	Panama	1994	bulk carrier	NKK	Chennai	02.05.2019
7	9353747	9056	UNISKY	Antigua and Barbuda	2004	container ship	BV	Kolkata	31.05.2019
8	9505003	5493	BD 51	Hong Kong, China	2007	oil tanker	KRS	Chennai	04.07.2019
9	9133719	4236	BITUMEN PRINCESS	Panama	1995	oil tanker	KRS	Mangalore	08.07.2019
10	9561643	9984	GRANDE FORTUNA	Panama	2008	ro-ro cargo ship	NKK	Chennai	16.07.2019
11	9129940	28357	SPLENDOUR EMERALD	Panama	1997	chemical tanker	DNV GL AS	Cochin	23.07.2019
12	9250189	40597	ANGELIC POWER	Greece	2001	bulk carrier	ABS	Tuticorin	29.07.2019
13	9340740	1653	DORSTEN	Saint Vincent and the Grenadines	2005	general cargo/multi-purpose ship	INSB	Chennai	04.08.2019
14	9507506	4838	MEKONGTRANS 01	Viet Nam	2006	chemical tanker	VR	Chennai	14.08.2019
15	9599389	32987	LMZ PHOEBE	Marshall Islands	2010	bulk carrier	BV	Chennai	29.08.2019
16	9030400	2411	SUDARSHAN	Panama	1991	offshore service vessel	IRS	Mumbai	09.09.2019
17	9423566	35240	GMB ASTERIA	Liberia	2008	general cargo/multi-	DNV GL AS	Mumbai	30.09.2019



Sr. No.	IMO Number	Gross Tonnage	Ship Name	Flag	Year Built	Ship Type	Classification Society	Place of Inspection	Date of Inspection
						purpose ship			
18	9378010	4455	ATA 1	Panama	2005	container ship	IRS	Chennai	03.10.2019
19	9492945	11709	DONGHAI	Hong Kong, China	2006	chemical tanker	CCS	Kandla	06.11.2019
20	9230012	11320	TSM ALPHECCA	Liberia	2000	chemical tanker	LR	Sika	19.11.2019
21	9159804	9529	NALA COMMANDE R	Maldives	1998	general cargo/multi-purpose ship	DNV GL AS	Tuticorin	19.11.2019
22	9591662	2999	ROYAL 18	Viet Nam	2008	bulk carrier	VR	Tuticorin	22.11.2019
23	9149263	27526	SPLENDOR SAPHIRE	Panama	1997	chemical tanker	DNV GL AS	Cochin	26.11.2019
24	9004815	2920	REEM 3	Panama	1990	oil tanker	IRS	Pipavav Port	28.11.2019
25	9477440	33312	ZEALAND ROTTERDAM	Netherlands	2012	bulk carrier	RINA	Mumbai	06.12.2019
26	9453781	9627	PELAGICA	Singapore	2008	general cargo/multi-purpose ship	NKK	Chennai	14.12.2019
27	9157363	16794	TINA	Tuvalu	1996	bulk carrier	NKK	Kandla	27.12.2019
28	9246487	4579	OCEAN RUBY	Panama	1996	oil tanker	BV	Pipavav Port	28.12.2019



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 2019, there were 499 initial inspections of Indian flag vessels under FSI/GI regime and this figure is about 11 initial inspections more than that conducted in 2018. Out of these 498 initial inspections, 19 inspections were general examinations conducted abroad by an Indian RO other than that which conducted the statutory surveys of the vessel.

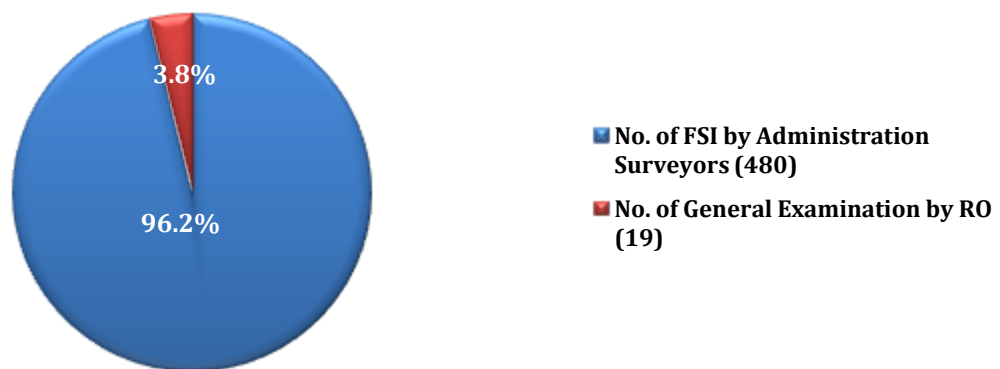
There were 2799 deficiencies raised in 499 initial FSI inspections constituting about an average of 5.62 deficiencies per ship. The 34 numbers of General Cargo / Multipurpose vessels inspected registered the highest average deficiencies of 7.97 per vessel followed by 4 number High Speed passenger craft vessels inspected with an average of 7.0 deficiencies per vessel.

There were 16 vessels detained under FSI in 2019 constituting a detention rate of 3.33%. Among all ship types detained, the

highest, i.e. 12 were other type of ships. However, based on detention rate, the bulk carrier detained out of 36 vessels inspected constituted the highest detention rate of 8.33%.

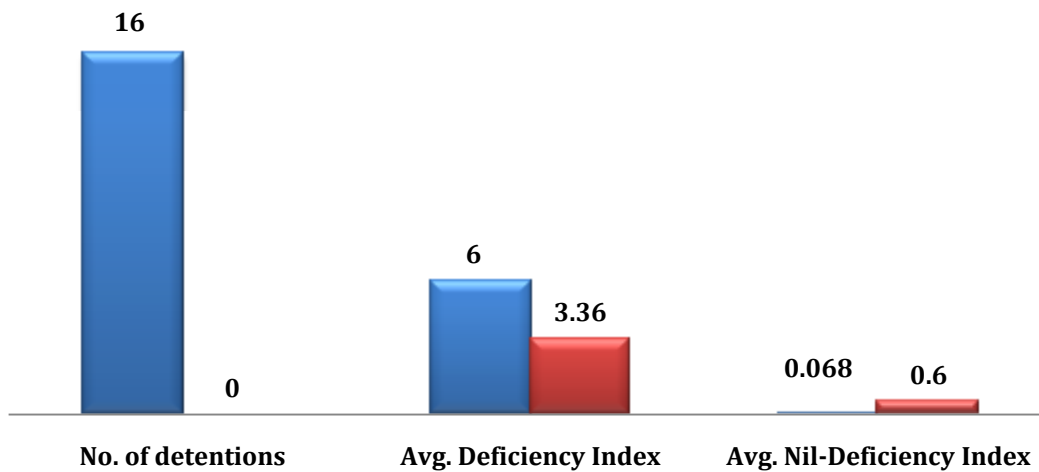


**Comparison of FSI Inspections (in India) and GE (abroad)
(Figure 10)**

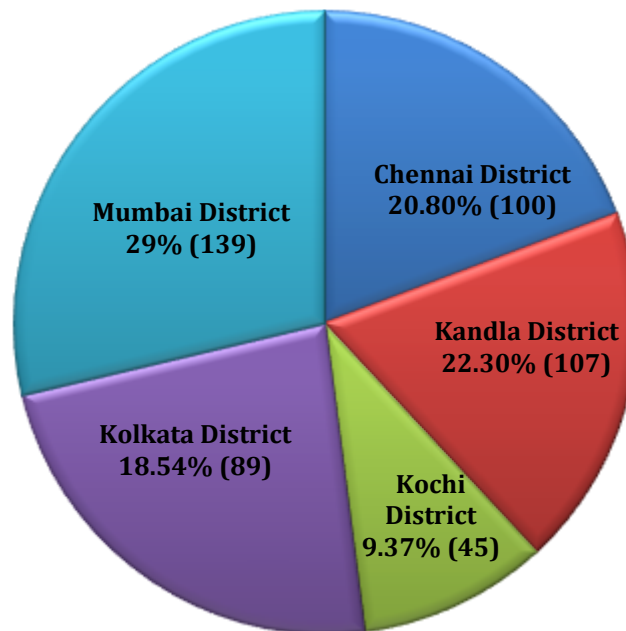


FSI Inspections and Detentions

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

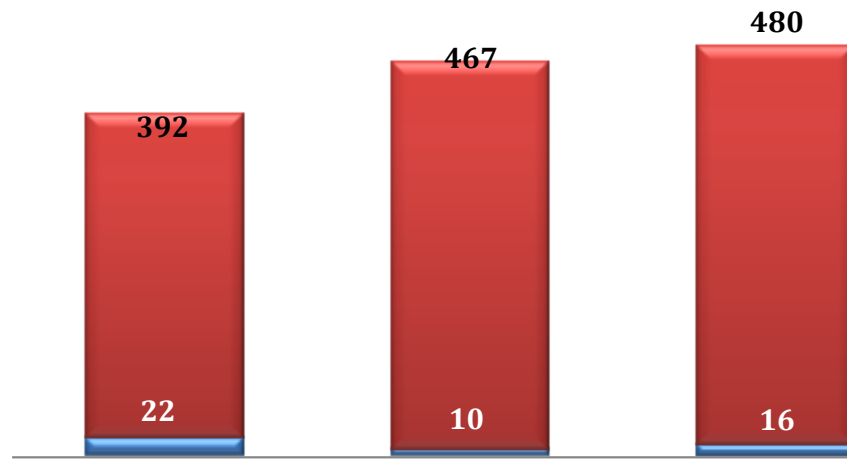


Distribution of FSI Inspections across regions (Figure 12)



Trends - Comparison of FSI Inspections and Detentions (Figure 13A)

■ No. of Detentions ■ No. of Inspections



Trends - Detention Rate in FSI Inspections (Figure 13B)

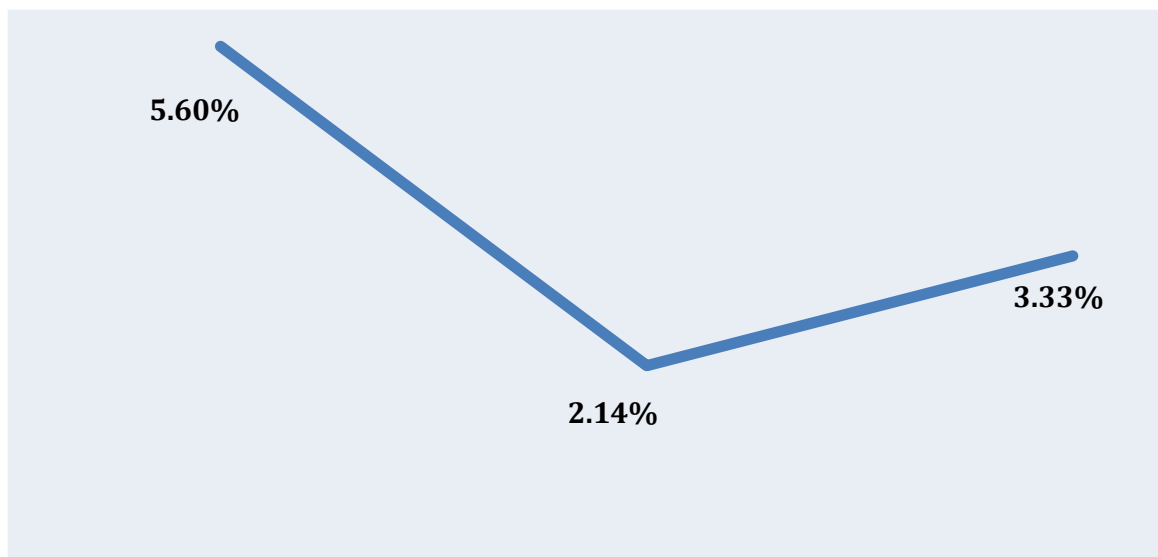
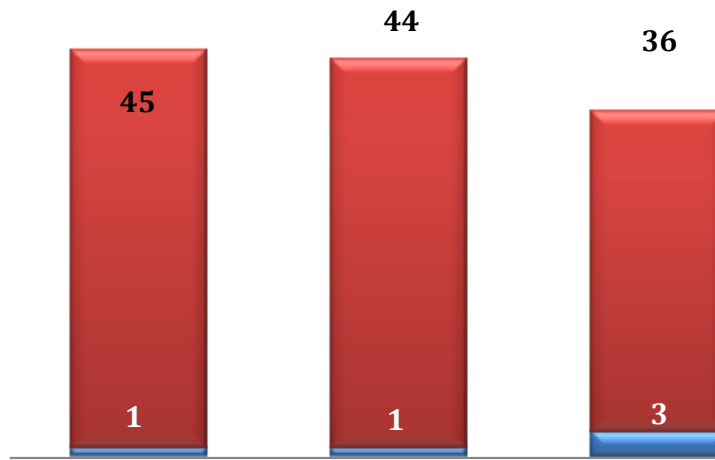


Table 4: Flag State Inspection Performance based on Ship Type				
Type of Vessel	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
Bulk Carrier	36	03	7.44	2.77
chemical tanker	3	0	6	0
Container Ship	12	0	6.75	0
Gas Carrier	15	0	3.8	13.33
General Cargo/Multi-Purpose Ship	34	01	7.97	0
High Speed Passenger Craft	4	0	7	0
Offshore Service Vessel	29	0	3.58	6.9
Oil Tanker	71	02	6.87	5.63
Other Types of Ship	126	10	6.06	7.14
Passenger Ship	20	0	8.8	0
Tugboat	130	1	4.27	10
All Types	480	16	5.85	6.25

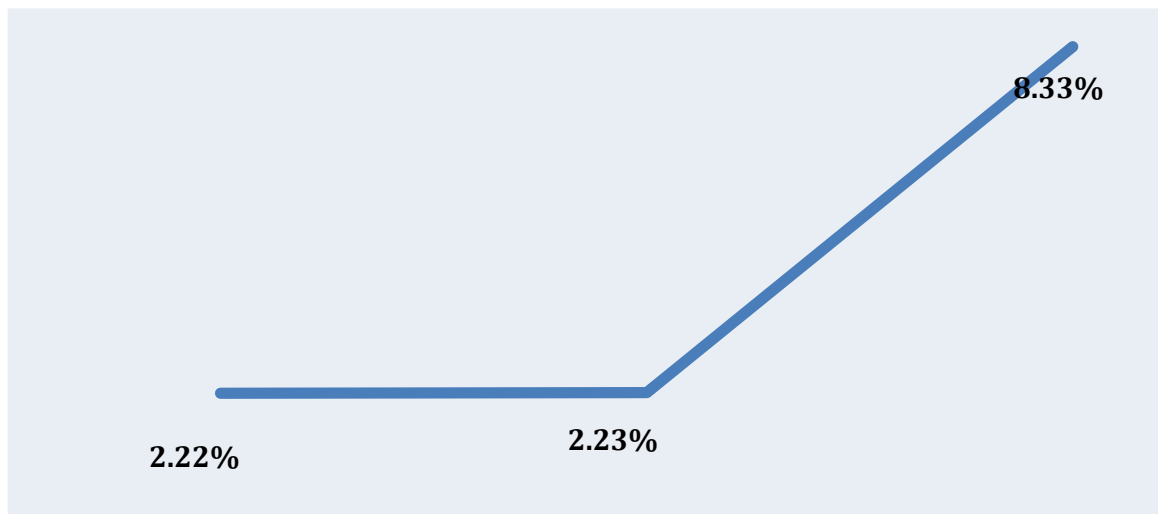


Trends - Comparison of FSI Inspections and Detentions of Bulk Carriers (Figure 14A)

■ No. of Detentions ■ No. of Inspections

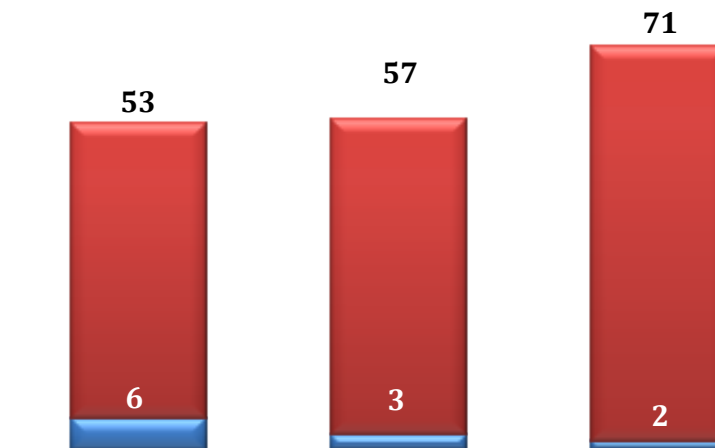


Trends - Comparison of Detention rate of Bulk Carriers (Figure 14B)

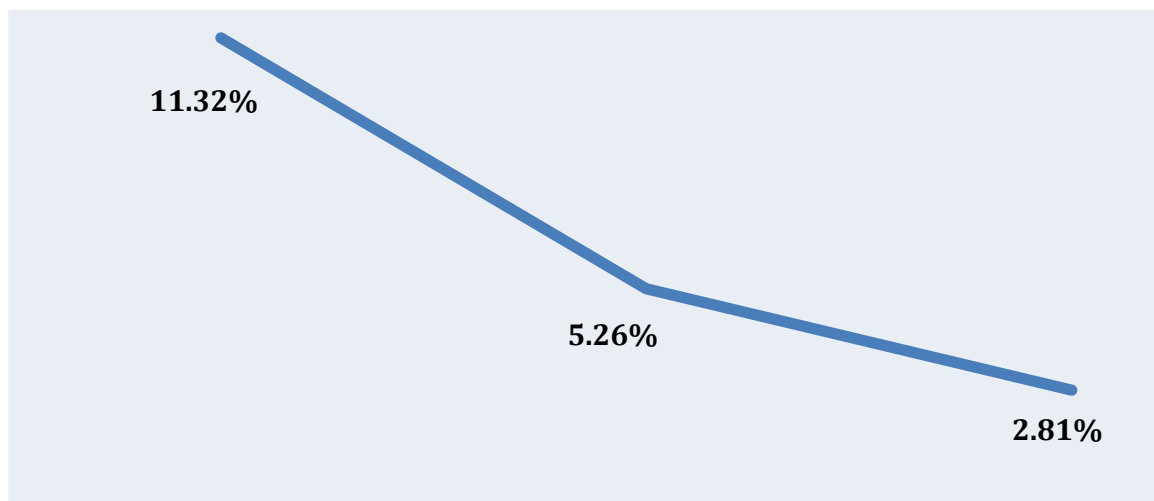


Trends - Comparison of FS Inspections and Detentions of Oil Tankers (Figure 14C)

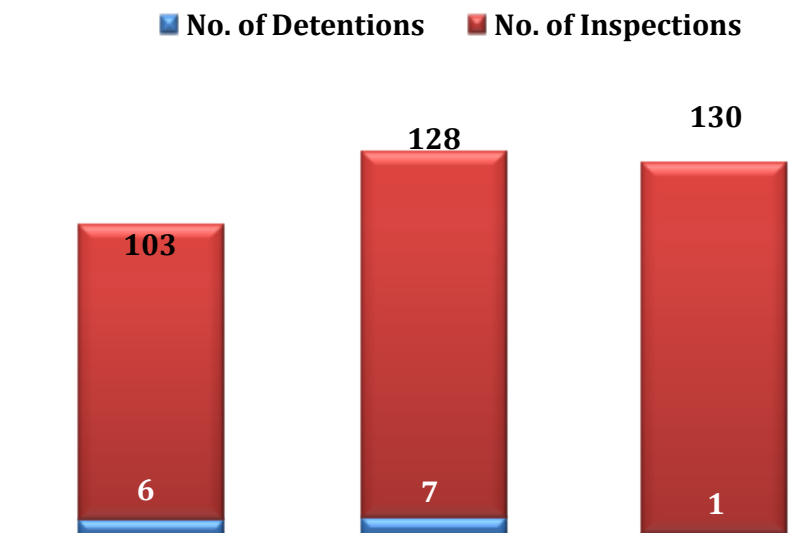
■ No. of Detentions ■ No. of Inspections



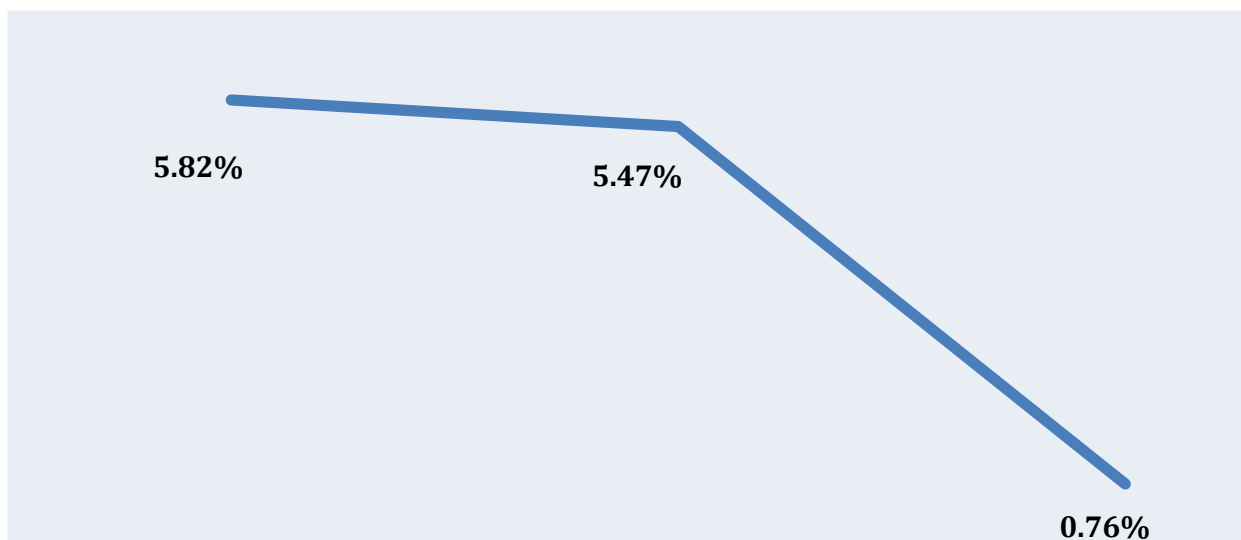
Trends - Comparison of Detention rate of Oil Tankers (Figure 14D)



Trends - Comparison of FS Inspections and Detentions of Tug boats/Pilot launch (Figure 14E)

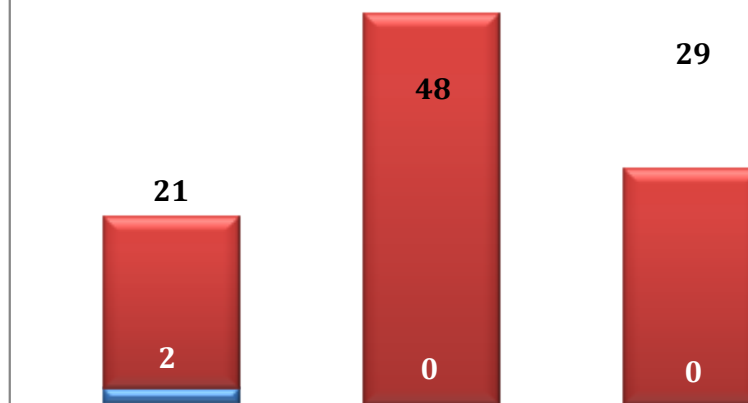


Trends - Comparison of Detention rate of Tug boats/Pilot launch (Figure 14F)

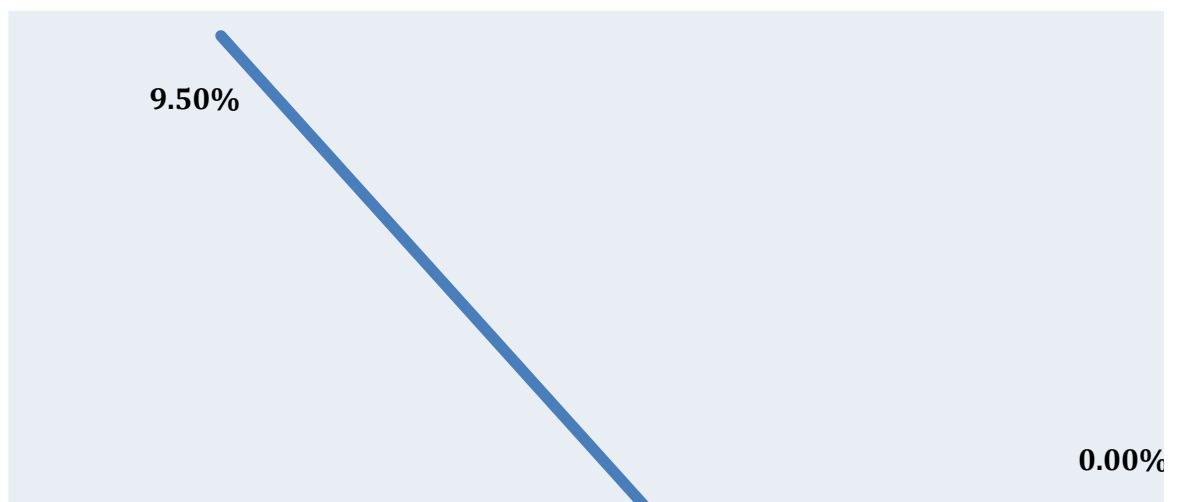


Trends - Comparison of FS Inspections and Detentions of Offshore vessels (Figure 14G)

■ No. of Detentions ■ No. of Inspections



Trends - Comparison of Detention rate of Offshore vessels (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	19	0	3.31	57.89%
Bulk Carrier	4	0	8.5	25%
Chemical tanker	1	0	3	0%
Oil Tanker	10	0	2	80%
Other Type of ships	4	0	1.5	50%

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	175	04	4.76	8%
High Speed Passenger Craft	04	0	7	0%
Offshore Service Vessel	1	0	4	0%
Oil Tanker	1	0	3	0%
Other Types of Ship	34	03	5.7	2.9%
Passenger Ship	09	0	8.3	0%
Tugboat	126	01	4.2	10.3%

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	124	5	5.82	7.25%
Bulk Carrier	4	0	5.5	0%
Container Ships	1	0	10	0
Gas Carrier	1	0	1	0%
General Cargo/Multi-Purpose Ship	27	1	8.74	0%
Offshore Service Vessel	23	0	3.6	8.6%
Oil Tanker	4	1	9.25	0%
Other Types of Ship	54	3	5	12.96%
Passenger Ship	6	0	6.1	0%
Tugboat	4	0	6.50	0%



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	182	7	6.89	3.84%
Bulk Carrier	32	2	2.78	3.12%
Chemical tanker	3	0	6	0%
Container Ship	15	0	6.6	0%
Gas Carrier	14	0	4	14.28%
General Cargo/Multi-Purpose Ship	7	0	5	0%
Offshore Service Vessel	5	0	3.4	0%
Oil Tanker	66	1	6.78	6%
Other Types of Ship	35	4	7.77	2.85%
Passenger Ship	5	0	12.80	0%

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	29	1	4.75	13.79%
Bulk Carrier	2	0	3.5	0%
General Cargo/Multi-Purpose Ship	1	0	8	0%
Offshore Service Vessel	6	0	3.83	16.66%
Other Types of Ship	9	0	6.88	0%
Oil Tanker	1	0	14	0%
Tugboat	10	1	2.4	30%

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	178	4	5.67	8.98%
Bulk Carrier	18	2	8.72	5.5%
Chemical Tanker	1	0	3	0%
Container Ship	5	0	6.8	0%
Gas Carrier	2	0	0	0%
General Cargo/Multi-Purpose Ship	8	0	9.5	0%
High speed Passenger Craft	1	0	10	0%
Offshore Service Vessel	14	0	3	7.14%
Oil Tanker	24	0	5.12	12.50%
Other Types of Ship	45	2	4.82	15.55%
Passenger Ship	9	0	7.88	0%
Tugboat	51	0	5.25	7.84%



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	182	5	5.41	4.4%
Bulk Carrier	14	0	6.1	0%
Chemical tanker	2	0	7.5	0%
Container Ship	11	0	6.8	0%
Gas Carrier	8	0	3.265	12.5%
General Cargo/Multi-Purpose Ship	10	0	5.5	0%
High Speed Passenger Craft	3	0	6	0%
Offshore Service Vessel	8	0	4.25	0%
Oil Tanker	40	2	7.3	0%
Other Types of Ship	31	3	5.42	3.22%
Passenger Ship	4	0	10.75	0%
Tugboat	51	0	3.37	10%

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	91	6	7.37	2.2%
Bulk Carrier	2	0	9.5	0%
Gas Carrier	5	0	3.6	20%
General Cargo/Multi-Purpose Ship	15	1	8.8	0%
Offshore Service Vessel	1	0	5	0%
Oil Tanker	5	0	11	0%
Other Types of Ship	38	5	7.6	2.63%
Passenger Ship	7	0	8.5	0
Tugboat	18	0	5.05	5.5



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	480	16	5.85	6.25%
IRS-ABS	27	0	4.37	3.7%
IRS-BV	10	1	6.5	0%
IRS-DNV	30	2	3	3.33%
IRS-KRS	4	0	5.25	0%
IRS-LR	29	1	5.44	10.34%
IRS-NK	7	0	6.7	0%
IRS	373	12	5.9	5.89%

Table 9 : FSI Performance of Shipping Companies

Name of Company	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
A.K.SHIP MANAGEMENT	4	1	6.00	0.00
ABS MARINE	1	0	2.00	0.00
ADANI HARBOUR SERVICES PVT LTD	5	0	3.60	0.00
ALBATROSS MARINE SERVICES	3	1	4.33	0.00
ALPHARD MARITIME PVT LTD	4	0	4.50	0.00
AMAZE MARITIME SERVICES PRIVATE LIMITED	1	1	17.00	0.00
AMBA SHIPPING	6	1	5.00	0.00
AMBUJA CEMENTS LIMITED	8	0	1.63	37.50
AMRO MARINE	1	0	7.00	0.00
ANGLO EASTERN SHIP MANAGEMENT(INDIA) PVT. LTD.	1	0	4.00	0.00
APPEJAY SHIPPING LTD	6	0	6.33	0.00
ARKAY LOGISTICS	8	0	5.38	0.00
AVADH	1	0	3.00	0.00
AVANIGADDA SAROJINI DAVI AMD NATRA LAKSHMI NAGA SWAROOPA	1	0	4.00	0.00
BAPU SHIPPING PVT LTD	1	0	14.00	0.00
BHOIR DREDGING COMPANY PVT LTD	1	0	10.00	0.00
Chandra Ship Management Pvt Ltd	1	0	6.00	0.00
CHELLARAM SHIPPING(HONG KONG) LIMITED	1	0	9.00	0.00
COASTAL MARINE CONSTRUCTION & ENGINEERING LTD	1	0	10.00	0.00
COCHIN PORT TRUST	2	0	16.00	0.00
CROWLY ACCORD MARINE	1	0	18.00	0.00



MANAGEMENT PVT LTD				
DARYA SHIP MANAGEMENT PRIVATE LIMITED	1	0	5.00	0.00
Dawn shipping Pvt ltd	3	0	14.33	0.00
Delta Maritime	1	0	16.00	0.00
DHARTI DREDGING AND INFRA LIMITED	1	0	4.00	0.00
Directorate Of Shipping Services	1	0	6.00	0.00
DREDGING CORPORATION OF INDIA LTD	11	0	9.73	0.00
EASTERN NAVIGATION PVT. LTD.	1	0	8.00	0.00
ESSAR SHIPPING LIMITED	3	0	2.00	33.33
FAIRWAY BARGE OPERATORS PVT LTD. GOA	1	0	13.00	0.00
FIVE STARS SHIPPING CO PVT LTD	1	0	2.00	0.00
FLEET MANAGEMENT INDIA PVT LTD	6	0	4.50	0.00
GESCO	22	0	3.55	18.18
GLOBAL OFFSHORE LTD	4	1	2.75	25.00
Global Ship Marine Services Pvt Ltd, Chennai	1	0	20.00	0.00
GLORY SHIP MANAGEMENT	3	0	6.67	0.00
GREATSHIP INDIA LTD	7	0	2.43	28.57
HALANI SHIPPING	3	0	7.00	0.00
HIND OFFSHORE PVT LTD	6	0	4.17	0.00
HOGER OFFSHORE AND MARINE PVT LTD.	4	0	5.25	0.00
HYDRO ENGINEERING	1	0	3.00	0.00
IGOPL	2	1	3.00	0.00
IMPERIAL CLASSIC SHIPPING	1	0	15.00	0.00
IND AUST MARITIME PVT. LTD.	4	0	6.75	0.00
INTEGRITY SHIPS PRIVATE LIMITED	4	0	9.00	0.00
ITT Shipping (Pvt) Ltd.	5	0	8.80	0.00
JSW STEEL SALAV LTD	4	1	6.75	0.00
K STEAM SHIP AGENCIES	2	0	6.00	0.00
K.B. SHIPPING COMPANY	1	0	16.00	0.00
Kakinada Seaports Ltd.	3	0	4.00	0.00
KEI-RSOS MARITIME LTD.	2	0	9.00	0.00
KESARI MARINE SERVICE	1	0	3.00	0.00
KHATTAR MARINE SERVICES PVT LIMITED	1	0	1.00	0.00
KOLKATA PORT TRUST	1	0	8.00	0.00
LAKSHADWEEP DEVELOPMENT CORPORATION LTD.	9	0	6.44	0.00
LIFT AND SHIFT INDIA PVT.LTD	2	0	2.50	0.00
LILLY MARITIME PVT LIMITED	7	0	3.00	0.00
M J MARINE SERVICES PRIVATE LIMITED	1	0	8.00	0.00



M/S SUPREME HYDRO ENGG. PVT.LTD	1	0	5.00	0.00
MAK LOGISTICS PVT LTD	3	0	9.67	0.00
MAT MARINE SERVICES PVT LTD	1	0	4.00	0.00
MERCATOR LIMITED, MUMBAI	5	1	9.00	0.00
MOHAN MUTHA TRANSLOGISTICS PVT LTS	1	0	16.00	0.00
MUNDRA PORT SEZ LTD	4	0	2.50	0.00
NAUTEX MARITIME PVT.LTD	1	0	2.00	0.00
NAUTILUS SHIP MANAGEMENT	2	0	13.00	0.00
NEW ERA SHIPPING LTD	2	0	10.00	0.00
NEW HORIZONS SHIP MANAGEMENT PVT LTD	1	0	3.00	0.00
OCEAN SPARKLE LTD	50	0	3.02	14.00
ORION AGENCIES PVT LTD., MUMBAI	1	0	5.00	0.00
PALLONJI SHIPPING	4	0	6.00	0.00
PENINSULAR MARITIME INDIA PVT LTD	3	0	10.00	0.00
Penta crystal ship management Pvt Ltd	1	0	3.00	0.00
PENUPOTHU SURYARAO	1	0	3.00	0.00
POLESTAR MARITIME LIMITED	1	0	5.00	0.00
PRAGATI MARINE SERVICES PVT . LTD.	1	0	20.00	0.00
Proactive Ship Management Pvt Ltd	3	0	8.00	0.00
QK MARINE SERVICES PVT LIMITED	1	0	7.00	0.00
QUADRANT MARITIME PVT LTD	1	0	13.00	0.00
RAJ SHIPPING AGENCIES LTD	6	0	4.33	0.00
Reliance Industries Ltd.	9	0	0.67	44.44
Reshamsingh Co. Pvt. Ltd.	1	0	6.00	0.00
S. S. Trading & Co.	1	0	7.00	0.00
SADHAV SHIPPING LTD, MUMBAI	1	0	5.00	0.00
SAI MARITIME AND MANAGEMENT PVT LTD. BELAPUR	1	0	3.00	0.00
SAMSON MARITIME LTD.	11	0	4.82	9.09
SANMAR SHIPPING LTD.	4	0	3.75	25.00
SARAT CHATTERJEE CO (VISAKHAPATNAM) PVT. LTD.	1	0	4.00	0.00
SCI	52	2	8.81	3.85
SDS OFF SHORE PVT LTD, MUMBAI	1	0	4.00	0.00
SEA SPARKLE HARBOUR SERVICES LTD	5	0	2.00	20.00
SEAMEC EXPRESS	2	0	6.00	0.00
Seamec Limited	1	0	5.00	0.00
SEAPORT SHIPPING PRIVATE LIMITED	2	0	4.00	0.00
SERVA SHANTI PROPERTIES PVT LTD	1	0	4.00	0.00
SEVEN ISLANDS SHIPPING LTD.	21	1	6.71	0.00
SHANTI SAGAR INTERNATIONAL DREDGING PVT LTD	2	0	3.50	0.00
Shree Laxmi Enterprises	1	0	6.00	0.00



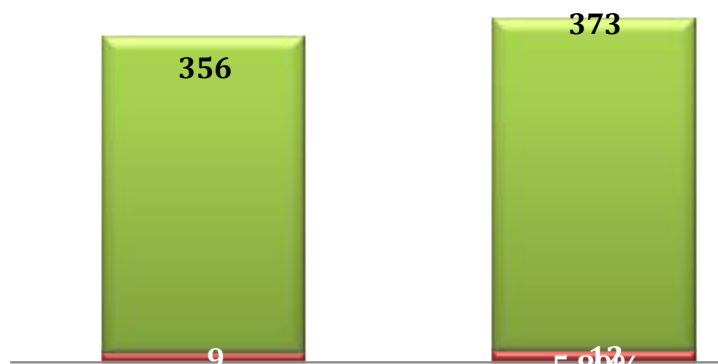
SHREEJI SHIPPING	2	0	3.00	50.00
SIMA MARINE INDIA PVT LTD	3	0	6.00	0.00
SPARKLE PORT SERVICES LTD	2	0	7.00	0.00
SS OFFSHORE	3	0	3.67	0.00
SSR MARINE SERVICES PVT LTD	2	0	8.00	0.00
Super Tug Offshore Services	1	0	15.00	0.00
SURYA SHAKTI	1	0	3.00	0.00
Sushe Marine Shipping Pvt Ltd	5	0	8.80	0.00
SVS MARINE	5	0	4.40	0.00
SYNERGY OCEANIC SERVICES INDIA PVT LTD.	7	0	4.86	14.29
T W SHIP management PVT LTD	1	0	3.00	0.00
TCI Seaways	6	0	6.00	0.00
Tebma Shipyard Ltd.	1	0	6.00	0.00
THE INDIA CEMENTS LTD	1	0	2.00	0.00
TIRUPATI VESSEL PVT. LTD.	1	0	6.00	0.00
TRADEX SHIPPING CO.PVT.LTD	1	0	28.00	0.00
TRANSTAR MARINE AND OFFSHORE SERVICES	1	0	5.00	0.00
TW SHIP MANAGEMENT PVT LTD	3	0	22.33	0.00
UNITED SHIPPERS LTD	2	0	4.50	0.00
VAMSEE SHIPPING CARRIER PVT LTD.	2	1	8.50	0.00
VAN OORD INDIA PVT LIMITED	3	0	3.33	0.00
VEDANT SHIP MANAGEMENT	3	0	6.00	0.00
VINAYAK MARINE SERVICES PVT LTD	2	0	6.00	0.00
VISION MARITIME PRIVATE LIMITED	4	0	3.25	0.00
VOC PORT TRUST	1	0	10.00	0.00
VONDUS LOGISTICS	1	0	4.00	0.00
ZEN SHIPPING & PORTS INDIA PVT LTD	2	0	12.50	0.00



Trend Analysis of Performance parameters: Inspections

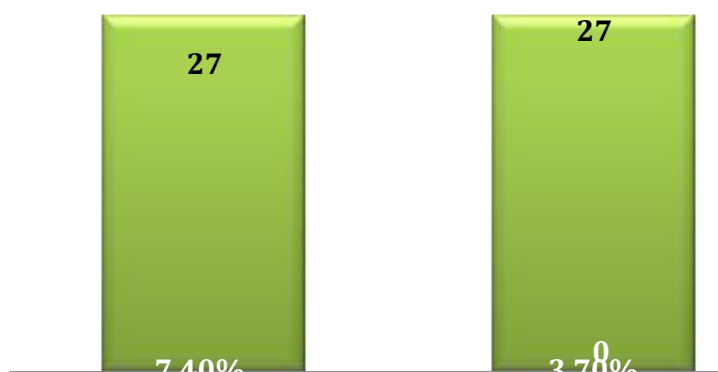
**Trends - Performance parameters: IRS
(Figure 15A)**

- Inspections with Nil deficiencies
- No. of Detentions
- No. of Inspections

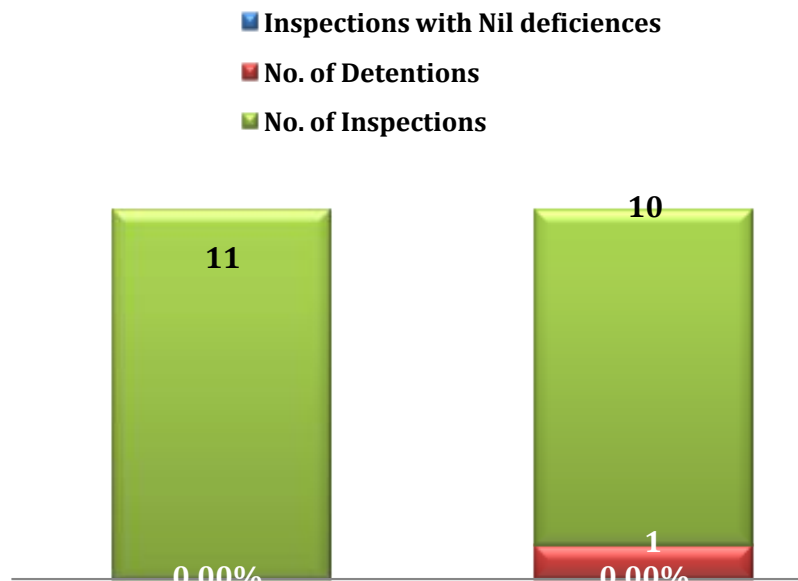


**Trends - Performance parameters: IRS-
ABS (Figure 15B)**

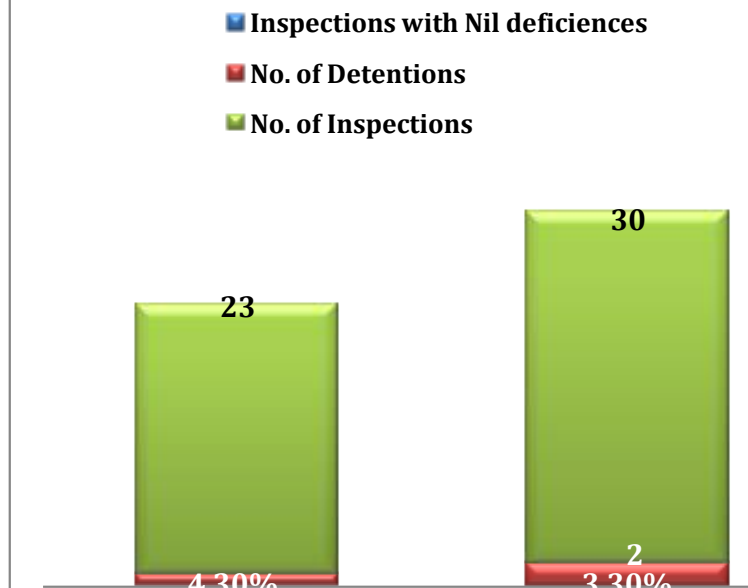
- Inspections with Nil deficiencies
- No. of Detentions
- No. of Inspections



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

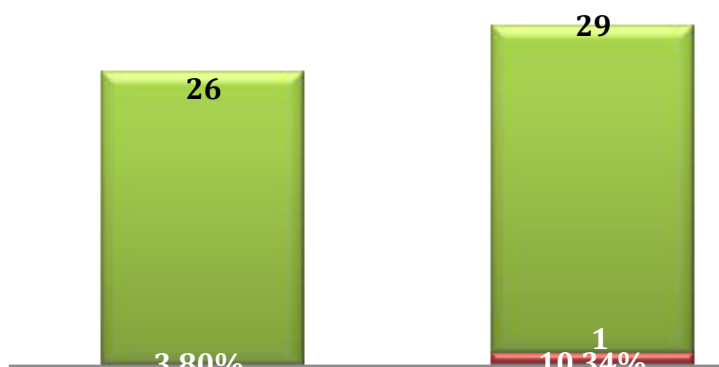


Trends - Performance parameters: IRS- DNV(Figure 15D)



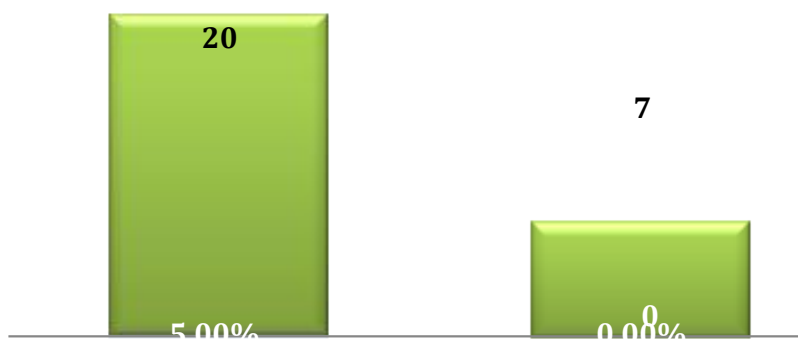
Trends - Performance parameters: IRS- LR (Figure 15E)

- Inspections with Nil deficiencies
- No. of Detentions
- No. of Inspections



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

- Inspections with Nil deficiencies
- No. of Detentions
- No. of Inspections



Trend analysis of Flag State Inspection Statistics

Table 10: Distribution of Deficiencies across Deficiency Codes

Nature Of Deficiencies	No. of Deficiencies	Percentage
01101 : Cargo Ship Safety Equipment (including exemption)	5	0.18
01102: Cargo Ship Safety Construction (including exempt.)	2	0.07
01104 : Cargo Ship Safety Radio (including exemption)	2	0.07
01105: Cargo Ship Safety (including exemption)	1	0.04
01107: Safety Management Certificate (ISM/SMC)	2	0.07
01113 : Minimum Safe Manning Document	32	1.14
01117 : International Oil Pollution Prevention (IOPP)	2	0.07
01118: Pollution Prevention by Noxious Liquid Substances in Bulk	1	0.04
01119 : International Sewage Pollution Prevention Cert.	1	0.04
01122 : International ship security certificate	1	0.04
01123 : Continuous synopsis record	18	0.64
01124: International Air Pollution Cert.	1	0.04
01125: Engine International Air Pollution Prevention Certificate	3	0.11
01127: Special Purpose Ship Safety	1	0.04
01128: High Speed Craft Safety and Permit to Operate	1	0.04
01131 : International Anti-fouling-System Certificate	3	0.11
01132 : Tonnage certificate	6	0.21
01134 : Other (certificates)	69	2.47
01201 : Certificates for master and officers	5	0.18
01202:Certificate for rating for watch keeping	3	0.11
01203 : Certificates for radio personnel	1	0.04
01204: Certificate for personnel on tankers	2	0.07
01205: Certificate for personnel on fat rescue boats	1	0.04
01209 : Manning specified by the minimum safe manning doc	7	0.25
01214 : Endorsement by Flag State	2	0.07
01215 :Application for Endorsement by Flag State	2	0.07
01216 : Other (STCW)	4	0.14
01217 : Ship Security Officer Certificate	1	0.04
01301: Cargo Gear Record Book	1	0.04
01304: Declaration of AFS compliance	1	0.04
01305 : Log-books/compulsory entries	45	1.61
01306: Schedules for watch keeping personnel	4	0.14
01307 : Tables of working hours	8	0.29
01308 : Records of rest	28	1.00
01309 : Fire control plan - all	8	0.29
01310 : Signs, indications	10	0.36



01311 : Survey report file	1	0.04
01314 : SOPEP	8	0.29
01315 : Oil record book	18	0.64
01320 : Garbage record book	11	0.39
01321: Endorsement of cargo booklet	1	0.04
01322 : Conformance Test Report	2	0.07
01323 : Fire safety operational booklet	5	0.18
01324 : Material Safety Data Sheets(MSDS)	18	0.64
02101 : Closing devices/watertight doors	7	0.25
02103 : Stability / strength / loading information and instruments	3	0.11
02105 : Steering gear	2	0.07
02106 : Hull damage impairing seaworthiness	3	0.11
02107 : Ballast, fuel and other tanks	5	0.18
02108 : Electrical installations in general	2	0.07
02110 : Beams, frames, floors-op. damage	3	0.11
02111: Beams, frames, floors-corrosion	8	0.29
02112 : Hull - corrosion	13	0.46
02113: Hull-cracking	2	0.07
02114 : Bulkhead -corrosion	3	0.11
02115: Bulkheads-operational damage	1	0.04
02117 : Decks - corrosion	31	1.11
02118:Decks-cracking	2	0.07
02120: Marking of IMO number	3	0.11
02122: Openings to cargo area, doors, ---scuttles	3	0.11
02123: Wheel house-door-window	1	0.04
02125: Spaces in cargo areas	4	0.14
02129 : Bulkhead strength	1	0.04
02131: Other (Bulk Carrier)	1	0.04
02133: Asbestos containing materials	1	0.04
03101: Overloading	1	0.04
03102 : Freeboard marks	9	0.32
03103 : Railing, gangway, walkway and means for safe passage	6	0.21
03104 : Cargo & other hatchways	9	0.32
03105 : Covers (hatchway-, portable-, tarpaulins, etc.)	12	0.43
03106 : Windows, side scuttles and deadlights	3	0.11
03107 : Doors	31	1.11
03108 : Ventilators, air pipes, casings	59	2.11
03109: Machinery space openings	16	0.57
03110: Manholes / flush scuttles	8	0.29
03111: Cargo ports and other similar openings	4	0.14
03112 : Scuppers, inlets and discharges	5	0.18



03113: Bulwarks and freeing ports	1	0.04
03115 : Other (load lines)	17	0.61
04101 : Public address system	11	0.39
04102 : Emergency fire pump and its pipes	18	0.64
04103 : Emergency, lighting, batteries and switches	30	1.07
04105: Location of emergency installations	5	0.18
04106 : Emergency steering position com./ compass reading	6	0.21
04107: Emergency towing arrangements and procedures	8	0.29
04108 : Muster list	7	0.25
04109: Fire drills	1	0.04
04110 : Abandon ship drills	14	0.50
04114 : Emergency source of power - Emergency generator	16	0.57
05101: Distress messages: obligations and procedures	2	0.07
05102 : Functional requirements	1	0.04
05105: MF/HF Radio installation	5	0.18
05106: INMARSAT ship earth station	1	0.04
05109 : VHF radio installation	6	0.21
05110 : Facilities for reception of marine safety inform.	1	0.04
05111 : Satellite EPIRB 406MHz/1.6GHz	3	0.11
05112 : VHF EPIRB	1	0.04
05113: SART / AIS- SART	7	0.25
05114: Reserve source of energy	5	0.18
05115 : Radio log (diary)	7	0.25
05118 : Operation of GMDSS equipment	3	0.11
06105 : Other (cargo)	7	0.25
06106 : Cargo transfer - Tankers	7	0.25
06107 - Cargo operation	6	0.21
07101: Fire prevention structural integrity	1	0.04
07102: Inert gas system	1	0.04
07105 - Fire doors/openings in fire-resisting divisions	16	0.57
07106 : Fire detection and alarm system	25	0.89
07107: Fire patrol	1	0.04
07108: Ready availability of firefighting equipment	7	0.25
07109: Fixed fire extinguishing installation	20	0.71
07110 : Firefighting equipment and appliances	49	1.75
07111 : Personal equipment for fire safety	2	0.07
07112: Emergency Escape Breathing Device and disposition	6	0.21
07113 : Fire pumps and its pipes	45	1.61
07114: Remote Means of control (opening, pumps, ventilation etc) machinery spaces	14	0.50
07115 : Fire-dampers	7	0.25



07116: Ventilation	11	0.39
07118: International shore-connection	1	0.04
07119 : Other (fire safety)	54	1.93
07120 : Means of escape	12	0.43
07121: Crew alarm	1	0.04
07122 : Fire control plan	4	0.14
07124: Maintenance of Fire protection systems	4	0.14
07125: Evaluation of crew performance (fire drills)	2	0.07
08103 : Fire alarm	5	0.18
08107 : Machinery controls alarm	3	0.11
08111 : Other (alarms)	14	0.50
09102 : Dirty, parasites	2	0.07
09103: Ventilation (Accommodation)	18	0.64
09106 : Sanitary Facilities	18	0.64
09107: Drainage	2	0.07
09108: Lighting (Accommodation)	3	0.11
09109: Pipes, wires (insulation)	4	0.14
09110: Electrical devices	2	0.07
09111: Sickbay	4	0.14
09112 - Medical Equipment	8	0.29
09113: Access / structure	4	0.14
09114: Sleeping room	1	0.04
09116 : Furnishings	4	0.14
09123 : Other (crew and accommodation)	19	0.68
09124: Galley, handling room (maintenance)	9	0.32
09125: Ventilation	2	0.07
09126: Lighting	2	0.07
09127: Cleanliness	12	0.43
09128: Provisions quantity	2	0.07
09130: Water, pipes, tanks	4	0.14
09132: Cold room temperature	2	0.07
09133: Cold room cleanliness	1	0.04
09134: Food personal hygiene	1	0.04
09137: Record of inspection	1	0.04
09201 : Ventilation (Working spaces)	16	0.57
09203 : Lighting (Working spaces)	22	0.79
09205 : Safe means of access Shore - Ship	8	0.29
09206: Safe means of access Deck- hold / tank, etc.	3	0.11
09207 : Obstruction/slipping, etc.	22	0.79
09208 : Protection machinery	10	0.36
09209 : Electrical	77	2.75



09210 : Machinery	32	1.14
09211: Steam pipes and pressure pipes	34	1.21
09212: Danger areas	1	0.04
09213: Gas instruments	6	0.21
09215: Other (working space ILO)	16	0.57
09216 - Personal equipment	7	0.25
09217: Warning notices	13	0.46
09218: Protection equipment	6	0.21
09219 : Pipes, wires (insulation)	19	0.68
09220: Structural features (ship)	2	0.07
09221 : Entry dangerous spaces	4	0.14
09222 : Other (accident prevention)	71	2.54
09223 - Gangway, accommodation-ladder	12	0.43
09225 - Loading and unloading equipment	6	0.21
09226: Holds and tanks safety	1	0.04
09227: Ropes and wires	2	0.07
09228 : Anchoring devices	17	0.61
09229 - Winches & capstans	20	0.71
09231 - Other (mooring)	34	1.21
09232: Cleanliness of engine room	42	1.50
09233: Guards- fencing around dangerous machinery parts	9	0.32
10101: Pilot ladders and hoist / pilot transfer arrangements	1	0.04
10103: Radar	8	0.29
10104: Gyro compass	2	0.07
10105 : Magnetic compass	27	0.96
10109 : Lights, shapes, sound-signals	30	1.07
10110 : Signaling lamp	22	0.79
10111 : Charts	21	0.75
10112: Electronic charts (ECDIS)	4	0.14
10113: Automatic Identification System (AIS)	6	0.21
10114 - Voyage data recorder (VDR)/Simplified Voyage data recorder	6	0.21
10116 - Nautical publications	66	2.36
10117: Echo Sounder	7	0.25
10118: Speed and distance indicator	2	0.07
10126: Record of drills and test steering gear	1	0.04
10127: Voyage or passage plan	5	0.18
10128: Navigation bridge visibility	2	0.07
10129: Navigation records	7	0.25
10130: Other (navigation)	39	1.39
10133: Bridge Operation	2	0.07
10135: Monitoring of voyage or passage plan	1	0.04



10137: Long range identification and tracking system (LRIT)	2	0.07
11101: Lifeboats	30	1.07
11102: Lifeboat inventory	2	0.07
11103: Stowage and provision of Lifeboats	1	0.04
11104 : Rescue boats	31	1.11
11105: Rescue boat inventory	1	0.04
11108: Inflatable life rafts	17	0.61
11109 : Rigid life rafts	1	0.04
11110: Stowage and provision of life rafts	6	0.21
11112: Launching arrangements for survival craft	7	0.25
11113: Launching arrangements for rescue boats	7	0.25
11115: Means of rescue	2	0.07
11116: Distress flares	5	0.18
11117 : Lifebuoys incl. provision and disposition	33	1.18
11118 : Lifejackets incl. provision and disposition	11	0.39
11119: Immersion suits	4	0.14
11122: Radio life-saving appliances	1	0.04
11123: Emergency equipment for 2-way comm.	3	0.11
11124: Embarkation arrangement survival craft	4	0.14
11125: Embarkation arrangements rescue boats	1	0.04
11128 : Line-throwing appliance	3	0.11
11129:Operational readiness of lifesaving appliances	5	0.18
11131 : On board training and instructions	39	1.39
11132: Maintenance and inspections	6	0.21
11133: Other (life saving)	34	1.21
11134: Operation of Life Saving Appliances	3	0.11
11135: Maintenance of Life Saving Appliances	5	0.18
13101: Propulsion main engine	31	1.11
13102: Auxiliary engine	46	1.64
13103: Gauges, thermometers, etc.	30	1.07
13104: Bilge pumping arrangements	4	0.14
13106: Insulation wetted through (oil)	6	0.21
13107 : Other (machinery)	39	1.39
13108: Operation of machinery	20	0.71
13109: Manuals, instructions, etc.	1	0.04
14101: Control of discharge	4	0.14
14102 - Retention of oil on board	17	0.61
14104: Oil filtering equipment	5	0.18
14105: Pumping, piping and discharge arrangements	6	0.21
14107: Oil disch. Monitoring and control system	3	0.11
14108: 15 PPM Alarm arrangements	3	0.11



14110: Standard disch. conn	1	0.04
14118: Other (MARPOL Annex I)	19	0.68
14119: Oil and oily mixtures from machinery spaces	5	0.18
14122: Oil fuel tank protection	1	0.04
14123: Accidental oil outflow performance	1	0.04
14402 :Sewage treatment plant	14	0.50
14403 : Sewage commuting and disinfecting system	3	0.11
14404: Sewage discharge connection.	6	0.21
14405 :Other (MARPOL Annex VI)	15	0.54
14501: Garbage	38	1.36
14502 : Placards	13	0.46
14503 - Garbage management plan	18	0.64
14504: Other MARPOL Annex VI	9	0.32
14601: Technical files and if applicable, monitoring manual	5	0.18
14604 : Bunker delivery notes	4	0.14
14607: Quality of fuel oil	1	0.04
14608: Incinerator incl. operations and operating manual	4	0.14
15102: Company responsibility and authority	8	0.29
15103: Designated Person(s)	1	0.04
15104: Masters responsibility and authority	1	0.04
15105: Resources and personnel	19	0.68
15106: Shipboard operations	2	0.07
15107 - Emergency preparedness	3	0.11
15108: Reports of non-conf., accidents & hazardous occurrence.	2	0.07
15109: Maintenance of the ship and equipment.	10	0.36
15110: Documentation - ISM	10	0.36
15111: Company verification, review and evaluation	3	0.11
15112 : Certification, verification and control	7	0.25
15113: Other (ISM)	10	0.36
16101: Security related defects	6	0.21
16103: Ship Security Plan	2	0.07
16104: Ship Security officer	1	0.04
16105: Access control to ship	7	0.25
16106: Security drills	1	0.04
16107: Other (maritime security)	4	0.14
17101: Other safety in general	49	1.75
17102: Other (SOLAS operational)	8	0.29
17103: Other (MARPOL operational)	2	0.07
Total	2799	100.00



**Areas with more than 2% deficiencies
(Figure 16)**

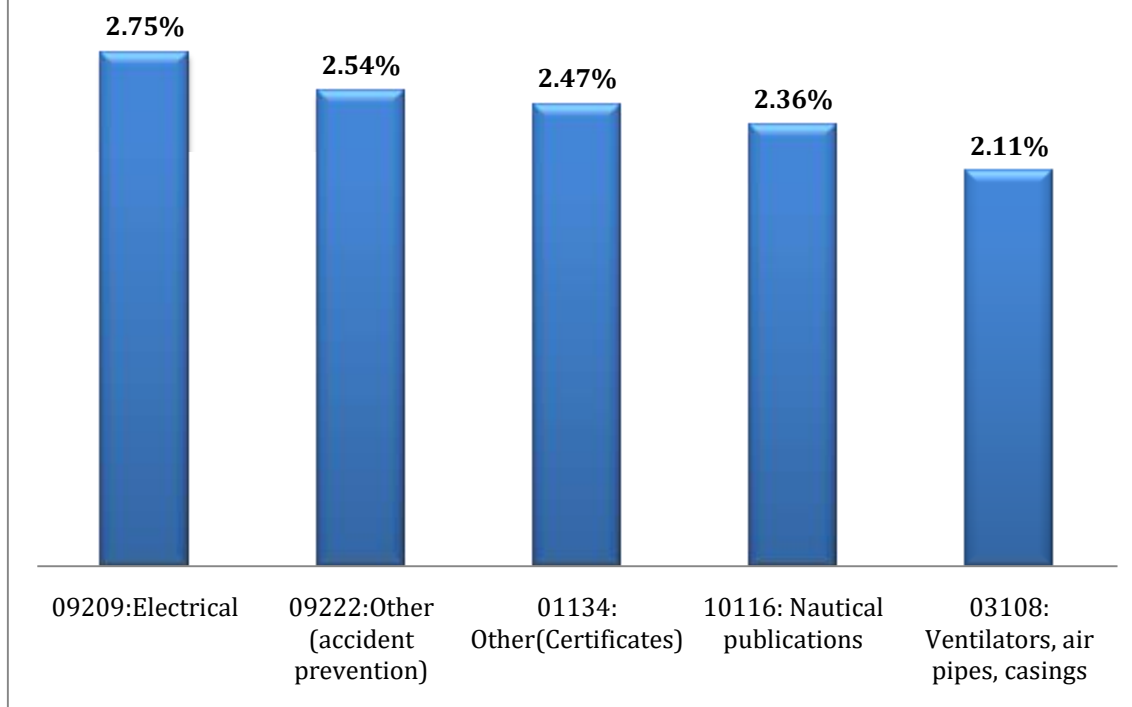


Table11 : List of Ships detained under FSI for 2019

Sr. No.	IMO Number	Gross Tonnage	Particulars of Company	Ship Name	Year Built	Ship Type	Classification Society	Date of Inspection
1	9624017	33032	SCI	VISHVA MALHAR	2011	bulk carrier	IRS-BV	09.01.2019
2	9464742	33170	SCI	VISHVA NIDHI	2011	bulk carrier	DNV	23.05.2019
3	9521576	4607	MERCATOR LIMITED, MUMBAI	OMKARA PREM	2008	other types of ship	IRS	30.05.2019
4	9124691	999	VAMSEE SHIPPING CARRIER PVT LTD.	M.T.VAMSEE	1995	oil tanker	IRS	01.06.2019
5	9157181	1316	AMBA SHIPPING	VIVEK PREM	1997	other types of ship	IRS	08.07.2019
6	9215531	458	A.K.SHIP MANAGEMENT	SEAWAYS 9	1999	other types of ship	IRS	10.07.2019
7	8304799	3700	IGOPL	WILCHIEF 1	1984	other types of ship	DNV	26.07.2019
8	8308513	1310	ALBATROSS MARINE SERVICES	ALBATROSS 07	1985	other types of ship	IRS	29.07.2019
9	9691383	470	QK MARINE SERVICES PVT LIMITED	VIHAAN	2015	tugboat	IRS	01.08.2019
10	8822997	163	AMAZE MARITIME SERVICES PRIVATE LIMITED	MAHI	1982	other types of ship	IRS	08.08.2019
11	8323393	17612	SEVEN ISLANDS SHIPPING LTD.	ORCHIDS	1986	other types of ship	IRS	21.09.2019
12	8654675	1691	JSW STEEL SALAV LTD	RADHA KRISHNA II	1996	other types of ship	IRS	13.10.2019
13	8873439	119	Delta Maritime	RAAVI	1981	other types of ship	IRS	17.11.2019
14	9082049	1594	FAIRWAY BARGE OPERATORS PVT LTD. GOA	ANUSHREE	1993	general cargo/multi-purpose ship	IRS	21.11.2019
15	9116383	28414	Dawn shipping Pvt ltd	DAWN MADURAI	1996	oil tanker	IRS	03.12.2019
16	9321952	29909	GESCO	JAG PRERANA	2007	other types of ship	IRS-LR	04.12.2019



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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



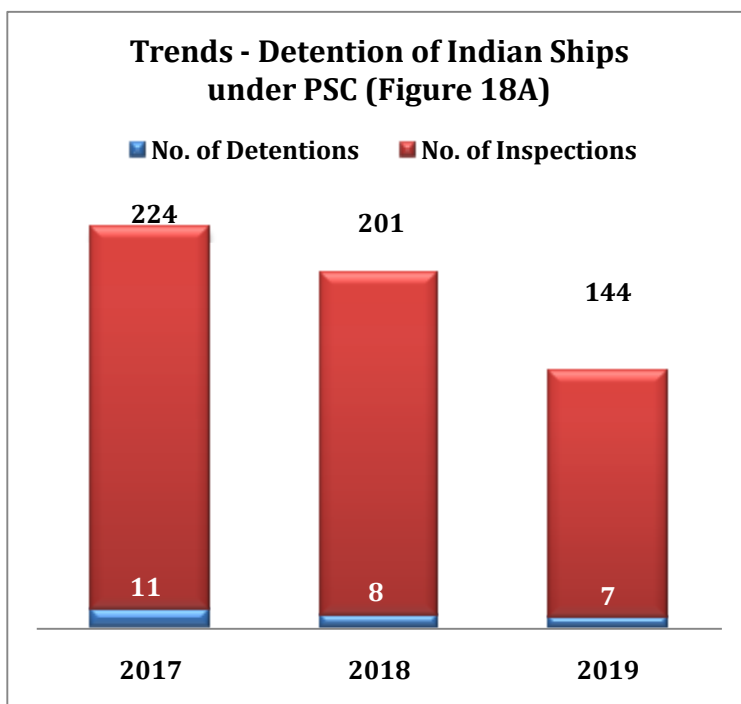
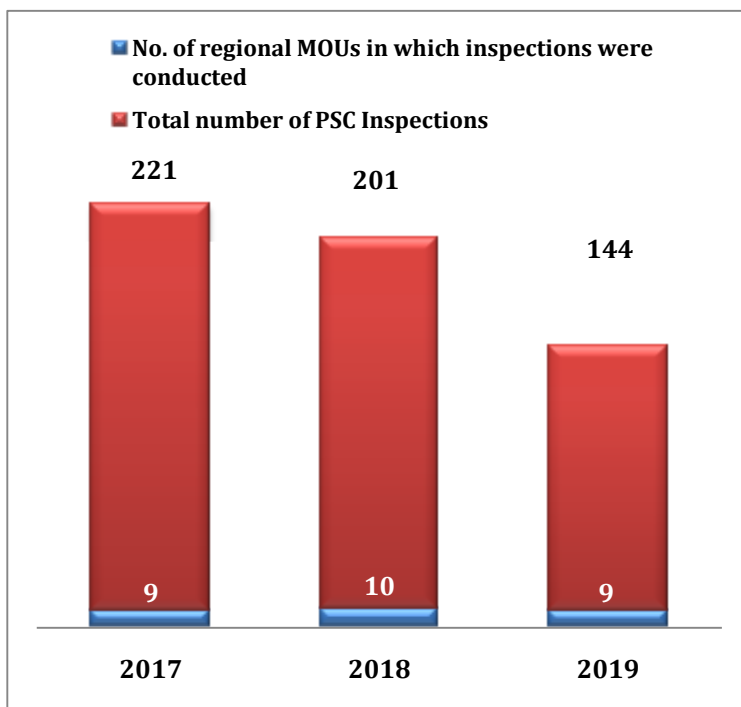
There were a total of 144 inspections in 9 PSC regimes worldwide and 4 inspections in other PSC regime. These vessels are managed by about 25 Indian companies holding Indian DOC. Nearly 56 out of 144 inspections (constituting about 39% of all the inspections) were conducted in TOKYO PSC regime.

Compared to 8 detentions in 2018, there were 07 detentions in 2019; however, in terms of detention rate, it constituted 4.86 % detention rate compared to 3.98% in 2018. There were 5 detentions each in Tokyo MOU region with a detention rate of 8.98%. The 144 inspections resulted in about 354 deficiencies, that is about 2.45 deficiencies per vessel. 52.77% of all inspected vessels resulted in nil deficiencies.



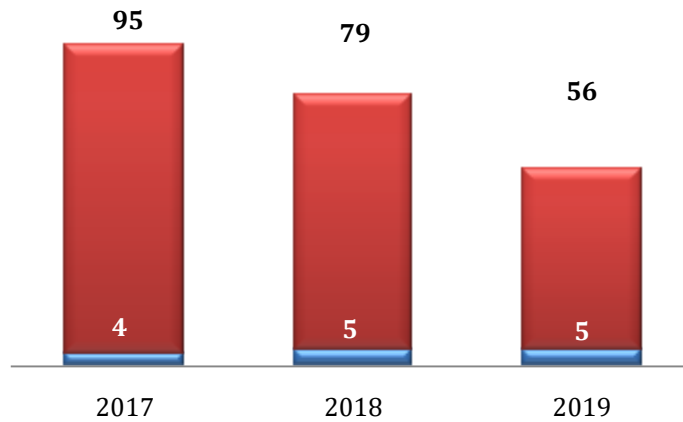
Detention and Detention Trends of Indian Ships

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



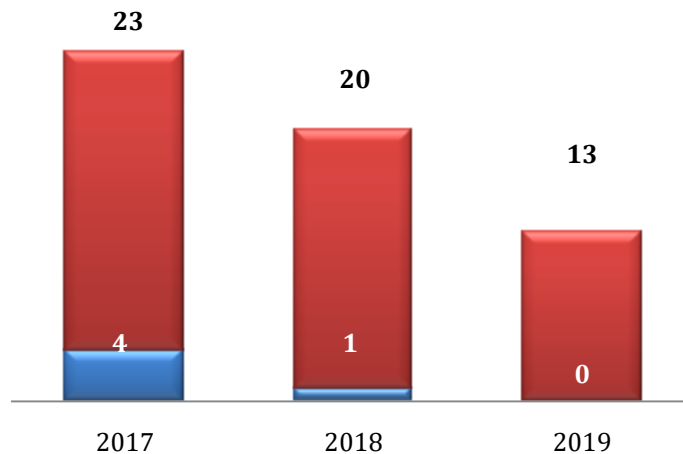
**Trends - Detention of Indian Flag
Vessels inspected in
Tokyo MoU (Figure 18B)**

■ No. of Detentions ■ No. of Inspections



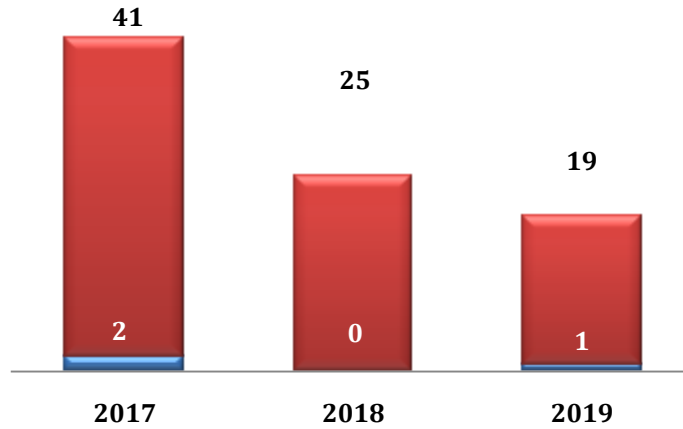
**Trends - Detention of Indian Flag
Vessels inspected in
Paris MoU (Figure 18C)**

■ No. of Detentions ■ No. of Inspections



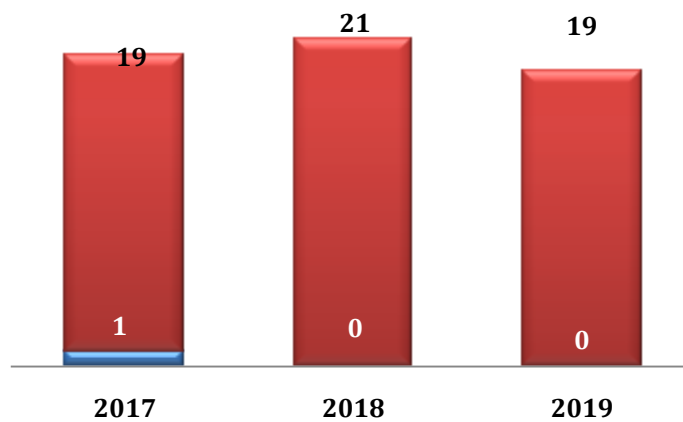
**Trends - Detention of Indian Flag
Vessels inspected in
Riyadh MoU (Figure 18D)**

■ No. of Detentions ■ No. of Inspections



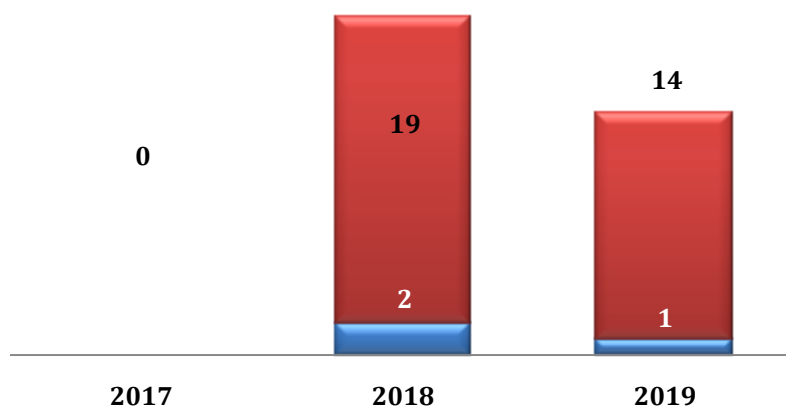
**Trends - Detention of Indian Flag
Vessels inspected in
USCG (Figure 18E)**

■ No. of Detentions ■ No. of Inspections



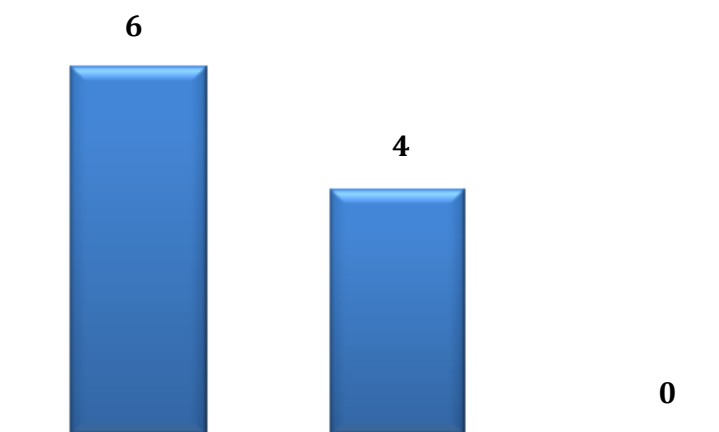
Trends - Detention of Indian Flag Vessels inspected in IOMOU (Figure 18F)

■ No. of Detentions ■ No. of Inspections



Trends - Detention of Indian Flag in Other Regional PSC Regimes (Figure 18G)

■ No. of Detentions



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	100%
Black Sea MOU	4	0	3.25	25%
IOMOU	14	1	3.71	28.57%
MED-MOU	5	0	3	60%
Paris MOU	13	0	0.69	92.3%
Riyadh MOU	19	1	1.63	68.42%
Tokyo MOU	56	5	3.37	30.35%
USCG	19	0	0.89	63.15%
VINA-DEL-MAR MOU	11	0	1.18	63.63%
Total	144	7	2.27	52.77%

Note: The data obtained is from the reports uploaded by the Owners in FSI DGS website.



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	19	0	0.94	68.42%
6-15 Years	111	3	2.22	52.72%
16-25 Years	17	3	5.05	23.53%
More than 25 years	1	1	6	0

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	0.92	64.28%
6-15 Years	62	03	2.85	38.7%
16-25 Years	7	2	6.71	0
More than 25 years	0	0	0	0

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	0	0	0
6-15 Years	8	0	2.87	50%
16-25 Years	0	0	0	0
More than 25 years	0	0	0	0

Table 13D : 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	0	0	0
6-15 Years	0	0	0	0
16-25 Years	1	0	4	0
More than 25 years	0	0	0	0



Table 13E : 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	0	0	0
6-15 Years	1	0	0	100%
16-25 Years	2	0	0	100%
More than 25 years	0	0	0	0

Table 13F : 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	0	0	0	0
6-15 Years	8	0	2.25	50%
16-25 Years	0	0	0	0
More than 25 years	0	0	0	0

Table 13G : 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	5	0	1	80%
6-15 Years	29	0	86.2	79.3%
16-25 Years	4	0	5	25%
More than 25 years	1	1	6	0

Table 13H : 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	0	0	0
6-15 Years	2	0	1	50%
16-25 Years	0	0	0	0
More than 25 years	0	0	0	0



Table 13I : Age based Performance of General Cargo Vessels/Multi purpose Ship

Type of Vessel and Age Bracket	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
0-5 Years	0	0	0	0
6-15 Years	1	0	0	100%
16-25 Years	3	1	5	33.33%
More than 25 years	0	0	0	0

Table 14: Performance of Recognized Organizations

Recognized Organization	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
IRS	38	3	2.42	57.89%
IRS/ ABS	30	0	1	70%
IRS/ BV	10	2	6.5	10%
IRS/ DNV	22	1	3.27	45.45%
IRS/ LR	34	1	2.11	44.11%
IRS/ NKK	14	0	1.64	50%

Trends - Detention by ROs (Figure 19)

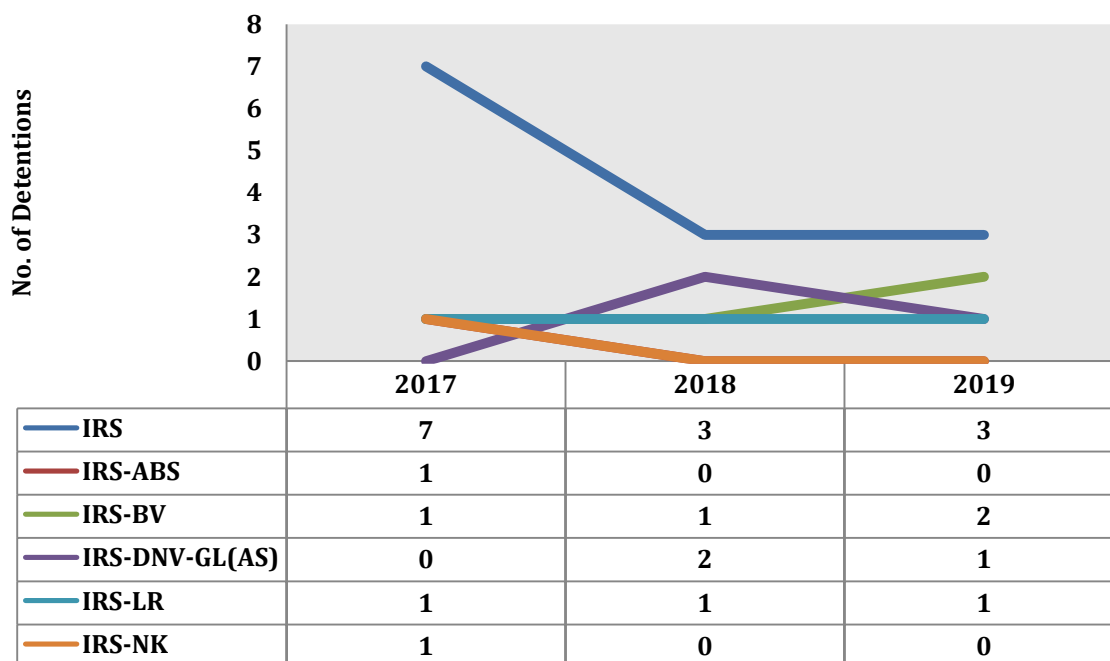


Table 15: Performance of Indian DOC Holders

Company	Number of Inspections	Number of Detentions	Avg. Deficiency Index	Nil-Deficiency Rate
ASP Ship Management	4	0	0.25	75%
AZA SHIPPING PVT. LTD	2	0	3	0%
FIVE STARS SHIPPING CO.PVT.LTD	8	0	1.12	71.42%
Fleet management India Pvt Ltd	14	0	1.93	50%
Greatship India Pvt Ltd	2	0	1	50%
GU Ocean Pvt. Ltd.	1	0	4	0%
INTEGRITYSHIPS PVT LTD	1	1	6	0%
K Steamship Agencies Pvt Ltd	1	0	10	0%
PACIFIC INTERNATIONAL LINES	1	0	4	0%
PENTA CRYSTAL SHIP MANAGEMENT PVT LTD	1	0	2	0%
Sai Maritime and Management Pvt Ltd	1	1	12	0%
SANMAR SHIPPING LTD	1	0	8	0%
SEAVANTEK SHIPPING SERVICES PVT LTD	1	1	3	0%
SEAVIE PRIVATE LIMITED	3	0	3.66	33.3%
Synergy Oceanic Services India Pvt. Ltd.	1	0	0	100%
T-ERUDITE SHIP MANAGERS PVT. LTD	1	0	0	100%
THE GREAT EASTERN SHIPPING CO. LTD	61	0	1.01	75.4%
THE SHIPPING CORPORATION OF INDIA LTD	28	2	4.07	17.85%
TOLANI SHIPPING CO. LTD	13	1	2.92	30.76%
TW Ship Management Pvt Ltd	2	0	2	50%
VAN OORD INDIA PRIVATE LIMITED	1	0	0	100%



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

Sr. No	Ship Name	Ships Certificates	Load Lines	SOLAS	ILO	MARPOL	STCW	ISM	ISPS	Others	Total
1	PRABHU PUNI	0	0	1	0	0	0	0	0	0	01
2	VISHVA VIJETA	0	0	1	0	0	0	1	0	0	02
3	GEM OF ENNORE	0	0	0	0	2	0	0	0	0	02
4	SAI SUNSHINE	0	0	1	0	0	0	0	0	0	01
5	NAVDHENU PURNA	0	0	3	0	0	0	0	0	0	03
6	VISHVA EKTA	0	0	2	0	0	0	0	0	0	02
7	ARK PIONEER	0	0	1	0	1	0	0	0	0	02
TOTAL :											13



Description of detainable deficiencies by category

S.No.	Code	Description
1	07103-Divisions-decks, bulkheads and penetrations	Fire proof material on the bulkhead between paint store and fire station broken and fall off in area more than 1 cu.m
2	07106- Fire Detection and alarm system	Fire safety on bridge not working
3	07113-Fire pumps and its pipes	Heat insulation material on suction pipe of Emergency pump in E/R was missing.
4		
5	07116-Ventilation	Air vent damper to engine room unable to close.
6	07116- Ventilation	Air pipe of waste oil tank removed.
7	08111-Other (alarms)	The flame failure alarm for incinerator out of order.
8	11104- Rescue boats	The rescue boat engine found unable to be started during inspection.
9	11113-Launching arrangements for rescue boats	Davit in Rescue boat is not working
10	13102-Auxiliary engine	Diesel generators without drain
11	14118-Other (MARPOL Annex I)	Chief Engineer is not familiar with the OWS and 3-way valve cannot be closed tight after activation of 15 ppm alarm.
12	14402-Sewage Treatment Plant	Sewage Treatment Plant not operational
13	15109-Maintenance of the ship and equipment	Deficiencies noted during inspection evidenced for ISM failure.



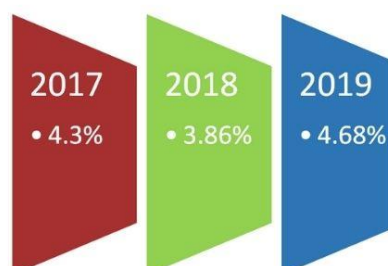
List of Indian Flag Ships detained under Port State Control for 2019

Sr No	IMO No	Ships Name	Name of the owners	Year of Build	Type of Ship	GT	RO	Place of Inspection	Date of Inspection	MoU
1	9224037	PRABHU PUNI	TOLANI SHIPPING CO. LTD	2002	Bulk Carrier	40002	IRS-LR	Panjang	22.01.2019	Tokyo
2	9621699	VISHVA VIJETA	THE SHIPPING CORPORATION OF INDIA LTD	2011	Bulk Carrier	33032	IRS-BV	Qinzhou	07.05.2019	IOMOU
3	9206009	GEM OF ENNORE	PENTA CRYSTAL SHIP MANAGEMENT PVT LTD	2000	Bulk Carrier	39749	IRS	TIANJIN	03.06.2019	Tokyo
4	9161194	SAI SUNSHINE	Sai Maritime and Management Pvt Ltd	1999	General Cargo	13066	IRS-BV	Sohar	26.09.2019	IOMOU
5	9339765	NAVDHENU PURNA	SEAVANTEK SHIPPING SERVICES PVT LTD	2005	Bulk Carrier	29961	IRS	China	13.08.2019	Tokyo
6	9487897	VISHVA EKTA	THE SHIPPING CORPORATION OF INDIA LTD	2012	Bulk Carrier	33185	IRS-DNV	King Abdul Aziz Port,Dammam	12.11.2019	Riyadh
7	9017678	ARK PIONEER	INTEGRITYSHIPS PVT LTD	1992	Oil tanker	4526	IRS	TELUK BAYUR	17.12.2019	IOMOU



ANNUAL REPORT 2019

Detention trends in PSC Inspections



Inspection trends in PSC Inspections



Detention trends in Flag State Inspections

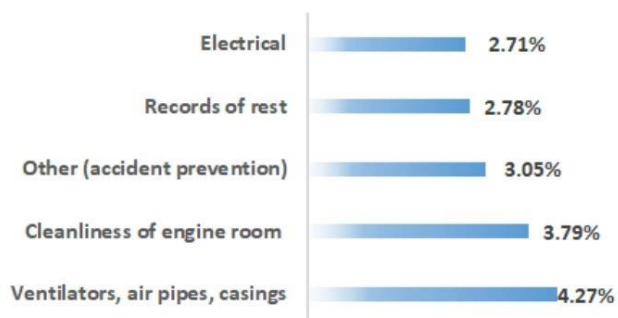


Inspection trends in Flag State Inspections

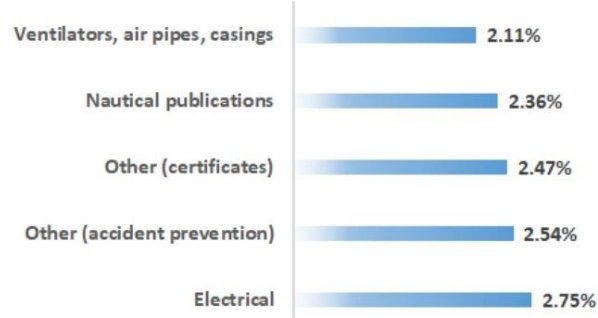


Top 5 deficiency categories

PSC



FSI





Further information may be obtained from:

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Directorate General of Shipping**

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I-Think Techno Campus,
Kanjurmarg (East),
Mumbai - 400 042 (India)

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