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Marine trader's method of payment and level of satisfaction towards infrastructural facilities of dry ports in India – an empirical study
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Abstract: All commodities and services moved by sea require at least two seaports; the importance of seaports to the smooth operation of an economy cannot be overstated. Maritime transport is used for most of the domestic and international trade (import/export). Due to a shortage of contemporary equipment and human resources throughout India, the shipping industry is experiencing delays in the transportation process for both imports and exports. Further shipping industry personalities are facing financial challenges related to the overseas transaction between two or more countries due to the huge payment formalities in India. India's shipping industry one of the backbones of Indian economy. In near future, the ministry of commerce and industry must take considerable steps for improving the effective method of payments as well as marine traders level satisfaction towards developing infrastructural facilities in dry port for utilize the great opportunities of shipping industry earnings to strengthen the India's BOP position as well as economic position and export-import volume in the world trade market.

1 Introduction

Seaports are essential for the waterborne transportation of all goods and services, their significance for the efficient functioning of an economy cannot be emphasized. Most local and international trade, including import/export, occurs via maritime transit. Despite this, there are still several challenges facing the Indian shipping sector in relation to domestic marine transportation as well as import and export. Seaborne trade is totally dependent on seaports for their operations, since they act as an interface conduit between inland and maritime container depots (dry port).

Therefore, in order to have a viable and effective maritime transport system, seaport productivity needs to be guaranteed. The present study is focusing towards determine the level of satisfaction regarding the dry port's infrastructures in the study location and to understand the payment methods performed by the maritime traders.

2 Literature review

A seaport's primary function is to ensure that goods and services are transported via its facilities quickly and safely, hence lowering average costs for shippers. "Seaports are interfaces between several modes of transport, and thus they are centres for combined transport," is how UNCTAD defines the relevance of seaports. Moreover, these are multipurpose marketplaces and industrial zones where products are not only transported but also processed, produced, and delivered. Maritime ports are multifaceted systems that, in order to adequately perform their roles, need to be integrated into logistical chains. Indian dry ports, or inland hubs for distribution and cargo consolidation, are anticipated to be essential in linking the country's numerous seaports to the global market.

However, in this process, dry ports contribute considerable role towards connecting the goods production place to port of loading place as well as port of importing place to goods consumption place in India.

India's dry ports are accessed by road or rail, with minimal value-added operations taking place. The Government of India began building a satellite port in Bombay in 1987 after realizing the value of both dry and maritime ports. The port opened for business in 1988, later the particular seaport is called as NNP port. The first dry port was subsequently built by CONCOR in Tughlakabad, New Delhi. Various marine traders at dry ports require different skills and experiences. In addition, the foreign traders must fulfil the legal obligations and business procedures that must be adhered to scrupulously. An exporter might need, for instance, a capable freight broker to bargain for the cheapest prices for a shipping voyage, a highly trained professional is involving with handling the appropriate stuffing process, another EXIM documentation professionals are following the foreign trade guidelines. For dry port users, these facilities will be great to receive all services from a single organization. However, since specialists can provide better value for money, the potential professional's marine trade activities have led to the emergence of experts in every field. As a result, the dry port operator has to make it less difficult for its customers to receive these experts' services from one location [1].

As per last count, India's 7,517 km coast includes 187 minor ports in addition to the 13 major ports. Approximately seventy-five percent of India's total trade in terms of value and 95% of its trade in volume are handled by these ports. Major ports have been overloaded and operating exceeding their intended capacity. Expansion in worldwide production and trade are the primary drivers of



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maritime transport activities. Therefore, the quantity of seaborne cargo that ports handle is primarily influenced by the levels and fluctuations of both domestic and worldwide industry. From April to February of 2022-2023, the volume of cargo handled at India's 12 major ports climbed by 9.4% to 711.55 million tonnes, up from 650.14 million tonnes in 2021–2022. All over India, the dry ports are acting as intermediary between the industries to seaports. The flow of EXIM information between shipping lines/carriers shippers/consignees and has considerably quicker through these dry ports. In this paper, the researcher provides a perspective on existing marine traders level of satisfaction towards sea and dry ports as well as their method of payments to observe the present position of marine trade [2].

In along with infrastructure, superstructure, and equipment, a functioning seaport requires appropriate links to other forms of transportation, motivated management, and a workforce having the appropriate skills. The ninety percentage of Indians economy is based on the shipping industry only, India has 1071 ships with 722 coastal areas with 349 overseas mother vessels. Naturally India's geographically located 7517 km coastline. 70 percentages of India's maritime transport are moving through sea route only. Therefore, GOI joined with ministry of commerce and shipping for improving the Indian foreign trade through offering various incentives schemes to marine traders, enterprises, port operators, ship builders as well as logistics players. For observe the operational efficiency of Indian Mari time industry and its mediator's level of satisfaction and challenges faced by them are necessary to obtain the real time data and study for improving the Indian economy as well as BOP position. That is the reason why, this present study is attempted by the researcher for observing actual situation and recommend to the maritime authorities and others involving with shipping industry to rectify the challenges [3].

Under the Companies Act, CONCOR was founded in 1988 and started operating in 1989, using the seven ICDs that the Indian Railways currently had across the country. The establishment of CONCOR was to provide multimodal logistical assistance for India's domestic and international trade and freight. As per the GOI, Ministry of Shipping report stated at present 2020, there are 247 Dry Ports and CFS involving with shipping transportation in Indian coastal area to other destination in 170 are functional condition and rest under implementation conditions [1-4].

A quality logistics service depends on good infrastructural facilities offered by sea and dry ports in any country. The transfer of commodities across international borders is greatly aided by logistics services; ineffective logistics services hinder trade by adding to the cost of both time and money. The need for effective logistics services is growing as industrialized countries move away from traditional manufacturing and agriculture and towards international vertical specialization. By decreasing the cost of products transportation, excellent logistics services help governments who suffer by being distant from major

markets becoming stronger competitors in the international market for exports. If the administrator of dry port knows the actual requirements of dry port users, it will be useful to develop the existing facilities of dry port. Therefore, this study will investigate the level of satisfaction perceived by marine traders and method of payment followed by them in the study area [5].

Data and methodology

The researcher has applied the stratified random sampling method for collecting the primary data and secondary published data related to marine traders in Indian perspectives. The researcher has selected the Coimbatore as an area of the study for conducting this present study. The sample for the study area was selected by the researcher employing a stratified random selection technique. Only relevant details were included in this study, which assisted in properly achieve the objective of the present study. The obtained data was not simply accepted; it additionally contained extraneous information and excessively data are minimized.

The primary data collected by the researcher through questionnaire method. The researcher has collected the questionnaire from marine traders that are exporter concern employee, importer concern employee, mediator's organization employees in Coimbatore dry port. The published data has collected from journals, articles, magazine, EXIM times, chamber of commerce Coimbatore, port of economics website, CONCOR website and ministry of commerce, ministry of shipping. The present study period is carried out by the researcher during the period June 2024 to February 2025.

Experts in field of marine trade are given the questionnaire to evaluate critically. Twenty respondents were given the questionnaire to complete in each of the four Tamilnadu locations in order to undertake pre-testing and pilot research. The purpose of the pretesting was to confirm the questionnaire's validity and reliability. It was done to ensure that the quality of questionnaire and its clarity level. The questionnaire was modified as needed with the help of pilot study, taking into account the feedback from the chosen sample of respondent's opinion. The respondents included in the pilot study are not included in the final study (data analysis). Apart from the pilot study 20 respondents, the researcher has collected 217 respondents in the study area [5-8].

The researcher has applied simple percentage method for find out the method of payments followed by marine traders and factors analysis for observe the level of satisfaction of marine traders in the study area.

There are certain limitations in the study that the researcher has identified, as it was conducted using both primary and desk research data. The accuracy of the information provided by all respondents may not always be known because some have a tendency to provide their own experience information. This present study is entitled as method of payment (Table 1) followed by marine traders and level of satisfaction of infrastructural facilities in dry



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port in Indian perspectives, even after a careful investigation is inseparable from the limitations. This study is not included the exporter, importer, ICD officials,

CFS officials, seaport authorities, documentation developers, service providers, public in this study due to time constraint [9-14].

Table 1 Method of payment followed by marine traders in dry port in Coimbatore

	Table 1 Method of payment followed by marine traders in dry port in Coimbatore Always Frequently Some times Rarely Not at a							ot oll				
S. No.	Purpose of payment	Method	Always		Frequently		Some times				No.	
		DD	No.	% 12	No. 74	34.1	No. 58	%	No. 32	%		12.4
			26				92	26.7		14.7	27	12.4
	Receipt of Export payment by the		16	7.4	28	12.9		42.4	48	22.1	33	15.2
	exporters	NEFT LC	-	-	58	26.7	85	39.2	49	22.6		11.5
			13	6.0	12	5.5	69	31.8	97	44.7	26	12
		DD	26	12	20	9.2	84	38.7	57	26.3	30	13.8
2.	Import payment by the Importer	Account	30	13.8	67	30.9	55	25.3	41	18.9	24	11.1
		NEFT	37	17.1	41	18.9	72	33.2	42	19.4	25	11.5
		LC	25	11.5	55	25.3	80	36.9	41	18.9		7.4
		Cash	23	10.6	60	27.6	77	35.5	44	20.3	23	10.6
3.	Warehouse Cargo Examination	DD	19	8.8	62	28.6	69	31.8	52	24.0		6.9
<i>J</i> .	Charges	Account	24	11.1	21	9.7	93	42.9	52	24.0		12.4
		NEFT	31	14.3	73	33.6		18.4	33	15.2	40	18.4
		Cash	41	18.9	48	22.1	27	12.4	75	34.6	26	12
1	Public and Private Bonded warehouse	DD	14	6.5	71	32.7	81	37.3	26	12.0		11.5
4.	charges	Account	12	55	.58	26.7	80	36.9	55	25.3	12	5.5
		NEFT	9	4.1	27	12.4	97	44.7	56	25.8	28	12.9
		Cash	22	10.1	59	27.2	45	20.7	44	20.3	47	21.7
_		DD	29	13.4	58	26.7	36	16.6	57	26.3	37	17.1
5.	Terminal Charges	Account	14	6.5	62	28.6	75	34.6	42	19.4		11.1
		NEFT		-	72	33.2	55	25.3	68	31.3		10.1
	Equipment (Trailer, Fork- lift, Crane) Charges	Cash	39	18	29	13.4	52	24	71	32.7	26	12
			22	10.1	66	30.4	81	37.3	17	7.8	31	14.3
6.		Account	3	1.4	50	23.0	73	33.6	60	27.6		14.3
	Charges	NEFT	3	1.4	19	8.8	146	67.3	21	9.7	28	12.9
		Cash	25	11.5	64	29.5	71	32.7	24	11.1	33	15.2
	Cargo handling (Stuffing and	DD	14	6.5	49	22.6	61	28.1	63	29.0		13.8
7.	Cargo handling(Stuffing and de-stuffing charges)		26	12	49	21.7	67	30.9	65	30.0		5.5
		Account NEFT	14	6.5	71	32.7	40	18.4	58	26.7	34	15.7
			34	15.7	74	34.1	61		29		19	
	Consolidation charges	Cash						28.1		13.4		8.8
8.		DD	33	15.2	85	39.2	48	22.1	37	17.1	14	6.5
		Account	24	11.1	41	18.9	137	63.1	12	5.5		1.4
		NEFT	3	1.4	38	17.5	120	55.3	43	19.8		6.0
		Cash	17	7.8	44	20.3	66	30.4	63	29.0		12.4
9.	Customs	DD	21	9.7	18	8.3	95	43.8	57	26.3		12
<i>y</i> .	documentation Charges	Account	16		71	32.7				44.2		0
		NEFT	30	13.8	39	18		20.3		34.1	30	13.8
	Customs Duty and fee	Cash	25	11.5	51	23.5	66	30.4		22.1	27	12.4
10.		DD	13	6.0	80	36.9		20.7		27.6		8.8
		Account	50	23	46	21.2	92	42.4		7.8	12	5.5
		NEFT	14	6.5	50	23.0	92	42.4	39	18	22	10.1
		Cash	29	13.4	53	24.4	37	17.1	64	29.5	34	15.7
	Mediator(CHA, FF, NVOC, Liners)	DD	14	6.5	39	18	76	35	51	23.5		17.1
	Charges	Account	32	14.74	70	32.25			64	29.49		8.29
		NEFT	-	-	94	43.3	58	26.7	33	15.2		14.7
		Cash	11	5.1	59	27.2	103			9.2	24	11.1
	GSP Certificate, Fumigation &	DD	12	5.5	69	31.8		24		32.7		6.0
12.	demurrage Charges	Account	13	6.0	34	15.7	113		51	23.5		2.8
(armanage charges	NEFT	3	1.4	31	14.3	72	33.2	99	45.6		5.5



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Results and discussion

In this present study, a sample of 217 respondents was analysed. Factor analysis, the most effective multivariate technique for identifying groups of determinants, was performed on the collected data after it had been categorized, tabulated, and processed. This method connects seemingly unrelated variables, revealing the underlying structure of the data by identifying common dimensions among observable variables. The objective of this study is to condense most of the original data into the fewest possible variables for predictive purposes. To achieve this, Principal Component Analysis (PCA) was employed. PCA is a factor model in which the factors are determined based on total variance. Another important concept in factor analysis is the rotation of factors. One widely used technique for simplifying the factor structure by maximizing the variance of a pattern matrix column is the varimax rotation. Additionally, the latent root criterion is applied; the column sum of squares for a factor is known as an Eigen value, which indicates the degree of data variance. Once the common factors have been identified, factor scores are calculated for each factor. The observed variables are expressed as linear combinations of these common elements.

Table 2 Level of satisfaction perceived by marine traders in the study area

study area		
LEVEL OF SATISFACTION		
PERCEIVED BY MARINE	Initial	Extraction
TRADERS		
Total areas of the dry port	1.000	.940
Annual capacity in terms of TEU	1.000	.843
Plot areas in terms of Sq.Mtrs	1.000	.940
Open container yard area	1.000	.894
Warehouse capacity	1.000	.980
Reefer point facilities with available	1.000	0.50
engineers	1.000	.958
Under one roof: surveyors, employees,	1.000	.786
and customs	1.000	.780
EDI and IT system connectivity	1.000	.794
Road and Rail connectivity	1.000	
Order fulfillment are	1.000	.940
Pick and Pack are	1.000	.809
Special cargo handling are	1.000	.830
Barcode scanning are	1.000	.989
Inventory visibility are	1.000	.893
Temporage controlled storage are	1.000	.950
Bonded warehouse are	1.000	.930
Non-bonded warehouse are	1.000	.915
DWELL TIME STUDY- Cargo arrival	1.000	.906
time in warehouse are	1.000	.900
Traffic time are	1.000	.978
Stuffing and de-stuffing time are	1.000	.864
Documentation processing time		
between entry to stuffing or De-stuffing	1.000	.956
are		

Cargo inspection time are	1.000	.937
Weighbridge facilities are	1.000	.933
Trailers facilities are	1.000	.926
Forklifts facilities are	1.000	.950
Reach stackers facilities are	1.000	.901
Top lifters are	1.000	.863
Cranes facilities are	1.000	.928
Gantry and container crane facilities are	1.000	.843
Customs filing and documentation	1 000	022
process for export	1.000	.933
Customs filing and documentation	1 000	022
process for import	1.000	.923
Pre-shipment documentation processes	1 000	0.60
in EDI	1.000	.960
Post-Shipment documentation	1 000	00.4
processes in EDI	1.000	.904
Level of cooperation of customs	1 000	0.40
officials and inspectors are	1.000	.840
Dry and sea port Labour support for	1 000	0.1.1
loading and unloading the cargo are	1.000	.944
EDI department employee advice and	1 000	0.61
cooperation are	1.000	.961
Skilled professionals and trained	1 000	07.4
manpower are	1.000	.874
Pilferage-Free ICD/sea port	1.000	.907
Round the clock CCTV surveillance	1.000	.904
Controlled access for visitors to the dry		
and marine port's gate, warehouse, and	1.000	.906
other locations		
Fire Fight Equipment	1.000	.954
Regular mock drill for health and safety	1.000	.862
High mast light for day light feel	1.000	.910
Underground drainage system	1.000	.962
Order management	1.000	.979
Vendor managed inventory	1.000	.889
Kitting	1.000	.941
Cargo insurance	1.000	.914
Assembly	1.000	.887
Re-packing and co-packing	1.000	.881
Reverse logistics	1.000	.878
Quarantine and disposal management	1.000	.807
Distribution of cargo	1.000	.936
Capacity to provide 3PL service	1.000	.934
Capacity to brovide 31 E service Capacity to launch new trailer	1.000	
	1.000	.956
Capacity to handle different types of	1.000	.938
Cargo	1 000	
Ability to adapt altering schedule	1.000	.983
Speed of action to take decisions	1.000	.902

A straightforward link between the variables and the factors is known as factor loading. Both the factors and the factor loading are contained in the factor matrix. Using a five-point rating system ranging from 5 to 1, the researcher used factor analysis to determine the degree of satisfaction of marine traders with the state of the available



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infrastructural facilities in the Coimbatore dry port. The SPSS software was used to conduct the factor analysis for the 58 factors. The analysis was carried out in phases,

including the extraction method Principal Component Analysis. PCA is the extraction method (Table 2).

Table 3 Explained by total variance

		Values	xpiainea by totai va	iriunice	Squared loading	ys.	
Combination		Proportion of Combined			Proportion of Combined		
Comomation	Overall	variation	percentage	Total	variation	Percentage	
1	8.189	14.119	14.119	8.189	14.119	14.11	
2	5.526	9.527	23.646	5.526	9.527	23.64	
3	5.065	8.732	32.378	5.065	8.732	32.37	
4	4.489	7.739	40.117	4.489	7.739	40.11	
5	3.769	6.498	46.615	3.769	6.498	46.61	
6	3.599	6.205	52.820	3.599	6.205	52.82	
7	3.220	5.551	58.371	3.220	5.551	58.37	
8	2.914	5.024	63.395	2.914	5.024	63.39	
9	2.699	4.653	68.049	2.699	4.653	68.04	
10	2.482	4.279	72.328	2.482	4.279	72.32	
11	2.073	3.574	75.902	2.073	3.574	75.90	
12	1.899	3.273	79.175	1.899	3.273	79.17	
13	1.800	3.103	82.278	1.800	3.103	82.27	
14	1.540	2.656	84.934	1.540	2.656	84.93	
15	1.389	2.395	87.329	1.389	2.395	87.32	
16	1.185	2.043	89.372	1.185	2.043	89.37	
17	1.027	1.771	91.143	1.027	1.771	91.14	
18	.884	1.524	92.666	1.027	1.//1	71.1-	
19	.798	1.375	94.041				
20	.758	1.307	95.349				
21	.738	1.245	96.594				
22	.569	.981	97.575				
23	.437	.753	98.328				
24	.381	.657	98.986				
25	.218	.376	99.362				
26	.171	.294	99.656				
27	.092	.158	99.815				
28	.092	.150	99.967				
29	.000	.033	100.000				
30	.000	.000	100.000				
31	.000	.000	100.000				
32	.000	.000	100.000				
33							
34	.000	.000	100.000 100.000				
		.000					
35	.000	.000	100.000				
36	.000	.000	100.000				
37	.000	.000	100.000				
38	.000	.000	100.000				
39	.000	.000	100.000				
40	.000	.000	100.000				
41	.000	.000	100.000				
42	.000	.000	100.000				
43	.000	.000	100.000				
44	.000	.000	100.000				
45	.000	.000	100.000				
46	.000	.000	100.000				
47	.000	.000	100.000				



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48	.000	.000	100.000	
49	.000	.000	100.000	
50	.000	.000	100.000	
51	.000	.000	100.000	
52	.000	.000	100.000	
53	.000	.000	100.000	
54	.000	.000	100.000	
55	.000	.000	100.000	
56	.000	.000	100.000	
57	.000	.000	100.000	
58	.000	.000	100.000	

The EIGEN values are presented in the table labelled "Initial Eigen Values." Each EIGEN Value indicates the "Total Variance" (Table 3) attributed to a specific factor. According to the extraction sum of squared loadings, the I factor accounted for a variance of 8.189, or 14.119%. The II factor explained a variance of 5.526, or 9.527%; the III factor explained 5.065, or 8.732%; the IV factor accounted for 4.489, or 7.739%; and the V factor explained 3.769, or 6.498%. The VI factor accounted for a variance of 3.599, or 6.205%; the VII factor explained 3.220, or 5.551%; the VIII factor explained 2.914, or 5.024%; the IX factor

accounted for 2.699, or 4.653%; the X factor explained 2.482, or 4.279%; and the XI factor accounted for 2.073, or 3.574%. Additionally, the XIII factor explained a variance of 1.800, or 3.103%; the XIV factor accounted for 1.899, or 3.273%; and the XV factor explained 1.540, or 2.656%. The XVI factor accounted for a variance of 1.389, or 2.395%; the XVII factor explained 1.185, or 2.043%; and the variance attributed to the XVIII factor is noted. This process illustrates factor determination using Eigen

Table 4 Inducing variables into factors and clustering

Б	CENERATING MARIE ALEG	Factor loading
Factor	GENERATING VARIBALES	
	Dry and sea port Labour support for loading and unloading the cargo are	.735
I	Order management	.719
	Assembly	.688
II	Documentation processing time between entry to stuffing or De-stuffing are	.679
	Warehouse capacity	.673
	Cargo insurance	.665
III	Vendor managed Inventory	.619
	Plot areas in terms of Square Meters.	.618
	Top lifters are	.615
	Temporage controlled storage are	.610
IV	Level of cooperation of customs officials and inspectors are	.600
1,	Road and Rail connectivity	.593
	Ability to adapt altering schedule	.590
	Inventory visibility are	.579
V	Fire Fight Equipment	.576
·	Controlled access for visitors to the dry and marine port's gate, warehouse, and other locations	.574
	Pre-shipment documentation processes in EDI	.570
VI	Capacity to handle different types of cargo	.568
	Skilled professionals and trained manpower are	.567
	Underground drainage system	.562
VII	Capacity to launch new trailer	.562
	Pilferage-Free ICD/sea port	.560
	Speed of action to take decisions	.550
VIII	Under one roof: surveyors, employees, and customs	.548
	Customs filing and documentation process for import	.546
IX	Reach stackers facilities are	.538
171	Quarantine and disposal management	.535



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	Weighbridge facilities are	.535
	Trailers facilities are	.532
	DWELL TIME STUDY- Cargo arrival time in warehouse are	.532
	reverse logistics	.529
	cranes facilities	.526
X	Kitting	.523
	Open container yard area	.523
	Customs filing and documentation process for export	.518

Seventeen factors were found to account for the maximum percentage of variance in the Table 4. Factor I is the variable Dry and Sea Port Labour Support for loading and unloading the cargo; it contributes 0.735 percent to the variance in the total. With a score of 0.518, the variable Customs filing and documentation process for export is the last factor to be secured.

As per the present study results reveals that, marine traders are receiving their export payments from importer through bank accounting transaction between two countries. At the same time, import payments are followed through bank demand draft. Marine traders are remitting their warehouse cargo examination charges through accounting transaction, public and private bonded warehouse charges, terminal charges, and equipment charges, cargo handling charges, consolidation charges, customs duty and fee are remitted through NEFT transaction in Indian sea and dry port operations area.

The ministry of commerce and shipping ministry join together for simplifies the marine traders and its facilitators like shipping mediators' way of remitting the payments in two way process both export and import payments connected with shipper payments as well as Government duties and charges for improve the operational efficiency of international traders in connected with shipping industry. As per the ministry of commerce and industry Indians exports volume in March 2021 were USD 34.45 Billion and Imports in March 2021 were USD 48.38 Billion (Rs.3,52,191.21Crore) rupees, this volume shows that India have huge export -import transaction even the pandemic period. So, the GOI, ministry of commerce & industry, ministry of shipping, port trust authorities, chamber of commerce and shipping industry inter mediatory organization must convince the meeting for improve the effective export import and its allied payments methods in India. The present method of payments are little complicated one since foreign traders are dealing with demand draft, Account transaction, NEFT transaction and letter of credit transaction for their shipping payment process, instead of the various method, if GOI is establish and propose the common e-payment method for completing the export and import payments in shipping industry it will be more useful to improve the India's BOP position, efficiency of Indian foreign traders as well as intermediaries of shipping industry in India.

Conclusion

Seaports are essential for linking domestic supply chains to the international market in the era of globalization. Many nations now prioritize improving port operations. In match with the growth of world GNP, the development of international business has become more noticeable. The need for shipping services is increased since a larger portion of exports are now shipped by sea through dry ports. The previous few years have seen a rise in global trade in goods, instrumental for achieving the growth of global trade is dry ports. The entire marine trade business sector activities are getting progressive growth in recent years and there are no changes in the positive growth area in shipping industry (IAME 2007). The shipping industry are facing delay shipment process in two ways exports as well as imports, due to the lack of infrastructural facilities like marine trade experts and modern equipment's in India. Further shipping industry personalities are facing financial challenges related to the overseas transaction between two or more countries due to the huge payment formalities in India. India's shipping industry one of the backbones of Indian economy. It is acting as a major role between India versus other countries in terms of transfer the surplus goods to world market and imports the deficit goods to Indian markets through sea routes. Right now, during the pandemic period 2020-21 Indian shipping industry are acting as major safeguard elements to supply the basic medicines and its related goods from world market to India. As per the WTO prediction, the world trade volume will fall down nearly 32% due to the impact of Covid-19. The entire marine trade is affected from shipyards to seaports. It shows that, India's marine trade operation bottlenecks in terms infrastructural facilities and lack of smart technologies like port digitization, artificial intelligence, RFID technologies and internet of things. In near future, the ministry of commerce and industry must take considerable steps for improving the effective method of payments as well as marine traders level satisfaction towards developing infrastructural facilities in dry port for utilize the great opportunities of shipping industry earnings to strengthen the India's BOP position as well as economic position and export-import volume in the world trade market.

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Review process

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