

STCW ANNUAL REPORT 2024

(ENGINEERING)



Examination, Assessment & Certification Branch
Engineering Wing
Directorate General of Shipping,
Ministry of Ports, Shipping & Waterways,
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Message from the Director General of Shipping

It is with great satisfaction that I present the Annual Report 2024 on the Examination, Assessment, and Certification (EAC) activities undertaken by the Engineering Wing of the Directorate General of Shipping. This report captures the evolving landscape of India's maritime examination and certification regime, underscoring the commitment of the Directorate to modernize and reform its systems in line with international best practices.



The year 2024 marks the beginning of a transformative phase in the conduct of maritime examinations. With the strategic support of premier institutions such as the National Testing Agency (NTA) and the Centre for Development of Advanced Computing (CDAC), the Directorate is implementing an end-to-end digitalized solution that will redefine the examination ecosystem. This reform initiative aims to enhance transparency, efficiency, and fairness in the conduct of Certificate of Competency (CoC) and Certificate of Proficiency (CoP) examinations.

One of the core pillars of this reform is the integration of simulator-based assessment into the CoC examination framework. This initiative will ensure a more accurate evaluation of a candidate's operational competence and decision-making ability in real-world maritime scenarios. Furthermore, modernization of the Exit Examinations for pre-sea and advanced STCW courses conducted by Maritime Training Institutes (MTIs) is in progress. The Directorate envisions a robust and standardised assessment model that ensures uniformity in the quality of maritime training across the country.

In addition, efforts are underway to reform the current e-Learning ecosystem to better reflect the contemporary needs of the maritime industry. The aim is to ensure that digital learning platforms are aligned with technological advancements and the evolving skill requirements of seafarers, thereby supporting continuous learning and competency development.

India's seafarer examination and certification system continues to be globally acknowledged for its rigour, integrity, and quality. It is rated among the finest in the world, producing marine engineering professionals who are highly regarded across international fleets. The Directorate remains committed to maintaining and enhancing this global standing through a future-ready examination system.

This progressive engagement with digital tools, institutional partnerships, and modern pedagogical approaches reflects the Directorate's commitment to continual improvement and alignment with the standards prescribed under the STCW Convention. The collaboration with NTA and CDAC is not

only a technological intervention but also a governance reform aimed at upholding the credibility and global recognition of India's maritime certifications.

I commend the EAC Branch of the Engineering Wing for their foresight and tireless efforts in steering these vital reforms. These initiatives will serve to reinforce India's position as a leading provider of competent maritime professionals to the global shipping industry.

Sd/-

Shri. Shyam Jagannathan, IAS
Director General of Shipping &
Additional Secretary to the Government of India



Preface by the Chief Examiner of Engineers

The Annual Report 2024 of the Examination, Assessment, and Certification (EAC) Branch of the Engineering Wing presents a comprehensive overview of the conduct and outcomes of engineering stream examinations undertaken during the year, in accordance with the STCW Convention. The report highlights key trends in certification, performance analysis, and institutional engagement aimed at strengthening the quality and credibility of India's maritime examination system.



The year 2024 witnessed a marked increase in the overall number of Certificates of Competency (CoC) and Certificates of Proficiency (CoP) issued across various grades. This upward trend reflects the sustained interest and trust of maritime professionals in the Indian certification framework, which is globally recognised for its robustness, transparency, and integrity.

India's maritime certification system has earned a strong international reputation for its rigorous assessment procedures, structured compliance with global standards, and its emphasis on competence-based evaluation. The credibility of our examinations has enabled Indian-certified marine engineers and electro-technical officers to serve with distinction in the global fleet, reinforcing India's standing as a premier provider of quality seafarers.

In addition to reporting certification statistics, the present report offers performance insights across Maritime Training Institutes (MTIs), enabling strategic improvements in examination delivery and training quality. These analytics form the basis for benchmarking institutional outcomes and guiding future reforms.

2024 also marked significant progress in examination reform initiatives. With the active support of the National Testing Agency (NTA) and CDAC, the Directorate is moving towards a fully digitalised, end-to-end examination ecosystem. Efforts are underway to integrate simulator-based assessments for enhanced competence testing and to modernize the exit examinations for STCW courses. Reforms are also being considered to strengthen the e-Learning platforms to better reflect current industry requirements.

I would like to express my deep appreciation to all Examiners, MTIs, and administrative personnel whose commitment and professionalism sustain the high standards of our examination process. Equally, I commend the examinees—the aspiring and serving marine engineers—whose dedication and perseverance are the foundation of our system's success.

My heartfelt congratulations to all who attained certification this year and best wishes to those preparing for their assessments in the future. The pursuit of maritime excellence is a collective effort, and the EAC Branch remains steadfast in its mission to support this goal.

Sd/-

Shri.Ajithkumar Sukumaran
Chief Examiner of Engineers
Directorate General of Shipping
Government of India



It is with great satisfaction that I present this Annual Report on the activities of the Examination, Assessment and Certification Branch, of the Engineering Wing during the year 2024. The year was witness to an appreciable rise in the number of Certificates issued to the seafarers as is seen from this report.



As every year, the challenges we faced was the consistent conduct of monthly examinations and the timely declaration of results. The smooth execution of this cycle, from question paper setting and secure distribution to evaluation and result processing demand meticulous planning, coordination, and unwavering commitment from all stakeholders. Despite these challenges, we have strived to uphold the principles of fairness, transparency, and academic rigor. Further, in our endeavour to create a more reliable, resilient, end-to-end examination system, several key initiatives such as digitizing the process, enhancing security measures, and promoting accountability are being developed which should surely provide a better platform for the seafarers in the coming months.

As we move forward, we remain committed to further strengthening our processes through the adoption of technology, policy enhancements, and stakeholder feedback. We hope this report serves not only as a record of our performance but also as a foundation for continuous improvement.



Sd/-
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1. ANALYSIS OF CERTIFICATE OF COMPETENCY (CoC) EXAMINATIONS – 2024





1.1 MEO Class I Examination

The Marine Engineer Officer (MEO) Class I examinations are held every month, except for the month of May each year. The same was followed in the year 2024 at the examination centres located in Chennai, Kochi, Kolkata and Mumbai. The examination comprises of one written examination, viz. Engineering management and one oral function. The STCW Code's section A-III/2 outlines the minimum standard of competence for Chief engineers on ships with main propulsion machinery of 3,000 KW or more.

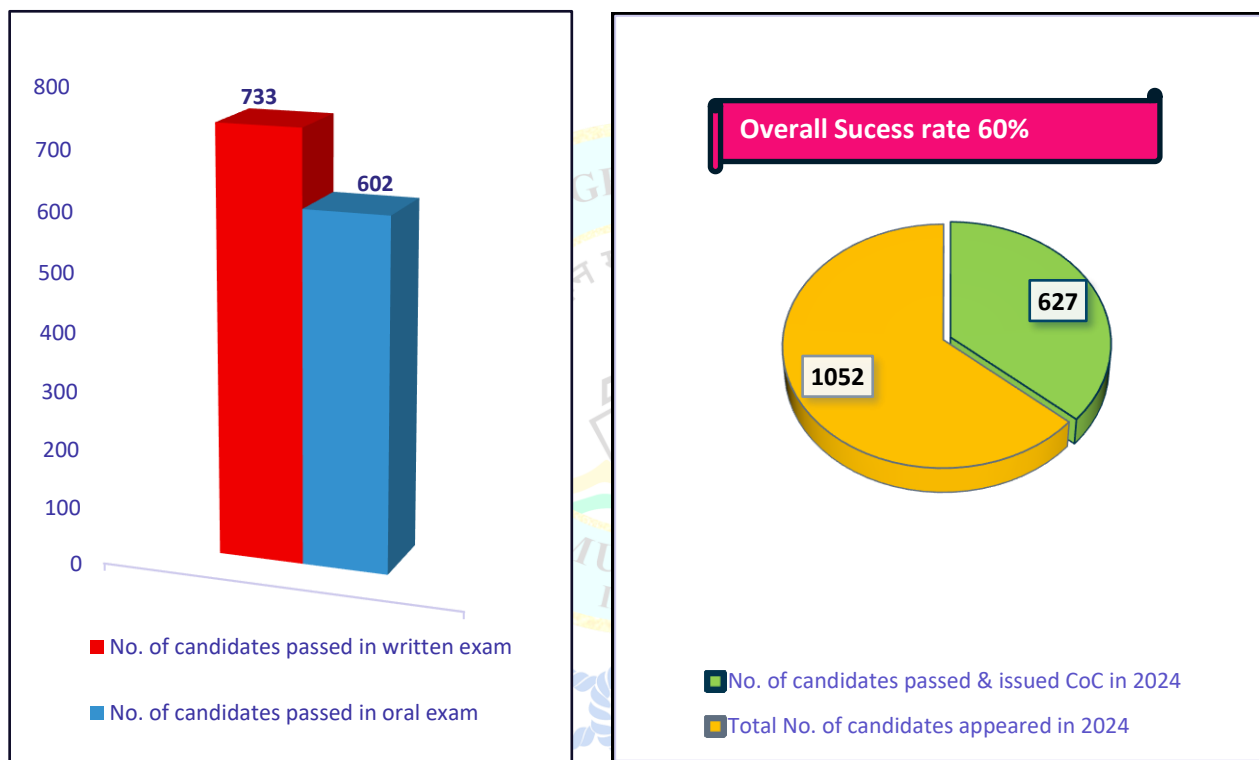


Fig.1: MEO Class I exam data for the year 2024

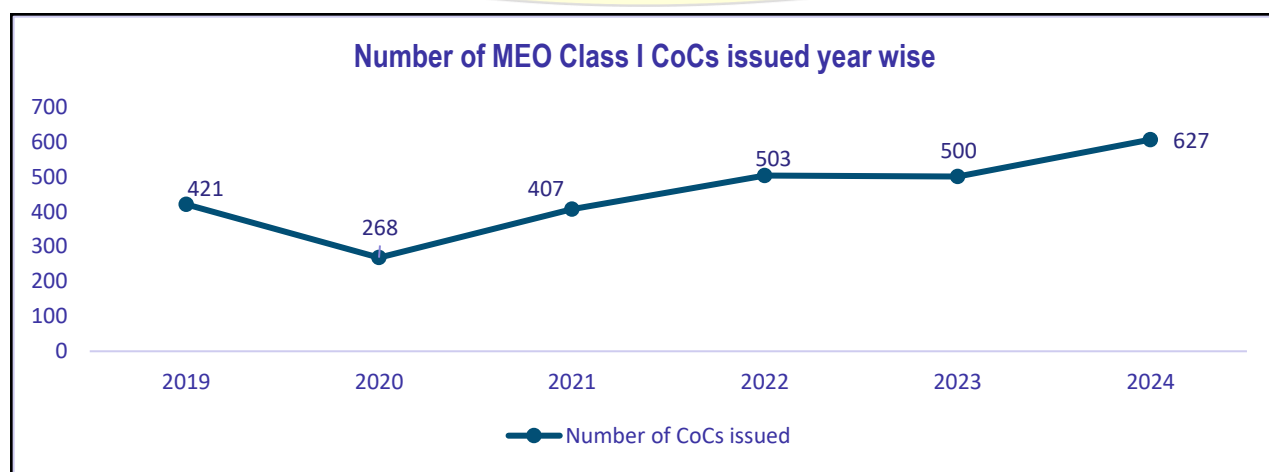


Fig.2: Number of MEO Class I CoCs issued in the last six years

1.2 MEO Class II Examination

The Marine Engineer Officer (MEO) Class II examinations are held every month except for the month of May each year. The same was followed in the year 2024 at the examination centres located in Chennai, Kochi, Kolkata, Mumbai and Noida. The STCW Code's section A-III/2 outlines the minimum standard of competence for certification of Second Engineer Officer on ships powered by main propulsion machinery of 3000 KW or more.

The MEO Class II examination has two components, Part 'A' and Part 'B'. The distribution of the subjects under each part, which are further grouped as 'functions' can be seen at the Table 1.

Table 1: MEO Class II Examination and its different components

MEO CLASS II PART 'A'					
Function	Marine Engineering at Management Level (F-4A)				
Written Subjects	Mechanics and Hydromechanics (F-4A-V)		Thermodynamics and Heat transmission (F-4A-VI)		
Oral exam	No oral function		No oral function		
MEO CLASS II PART 'B'					
Function	Controlling the operation of the ship and care for persons onboard at management level (F-3)		Marine Engineering at Management Level (F-4B)		Electrical, Electronics & Control Engineering at Management level (F-5)
Written subjects	Naval Architecture	Ship Safety and Environmental Protection	Marine Engineering Knowledge (General)	Marine Engineering Knowledge (Motor/Steam)	Marine Electro Technology
Oral exam	Function :3		Function:4B		Function:5
					Function:6

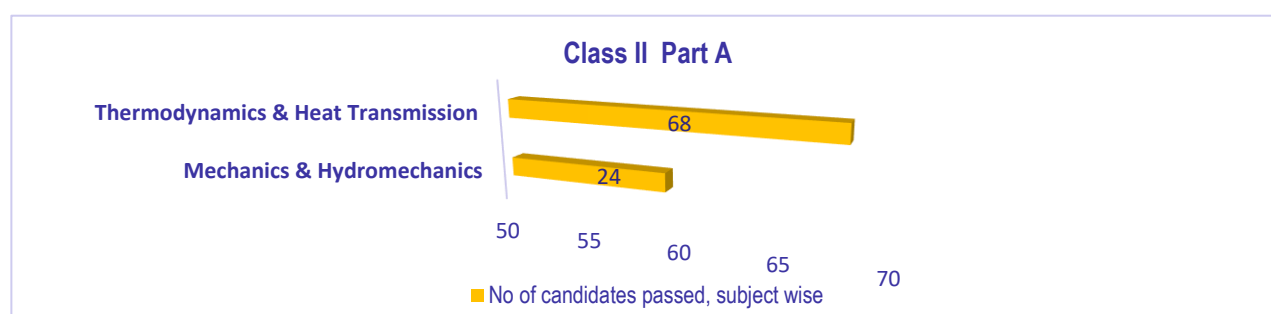


Fig.3: No. of candidates passed in MEO Class II Part A exam in 2024, subject wise

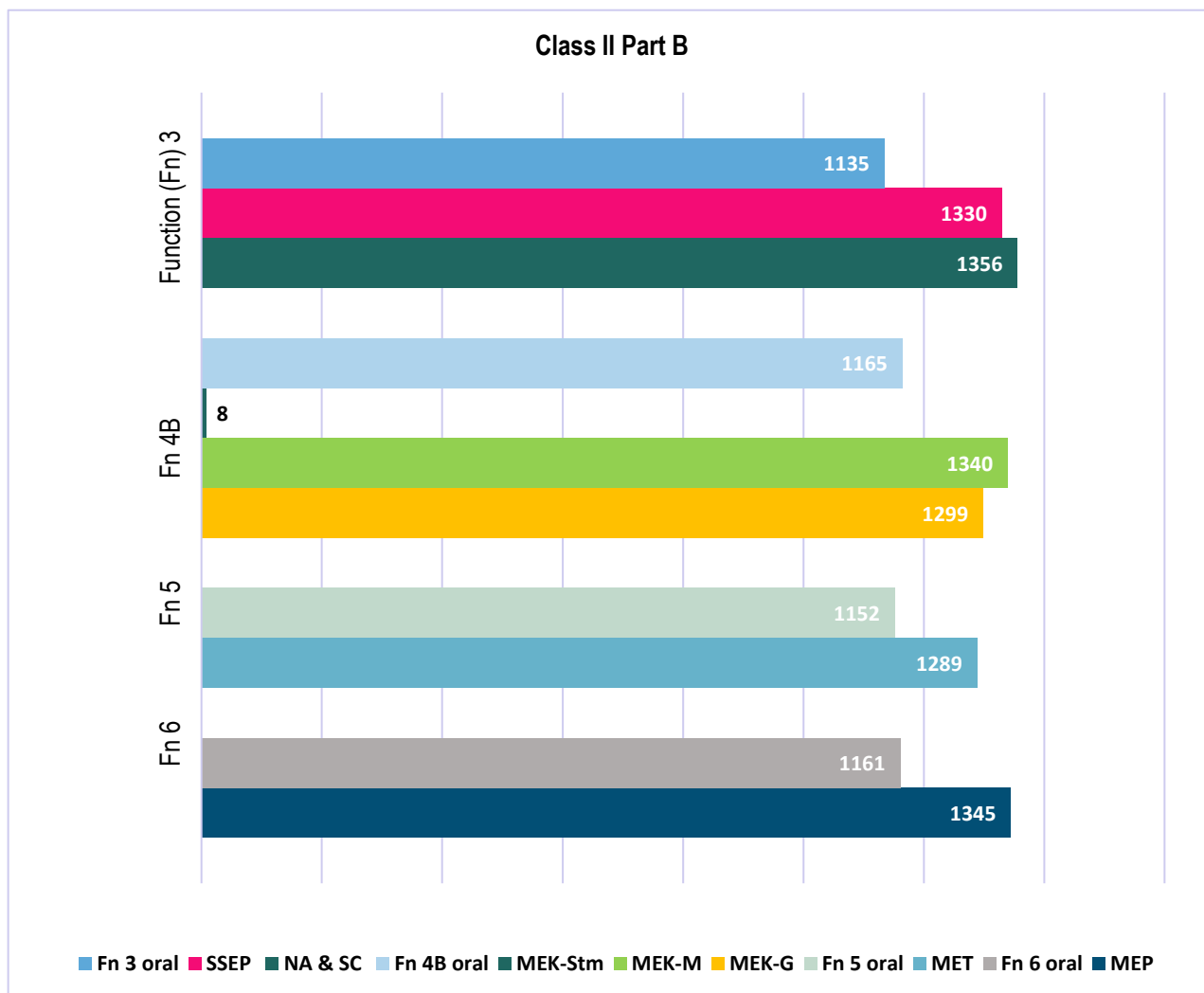


Fig.4: No. of candidates passed in MEO Class II Part B exam in 2024, subject wise within the four functions

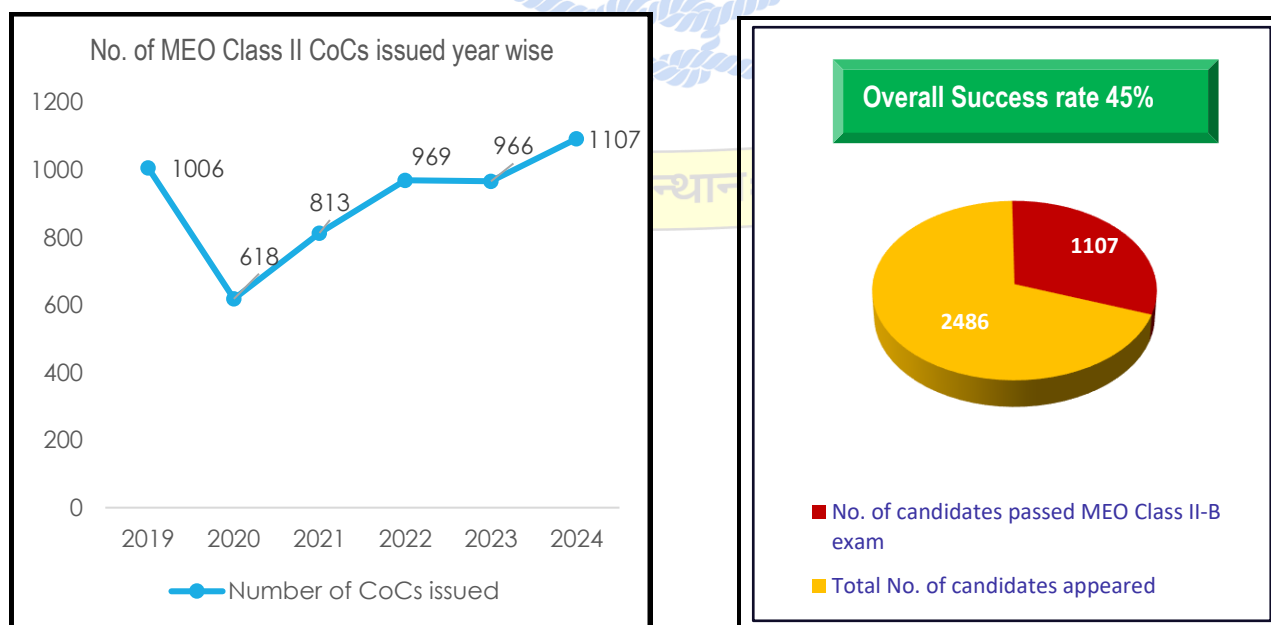


Fig.5: Number of Class II CoCs issued over 6-year period and success rate in the year 2024

1.3 MEO Class IV Examination

The Marine Engineer Officer (MEO) Class IV examinations are held every month except for the month of May each year. In the year 2024, additional batches were conducted in the month of April, May, September and December to cater to the candidates. The examination was conducted at centres located in Chennai, Kochi, Kolkata, Mumbai and Noida. The examination at Visakhapatnam centre was discontinued due to the ongoing construction of the new office building. The STCW Code's section A-III/1 outlines the minimum standard of competence for certification of Officer in Charge of an Engineering watch on ships powered by main propulsion machinery of 750 KW or more.

The MEO Class IV examination has two components, Part 'A' and Part 'B'. The distribution of the subjects under each part, which are further grouped as 'functions' can be seen at the Table 2.

Table 2: MEO Class IV Examination and its different components

MEO CLASS IV PART 'A'						
Function	Marine Engineering at Operational Level (F-4A)					
Written Subjects	Heat Engines (F-4A-I)	Applied Mechanics (F-4A-II)	Mathematics (F-4A-III)		Engineering Drawing (F-4A-IV)	
Oral exam	No oral function		No oral function			
MEO CLASS IV PART 'B'						
Function	Controlling the operation of the ship and care for persons onboard at Operational level (F-3)		Marine Engineering at Operational Level (F-4B)		Electrical, Electronics & Control Engineering at Operational level (F-5)	Maintenance and repair at Operational level (F-6)
Written subjects	Naval Architecture	Ship Safety and Environmental Protection	Marine Engineering Knowledge (General)	Marine Engineering Knowledge (Motor/Steam)	Marine Electro Technology	Marine Engineering Practice
Oral exam	Function :3		Function:4B		Funciton:5	Function:6

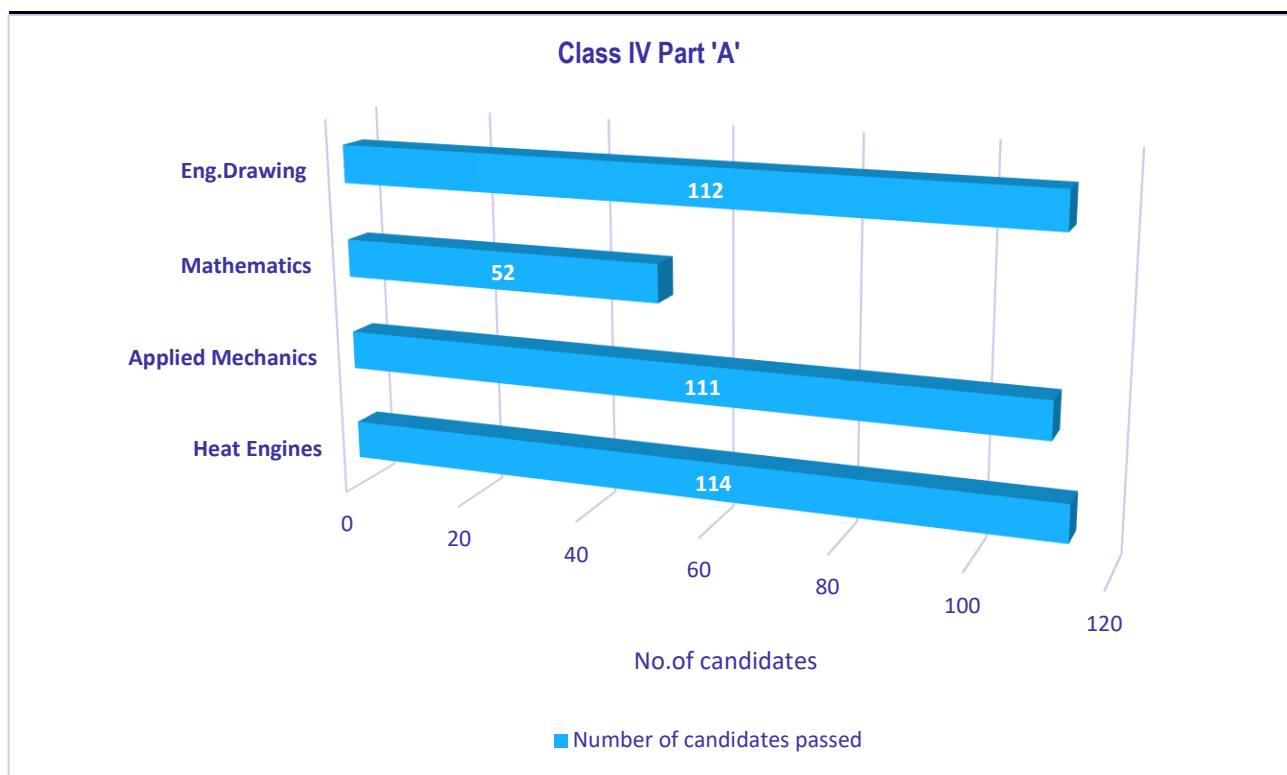


Fig.6:: No. of candidates passed in MEO Class IV Part A exam in 2024, subject wise

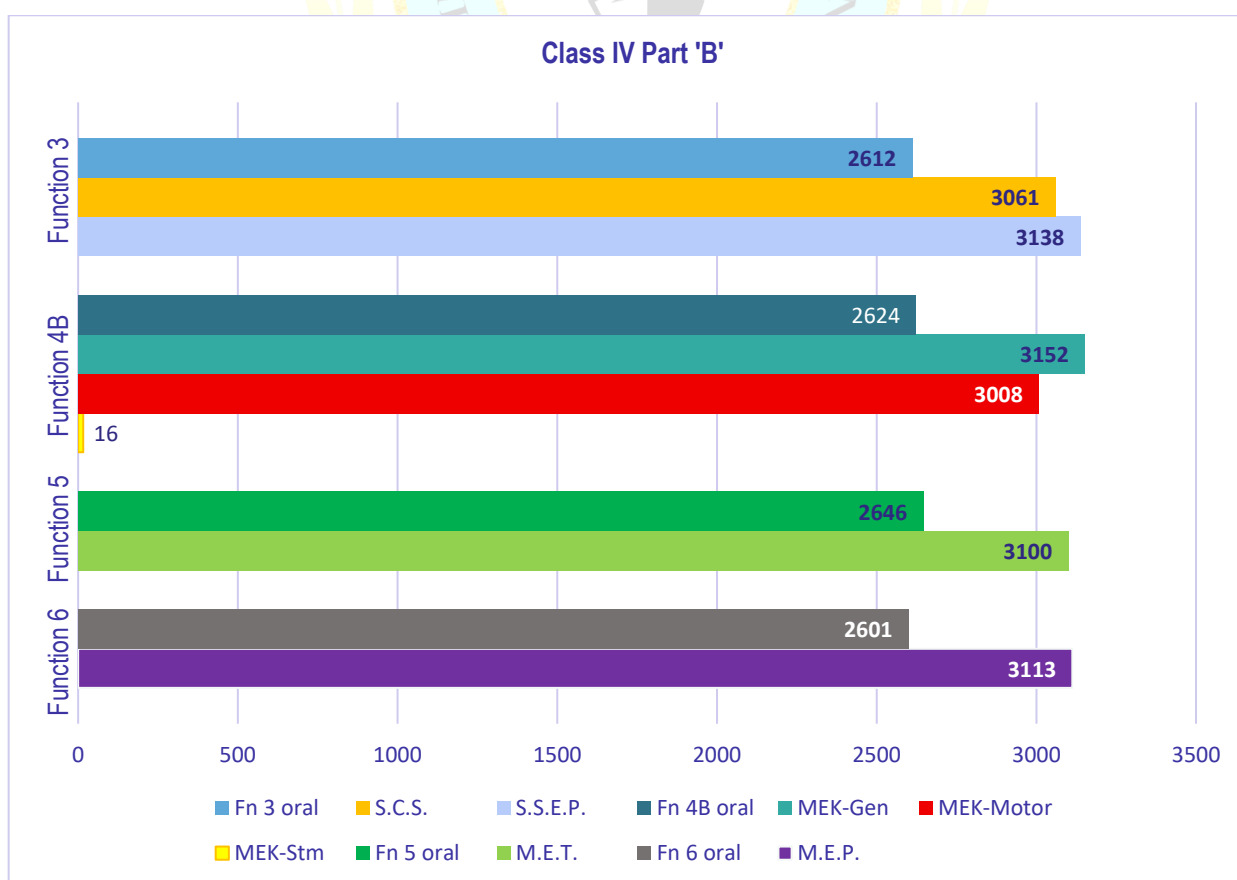
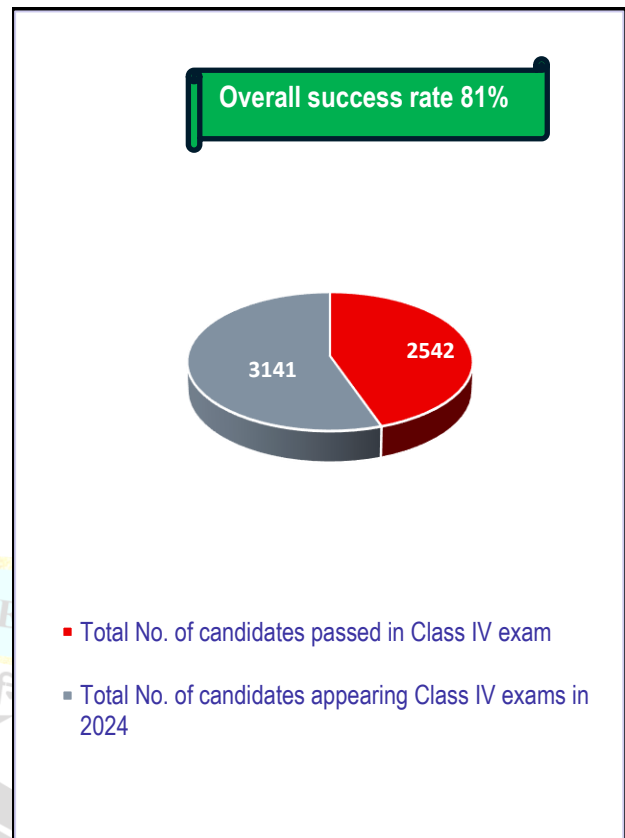
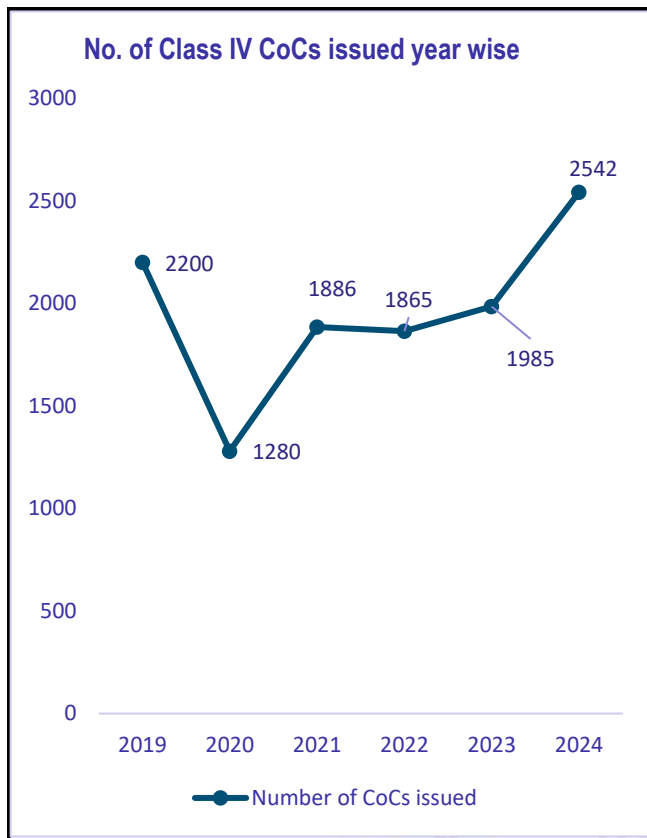


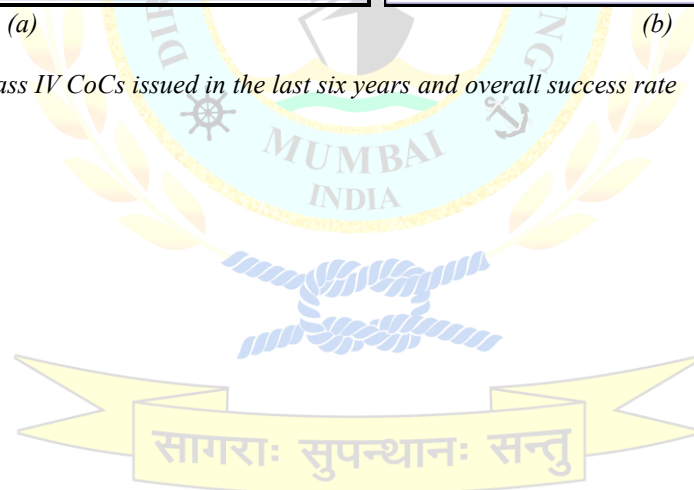
Fig.7: No. of candidates passed in MEO Class IV Part B exam in 2024, subject wise within four functions



(a)

(b)

Fig.8: Number of MEO Class IV CoCs issued in the last six years and overall success rate



1.4 Electro-Technical Officer (E.T.O.) Examination

The ETO Certificate of Competency examinations are held every month except for the month of May each year. In the year 2024, the examinations were conducted as per the annual schedule, at centres located in Chennai, Kochi, Kolkata and Mumbai. The STCW Code's section A-III/6 outlines the minimum standard of competence for certification of Electro Technical Officer.

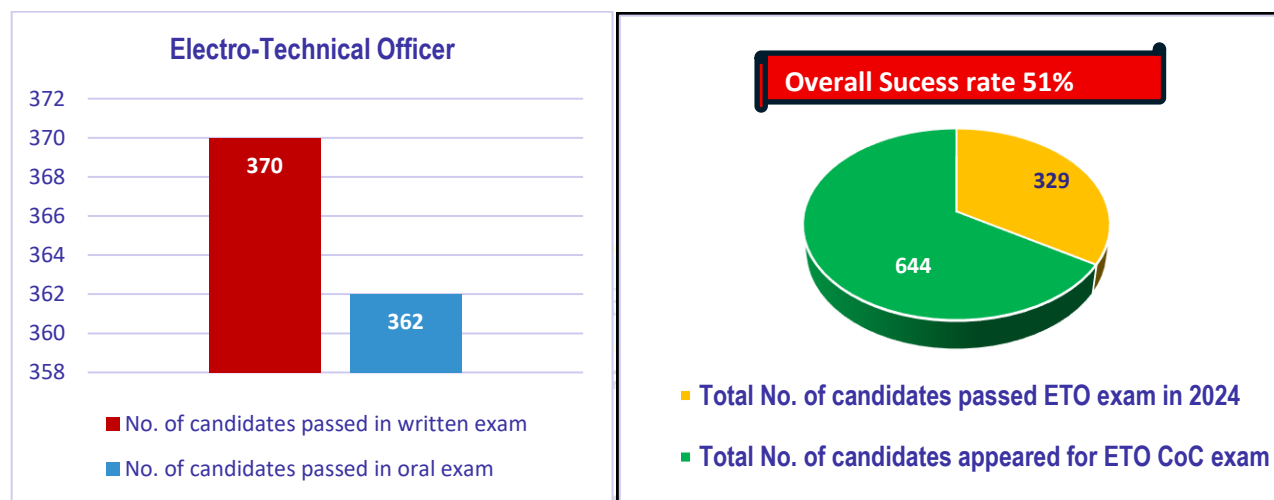


Fig.9: Number of candidates passed in the ETO exam in 2024 and overall success rate

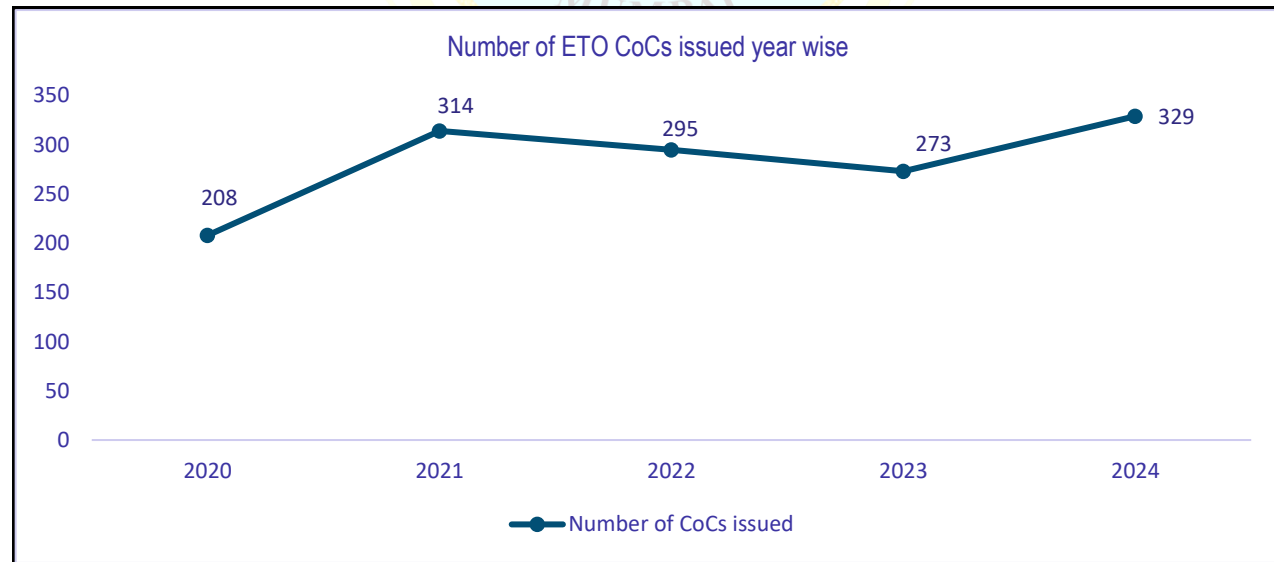


Fig.10: Number of ETO CoCs issued in the last five years

1.5 Extra First-Class Examination

The Extra First-Class certification is the highest grade of competency certification, intended to assess a marine engineer's ability to manage and oversee complex engineering operations on board ships, ensuring compliance with safety and regulatory standards. The written examination comprises of twelve subjects divided into two groups. The examination is conducted twice every year and the summary of the results of the examination conducted in the year 2024 are as under:

Table 3: Summary of Extra First-Class Examination results for the year 2024

PART	Subject	Sub. Code	March 2024			September 2024		
			No. appeared	No. passed	% pass	No. appeared	No. passed	% pass
A	Law of the Sea & Maritime Law	A-1	3	0	0	8	2	25
	Risk Assessment & Marine Insurance	A-2	4	1	25	7	4	57.1
	Shipping, Economics Finance	A-3	5	3	60	4	2	50
	Marine materials & Corrosion of Marine Structures	A-4	6	1	16.7	5	2	40
	Advanced Electrical, Electronic and Control Engineering Knowledge	A-5	2	0	0	7	4	57.1
	Environment Protection & Energy Management in the Maritime Industry	A-6	6	1	16.7	8	4	50
B	Maritime Regulations	B-1	7	1	14.3	6	3	50
	Management Techniques & Applications	B-2	7	6	85.7	4	0	0
	Naval Architecture	B-3	7	3	42.9	7	4	57.1
	Vibration Engineering	B-4	3	2	66.7	1	1	100
	Advance Marine Engineering Knowledge	B-5	7	2	28.6	4	0	0
	Human Element	B-6	4	2	50	4	1	25

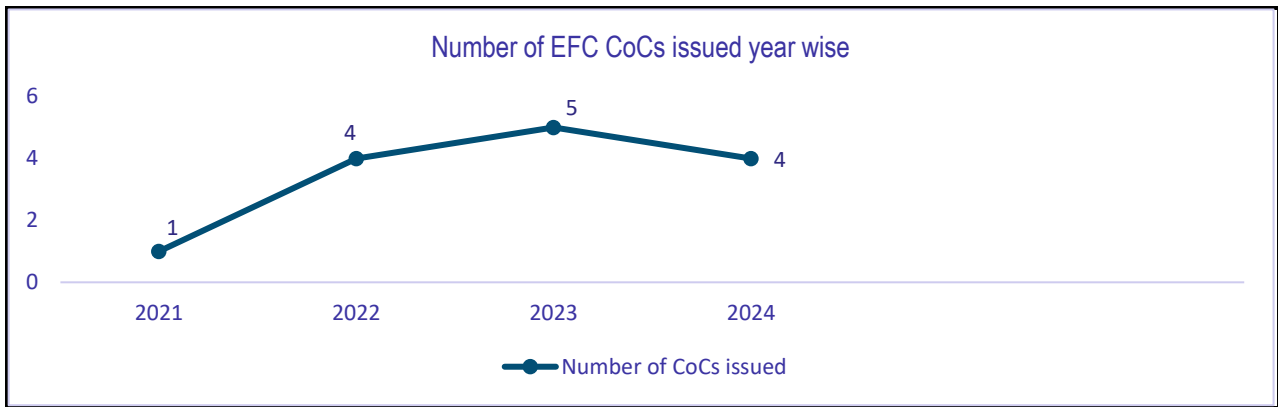


Fig. 11: Number of Extra-First Class CoCs issued in the last four years



1.6 Near Coastal Voyages (NCV) Grade CoC Examination

1.6.1 NCV CLASS III-Chief Engineer Officer

The MEO Class III CEO-NCV examinations are held on a quarterly basis each year. The same was followed in the year 2024 at the examination centres located in Chennai, Kochi, Kolkata and Mumbai. The examination comprises of one written examination, viz. Engineering management and one oral function. The STCW Code's section A-III/3 outlines the minimum standard of competence for chief engineers on ships with main propulsion machinery of 3,000 KW or less.

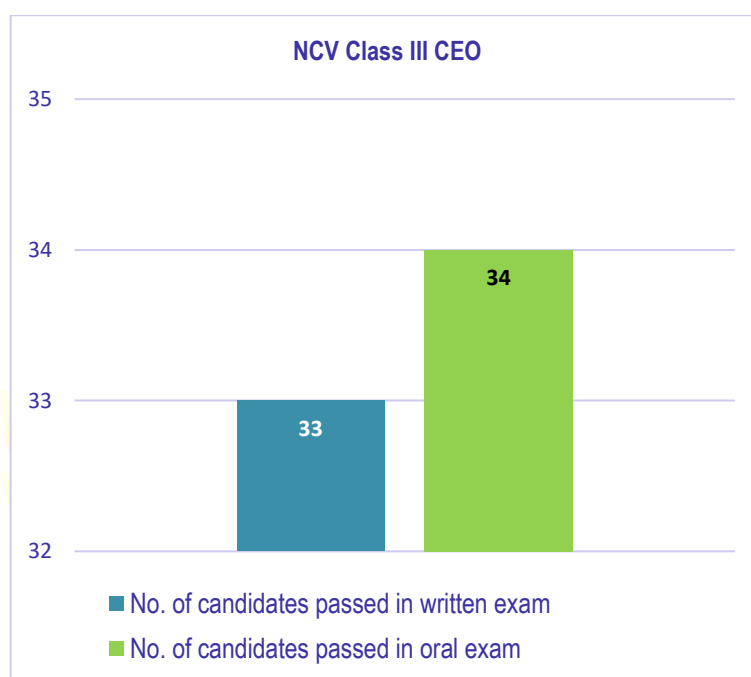


Fig.12: No. of candidates passed NCV Class III CEO exam in 2024

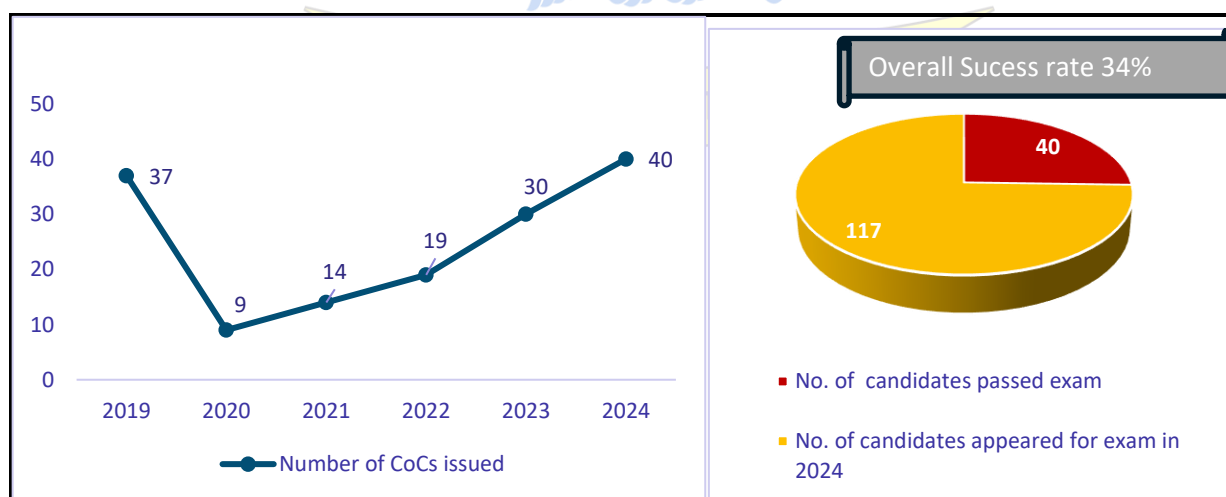


Fig.13: Number of NCV Class III CEO CoCs issued in the last six years & the overall success rate in the year 2024

1.6.2 NCV CLASS III-Second Engineer Officer

The MEO Class III SEO-NCV examinations are held on a quarterly basis each year. The same was followed in the year 2024 at the examination centres located in Chennai, Kochi, Kolkata and Mumbai. The examination comprises of one written examination, viz. Engineering management and one oral function. The STCW Code's section A-III/3 outlines the minimum standard of competence for chief engineers on ships with main propulsion machinery of 3,000 KW or less.

The NCV Class III SEO grade of CoC examination has two components, Part 'A' and Part 'B'. The distribution of the subjects under each part, which are further grouped as 'functions' can be seen at the Table 3.

Table 4: NCV Class III SEO Examination and its different components

NCV CLASS III SEO PART 'A'						
Function	Marine Engineering at Management Level (F-4A)					
Written Subjects	Applied Mathematics	Mechanics & Hydromechanics	Thermodynamics & Heat Transmission		Marine Engineering Drawing	
Oral exam	No oral function			No oral function		
NCV CLASS III SEO PART 'B'						
Function	Controlling the operation of the ship and care for persons onboard at Management level (F-3)		Marine Engineering at Management Level (F-4B)		Electrical, Electronics & Control Engineering at Management level (F-5)	Maintenance and repair at Management level (F-6)
Written subjects	Ship Construction & Naval Architecture	Ship Safety and Environmental Protection	Marine Engineering Knowledge (General)	Marine Engineering Knowledge (Motor)	Marine Electro Technology	Marine Engineering Practice
Oral exam	Function :3		Function:4B		Function:5	Function:6

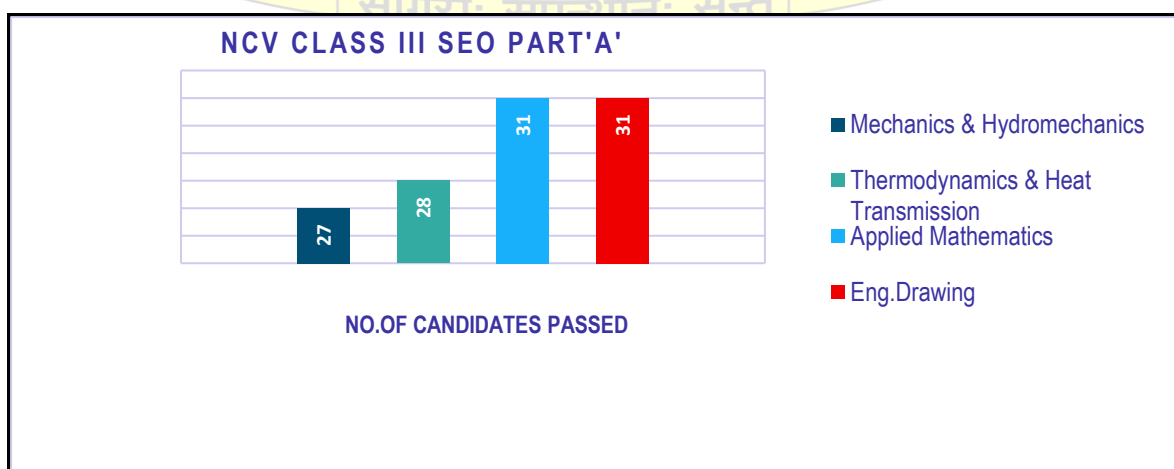


Fig.14: Distribution of No. of students appeared & passed NCV Class III SEO Part A exam

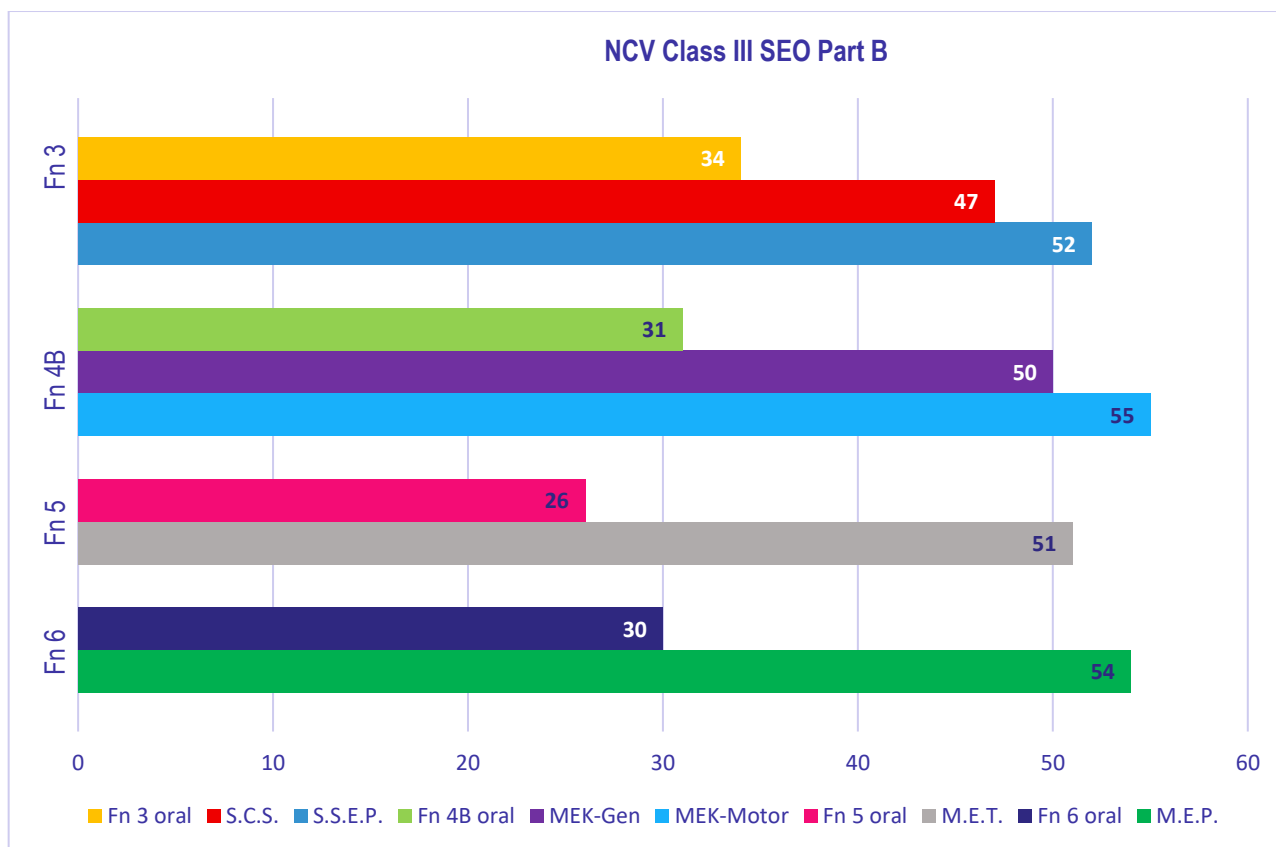


Fig.15: No. of candidates passed Class III SEO Part B exam in 2024, subject wise within the four functions

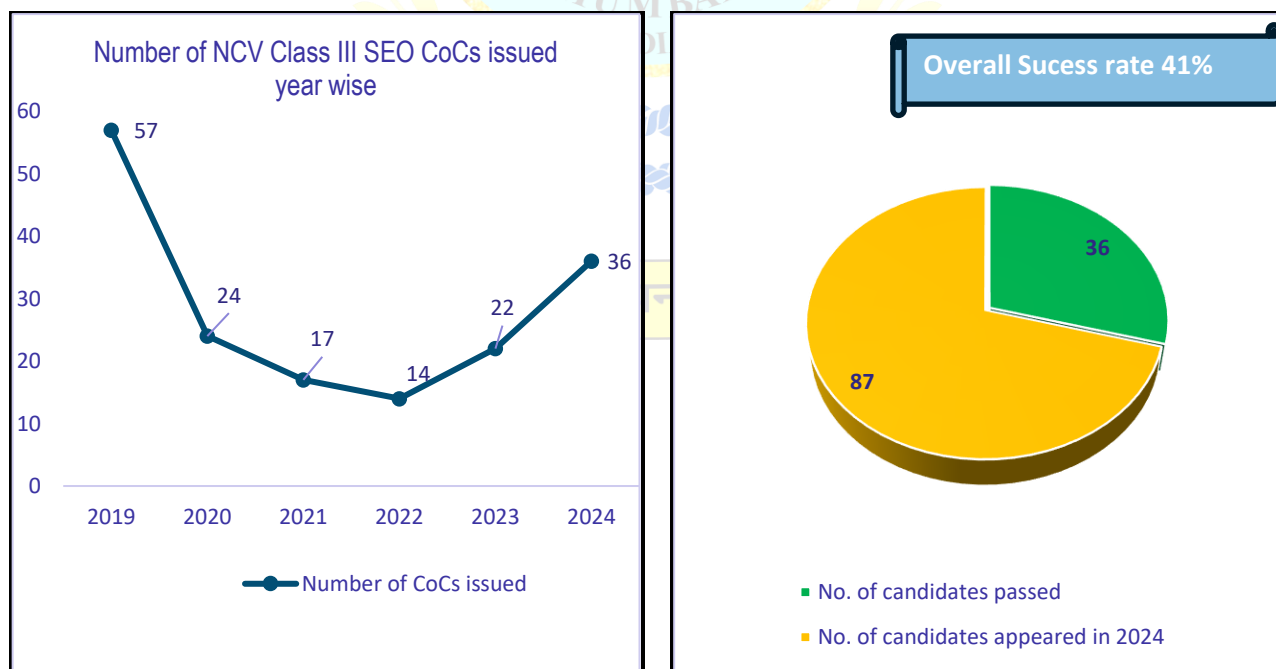


Fig.16: Number of NCV Class III SEO CoCs issued in the last six years & overall success rate in 2024

1.6.3 NCV CLASS IV-Officer in Charge of Engineering watch

The NCV Class IV examinations are held on a quarterly basis each year. The same was followed in the year 2024 at the examination centres located in Chennai, Kochi, Kolkata and Mumbai.

The NCV Class IV examination has two components, Part 'A' and Part 'B'. The distribution of the subjects under Part A and Part B which are further grouped as 'functions' can be seen at the Table 5.

Table 5: NCV Class IV Examination and its different components

NCV CLASS IV PART A					
Function	Controlling the operation of the ship and care for persons onboard at Operational level (F-3)	Marine Engineering at Operational Level (F-4B)		Electrical, Electronics & Control Engineering at Operational level (F-5)	Maintenance and repair at Operational level (F-6)
Written subjects	Ship Construction & Stability, Ship's Safety and Environmental Protection	Marine Engineering Knowledge (General)	Marine Engineering Knowledge (Motor)	Marine Electro Technology	Marine Engineering Practice
NCV CLASS IV PART B					
Oral exam	Function :3	Function:4B		Function:5	Function:6

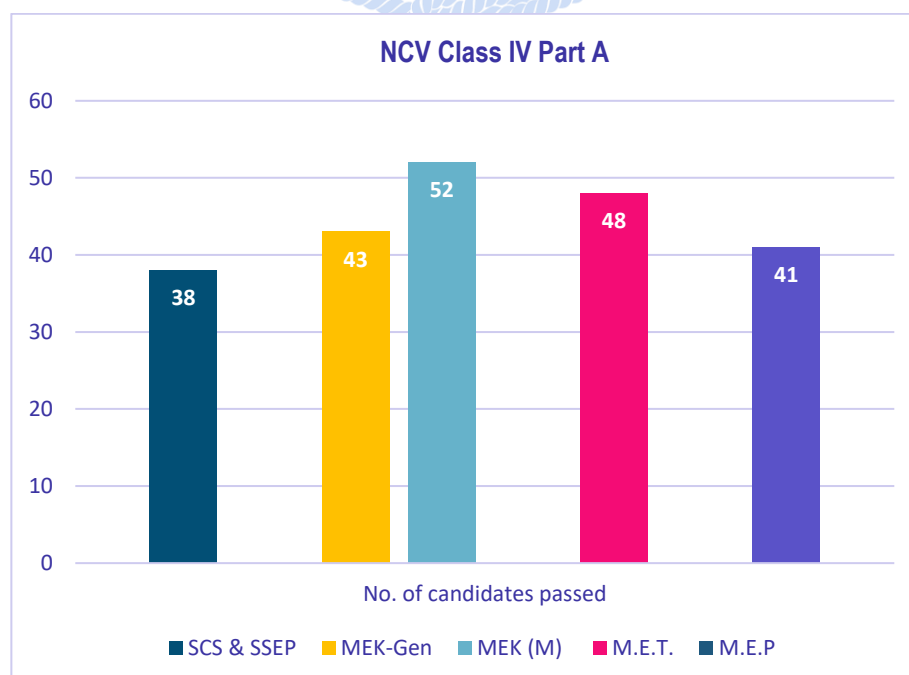


Fig.17:No. of candidates passed NCV Class IV Part A exams in 2024, subject wise

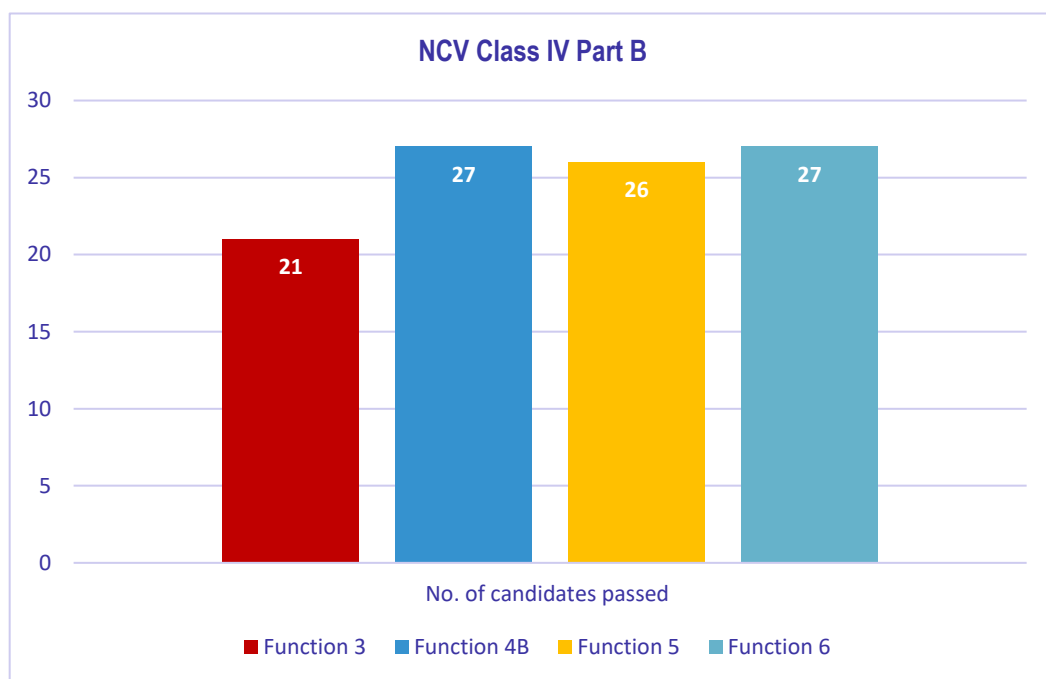


Fig.18:No. of candidates passed in NCV Class IV Part B exams in 2024, function wise

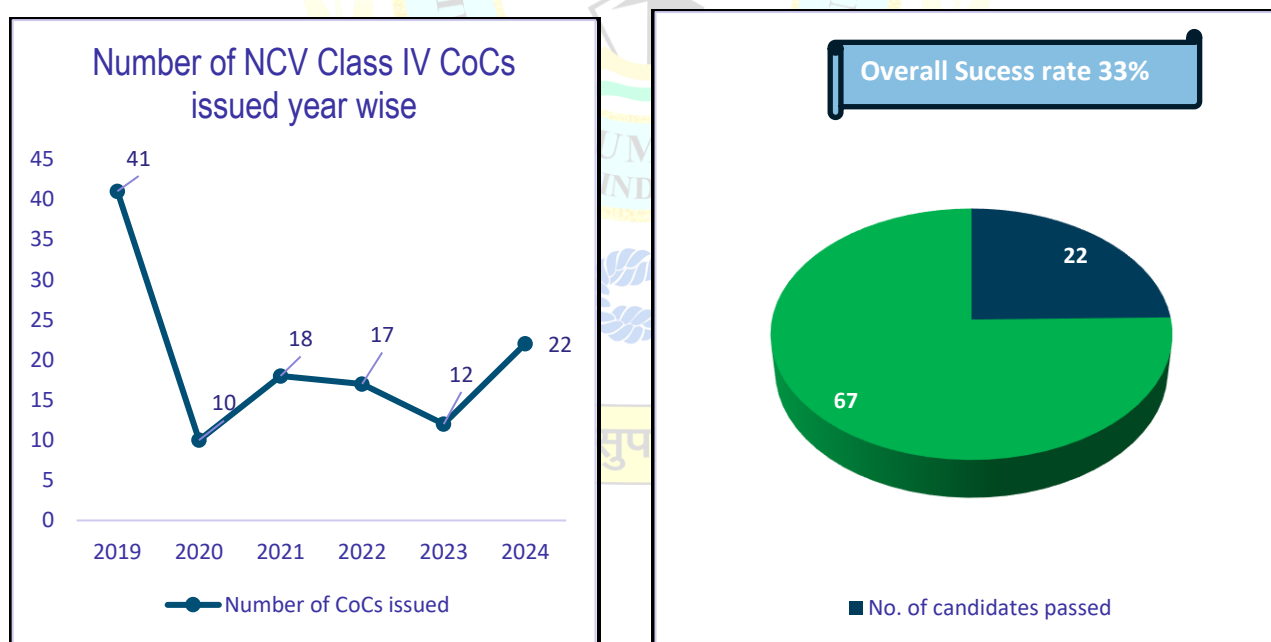


Fig.19: Number of NCV Class IV CoCs issued in the last six years & overall success rate in 2024

1.7 Issuance of Basic and Advanced training Certificate of Proficiency

Basic Certificate of Proficiency for Liquefied Gas, Oil and Chemical Tanker cargo operations and for the ships subject to the IGF Code are initially issued by the DG Shipping and the MMDs are issuing the CoPs after revalidation following the expiry of the certificates.

1.7.1 CoP in Basic Training for Liquefied Gas, Oil and Chemical Tanker Cargo Operations

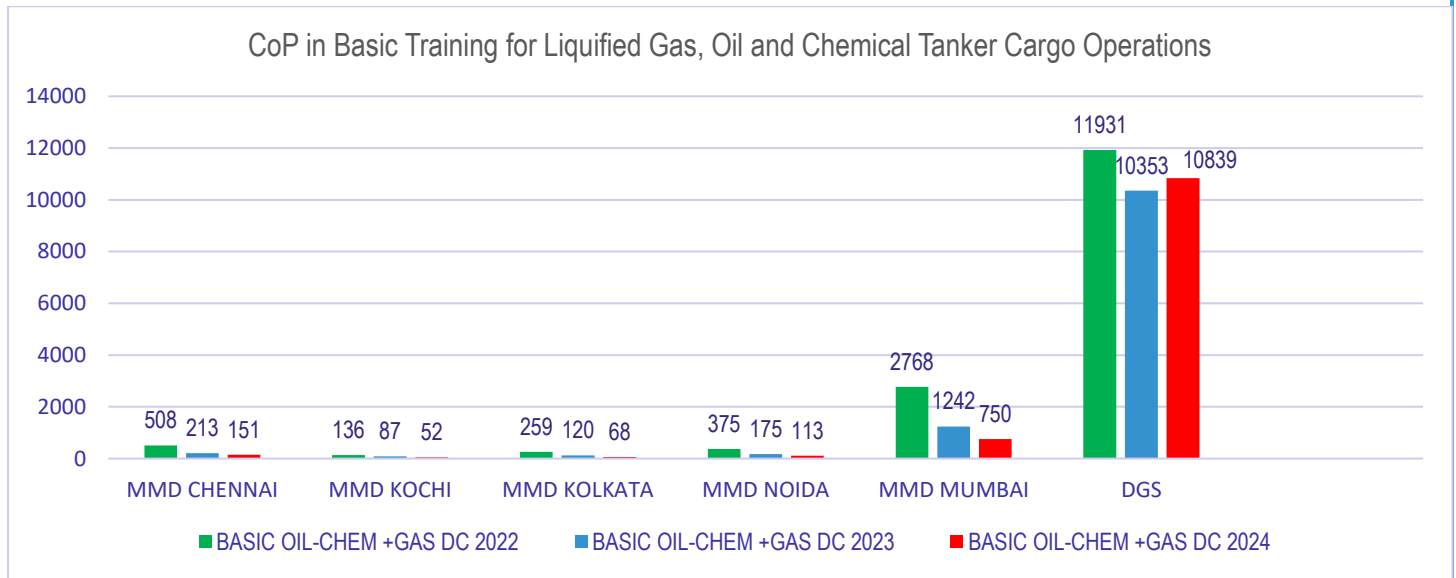


Fig.20: Distribution showing Basic CoP for oil/chemical/gas tanker issued by MMDs & the DGS in the last 3 years

1.7.2 CoP in Basic Training for ships subject to IGF Code

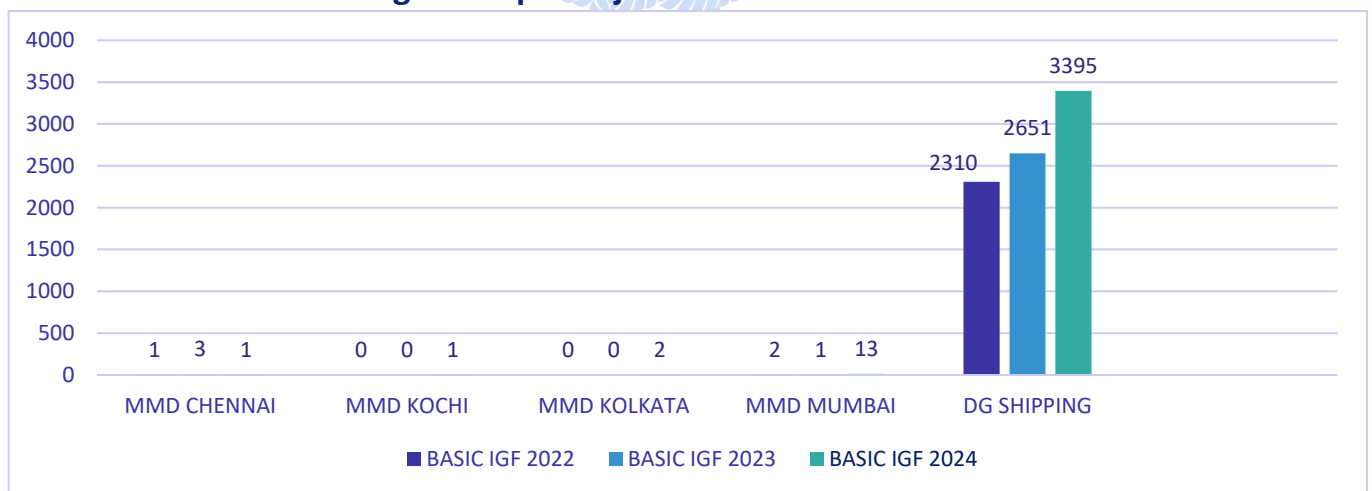


Fig.21: Distribution showing the Basic IGF CoP issued by the MMDs & the DGS in the last three years

1.7.3 CoP in Advanced Training for Liquified Gas, Oil and Chemical Tanker Cargo Operations

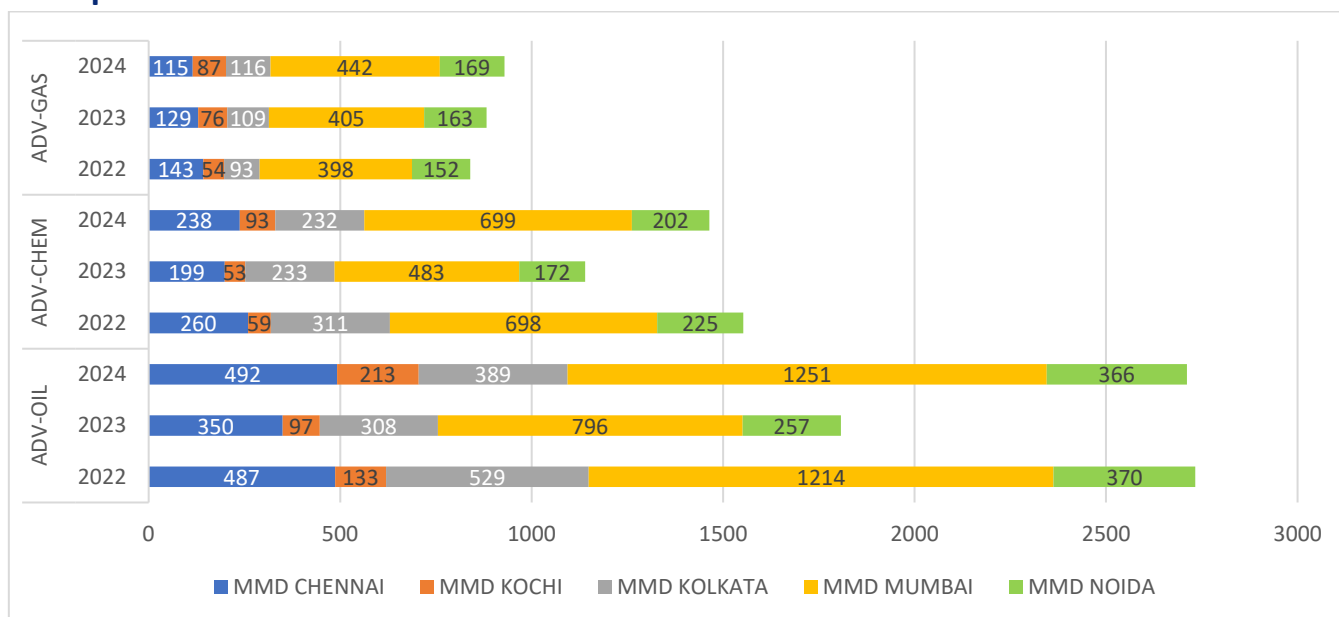


Fig.22: Distribution showing the Advanced CoPs issued by the MMDs in the last three years

1.7.4 CoP in Advanced Training for ships subject to IGF Code

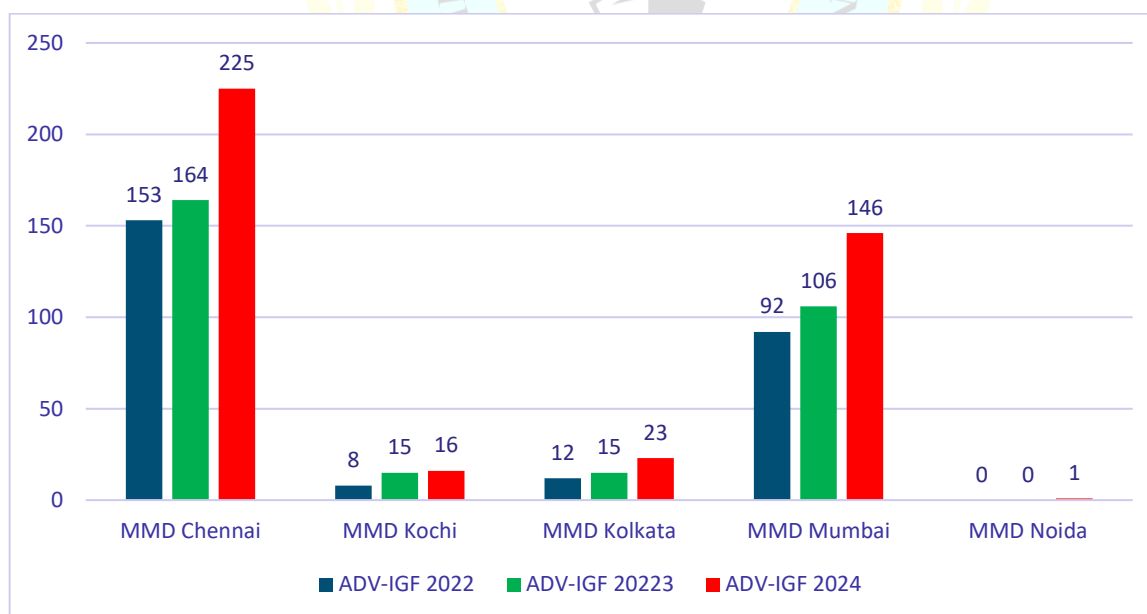


Fig.23: CoP in Advanced Training for ships subject to IGF Code issued by the MMDs in the last three years

1.8 Certificate of Proficiency for Engine room ratings

The Certificate of Proficiency (CoP) as Able Seafarer Engine (STCW Reg.III/5), Engine room watch-keeping rating (STCW Reg.III/4) are issued by the DG Shipping and the Certificate of Proficiency as Electro-Technical Ratings (ETR) (STCW Reg.III/6) is issued by the MMDs.

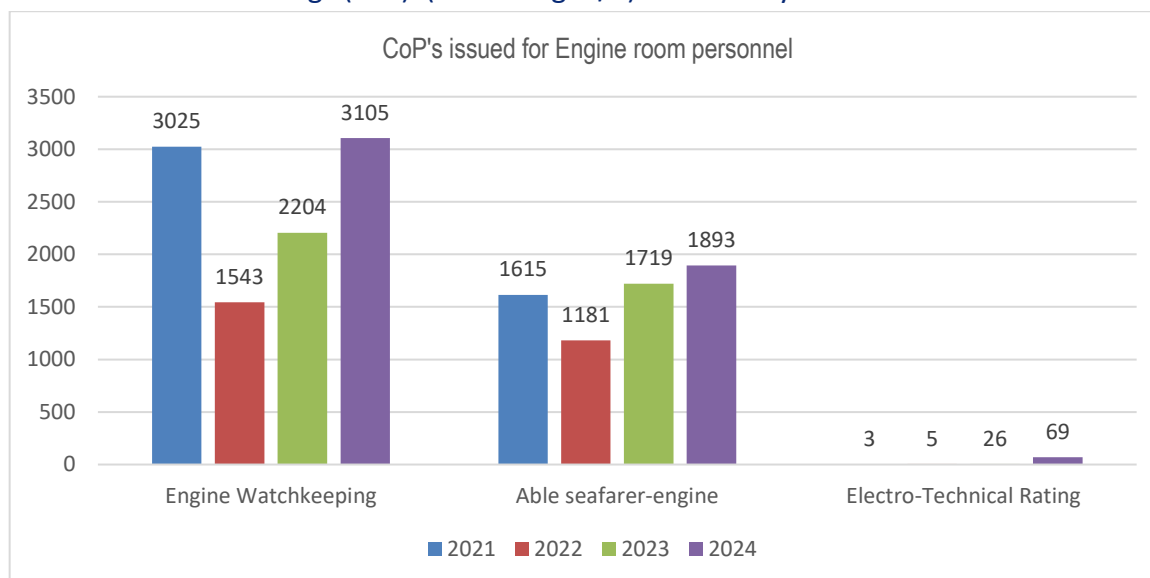
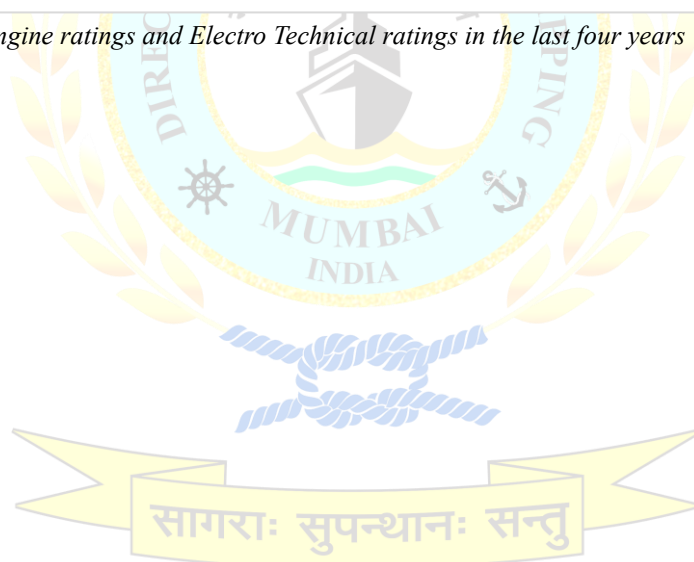


Fig.24: CoPs issued for Engine ratings and Electro Technical ratings in the last four years



1.9 Recognition of certification under STCW Reg.I/10

Regulation I/10 of STCW requires that for a country to recognize another member States seafarer qualification, there must be a written agreement in place between those two States. The Certificate of Endorsement for recognition of CoC issued by another State, in the last three years are as under:

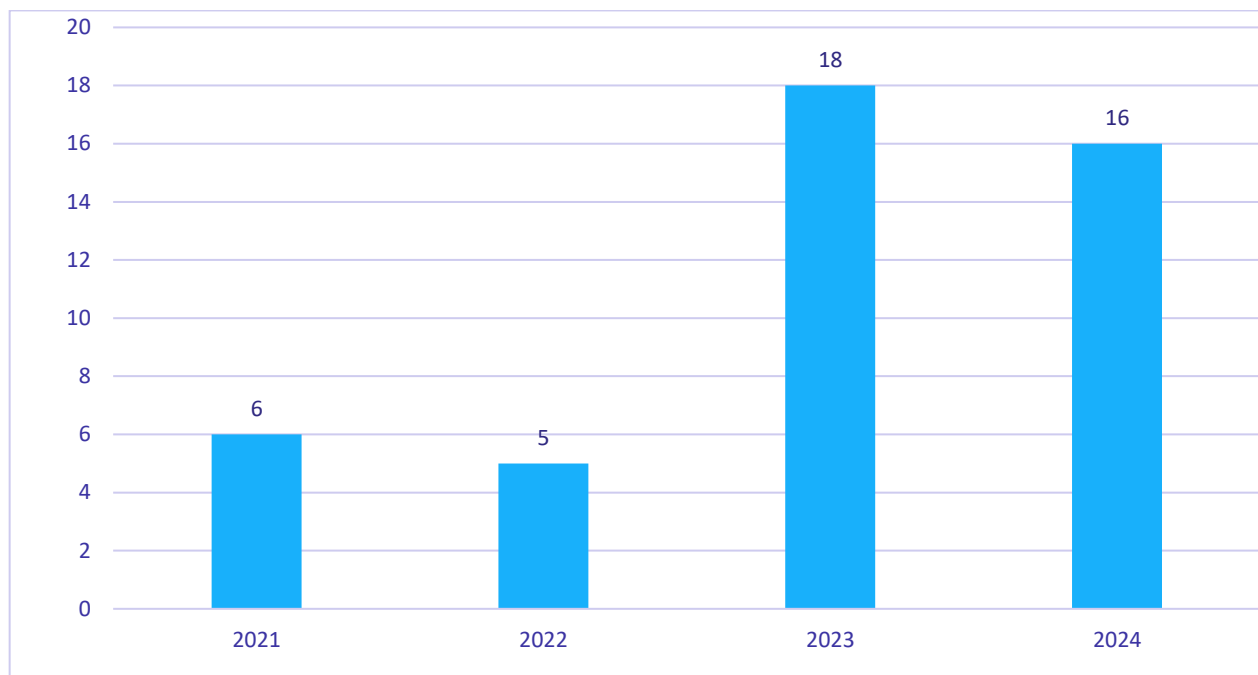
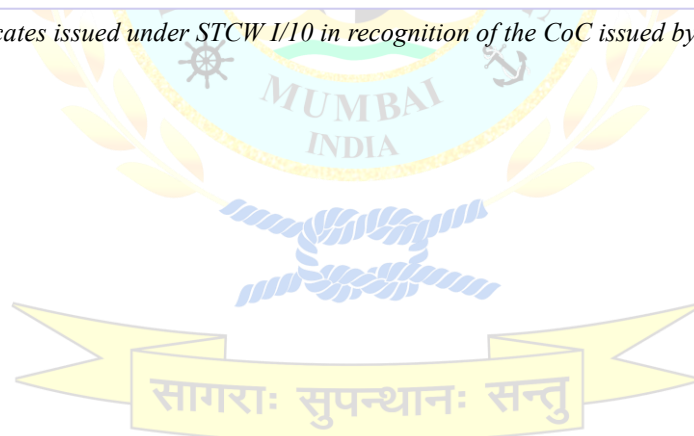


Fig.25: Number of Certificates issued under STCW I/10 in recognition of the CoC issued by other States



2. PERFORMANCE OF MARITIME TRAINING INSTITUTES





2.1 MEO Class I Examination:

The two months preparatory course is mandatory for the MEO Class I examination and the performance of the students from different MTIs across India is analysed as below:

Table 6: Performance of MEO Class I exam candidates vis-à-vis the MTI that conducted the preparatory course

MEO CLASS I EXAMINATION Subject: Engineering Management				
S.No.	Name of the Training Institute	Total Appeared	Pass	Pass %
1	Centre for Maritime Training, Noida	18	12	66.67
2	Centre for Maritime Education And Training(Lucknow)	8	4	50
3	Fosma Maritime Institute & Research Organisation, Kolkata	111	42	37.84
4	HIMT Tidal Park, Chennai	90	41	45.56
5	Hindustan Institute of Maritime Training, Chennai	31	10	32.26
6	Hoon Maritime Institute, Kolkata	120	30	25
7	IMU , Kolkata Campus, Kolkata	289	99	34.26
8	Indian Maritime University, Chennai (NIPM /NMA)	58	19	32.76
9	Indian Maritime University- Mumbai Port Campus (LBS CAMSAR & MERI)(Mumbai)	64	17	26.56
10	Institute of Marine Engineers(India), Kochi	172	82	47.67
11	International Maritime Institute, Greater Noida	241	99	41.08
12	Marine Educational Charitable Trust, Kolkata	30	11	36.67
13	Massa Maritime Academy, Chennai	234	93	39.74
14	OERC Academy, Navi Mumbai	170	59	34.71
15	SEI Educational Trust, Kolkata	45	13	28.89
16	The Institute of Marine Engineers (India), Navi Mumbai	267	102	38.2
Total →		1948	733	37.63

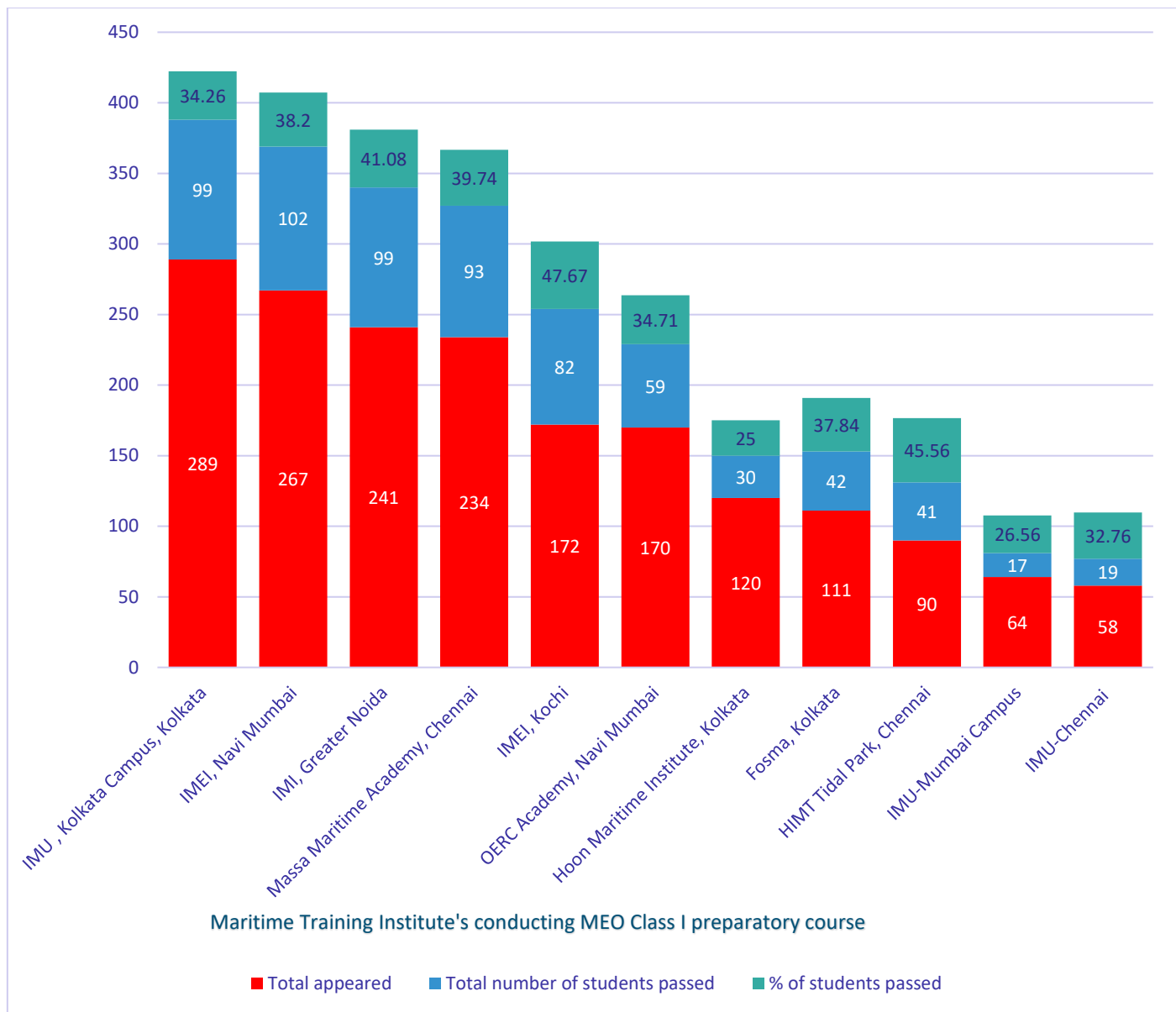
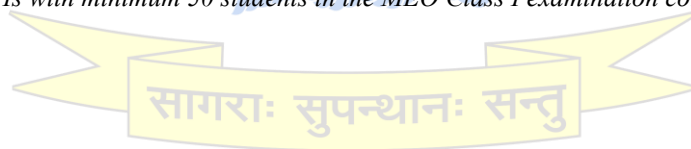


Fig.26: Performance of MTIs with minimum 50 students in the MEO Class I examination conducted in 2024



2.2 MEO Class II Examination:

The four-month preparatory course is mandatory for the MEO Class II examination. It comprises of seven subjects which are grouped into four functions as per the STCW Code. The performance of the students from different MTIs across India is analysed as below:

Table 7: Performance of MEO Class II exam candidates vis-à-vis the MTI where preparatory course done (function wise)

Function 3: Controlling operation of ship and care for persons on board at Management Level

Sr.No.	Name of the MTI	N.A.			SSEP		
		Total Appeared	Pass	Pass %	Total Appeared	Pass	Pass %
1	ARI School of Higher Academic & Professional Education, New Delhi	163	83	50.92	146	90	61.64
2	BIMT Visakhapatnam	0	0	0	1	0	0
3	CMC Maritime Academy, Chennai	89	34	38.2	93	42	45.16
4	Centre For Maritime Training Noida	49	22	44.9	52	28	53.85
5	Centre for Maritime Education & Training, Lucknow	37	19	51.35	33	22	66.67
6	Euro Tech Maritime Academy, Kochi	193	91	47.15	159	90	56.6
7	FOSMA, Kolkata	236	114	48.31	189	88	46.56
8	HIMT Tidal Park, Chennai	168	73	43.45	137	84	61.31
9	HSNA Maritime Ed. & Research, Lucknow	12	8	66.67	16	10	62.5
10	HIMT, Chennai	57	17	29.82	35	13	37.14
11	Hoon Maritime Institute, Kolkata	134	52	38.81	101	53	52.48
12	Indian Maritime University- Mumbai	28	12	42.86	13	8	61.54
13	Institute of Marine Education & Research, Patna	92	42	45.65	71	35	49.3
14	Institute of Marine Engineers (India), Kochi	183	76	41.53	135	71	52.59
15	International Maritime Institute, Noida	120	49	40.83	98	55	56.12
16	Mercantile Marine Academy, Kolkata	51	22	43.14	47	19	40.43
17	Marine Educational Charitable Trust, Kolkata	177	62	35.03	136	58	42.65
18	Massa Maritime Academy, Chennai	166	62	37.35	129	61	47.29
19	OERC Academy, Navi Mumbai	88	45	51.14	68	36	52.94
20	Pondicherry Maritime Academy, Puducherry	55	24	43.64	46	22	47.83
21	SEI Educational Trust, Faridabad	106	59	55.66	108	65	60.19
22	SEI Educational Trust, Kolkata	194	77	39.69	153	76	49.67
23	Sakshi Institute of Maritime Foundation, Mumbai	78	41	52.56	70	39	55.71
24	Seaskills Maritime Academy, Coimbatore	105	37	35.24	66	35	53.03
25	The IMEI, Navi Mumbai	367	164	44.69	302	167	55.3
26	HIMT, Visakhapatnam	53	20	37.74	49	23	46.94

27	Zasha Institute of Maritime Studies, Dehradun	7	2	28.57	8	4	50
Total →		3008	1307	43.45	2461	1294	52.58

Function 4B: Marine Engineering at Management Level

Sr.No.	Name of Training Institute	M.E.K. (G)			M.E.K (Motor)			M.E.K. (SM)		
		Total Appeared	Pass	Pass %	Total Appeared	Pass	Pass %	Total Appeared	Pass	Pass %
1	ARI School of Higher Academic & Professional Education, New Delhi	144	89	61.81	160	95	59.38	0	0	0
2	BIMT Visakhapatnam	1	0	0	0	0	0	0	0	0
3	CMC Maritime Academy, Chennai	110	32	29.09	102	31	30.39	0	0	0
4	Centre For Maritime Training Noida	56	29	51.79	52	28	53.85	0	0	0
5	Centre for Maritime Ed. & Trg, Lucknow	32	20	62.5	29	20	68.97	0	0	0
6	Euro Tech Maritime Academy, Kochi	157	86	54.78	176	85	48.3	1	1	100
7	FOSMA Maritime Institute & Research Organisation, Kolkata	229	96	41.92	233	102	43.78	3	1	33.33
8	HIMT Tidal Park, Chennai	155	68	43.87	133	65	48.87	0	0	0
9	HSNA Maritime Education & Research, Lucknow	21	12	57.14	20	13	65	0	0	0
10	Hindustan Institute of Maritime Training, Chennai	49	18	36.73	48	11	22.92	0	0	0
11	Hoon Maritime Institute, Kolkata	125	60	48	126	53	42.06	0	0	0
12	Indian Maritime University- Mumbai	21	5	23.81	18	8	44.44	0	0	0
13	Institute of Marine Education & Research, Patna	98	37	37.76	88	40	45.45	0	0	0
14	IMEI, Kochi	163	77	47.24	154	70	45.45	1	0	0
15	IMI, Greater Noida	117	55	47.01	102	56	54.9	1	1	100
16	Mercantile Marine Academy, Kolkata	70	25	35.71	61	26	42.62	0	0	0
17	Marine Educational Charitable Trust, Kolkata	158	62	39.24	146	67	45.89	0	0	0
18	Massa Maritime Ac'my, Chennai	161	66	40.99	147	69	46.94	1	1	100
19	OERC Academy, Navi Mumbai	84	43	51.19	78	38	48.72	2	1	50
20	Pondicherry Maritime Academy, Puducherry	59	23	38.98	60	23	38.33	0	0	0
21	SEI Educational Trust, Faridabad	138	70	50.72	121	68	56.2	2	2	100
22	SEI Educational Trust, Kolkata	200	83	41.5	199	91	45.73	2	1	50
23	Sakshi Institute of Maritime Foundation, Mumbai	84	50	59.52	79	42	53.16	0	0	0
24	Seaskills Maritime Academy, Coimbatore	96	25	26.04	96	27	28.13	0	0	0

25	The Institute of Marine Engineers (India), Navi Mumbai	312	177	56.73	337	197	58.46	0	0	0
26	HIMT, Visakhapatnam	59	13	22.03	67	23	34.33	0	0	0
27	Zasha Institute of Maritime Studies, Dehradun	7	5	71.43	9	7	77.78	0	0	0
Total →		2906	1326	45.63	2841	1355	47.69	13	8	61.54

Function 5: Electrical, Electronic & Control Engineering at Management Level

Subject: Marine Electro-Technology (M.E.T.)				
Sr.No	Name of Training Institute	Total Appeared	Pass	Pass %
1	ARI School of Higher Academic & Professional Education, New Delhi	165	90	54.55
2	BIMT Visakhapatnam	1	0	0
3	CMC Maritime Academy, Chennai	98	39	39.8
4	Centre For Maritime Training Noida	53	27	50.94
5	Centre for Maritime Education & Training, Lucknow	31	15	48.39
6	Euro Tech Maritime Academy, Kochi	168	74	44.05
7	FOSMA Maritime Institute & Research Organisation, Kolkata	199	90	45.23
8	HIMT Tidal Park, Chennai	152	67	44.08
9	HSNA Maritime Education & Research, Lucknow	17	11	64.71
10	Hindustan Institute of Maritime Training, Chennai	58	14	24.14
11	Hoon Maritime Institute, Kolkata	99	45	45.45
12	Indian Maritime University- Mumbai Port Campus	27	10	37.04
13	Institute of Marine Education & Research, Patna	104	40	38.46
14	Institute of Marine Engineers (India), Kochi	153	74	48.37
15	International Maritime Institute, Greater Noida	118	65	55.08
16	Mercantile Marine Academy, Kolkata	47	20	42.55
17	Marine Educational Charitable Trust, Kolkata	139	57	41.01
18	Massa Maritime Academy, Chennai	136	62	45.59
19	OERC Academy, Navi Mumbai	75	35	46.67
20	Pondicherry Maritime Academy, Puducherry	50	21	42
21	SEI Educational Trust, Faridabad	118	62	52.54
22	SEI Educational Trust, Kolkata	162	80	49.38
23	Sakshi Institute of Maritime Foundation, Mumbai	72	37	51.39
24	Seaskills Maritime Academy, Coimbatore	83	38	45.78
25	The Institute of Marine Engineers (India), Navi Mumbai	343	164	47.81
26	HIMT, Visakhapatnam	52	27	51.92
27	Zasha Institute of Maritime Studies, Dehradun	6	4	66.67
Total →		2726	1268	46.52

Function 6: Maintenance & Repair at Management level

Subject: Marine Engineering Practice (M.E.P.)				
Sr.No	Name of Training Institute	Total Appeared	Pass	Pass %
1	ARI School of Higher Academic & Professional Education, New Delhi	166	84	50.6
2	BIMT Visakhapatnam	1	0	0
3	CMC Maritime Academy, Chennai	97	46	47.42
4	Centre For Maritime Training Noida	59	30	50.85
5	Centre for Maritime Education & Training, Lucknow	30	24	80
6	Euro Tech Maritime Academy, Kochi	173	99	57.23
7	FOSMA Maritime Institute & Research Organisation, Kolkata	209	90	43.06
8	HIMT Tidal Park, Chennai	139	77	55.4
9	HSNA Maritime Education & Research, Lucknow	22	16	72.73
10	Hindustan Institute of Maritime Training, Chennai	46	18	39.13
11	Hoon Maritime Institute, Kolkata	107	57	53.27
12	Indian Maritime University- Mumbai Port Campus	17	8	47.06
13	Institute of Marine Education & Research, Patna	88	39	44.32
14	Institute of Marine Engineers (India), Kochi	156	87	55.77
15	International Maritime Institute, Greater Noida	115	56	48.7
16	Mercantile Marine Academy, Kolkata	49	24	48.98
17	Marine Educational Charitable Trust, Kolkata	119	54	45.38
18	Massa Maritime Academy, Chennai	134	80	59.7
19	OERC Academy, Navi Mumbai	74	41	55.41
20	Pondicherry Maritime Academy, Puducherry	54	21	38.89
21	SEI Educational Trust, Faridabad	123	83	67.48
22	SEI Educational Trust, Kolkata	163	84	51.53
23	Sakshi Institute of Maritime Foundation, Mumbai	82	53	64.63
24	Seaskills Maritime Academy, Coimbatore	78	34	43.59
25	The Institute of Marine Engineers (India), Navi Mumbai	285	171	60
26	HIMT, Visakhapatnam	53	21	39.62
27	Zasha Institute of Maritime Studies, Dehradun	8	3	37.5
Total →		2647	1400	52.89

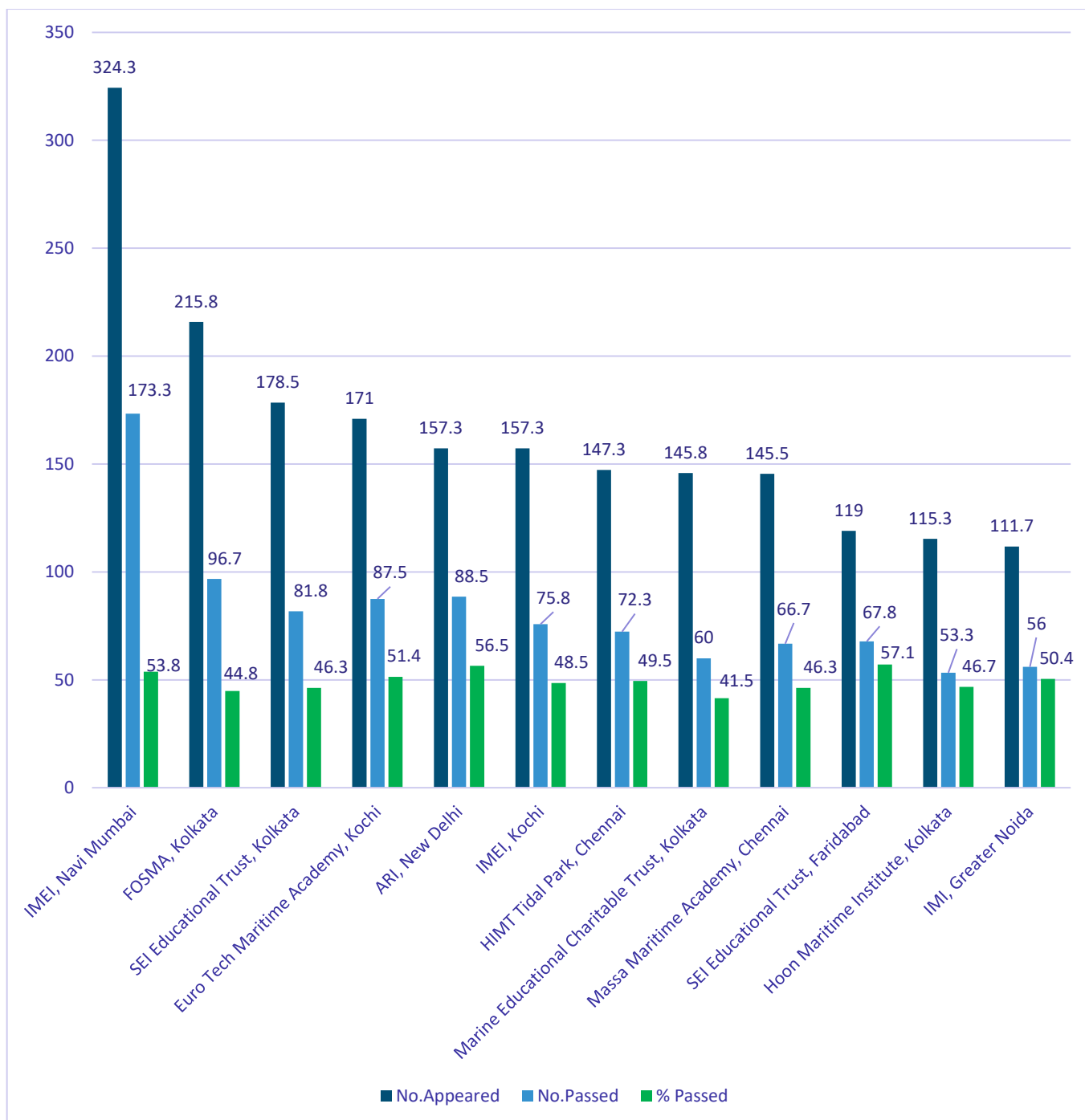


Fig.27: Performance of MTI (minimum 100 students) vis-à-vis MEO Class II examinations conducted in 2024

2.3 Electro Technical Officer (ETO) Examination:

The four-month pre-sea course is a mandatory requirement prior attempting the ETO examination and the performance of the students from different MTIs across India is analysed as below:

Table 8: Performance of ETO exam candidates vis-à-vis the MTI that conducted the pre-sea course

Subject: Marine Electro-Technology & SSEP				
S.No.	Name of Training Institute	Total Appeared	Pass	Pass %
1	AMET University (Chennai)	164	62	37.8
2	Anglo Eastern Maritime Academy (Karjat)	58	45	77.59
3	BP Marine Academy (Navi Mumbai)	130	39	30
4	Coimbatore Marine College (Coimbatore)	93	27	29.03
5	Euro Tech Maritime Academy (Kochi)	14	4	28.57
6	HIMT College (Kalpakkam)	66	28	42.42
7	International Maritime Institute (Greater Noida)	41	19	46.34
8	MTI (Mumbai)	29	8	27.59
9	R.L. Institute of Nautical Sciences (Madurai)	20	5	25
10	Samudra Institute of Maritime Studies (Lonavala)	5	2	40
11	Seacom Marine College, Howrah	5	1	20
12	The Great Eastern Institute of Maritime Studies (Lonavala)	93	43	46.24
13	Tolani Maritime Institute (Pune)	127	66	51.97
14	U.V. Patel College of Engineering (Mehsana)	8	3	37.5
	TOTAL →	853	352	41.27

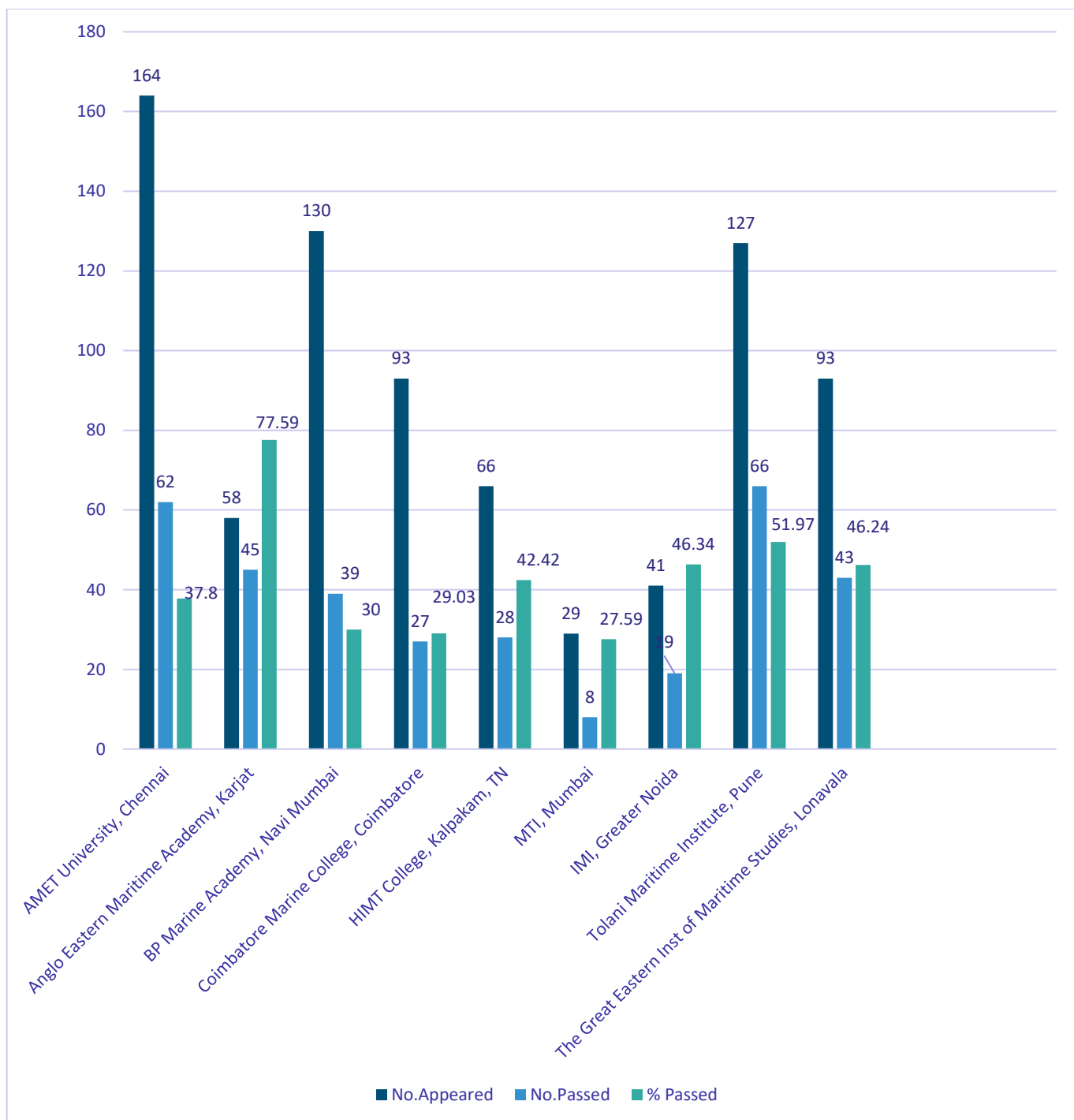


Fig.28: Performance of MTI (minimum 25 students) vis-à-vis ETO examinations-2024



3. SUMMARY



The Marine Engineer Officer (MEO) and the Electro-Technical Officer (ETO) grade of CoC examinations were conducted as per the annual schedule notified for the year 2024. In addition, to cater to the increasing demand from seafarers, additional batches were accommodated for the MEO Class IV Part 'B' grade of examinations. The gist of this report is summarized in the following paragraphs:

Achievements

- A1. A **record number of CoCs** were issued in the year 2024, across all grades of the MEO examinations. 627 MEO Class I CoC's were issued in the year 2024 which was 25% higher than the preceding year. The year reported 1052 new applicants registering for the MEO Class I CoC examination and 627 exited the system after successfully passing the examination. Amongst the Maritime Training Institutes (MTI) conducting the two months preparatory course for the MEO Class I exam, 'Institute of Marine Engineers (India) (IMEI), Kochi' reported the highest passing percentage of 47.67%, whereas 'Hoon Maritime Institute, Kolkata' reported the lowest passing percentage of 25% in the year 2024. [Comparative data of MTIs with minimum 50 students].
- A2. The number of MEO Class II CoCs issued in 2024 were 15% higher than the preceding year. The year 2024 had 2486 new applicants registering for the MEO Class II examinations and 1107 engineers exited the system after clearing the examinations. Amongst the Maritime Training Institutes (MTI) conducting the four months preparatory course for the MEO Class II exam, 'SEI Educational Trust, Faridabad' reported the highest passing percentage of 57.1%, whereas 'Marine Educational Charitable Trust, Kolkata' reported the lowest passing percentage of 41.5% in the year 2024. [Comparative data of MTIs with minimum 100 students].
- A3. A record number of 2542 MEO Class IV CoCs were issued in the year 2024 which is a rise of 28% over the previous year. The year was witness to 3141 students registering for the exams and 2542 students exist the system after issuance of the CoC on successful completion.
- A4. The NCV grade of Engineering CoC exams also followed the trend of the Foreign going CoC examinations and the NCV Class III CEO, Class III SEO and the NCV Class IV exams showed an increment of 33%, 64% and 83% respectively, in the number of CoCs issued over the previous year.
- A5. The Electro-Technical Officer (ETO) examination resulted in the issuance of 329 CoCs in the year 2024 which was 20% above the number of CoC issued in the year 2023. Amongst the MTIs that conduct the four-month pre-sea course for the ETO aspirants, Anglo-Eastern Maritime Academy, Karjat had an enviable passing percentage of 77.59% whereas the Maritime Training Institute, Powai, Mumbai had the lowest passing percentage of 27.59%, when compared with MTIs that trained a minimum of 25 fresh ETO aspirants in the year 2024.
- A6. 20900 Certificate of Proficiency (CoP) were issued in accordance with Chapter V of the STCW Code for service on oil/chemical/liquefied petroleum gas tankers as well for service on ships subject to the IGF Code. This is an increase of 10% over the previous year.

A7. The Certificate of Proficiency (CoP) for ratings forming part of an engine room watch (STCW III/4) and for Able-seafarer-Engine (STCW III/5) showed an increase in trend (28%) over the previous year and an aggregate of 5067 CoPs were issued in this category.

Strategies

- S1. The engine rating after completing sea service and complying with mandatory conditions had the option of appearing for the NCV grade of examinations for his/her career progression. This transition was disrupted owing to the pandemic and its aftereffects as most of the seafarers opted to continuously sail to make up for the loss of income incurred. The MTIs reported drastic drop in the number of seafarers opting for this shift. This was further complicated by the geopolitical scenario in the Black Sea region, which saw huge demand for the Indian NCV qualified seafarers abroad. The DG Shipping had constituted a committee to study the further opening of the NCV grade at the entry levels and for revisiting the NCV grade of examination conceptualized for the ships (other than tankers) up to 8000 KW. The DGS issued the DGS Order No.9 of 2024 in May 2024 which has detailed processes for the existing NCV engineers in making a smooth transition to the higher grade of CoC, as well to widen the entry criteria for the seafarers who wish to pursue a career as an engineer on merchant ships.
- S2. The above strategy has indicated a positive change in the number of engineers taking up the NCV grade examinations in the year 2024 and should yield further dividends in the coming years.
- S3. The improved numbers across all CoC examinations are also the result of optimizing the exam centre's capacity utilization, by providing additional batches, especially to the MEO Class IV applicants. MMD Mumbai reported the highest utility percentage/demand for MEO Class I examinations (51.6%) and ETO examinations (34%), whereas MMD Kochi reported the highest utility percentage for the MEO Class II examinations (70.7%). MMD Chennai reported the highest utility percentage for the additional batches conducted to address the demands of the MEO Class IV applicants (77%).
- S4. The DG Shipping has initiated an examination reforms project that aims to provide an end-to-end solution, eliminating human interference, creating a robust and transparent system that adheres to modern standards and upholds the highest levels of trust and compliance in our examination practices. The pilot has been rolled out in MMD Exam centre, Noida which shall be scaled and implemented across other MMD exam centres, in the coming months.







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