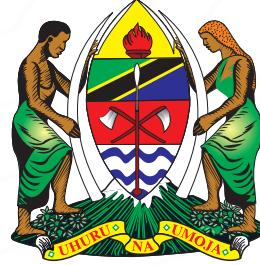


THE UNITED REPUBLIC OF TANZANIA



**MINISTRY OF WORKS AND TRANSPORT
(TRANSPORT SECTOR)**

TRANSPORT AND METEOROLOGY SECTOR STATISTICS

DECEMBER 2019

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FOREWORD

Transport sector plays a catalyst role for development of other sectors of the economy. It fosters national integrations, facilitates domestic and international trade; minimizes regional inequality, connects urban and rural, regional and international access to resources, goods and services, lowers production costs, enhances economies of scale in the production process, creates economic opportunities and realisation of a country's comparative advantages.

Presence of efficiency and effective transport infrastructure and services contributes to the successful implementation of socio-economic activities by providing people with mobility that fosters employment, education, retail, health, recreational facilities and other societal amenities.

The ninth goal of the Sustainable Development Goals (SDGs) - 2030 is “Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation”. In that case investment in infrastructure particularly transport are declared to be crucial for economic growth and development.

Recognizing the facilitative role of Transport Sector to the economic growth, the Ministry of Works and Transport (Transport Sector) has been preparing and publishing Annual Transport and Meteorology Sector Statistics in collaboration with key MDAs to enable other sectors to have access to important transport data and information for policy formulation, strategic planning and monitoring their implementation.

In this regard, I wish to thank all key stakeholders who participated in providing data and information for completion of this Transport and Meteorology Sector Statistics for the year ending December, 2019. I am confident that the available data and information in the Document will be very important and useful for preparation of various development reports.

Gabriel J. Migire
PERMANENT SECRETARY - TRANSPORT

LIST OF ABBREVIATIONS

DMI	Dar es Salaam Maritime Institute
GDP	Gross National Product
HQ	Head Quarter
JNIA	Julius Nyerere International Airport
KIA	Kilimanjaro International Airport
MDAs	Ministries, Departments and Agencies
MSCL	Marine Services Company Limited
MWTC	Ministry of Works, Transport and Communication
NBS	National Bureau of Statistics
NIT	National Institute of Transport
PORALG	President's Office—Regional Administration & Local Government
TASAC	Tanzania Shipping Agencies Corporation
LATRA	Land Transport Regulatory Authority
TPA	Tanzania Ports Authority
TRC	Tanzania Railways Corporation
TCAA	Tanzania Civil Aviation Authority
TAA	Tanzania Airports Authority
TAZARA	Tanzania Zambia Railway
TMA	Tanzania Meteorological Authority
TRA	Tanzania Revenue Authority

TARURA	Tanzania Rural & Urban Roads Authority
TANROADS	Tanzania National Roads Agency
TEU	Twenty Foot Equivalent Unit
FEU	Forty Foot Equivalent Unit
LCL	Less Container Load
MPS	Miscellaneous Ports Services
ICD	Inland Container Depots
ECD	Empty Container Depots
CFS	Container Freight Station
GMV	Gross Mass Verifiers

CHAPTER ONE

1.0 INTRODUCTION

Statistics are indispensable for formulation of sound policies and recommendation, determining the existing position, providing information and data as input for planning, monitoring and evaluation of programs. This Transport and Meteorology Statistics publication serves as a brief and comprehensive reference for transport and meteorology services. It covers basic data and information from transport subsectors including; Road, Rail, Maritime, Air and Meteorological sector.

The document incorporates and presents statistics in a simple way that enhances users' quick visual interpretation and reference, the analysis includes interactive charts that shows trends and behavior of transport sector over time.

This document has nine chapters; the first being Introductory part of transport sector, second to nine chapters present road, rail, port, marine transport, inland water transport, air transport, meteorology services and training institutions consecutively.

Inputs have been received from Institutions/Agencies intersecting the Transport Sector activities in Tanzania under, President's Office – Regional Administration and Local Government (PO-RALG), Ministry of Works, Transport and Communication (Works and Transport Sector). These institutions includes Tanzania Roads Agency (TANROADS), Tanzania Rural and Urban Roads Agency (TARURA), Land Transport Regulatory Authority (LATRA), Tanzania Shipping Agencies Corporation (TASAC), Tanzania Ports Authority (TPA), Tanzania Railways Corporation (TRC), Tanzania Civil Aviation Authority (TCAA), Tanzania Airports Authority (TAA), Tanzania Zambia Railway (TAZARA), Marine Services Company Limited (MSCL), Tanzania Meteorological Authority (TMA), Dar Es Salaam Maritime Institute (DMI), National Institute of Transport (NIT), Tanzania Revenue Authority (TRA) and Traffic Police (HQ).

BASIC BACKGROUND DATA

TABLE 1.1: DATA DESCRIBING TANZANIA, 2019

S/N	PARTICULAR	DATA/INFORMATION
1.	Location	East Coast of Africa lays between latitudes 1°S and 12°S and between longitudes 29°E and 41°E
2.	Shared border	Kenya and Uganda to the North, Rwanda, Burundi and Democratic Republic of Congo to the West and Zambia, Malawi to the South West and Mozambique to the South.
3.	Total area of Tanzania (000 Sq. Km)	947.3km ² of which 61.5 km ² is water representing a part of Ocean, Lakes Victoria, Tanganyika Nyasa, Rukwa, Eyasi and several other smaller lakes and rivers and whereas landmass is 885.8 km ²
4.	Capital City	Dodoma with projected population of 2.568 Million (2019)
5.	Commercial City	Dar es Salaam with projected population of 5.275 million (2019)
6.	Number of Regions	26 regions in Tanzania Mainland and 5 regions in Zanzibar (i.e 31 regions)
7.	Rainfall	203.2 – 2224.1 mm per year
8.	Tanzania Population (Projected)	54.3 million people (2019)
9.	Other major regions with their projected population (000)	Mwanza (3,676,300), Kagera (3,127,908), Tabora (2,974,427)
10.	Estimated Average Population Density of the Country	63 Inhabitants per square kilometer (inh/km ²)
11.	Extremes of average population density of the country	Dar es Salaam about 3,787 inhabitants/km ² to 15 inhabitants/km ² in Lindi Region.
12.	GDP at Market Prices	Tshs.139,893,804 million (2019)
13.	GDP Growth rate	7.0% (2019)
14.	Transport and storage growth rate	8.7 % (2019)
15.	Transport and storage share to GDP	6.9% (2019)
16.	Classified Road Network	89,204 Km (2019)
17.	Railway Network	Tanzania has a total Railway Network of 3,682 Km, of which TRC 2,707 Km (meter gauge) operated by TRC and 975 Km (cape gauge) operated by TAZARA (TZ section).
18.	International Airports	JNIA, KIA and Abeid Aman Karume (AAKIA)
19.	Aerodromes Network	Tanzania has 368 airports in including airstrips serving domestic and international traffic. Tanzania Airports Authority (TAA) operates 58 and others are operated by various institutions.
20.	Ports Network	There are 3 major seaports namely DSM, Mtwara and Tanga, and other small seaports at Kilwa, Lindi, Mafia, Pangani and Bagamoyo. There are also major Inland Water Ways ports at Kigoma, Mwanza, Bukoba, Musoma and Mbeya (Itungi).
21.	Major Mountains	Mt. Kilimanjaro, Mt. Rungwe and Mt. Meru
22.	Major Lakes	Lake Victoria, Lake Tanganyika and Lake Nyasa
23.	Major Rivers	Kagera, Ruvuma and Rufiji

Source: MWTC& NBS.

TABLE 1.2: PERCENTAGE SHARES OF GROSS DOMESTIC PRODUCT BY KIND OF ECONOMIC ACTIVITY (At current prices)

S/N	ECONOMIC ACTIVITY	2013	2014	2015	2016	2017	2018	2019
A	Agriculture, forestry and fishing	26.8	25.8	26.8	27.4	28.8	27.9	26.6
	Crops	14.4	14.0	14.1	15.2	16.6	16.3	14.8
	Livestock	7.7	6.8	7.6	7.6	7.5	7.2	7.4
	Forestry	2.8	3.0	3.1	2.9	2.8	2.7	2.7
	Fishing	1.9	2.0	2.0	1.8	1.9	1.7	1.7
	Agriculture Support Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B	Mining and quarrying	4.3	3.8	4.3	4.9	4.4	5.1	5.2
C	Manufacturing	9.1	9.1	7.9	7.8	7.7	8.1	8.5
D	Electricity supply	0.8	1.0	0.9	0.4	0.4	0.3	0.3
E	Water supply; sewerage, waste management	0.4	0.5	0.4	0.4	0.4	0.4	0.4
F	Construction	10.9	10.8	11.1	11.3	12.2	13.1	14.3
G	Wholesale and retail trade; repairs	9.7	9.7	9.3	9.1	9.1	9.1	8.8
H	Transport and storage	7.2	7.5	7.3	7.0	6.7	6.5	6.9
I	Accommodation and Food Services	1.8	1.6	1.5	1.4	1.4	1.3	1.3
J	Information and communication	2.0	1.9	1.8	1.6	1.5	1.5	1.5
K	Financial and insurance activities	3.5	4.4	4.4	4.9	4.0	3.8	3.5
L	Real estate	3.5	3.3	3.1	2.9	2.8	2.8	2.7
M	Professional, scientific and technical activities	0.5	0.5	0.6	0.6	0.6	0.6	0.6
N	Administrative and support service activities	2.1	2.3	2.3	2.5	2.6	2.6	2.6
O	Public administration and defense	5.0	4.8	4.8	4.5	4.2	4.0	3.8
P	Education	2.4	2.5	2.6	2.5	2.4	2.4	2.4
Q	Human health and social work activities	1.5	1.5	1.5	1.4	1.4	1.4	1.4
R	Arts, entertainment and recreation	0.3	0.3	0.3	0.3	0.3	0.3	0.3
S	Other service activities	0.8	0.8	0.8	0.8	0.8	0.8	0.8
T	Activities of households as employers;	0.2	0.2	0.2	0.2	0.2	0.2	0.2
	All economic activities	92.5	92.2	91.7	91.8	91.8	92.1	91.9

	Taxes on products	7.5	7.8	8.3	8.2	8.2	7.9	8.1
	GDP at market prices	100						

Source: The Economic Survey 2019, NBS

**TABLE 1.3: GROSS DOMESTIC PRODUCTS BY KIND OF ECONOMIC ACTIVITY
(At constant 2015 prices)**

S/N	ECONOMIC ACTIVITY	2015	2016	2017	2018	2019
A	Agriculture, forestry and fishing	25,234,560	26,436,338	28,008,976	29,504,198	30,801,226
	Crops	13,279,392	13,996,348	14,895,622	15,659,175	16,351,012
	Livestock	7,158,457	7,506,593	7,876,592	8,266,049	8,676,074
	Forestry	2,920,425	3,034,569	3,180,379	3,334,791	3,495,187
	Fishing	1,843,401	1,864,627	2,020,292	2,206,242	2,240,163
	Agriculture Support Services	32,886	34,201	36,091	37,941	38,790
	Industry and Construction	23,103,647	25,817,955	28,565,774	31,344,128	35,042,891
B	Mining and quarrying	4,055,619	4,356,709	4,588,624	4,659,195	5,486,097
C	Manufacturing	7,411,672	8,213,364	8,889,818	9,623,501	10,184,558
D	Electricity supply	798,801	869,262	877,667	928,174	994,820
E	Water supply; sewerage, waste management	390,758	417,899	444,660	477,510	510,411
F	Construction	10,446,797	11,960,720	13,765,005	15,655,747	17,867,005
	Services	38,146,529	40,549,564	42,689,011	45,369,789	48,118,368
G	Wholesale and retail trade; repairs	8,747,862	9,260,703	9,821,248	10,396,691	10,963,963
H	Transport and storage	6,929,895	7,324,856	7,815,845	8,736,561	9,493,191
I	Accommodation and Food Services	1,421,916	1,480,052	1,525,619	1,604,391	1,651,794
J	Information and communication	1,681,098	1,718,548	1,824,471	1,989,717	2,133,313
K	Financial and insurance activities	4,189,021	4,235,515	4,115,393	4,094,972	4,281,167
L	Real estate	2,949,598	3,077,086	3,211,895	3,354,518	3,505,485
M	Professional, scientific and technical activities	518,123	606,207	694,291	763,332	821,636
N	Administrative and support service activities	2,183,917	2,611,498	2,892,463	3,054,288	3,311,753
O	Public administration and defense	4,548,604	4,793,820	4,907,113	5,064,968	5,236,678
P	Education	2,413,306	2,665,336	2,859,171	3,046,789	3,257,866

Q	Human health and social work activities	1,419,090	1,497,896	1,611,999	1,746,731	1,834,012
R	Arts, entertainment and recreation	248,510	280,131	307,907	350,027	389,225
S	Other service activities	717,898	814,529	912,404	971,690	1,037,083
T	Activities of households as employers;	177,691	183,387	189,193	195,113	201,203
	All economic activities	86,484,736	92,803,857	99,263,761	106,218,115	113,962,485
	Taxes on products	7,864,579	8,024,535	8,393,644	8,923,215	9,213,354
	GDP at market prices	94,349,316	100,828,393	107,657,405	115,141,329	123,175,839

Source: The Economic Survey 2019, NBS

TABLE 1.4: GROSS RATES OF DOMESTIC PRODUCTS BY KIND OF ECONOMIC ACTIVITY (At constant 2015 prices)

	ECONOMIC ACTIVITY	2015	2016	2017	2018	2019
A	Agriculture, forestry and fishing	5.4	4.8	5.9	5.4	4.4
	Crops	7.6	5.4	6.4	5.2	4.4
	Livestock	4.9	4.9	4.9	4.9	5.0
	Forestry	3.4	3.9	4.8	4.9	4.8
	Fishing	-4.5	1.2	8.4	9.2	1.5
	Agriculture Support Services	4.5	4.0	5.5	5.2	2.2
B	Mining and quarrying	10.0	7.4	5.3	1.5	17.7
C	Manufacturing	7.1	10.8	8.2	8.3	5.8
D	Electricity supply	-2.0	8.8	1.0	5.8	7.2
E	Water supply; sewerage, waste management	2.4	6.9	6.4	7.4	6.9
F	Construction	12.9	14.5	15.1	12.9	14.8
G	Wholesale and retail trade; repairs	3.6	5.9	6.1	5.8	5.5
H	Transport and storage	5.4	5.7	6.7	11.8	8.7
I	Accommodation and Food Services	1.7	4.1	3.1	5.2	3.0
J	Information and communication	7.8	2.2	6.2	9.1	7.2
K	Financial and insurance activities	11.3	1.1	-2.8	-0.5	4.5
L	Real estate	4.3	4.3	4.4	4.4	4.5
M	Professional, scientific and technical activities	15.7	17.0	14.5	9.9	7.6
N	Administrative and support service activities	10.5	19.6	10.8	5.6	8.4
O	Public administration and defense	7.2	5.4	2.4	3.1	3.4
P	Education	10.4	10.4	7.3	6.6	6.9
Q	Human health and social work activities	5.1	5.6	7.6	8.1	5.0
R	Arts, entertainment and recreation	7.7	12.7	9.9	13.7	11.2
S	Other service activities	4.7	13.5	12.0	6.5	6.7
T	Activities of households as employers;	3.2	3.2	3.2	3.1	3.1
	All economic activities	6.9	7.3	7.0	6.9	7.2
	Taxes on products	-1.7	2.0	4.6	8.0	3.3
	GDP at market prices	6.2	6.9	6.8	7.0	7.0

Source: The Economic Survey 2019, NBS

CHAPTER TWO

2.0 ROAD TRANSPORT INFRASTRUCTURE AND SERVICES

The total road network in Tanzania is 89,204 km classified as National Roads (Trunk & Regional) which is 36,258 Km and District Roads, 52,946 Km (Collector, Feeder and Urban roads).

The implementation of Roads Development and Maintenance is under two Roads Agencies namely;

- i. Tanzania National Roads Agency (TANROADS) which is a semi-autonomous Agency under the Ministry of Works and Transport (Works) which deals with Trunk and Regional Roads and
- ii. Tanzania Rural and Urban Roads Agency (TARURA) which is a semi-autonomous Agency under the Ministry of Presidents' Office, Regional Administration and Local Governments (PORALG) which deals with District Roads (Collector, Feeder and Community Roads).

2.1 Classified National Road Network

Road classification as classified by the minister responsible for construction as per Road Act of 2007. The classified road network in Tanzania is indicated in tables below;

Table 2.1.1 Classified National Road Network

YEAR	CLASIFIED ROAD NETWORK			
	TANROADS NETWORK		TANROADS NETWORK	
2015	36,258	2015		36,258
2016	36,258	2016		36,258
2017	36,258	2017		36,258
2018	36,258	2018		36,258
2019	36,258	2019		36,258

Table 2.1.2 District Roads Network Classification

YEAR	Paved Km	% of Paved to TARURA Network	Gravel Km	% of Gravel to TARURA Network	Earth Km	% of Earth to TARURA Network	Total TARURA Network Km
2017	1,449.55	1.30%	24,405.40	22.40%	83,091.24	76.30%	108,946.19
2018	1,449.55	1.30%	24,405.40	22.40%	83,091.24	76.30%	108,946.19
2019	2,250.69	2.10%	27,809.26	25.60%	78,886.25	72.40%	108,946.19

Source: TARURA

Table 2.1.3 Trunk and Regional Road Network

Year	Trunk Roads		Regional Roads		Total
	Paved	Unpaved	Paved	Unpaved	
	Km	Km	Km	Km	Km
2015	7,342	5,444	1,321	20,893	35,000
2016	7,646	5,140	1,398	20,816	35,000
2017	7,807	4,416	1,458	22,578	36,258
2018	8,306	3,870	1,756	22,326	36,258
2019	8,671	3,551	1,808	22,228	36,258

Source: MOWTC & TANROADS

2.2: Roads' condition

Road condition is determined by a survey carried out annually for paved roads and biannually for unpaved roads for planning and budgetary purposes among others. Roads in good condition would require routine maintenance, those in fair condition periodic maintenance and in poor condition require rehabilitation.

Table 2.2.1 Trunk and Regional Roads' condition

Year	Good		Fair		Poor		Total	
	KM	%	KM	%	KM	%	KM	%
2015	11,330	36	15,627	50	4,408	14	31,366	100
2016	12,388	41	13,642	45	4,235	14	30,265	100
2017	11,682	36	16,639	52	3,849	12	32,169	100
2018	11,043	35	15,864	51	4,216	14	31,123	100
2019	12,865	39	16,692	50	3,617	11	33,174	100

Source: TANROADS

2.3 Bus Fares and Routes

Table 2.5.1: Average Bus Fares from Dar es Salaam to other regions

S/N	DESTINATION	2018			2019		
		NUMBER OF SERVICES PER DAY	TRAVEL TIME (HRS)	AVERAGE FARES (TSHS)	NUMBER OF SERVICES PER DAY	TRAVEL TIME (HRS)	AVERAGE FARES (TSHS)
1	Arusha	56	12	33,000	65	12	33,000
2	Bukoba (Via Singida)	12	30	65,000	12	26	65,000
3	Dodoma	38	9	28,000	36	9	22,000
4	Iringa	17	10	25,000	16	9	22,000
5	Kondoa	6	16	25,000	4	13	24,000
6	Lindi	5	9	23,000	14	6	20,000
7	Lushoto	17	13	12,000	14	8	12,000
8	Mbeya	27	14	38,000	27	14	40,000
9	Moshi	39	10	33,000	65	10	33,000
10	Mpwapwa	4	9	17,000	4	9	17,000
11	Mtwara	8	11	23,000	14	8	23,000
12	Musoma	8	32	60,000	5	20	50,000
13	Njombe	6	12	25,000	7	12	28,000
14	Rombo	6	12	25,000	8	10	25,000
15	Shinyanga	8	16	45,000	13	20	45,000
16	Singida	7	12	33,000	7	10	33,000
17	Songea	5	18	46,000	6	15	46,000
18	Sumbawanga	4	36	70,000	4	21	55,000
19	Tanga	40	8	19,000	40	7	16,000
20	Tabora	7	15	40,000	7	14	40,000

S/N	DESTINATION	2018			2019		
		NUMBER OF SERVICES PER DAY	TRAVEL TIME (HRS)	AVERAGE FARES (TSHS)	NUMBER OF SERVICES PER DAY	TRAVEL TIME (HRS)	AVERAGE FARES (TSHS)
21	Masasi/Nachingwea	7	14	25,000	3	9	23,000
22	Handeni	11	10	10,000	11	6	10,000
23	Ifakara	-	13	-	6	14	16,000
24	Geita	-	21	-	2	23	45,000
25	Kigali (Rwanda)	-	28	-	Twice per week	56	85,000
26	Kigoma	4	28	60,000	6	24	60,000

Source: LATRA

2.5.2: Average bus fares from Dodoma to other region

SN	DESTINATION	DISTANCE (KM)	2018			2019		
			TRAVEL TIME (HRS)	NUMBER OF SERVICE /DAY	AVERAGE FARES (TSHS)	TRAVEL TIME (HRS)	NUMBER OF SERVICE /DAY	AVERAGE FARES (TSHS)
1	Dar es Salaam	451	8	38	20,000	8	46	22,000
2	Singida	245	5	4	15,000	5	1	12,000
3	Arusha	425	8	7	23,000	6	5	23,000
4	Iringa Via Mtera	264	5	6	12,000	4	5	10,000
5	Kondoa	160	3	17	10,000	4	10	7,000
6	Mbeya	594	10	5	28,000	10	4	28,000
7	Moshi	509	8	4	27,000	8	5	27,000
8	Mpwapwa	125	4	5	7,000	3	6	6,000
9	Musoma	924	15	2	40,000	15	1	40,000
10	Njombe	485	9	2	18,000	9	4	23,000
11	Rombo via Babati/Kondoa	601	11	3	30,000	-	-	-
12	Shinyanga	539	10	5	30,000	-	-	-
13	Songea	721	12	1	38,500	13	1	38,500
14	Tanga	581	11	3	25,000	10	4	23,000
15	Ifakara via Morogoro	482	11	2	21,000	11	1	22,000
16	Tabora Via Itigi	378	7	3	30,000	7	4	24,300
17	Mwanza (via Singida)	701	N/A			9	8	30,000
18	Songwe	665	N/A			10	1	30,000

Source: LATRA

Table 2.5.3: Average bus fares from Dar es Salaam to neighboring Countries

S/N	Destination	2018			2019		
		Number of Service/Day	Travel Time (HRS)	Average Fares	Number of Service/Day	Travel Time (HRS)	Average Fares
1	Bulawayo	2 per week	84	175,500	2 per week	78	150,000
2	Harare	3 per week	60	132,500	1 per week	75	145,000
3	Lusaka	2 per week	42	110,000	1 per week	54	125,000
4	Kigali	2 per week	48	85,000	2 per week	56	85,000
5	Bujumbura	2 per week	48	85,000	5 per week	50	85,000
6	Kampala (via Bukoba)	2 per week	42	105,000	1 per week	53	110,000
7	Lilongwe	2 per week	42	90,000	1 per week	50	110,000
8	Lubumbashi	3 per week	60	112,500	1 per week	74	135,000
9	Nairobi	4 per week	16	72,500	4 per week	19	70,000
10	Mombasa	3 per week	18	32,500	8 per day	13	30,000

Source: LATRA

2.6 Motor Vehicles Licensed for Road Transport

Table 2.6.1: Motor Vehicles Licensed for Road Transport

Type of License	2015	2016	2017	2018	2019
Passenger Services Vehicle Licensed	47,451	46,619	51,749	56,449	55,495
Goods Services Vehicle Licensed	81,567	87,274	99,484	111,345	123,451
Total	129,018	133,893	151,233	167,794	178,946

Source: LATRA

Table 2.6.2: Motor Vehicles Licensed for Road Transport in Dar es Salaam

S/N	BUS CAPACITY	2015	2016	2017	2018	2019
1	<=15	599	1,346	3,027	2,765	2,420
2	16-25	952	2,064	4,475	5,135	5,539
3	26-45	1,662	3,267	6,422	6,478	6,442
4	46-65	328	541	892	900	868
5	Above 65	2	5	11	7	12
TOTAL		3,543	7,223	14,827	15,285	15,281

Source: LATRA

2.7 Road Accidents

Table 2.7.1: Road Traffic Motor Vehicle Traffic Accidents in Tanzania

S/N	Year/Descriptions	2015	2016	2017	2018	2019
1	Total Number of Accidents	8,337	9,856	5,578	3,732	2,704
2	Number of killed persons	3,468	3,256	2,581	1,788	1,440
3	Number of Injured Persons	9,383	8,958	5,489	3,746	2,834

Source: TRAFFIC POLICE

Table 2.7.2: Road Traffic Motor Vehicle Traffic Accidents in Tanzania Mainland

S/N	Year/Descriptions	2017	2018	2019
1	Number of Accidents	5,578	3,732	2,704
2	Number of killed persons	2,581	1,788	1,440
3	Number of Injured Persons	5,489	3,746	2,834

Source: TRAFFIC POLICE

Table 2.7.3: Sources of Road Motor Vehicle Traffic Accidents in Tanzania Mainland

S/N	YEAR/DESCRIPTIONS	2017	2018	2019
1	Reckless Driving	2,191	1,542	1,160
2	Vehicles Defects	381	197	105
3	Speed	509	364	288
4	Other Factors	752	481	46
5	Alcohol/Intoxication	93	61	492
6	Careless Motor Cyclist	1,142	725	72

Source: TRAFFIC POLICE

2.8 Registered Vehicles in Tanzania

Table 2.8.1: Number of Vehicles by Category

S/ N	Vehicle Category	2015	2016	2017	2018	2019
1	Motorcycles less than 3 wheels)	1,026,709	1,193,484	1,325,228	1,440,502	1,587,814
2	Motor tricycles	63,478	70,502	79,195	90,153	103,727
3	Light passengers vehicles (less than 12 persons)	507,607	547,264	579,512	617,487	657,282
4	Heavy passengers vehicles (12 or more passers)	54,748	57,879	60,709	63,773	66,698
5	Light load vehicles (GVM 3500 or less	92,068	99,034	102,071	106,475	110,925
6	Heavy load vehicles (GVM>3500 kg)	95,402	99,034	102,935	109,305	115,794
7	Trailer	35,765	38,346	40,460	43,732	47,925
8	Agricultural tractor	18,762	20,431	21,869	23,394	25,122
9	Agricultural trailer	922	946	979	985	1,010
10	Construction Equipment	7,891	8,536	9,210	10,448	11,829
11	Others	5,010	5,934	6,826	7,569	8,376
	TOTAL	1,908,362	2,140,223	2,328,994	2,513,823	2,736,502

Source: TRA

CHAPTER THREE

3.0 RAILWAY INFRASTRUCTURE AND SERVICES

The railway system of mainland Tanzania has a total track length of 3,676 kilometres (km) with two separate networks run by two separate organisations. These are the Tanzania – Zambia Railway Authority (TAZARA), which maintains and operates 975 km network including the Tanzania- Zambia railway line from Dar es Salaam to Kapiri Mposhi in Zambia and Tanzania Railways Corporation (TRC) which maintains and operates over 2,706 km network including Tanzania’s railway links to Kenya and Uganda.

The performance of rail sector for the period from 2006 to 2019 is illustrated with parameters of railway routes, volume of passengers and volume of cargo, passenger kilometre, ton-kilometre, locomotive availability, locomotive reliability and domestic freight as shown in the following tables.

3.1 Railway Routes

Table 3.1.1 TRC railway routes

SN	STATIONS		DISTANCE (KM)	STATUS
	HUB	DESITINATIONS		
1	Dar es Salaam (DSM)	Kigoma (KGM)	1,251	Operates
2	Tabora (TBR)	Mwanza (MZA)	378	Operates
3	Kaliua (KUA)	Mpanda (MPN)	212	Operates
4	Kilosa (KLO)	Kidatu (KDU)	108	No operations
5	Manyoni (MAN)	Singida (SGD)	115	No operations
6	Ruvu Junction (RVJ)	Mruazi (MZU)	188	Operates
7	Tanga (TAN)	Moshi (MOS)	351	Operates
8	Kahe (KAH)	Taveta (TVT)	18	No operations
9	Moshi (MOS)	Arusha (ARS)	86	Operates

Source: TRC

Table 3.1.2 TAZARA railway routes

SN	STATIONS		DISTANCE (KM)	STATUS
	HUB	DESITINATIONS		
1	Dar es Salaam	New Kapiri Mposhi- NKM	1860	Operational
2	Nakonda - NKD	New Kapiri Mposhi- NKM	900	Operational
3	Dar es salaam - DSM	Mbeya - MBY	860	Operational
4	Makambako - MBK	Kidatu - KDT	365	Operational
5	Dar es salaam - DSM	Mwakanga - MKG	20	Operational

Source: TAZARA

3.2 Railway Passengers Traffic

Table 3.2.1: Railway Passengers Traffic

S/N	DESCRIPTION	RAILWAY PASSANGERS ('000' Pax)						
		2013	2014	2015	2016	2017	2018	2019
1	TRC Passengers	492	295	388	517	566	591	493
2	TAZARA Passengers	703	536	455	414	484	543	891
Total Railway Passengers		1,195	831	843	931	1,050	1,134	1,384

Source: TRC& TAZARA

3.2.2 Railways Passengers ('000 Passenger Km)

YEAR	TRC (000 PAX KM)	TAZARA (000 PAX KM)	TOTAL (000 PAX KM)
2006	324,922	298,092	623,014
2007	315,507	349,712	665,219
2008	321,352	344,135	665,487
2009	374,121	285,782	659,903
2010	150,645	303,203	453,848
2011	328,508	300,219	628,727
2012	290,000	288,140	578,140
2013	333,458	84,000	417,458
2014	205,180	202,000	407,180
2015	296,816	129,473	426,289
2016	353,245	151,687	504,932
2017	386,442	229,200	615,642
2018	412,927	201,400	614,327
2019	368,403	225,341	593,744

Source: TRC & TAZARA

3.3 Railway Freight Traffic

Table 3.3.1: Railway Freight (000 Tons)

Year	TRC Freight (000 Tons)	TAZARA Freight (000 Tons)	Total Freight (000 Tons)
2006	775	601	1,376
2007	545	539	1,084
2008	505	528	1,033
2009	453	383	836
2010	256	523	779
2011	267	534	801
2012	198	339	537
2013	154	218	372
2014	190	208	398
2015	585	88	673
2016	209	128	337
2017	352	171	523
2018	379	221	580
2019	355	176	531

Source: TRC & TAZARA

Table 3.3.2: Railways Freight ('000 Ton Km)

Year	TRC (000 Ton Km)	TAZARA (000 Ton Km)	Total (000 Ton Km)
2006	665,813	869,022	1,534,835
2007	477,273	469,212	946,485
2008	506,011	798,009	1,304,020
2009	505,967	487,620	993,587
2010	251,843	711,260	963,103
2011	264,899	812,990	1,077,889
2012	143,600	484,085	627,685
2013	145,738	258,000	403,738
2014	200,242	239,000	439,242
2015	231,865	102,135	334,000
2016	230,204	130,269	360,473
2017	360,955	248,600	609,555
2018	375,902	339,400	715,302
2019	323,203	278,300	601,503

Source: TAZARA & TRC

3.4 Railway locomotive availability and reliability

The higher the percentage the more locomotive available to provide services

Table 3.4.1: Railway Average Locomotive Availability (%) (Shunting & Mainline Locomotives).

Year	TRC Average Locomotive Availability per Day (%)	TAZARA Average Locomotive Availability per Day (%)	Railway Average Locomotive Availability per Day (%)
2006	52.0	66.1	59.1
2007	52.0	47.4	49.7
2008	70.0	38.0	54.0
2009	69.0	56.5	63.0
2010	62.0	54.4	58.2
2011	50.0	55.0	52.5
2012	38.0	47.4	42.7
2013	33.0	58.1	45.6
2014	44.0	60.3	52.2
2015	56.0	52.0	54.0
2016	66.5	58.0	52.5
2017	78	39.9	59.5
2018	77	52.2	132.2
2019	76	41.0	121.5

Source: TRC & TAZARA

Table 3.4.2: Locomotive Reliability for TRC and TAZARA

Year	TAZARA (km/failure)	TRC (km/failure)	TOTAL (km/failure)
2015	6,945	3,842	10,787
2016	5,985	5,484	11,469
2017	8,100	9,107	17,207
2018	8,085	8,253	16,338
2019	8,550	10,151	18,701

Source: TRC & TAZARA * The higher the km per failure the better the efficiency.

3.5 Railways Domestic Freight

Table 3.5: Railways Domestic Freight

YEAR	TAZARA FREIGHT(000 TONS)	TRC FREIGHT(000 TONS)	TOTAL FREIGHT (000 TONS)
2006	150	535	816
2007	131	585	716
2008	84	245	329
2009	28	19	218
2010	89	161	250
2011	56	202	258
2012	55	151	206
2013	26	127	153
2014	29	185	214
2015	37	202	239
2016	38	208	246
2017	47	243	298
2018	33.2	325	291.2
2019	33.2	293	326.2

Source: TRC & TAZARA

3.6 Railways Accident

Table 3.6 Railways Accident

S/N	TYPE	2015		2016		2017		2018		2019	
		TRC	TZR								
1.	Deaths Incidences	11	3	13	28	10	14	16	20	6	27
2.	Incidences leading to Injuries	12	21	27	2	12	8	10	28	5	24
3.	Collisions	4	10	2	19	1	23	3	2	8	4
4.	Derailment & Capsizements	106	30	115	21	275	22	227	27	366	45
5.	Wash ways	8	2	29	2	22	1	40	0	24	0

CHAPTER FOUR

4.0 MARINE TRANSPORT SERVICES

The actual maritime transport service involves the movement of goods by vessel between the port of embarkation, where the merchandise is received from the exporter/seller, and the port of destination, where the merchandise is claimed by the importer/buyer. Marine Transport is international if performed from the port of one country to the port of another country, this implies that regulatory system is involved whenever an international maritime transport service is supplied.

4.1 Safety Inspections in Marine Transport

To ensure maritime transport safety, surveys and inspections are carried out according to the requirement of Part IX of the Merchant Shipping Act, 2003 to enable the administration to verify that the conditions of the ships' hull, machinery and equipment are being maintained satisfactorily. In each calendar year TASAC ensure safety and security of the vessels through various survey and inspections of vessels as illustrated in the table as follows.

Table 4.1.1: Number of Surveys and Inspections conducted on Small Vessels (Vessels with Gross Tonnage below 50)

S/N	Maritime region	2016	2017	2018	2019
1	Dar es Salaam	318	194	147	285
2	Geita	24	86	241	120
3	Kagera	1,128	1,374	773	1,934
4	Kigoma	164	206	676	1,231
5	Mara	577	999	314	576
6	Mbeya, Ruvuma and Njombe	54	56	69	115
7	Mtwa and Lindi	11	335	140	143
8	Mwanza and Ukerewe	1,117	734	590	1,385
9	Pwani	61	156	48	135
10	Rukwa and Katavi	230	113	46	188
11	Tanga	64	732	390	421
	Total	3,748	4,985	3,434	6,533

Source: TASAC

Table 4.1.2: Number of Surveys conducted on Ships (Vessels Above 50GT or 24m)

S/N	Maritime Region	2018	2019
1	Dar es Salaam	14	7
2	Pwani	0	2
3	Tanga	0	3
4	Mtwara & Lindi	0	7
5	Mwanza & Ukerewe	38	66
6	Kagera	0	2
7	Kigoma	3	7
8	Rukwa & Katavi	0	0
9	Mbeya, Ruvuma & Njombe	3	5
10	Mara	1	3
11	Geita	1	0

Source: TASAC

Table 4.1.3: Number Flag State Inspections

S/N	Maritime Region	2018	2019
1	Dar es Salaam	2	26
2	Pwani	0	0
3	Tanga	37	28
4	Mtwara & Lindi	2	23
5	Mwanza & Ukerewe	15	127
6	Kagera	0	7
7	Kigoma	0	2
8	Rukwa & Katavi	0	0
9	Mbeya, Ruvuma & Njombe	0	3
10	Mara	1	15
11	Geita	3	0

Source: TASAC

Table 4.1.4: Number of Port State Control Inspections (Foreign going ships)

S/N	Maritime Region	2018	2019
1	Dar es Salaam	4	2
2	Tanga	3	2
3	Mtwara	0	0

Source: TASAC

Table 4.1.5: Number of Port State Control Inspections (Local and Regional ships)

S/N	Maritime Region	2018	2019
1	Dar es Salaam	0	14
2	Pwani	0	0
3	Tanga	0	0
4	Mtwara & Lindi	0	0
5	Mwanza & Ukerewe	2	1
6	Kagera	0	0
7	Kigoma	3	12
8	Rukwa & Katavi	0	1
9	Mbeya, Ruvuma & Njombe	1	0
10	Mara	0	2
11	Geita	1	0

Source: TASAC

4.2 Registered Seafarers

Number Seafarers issued with Certificates and Discharge Books in accordance with the International Convention on Standards of Training, Certification and Watch Keeping for Seafarers 1978 (STCW 1978) as amended, has increased. Certificates are issued with an objective of ensuring that ships are manned with competent and qualified seafarers.

Table 4.2.1: Number of Seafarers Certificates and Discharge Books

S/ N	Type of Certificate	2015	2016	2017	2018	2019
1	Certificates of Competency (COC)	105	351	184	36	118
2	Certificates of Proficiency (COP)	6,143	14,458	9,964	2,886	5,723
3	Discharge Books(DB) for Seafarers	126	280	388	173	429
	Total	6,374	15,089	10,536	5,699	4,833

Source: TASAC

Table 4.2.2: Number of Certificates (Based on Port of registry)

S/N	Port of registry	2018	2019
1	Dar es Salaam	10	3
2	Tanga	0	0
3	Mtwara	0	4
4	Mwanza	15	21
5	Bukoba	0	0
6	Kigoma	2	1
7	Kasanga	0	0
8	Itungi	2	0
9	Mbamba bay	0	0
10	Musoma	0	0

Source: TASAC

4.3 Clearance and forwarding

TASAC has an exclusive mandate in clearing and forwarding functions relating to import and export of minerals, mineral concentrates, machineries, equipment, products or extracts related to minerals, petroleum, firearms and ammunition, live animals, Government trophies, fertilizers, industrial sugar, domestic sugar, edible or cooking oil, wheat, oil products, gas, liquefied gas and chemicals. Table 4.3 illustrate cargo cleared with TASAC.

Table 4.3: Goods Cleared with TASAC

S/N	DESCRIPTION	2019
1	Export goods clearance	194,568,353
2	Import cargo clearance	2,354,879,038

Source: TASAC

4.4 Service Providers in Marine Transport

TASAC is vested with the mandate to regulate maritime transport services as per section 10 and 12 of Cap. 415. Registration of service providers and issuance of licenses/certificate is one of the regulatory roles of TASAC under the Directorate of Maritime Transport services.

The validity of certificates/licenses is one (1) calendar year starting from January to December and are renewable. Besides that, new service providers are allowed to lodge new applications at any time bearing in mind the validity period specified with the exception of Miscellaneous Ports Services (MPS) which considers a period of one year at any point of the application. Further, licenses for port terminal and dry port service operators as per the relevant regulations governing the sector are issued with the expiry period of ten (10) years to Major sea port, five years (5) for Major waterways ports, three years (3) for small seaport and small inland waterways port and five (5) years for dry ports (ICD, ECD &CFS). The number of service providers in marine transport are as illustrated in the following tables:-

Table 4.4.1: Number of registered Service providers in Marine Transport

S/N	Regulated Subsectors	Validity period	2017	2018	2019
1	Cargo consolidators/De-consolidators	One calendar year	37	29	28
2	Clearing and Forwarding Agents	One calendar year	728	662	824
3	Container Freight Stations (CFS)	Five Years	-	4	5
4	Empty Container Depots (ECD)	Five years	-	-	1
5	Gross Mass Verifiers (GMV)	One Financial Year	68	39	41
6	Inland containers depots (ICD)	Five years	8	16	17
7	Licensed Port Terminal Operators	Ten Years	-	-	-
8	Miscellaneous Ports Services (MPS)	One year based on the date of issuance	43	18	81
9	Shipping Agents	One calendar year	34	29	27
Total			918	797	1,024

Source: TASAC

Table 4.4.2: Licensed Small Vessels (Vessels below 50GT or 24m)

S/N	Maritime Region	2018	2019
1	Dar es Salaam	139	235
2	Pwani	22	75
3	Tanga	247	191
4	Mtwara & Lindi	52	92
5	Mwanza & Ukerewe	466	928
6	Kagera	702	1,103
7	Kigoma	76	983
8	Rukwa & Katavi	32	99
9	Mbeya, Ruvuma & Njombe	49	24
10	Mara	181	277
11	Geita	40	63

Source: TASAC

4.5 Navigation, Security and Environment

TASAC through Maritime Rescue Coordination Centre (MRCC) has been issuing marine weather reports and recording marine accidents and incidences reported as displayed in table 4.5.1 and 4.5.2. The graph shows that number of accidents increases steadily with years.

Table 4.5.1: Reported and recorded Marine Accidents

S/N	DESCRIPTION	2018	2019
1	Marine Accidents	5	6
2	Number of persons involved in distress	296	54
3	Number of persons rescued	54	83
4	Number of Persons Causality	242	15

Source: TASAC

Table 4.5.2 Issued Marine Weather reports (Indian Ocean & Lake regions)

S/N	Type of reports	2018	2019
1	Weather	-	723
2	Warning	-	413

Source: TASAC

CHAPTER FIVE

5.0 PORTS INFRASTRUCTURE AND SERVICES

5.1 Ports

Tanzania Mainland has a system of Sea and Lake Ports serving the Tanzania hinterland and the land linked countries of Zambia, Democratic Republic of Congo (DRC), Rwanda, Burundi, Malawi, Uganda and Zimbabwe. The Ports are located along coastal areas and lakes as listed in Table 5.1. Tanzania Ports Authority (TPA) is the institution responsible for operation of systems of ports.

Table 5.1: Ports along Coast and Lakes

S/N	Port Type	Ports Name	Location
1.	Main Ports along Coast	Dar es Salaam	Indian Ocean
		Tanga	Indian Ocean
		Mtwara	Indian Ocean
2.	Main Ports along Lakes	Mwanza North	Lake Victoria
		Mwanza South	Lake Victoria
		Bukoba	Lake Victoria
		Kemondo Bay	Lake Victoria
		Nansio	Lake Victoria
		Nyamirembe	Lake Victoria
		Musoma	Lake Victoria
		Kigoma	Lake Tanganyika
		Kasanga	Lake Tanganyika
		Karema	Lake Tanganyika
		Kyela / Itungi	Lake Nyasa
		Manda	Lake Nyasa
		Liuli	Lake Nyasa
		Mbamba Bay	Lake Nyasa
3.	Small Ports along Coast	Bagamoyo	Indian Ocean
		Mbwani	Indian Ocean
		Mafia	Indian Ocean
		Kwale	Indian Ocean
		Kisiju	Indian Ocean
		Nyamisati	Indian Ocean
		Pangani	Indian Ocean
		Mwambani	Indian Ocean
		Chongoliani	Indian Ocean
		Lindi	Indian Ocean
		Kilwa Kivinje	Indian Ocean
		Kilwa Masoko	Indian Ocean
		Mikindani	Indian Ocean
		Songosongo	Indian Ocean
4.	Small Ports along Lakes	Kilwa Kisiwani	Indian Ocean
		Rukirya	Indian Ocean
		Shirati	Lake Victoria
		Kinesi	Lake Victoria

S/N	Port Type	Ports Name	Location
		Bukondo	Lake Victoria
		Kahunda	Lake Victoria
		Chato	Lake Victoria
		Nkome	Lake Victoria
		Nungwe	Lake Victoria
		Muharamba	Lake Victoria
		Solima	Lake Victoria
		Ukara	Lake Victoria
		Kyamkwikwi	Lake Victoria
		Karumo	Lake Victoria
		Nyakario / Buchenzi	Lake Victoria
		Maisome	Lake Victoria
		Kome Ntama	Lake Victoria
		Buchosa	Lake Victoria
		Nyakalilo	Lake Victoria
		Kibara	Lake Victoria
		Magarini	Lake Victoria
		Nyamkazi	Lake Victoria
		Itabagumba	Lake Victoria
		Lushamba	Lake Victoria
		Lugata	Lake Victoria
		Tongwe	Lake Victoria
		Kagunga	Lake Tanganyika
		Karema	Lake Tanganyika
		Sigunga	Lake Tanganyika
		Kasenda	Lake Tanganyika
		Kalya	Lake Tanganyika
		Kasanga	Lake Tanganyika
		Kipili	Lake Tanganyika
		Msamba	Lake Tanganyika
		Ninde	Lake Tanganyika
		Kala	Lake Tanganyika
		Wampembe	Lake Tanganyika
		Lagosa	Lake Tanganyika
		Ujiji	Lake Tanganyika
		Sibwesa	Lake Tanganyika
		Kirando	Lake Tanganyika
		Kalya	Lake Tanganyika
		Kapalamsenga	Lake Tanganyika
		Ikola	Lake Tanganyika
		Mtanga	Lake Tanganyika
		Mgambo	Lake Tanganyika
		Kibirizi	Lake Tanganyika
		Tongwe	Lake Tanganyika
		Korongwe	Lake Tanganyika
		Kibirizi	Lake Tanganyika
		Herembe	Lake Tanganyika

S/N	Port Type	Ports Name	Location
		Katonga	Lake Tanganyika
		Kabwe	Lake Tanganyika
		Matema	Lake Nyasa
		Lundu	Lake Nyasa
		Lupingu	Lake Nyasa
		Ifungu	Lake Nyasa
		Mkili	Lake Nyasa
		Njambe	Lake Nyasa
		Ndumbi	Lake Nyasa
		Kiwira	Lake Nyasa
		Nsisi	Lake Nyasa
		Lumbila	Lake Nyasa
		Makonde	Lake Nyasa

Source: TPA

5.2 Capacity of Main Sea Ports

The capacity of main Sea Ports entails docking facilities for vessels and dhows, open and covered facilities used for cargo handling and storage that as listed in Table 5.2.

Table 5.2. Capacity of Main Sea Ports

S/N	DETAIL	DAR ES SALAAM	TANGA	MTWARA
1.	Deep Water Berths No.	12	2	2
2.	Total Length (m)	2,390	450	685
3.	Depth Dredged (m)	10.5 - 14.5	3.5	9.8 - 13
4.	Bulk Oil Jetty (Tanker Berth) No.	2	0	0
5.	Single Buoy Mooring (SBM) No.	1	0	0
6.	Grain Silo (30,000 Tons)	1	0	0
7.	Lighterage & Dhow Wharves No.	1	0	1
8.	Lighterage & Dhow Wharves Length	185	0	12.3
9.	Paved Open Storage (m ²)	279,613	4,300	124,100
10.	Transit Depots	-	-	-
	Ubungo (m ²)	29,745	0	0
	Kurasini (m ²)	40,385	0	0

5.3 Cargo Handling Equipment and Marine Crafts

These are onshore and offshore equipment and sea going crafts that are used for loading and discharging operations as well as handling of vessels as listed in the Table 5.3.

Table 5.3 Cargo Handling Equipment and Marine Crafts

S/N	FACILITIES	DAR ES SALAAM		TANGA	MTWARA
		G/Cargo	TICTS		
1. CARGO HANDLING EQUIPMENTS CRANES					
	Portal Cranes	8	0	0	0
	Mobile Cranes	6	0	3	2
	Tower Cranes	0	0	2	0
	Harbour Crane	9	0	4	1
	Ship to Shore Gantry Cranes	0	6	0	0
	Rubber Tire Gantry Crane	3	17	0	0
	Rail Mounted Gantry Cranes	0	1	0	0
	Floating Cranes	0	0	0	0
2. OPERATIONAL EQUIPMENTS					
	Tractors	35	44	7	6
	Trailers	74	39	27	12
	Forklifts (3–5 Ton)	76	18	5	11
	Forklifts (8-42 Ton)	24	1	7	4
	Front Loaders	0	0	0	0
	Cranes Crawlers	0	0	0	2
	Reach Stacker	18	0	4	2
	Conveyors (loading, chain & Bert)	6	0	0	0
	Empty Handler	7	7	1	3
	Grabs	15	0	7	0
	Spreader	20	0	15	10
	Weighbridge	8	0	3	2
	Bucker Elevators	3	0	0	0
	Grain Hoppers	15	0	4	2
	Bagging scales	3	0	0	0
	Dust Collection Unit	3	0	0	0
	Mobile Bagging Unit	10	0	0	0
3. MARINE CRAFTS					
	Berthing tugs	6	0	1	1
	Lighters towing Tugs	0	0	2	0
	Cargo Lighters	12	0	1	0
	Pontoons	1	0	7	0
	Labor launches	0	0	1	0
	Pilot Boats	3	0	3	0
	Patrol Boats	2	0	3	2
	Mooring Boats	1	0	1	1
	Water Barge	0	0	5	0
	SBM Tender	1	0	0	0

5.4 Navigational Aids and Light

Port approaches and channels have structures that are installed on land or floating on Sea and Lakes to mark the side limits and border of fairways as well as to show conditions significant to safe navigation of vessels and marine crafts as shown in Table 5.4.

Table 5.4 Navigational Aids and Light

STATION	NAVIGATION AID TYPE	TOTAL IN NOS	RANGE (NM)	SOURCE OF LIGHTS	ABOVE HIGH WATER (MTRS)
DSM PORT	STEEL BUOYS Red (p s) Green (s.s) Beacons Leading mark/ LM Light House (Makatumbe)	11 6 8 13 2	5.5 - 7 5.5 - 7 5.5 - 7 10 - 18 15 - 96	Solar Solar Solar Solar Solar	- - - - 29
MAFIA CHANNEL	STEEL BUOYS Light House Ras Mkumbi	4 2	3 15.96	Gas Gas	- 31
TANGA PORT	STEEL BUOYS Red (ps) Green (s.s) PLASTIC BUOYS Red (ps) Green (s.s) Beacons Leading mark/LM Light house Cardinal Buoy	2 2 7 8 6 7 2 2	3 5.5 - 7 3 3 5.5 - 6.1 7 - 12.6 12 - 14.5 3	Gas Solar Solar Solar Gas & Solar " " Gas & Solar Solar	- - - - - - - -
MTWARA PORT	STEEL BUOYS Red (ps) Green (s.s) GRP Red Leading mark/LM Light House	3 3 1 4 1	5.5 - 7 5.5 - 6.1 4 7 - 12.6 18 - 14	Solar Solar Gas Solar Gas	- - - 16 -
LINDI PORT	STEEL BUOYS Red (ps) Green (s.s) Beacons Leading mark/LM Light House	- 1 2 - 2 1	- 3 3 - - -	- Gas Gas - Gas Gas	- - - - - 10
KILWA	STEEL BUOYS Leading mark/LM	3 4	4 7-12.6	Gas Gas	- -
MWANZA NORTH	STEEL BEACONS	6	2 - 4	Solar	-
MWANZA SOUTH	STEEL BEACONS	1	2	Solar	-
	STEEL BEACONS	1	2	Solar	-

STATION	NAVIGATION AID TYPE	TOTAL IN NOs	RANGE (NM)	SOURCE OF LIGHTS	ABOVE HIGH WATER (MTRS)
	GRP Beacon	2	2 - 4	Solar	-
MWALONI JETTIES	STEEL BEACONS	8	2 – 4	Solar	6
BUSISI FERRY	STEEL BUOYS	1	2	Solar	-
	STEEL BEACONS	4	2	Solar	6
BUKOBA	STEEL BEACONS	5		Solar	6
KEMONDO BAY	STEEL BUOYS	3	2	Solar	-
	STEEL BEACONS	2	2	Solar	6
	GRP Beacons	2	2.8	Solar	6.8
MUSOMA	STEEL BEACONS	4	2 - 8	Solar	9.9
NANSIO	STEEL BUOYS	4	2 - 6	Solar	6.7
	STEEL BEACONS	2	2 - 8	Solar	-

Source: TPA

5.5 Cargo handled at Ports

5.5.1 Total Imports and Exports handled at Main Ports

It comprises seaborne trade traffic to Tanzania and neighboring land linked countries as well as exports from the same to markets in other parts of the World. Total cargo discharged and loaded through Dar es Salaam, Tanga and Mtwara Ports as shown in Table 5.5.1.

Table 5.5.1 Total Imports and Exports handled at Main Ports

S/No.	TYPE	2015	2016	2017	2018	2019
1.	Imports	12,606,653	12,119,017	12,317,877	13,297,501	13,675,355
2.	Exports	2,582,108	2,488,376	2,692,203	2,937,211	3,097,687
	TOTAL	15,188,761	14,607,393	15,010,080	16,234,712	16,773,042

5.5.2 Imports and Exports at each Main Port

It entails cargo imported, exported or transshipped at the main Sea Ports of Dar es Salaam, Tanga and Mtwara as shown in Table 5.5.2.

Table 5.5.2 Imports and Exports at each Main Port

S/N	PORT	DESCRIPTION	2015	2016	2107	2018	2019
1.	DAR ES SALAAM	Imports	11,905,592	11,260,548	11,460,984	12,682,586	13,138,769
		Exports	2,210,026	2,031,226	2,044,935	2,451,775	2,797,795
		Transshipment	200,851	289,173	255,618	266,915	86,388
		Sub Total	14,316,469	13,580,947	13,761,537	15,401,276	16,022,952
2.	TANGA	Imports	595,441	562,896	509,897	612,440	469,463
		Exports	139,522	82,402	79,606	76,401	110,368
		Sub Total	734,963	645,298	589,503	688,841	579,831
3.	MTWARA	Imports	105,620	150,986	91,378	2,475	67,123
		Exports	136,940	220,162	286,212	142,120	189,525
		Sub Total	242,560	371,148	377,590	144,595	256,648
	TOTAL	Import	12,606,653	11,974,430	12,062,259	13,297,501	13,675,355
		Export	2,486,488	2,333,790	2,410,753	2,670,296	3,097,687
		Transshipment	200,851	289,173	255,618	266,915	86,388
GRAND TOTAL		15,293,992	14,597,393	14,728,630	16,234,712	16,859,430	

5.5.3 Categories of Cargo handled at Ports

The Tanzanian Ports handle all categories and sub-categories of cargo namely; dry bulk, break bulk, containers, neo bulk and liquid bulk. Some of the categories handled at **Dar es Salaam Port (000'Tons)** are as shown in the Table 5.5.3.

Table 5.5.3 Categories of Cargo handled at Ports

S/N	DESCRIPTION	2015	2016	2017	2018	2019
1.	Dry Bulk					
	Imports	6,657	6,087	6,376	7,199	7,424
	Exports	2,137	1,915	1,986	2,353	2,697
	Sub Total	8,794	8,002	8,362	9,552	10,121
2.	Bulk Oil					
	Imports	4,882	4,772	4,740	5,169	5,456
	Exports	362	116	59	99	101
	Sub Total	5,244	4,888	4,799	5,268	5,557
3.	Other Bulk Liquid					
	Imports	362	401	344	315	259
	Exports	0	0	0	0	0
	Sub Total	362	401	344	315	259
4.	Transshipment	201	289	256	267	86
	Sub Total	201	289	256	266	86
	Total Imports	11,901	11,260	11,460	12,683	13,139

	Total Exports	2,499	2,031	2,045	2,452	2,798
	Total Transshipment	201	289	256	267	86
	GRAND TOTAL	14,601	13,580	13,761	15,401	16,023

Source: TPA

5.5.4 Transit Traffic

The Tanzanian Ports also handle cargo on transit from foreign suppliers to the neighboring land linked countries as well exports from those countries to markets in other parts of the World. The total loaded and discharged transit traffic at **Dar es Salaam Port ('000 Tons)** are as shown in Table 5.5.4.

Table 5.5.4. Transit Traffic

TYPE	2015	2016	2017	2018	2019
Imports	4,436	3,903	4,644	4,191	4,916
Exports	818	677	654	921	1,030
TOTAL	5,254	4,580	5,298	5,112	5,947

Source: TPA

5.5.5 Cargo Handled at Ports by Country

The amount of cargo handled at the Dar es Salaam Port (**000' Tons**) for the top seven countries is shown in Table 5.5.5

Table 5.5.5 Cargo handled at Ports by Country

S/N	COUNTRY	DESCRIPTION	2015	%	2016	%	2017	%	2018	%	2019	%	
1.	Tanzania	Imports	7,328	63	7,356	65	6,704	59	8,492	75	8,070	72	
		Exports	1,385	55	1,271	62	1,103	63	1,391	79	1,342	76	
2.	Zambia	Imports	1,705	15	1,584	14	1,794	16	1,168	10	1,458	13	
		Exports	199	8	155	8	227	13	336	19	305	17	
3.	D.R Congo	Imports	1,194	10	789	7	785	7	1,240	11	1,249	11	
		Exports	521	21	364	17	391	22	540	31	665	38	
4.	Burundi	Imports	349	3	301	3	404	4	367	3	431	4	
		Exports	14	1	19	1	12	1	13	1	23	1	
5.	Rwanda	Imports	820	7	840	8	1,040	9	882	8	1,201	11	
		Exports	20	1	22	1	21	1	30	2	38	2	
6.	Malawi	Imports	116	1	129	1	276	2	311	3	336	3	
		Exports	385	15	-	1	0	0	0	0	0	0	
7.	Uganda	Imports	157	1	165	2	270	2	188	2	141	1	
		Exports	1	0	1	-	2	0	0	0	0	0	
Total Imports			11,669	100	11,164	100	11,273	100	12,647	100	12,887	100	
Total Exports			2,525	100	1,832	100	1,756	100	2,311	100	2,373	100	
GRAND TOTAL			14,194	100	12,996	100	13,029	100	14,958	100	15,259	100	

5.6 Principal Commodities for Export handled at Ports

5.6.1 Dar es Salaam Port

The Dar es Salaam Port handles numerous types of commodities for export. The principal commodities exports handled at DSM port are as shown in Table 5.6.1

Table 5.6.1 Principal commodities exports handled at DSM Port (Tons)

S/N	CATEGORY	COMMODITY	2015	2016	2017	2018	2019
1.	Bulk Liquid	Bulk Oil (Incl bunkers)	72,921	115,671	59,118	99,069	100,748
		Sub-Total	72,921	115,671	59,118	99,069	100,748
2.	General Cargo	Copper (Zambia)	6,240	23,514	24,690	112,000	197,621
		Maize Meal and flour	4,408	-	23,332	-	-
		Motor Vehicle	877	2,196	1,088	2,112	3,701
		Other General Cargo	-	240,789	826,903	284,638	373,242
		Container Terminal/ TICTS	2,007,703	1,817,156	1,391,254	1,895,034	1,903,904
		Sub-Total	2,012,988	2,060,141	2,242,577	2,181,784	2,280,847
TOTAL EXPORTS			2,092,149	2,199,326	2,326,385	2,392,853	2,579,216

Source: TPA

5.6.2 Tanga Port

The Tanga Port handles numerous types of commodities for export. The principal commodities export handled at Tanga Port are as shown in Table 5.6.2.

Table 5.6.2: Principal Export of Commodities Handled at Tanga Port (Tons)

S/N	COMMODITY	2015	2016	2017	2018	2019
1.	Beans	1,728	1,332	153	288	828
2.	Coffee	3,204	4,502	1,369	1,692	3,060
3.	Sisal Ropes and twines	35,943	40,119	13,789	14,580	22,752
4.	Cement in Bags	0	0	5,825	4,880	0
5.	Timber, flooring bloc	30,357	20,683	22,425	7,442	22,026
6.	Other General Cargo	31,359	28,106	36,045	47,520	61,702
TOTAL EXPORTS		102,591	94,742	79,606	76,402	110,368

Source: TPA

5.6.3 Mtwara Port

The Mtwara Port handles numerous types of commodities for export. The principal commodities exports handled at Mtwara Port are as shown in Table 5.6.3.

Table 5.6.3: Principal Commodities for Export Handled at Mtwara Port (Tons)

S/N	COMMODITY	2015	2016	2017	2018	2019
1.	Cashew nuts Raw	114,055	182,504	215,852	0	129,533
2.	Cement	N/A	N/A	N/A	75,769	33,354
3.	Other General Cargo	24,985	35,321	70,360	59,868	26,638
TOTAL EXPORTS		139,040	217,825	286,212	135,637	189,525

Source: TPA

5.7 Principal Commodities Imports handled at Ports

5.7.1 Dar es Salaam Port

The Dar es Salaam Port handles numerous types of commodities imports. The principal commodities imports handled at DSM Port are as shown in Table 5.7.1.

Table 5.7.1: Principal Import of Commodities Handled at Dar es Salaam Port (Tons)

S/N	CATEGORY	COMMODITY	2015	2016	2017	2018	2019
1.	Dry Bulk Cargo	Wheat	969,562	1,006,985	1,366,638	1,181,812	1,071,578
		Clinkers	136,912	245,119	55,518	209,084	296,701
		Maize	-	-	122,627	-	59,560
		Copper Slags	43,063	-	-	-	32,596
		Fertilizer	246,293	272,842	418,567	472,740	312,752
		Gypsum	18,809	-	-	-	-
		Salt	-	-	-	-	82,014
		Sub-Total	1,414,639	1,524,946	1,963,350	1,863,636	1,855,201
2.	Liquid Bulk	Petroleum Oil	5,248,802	5,173,190	4,740,207	5,483,270	5,715,071
		Other Liquid	-	-	344,370	-	-
		Sub-Total	5,248,802	5,173,190	5,084,577	5,483,270	5,715,071
3.	Bagged Cargo	Cement	5,997	3,022	-	6,545	-
		Fertilizer	69,614	27,343	4,717	38,364	38,470
		Rice	-	-	-	12,846	-
		Beans	5,997	-	-	-	-
		Sub-Total	81,608	30,365	4,717	57,755	38,470
4.	General Cargo	Motor Vehicles					
		Tractors & Trailers	237,198	632	250,904	30,651	380,537
		Iron ,Steel,	301,680	419,123	327,059	444,824	539,828

S/N	CATEGORY	COMMODITY	2015	2016	2017	2018	2019
		Material					
		Motor Vehicles spares parts	4,810	203,278	4,567	402,142	3,418
		Machinery and spares	6,505	146	220	315	1,821
		Pipes and fitting	-	2,722	24,604	69,318	42,445
		Other General Cargo	525,145	410,028	221,585	154,077	48,074
		Sub- Total	1,075,338	1,035,929	828,939	1,101,327	1,016,123
TOTAL IMPORTS			7,820,387	7,764,430	7,881,583	8,505,988	8,624,865

5.7.2 Tanga Port

The Tanga Port handles numerous types of commodities imports. The principal commodities imports handled at Tanga Port are as shown in Table 5.7.2.

Table 5.7.2: Principal Commodities Imports Handled at Tanga Port (Tons)

S/N	CATEGORY	COMMODITY	2015	2016	2017	2018	2019
1.	BULK CARGO	Bulk oil	78,092	215,502	294,889	319,425	302,671
		Sub- Total	78,092	215,502	294,889	319,425	302,671
2.	GENERAL CARGO	Clinker	256,917	7,000	-	-	-
		Wheat	27,047	86,382	7,000	-	-
		Raw Material	-	-	4,103	-	-
		Petroleum Coke	-	-	-	102,097	78,964
		Raw glythelenepolyfo	57,594	-	10,210	19,900	42,816
		Machinery and Parts	1,512	4,740	492	78,473	1,116
		Fertilizer in Bags	-	36	-	-	-
		Motor vehicles, Tractors& Trailers	708	504	43	-	-
		Miscellaneous Cargo	176,401	339,832	193,160	92,545	43,896
		Sub- Total	520,179	438,494	215,008	293,015	166,792
TOTAL IMPORTS			598,271	653,996	509,897	612,440	469,463

Source: TPA

5.7.3 Mtwara Port

The Mtwara Port handles numerous types of commodities imports. The principal commodities are shown in Table 5.7.3.

Table 5.7.3: Principal Commodities Imports Handled at Mtwara Port (Tons)

S/N	CATEGORY	COMMODITY	2015	2016	2017	2018	2019
1.	Liquid Bulk	Bulk Oil	1,015	10,150	-	72,916	40,703
		Sub-Total	1,015	10,150	-	72,916	40,703
2.	Break Bulk	Cement	27,811	-	-	-	-
		Machinery parts	35	10,587	-	-	22,037
		Empty container	15,485	27,399	33,442	13,299	1,870
		Cement	27,811	-	-	-	-
		Other General Cargo	36,405	109,422	57,936	5,251	2,513
		Sub-Total	107,547	147,408	91,378	18,550	26,420
TOTAL IMPORTS			108,562	157,558	91,378	91,466	67,123

Source: TPA

5.8 Container Traffic

The main Sea Ports handle containers for Tanzania and land linked countries. The container traffic through Dar es Salaam Port are as shown in Table 5.8.

Table 5.8: Container Traffic Handled at Dar es Salaam Port

S / N	DESTINATION COUNTRY	2016		2017		2018		2019	
		BOXES	TONAGE	BOXES	TONAGE	BOXES	TONAGE	BOXES	TONAGE
1	Tanzania	139,200	2,481,015	127,634	2,194,395	132,422	2,290,963	146,186	2,548,001
2	Zambia	17,581	313,166	26,077	457,272	22,737	402,932	18,648	331,966
3	D R Congo	14,336	253,701	19,506	337,373	38,174	649,040	36,410	629,437
4	Burundi	6,452	110,390	8,374	142,688	8,707	152,573	9,770	172,841
5	Rwanda	23,365	428,371	27,543	517,070	27,080	471,651	35,191	618,635
6	Malawi	1,834	32,231	2,812	49,383	2,533	44,936	2,158	38,684
7	Uganda	1,548	27,127	2,364	41,048	1,966	33,627	798	14,535
8	Others	609	10,053	697	11,697	244	4,280	121	2,291
1	T/shipment	17,845	289,246	15,931	255,618	17,012	267,333	5,249	86,329
2	Empties	2,164	6,400	529	1,671	2,851	6,879	3,069	6,983
	Sub-total	224,934	3,951,700	231,467	4,008,215	253,726	4,324,214	257,600	4,449,702
1	Tanzania	50,987	67,458	39,693	685,014	42,174	734,058	53,146	920,565
2	Zambia	8,304	155,005	14,243	227,305	20,227	336,308	16,189	304,631
3	D R Congo	18,164	363,701	22,356	391,457	31,599	539,837	38,461	664,680

4	Burundi	1,176	19374	765	12,192	822	13,189	1,281	22,737
5	Rwanda	1,318	22,352	1,308	20,873	1,776	29,921	2,192	37,900
6	Malawi	14	238	6	104	27	481	21	364
7	Uganda	49	796	100	1,578	9	158	7	83
8	Others	8	129	28	437	20	348	3	52
9	Empties	123,110	385,525	124,650	392,582	128,955	408,928	131,632	422,716
	Sub-total	203,130	1,014,578	203,149	1,731,542	225,609	2,063,228	242,932	2,373,728
	GRAND TOTAL	428,064	4,966,278	434,616	5,739,757	479,335	6,387,442	500,532	6,823,430

Source: TPA

5.9 Shipping Traffic at Major Ports

It entails any movement of a Sea going vessel arriving at or departing from Tanzanian Ports excluding movement within the limits of the Ports. The Deep Sea and Coastal Shipping traffic at the major Sea Ports and average stay at each Port are as shown in Table 5.9.1 and 5.9.2.

Table 5.9.1: Deep Sea Ship Calls at Major Ports.

S / N	SHIP CATEGOR Y	DESCRIPTION	DAR ES SALAAM				TANGA				MTWARA			
			2016	2017	2018	2019	2016	2017	2018	2019	2016	2017	2018	2019
1	DRY CARGO	Number of calls	837	849	856	718	55	42	25	25	45	49	50	12
		Average Stay in Port (Day/Ship)	4.3	4.2	3.4	3.5	3	2.2	3.7	4.1	2.4	2.3	2.1	5
2	TANKERS	Number of calls	159	153	141	139	15	27	24	22	0	0	0	6
		Average Stay in Port (Day/Ship)	5.1	4.5	6.5	5.8	2.2	2.8	2.5	5.4	0	0	0	2

Source: TPA

Table 5.9.2: Coastal Ship Calls at Major Ports

S/ N	SHIP CATEG ORY	DESCRIPTION	DAR ES SALAAM				TANGA				MTWARA			
			2016	2017	2018	2019	2016	2017	2018	2019	2016	2017	2018	2019
1.	DRY CARGO	Number of calls	630	653	438	520	6	3	49	70	47	56	16	115
		Average Stay in Port (Day/Ship)	3.1	3	3.2	2.1	2.1	1.5	2.3	1.7	1.3	1.2	1.4	1.7
2.	TANKE RS	Number of calls	58	33	54	61	0	0	0	0	0	0	0	0
		Average Stay in Port (Day/Ship)	1.5	1.5	2	2.6	0	0	0	0	0	0	0	0
3.	MISC. VESSEL S	Passenger Boats & Ferries	2,086	1,842	1,938	1826	0	22	5	2	0	0	0	10

		Dhow and Schooner	686	1,431	1,009	925	0	91	861	741	0	0	0	0
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Source: TPA

5.10 Cargo Traffic at Major Ports (Tons)

It entails any movement of a cargo arriving at or departing from Tanzanian Ports excluding movement within the limits of the Ports. Cargo traffic at major ports are as shown in Table 5.10 and 5.11

Table 5.10: Cargo Traffic at Major Ports (Tons)

S/N	PORT	DESCRIPTION	2015	2016	2017	2018	2019
1	DSM	IMPORTS	11,905,592	11,260,548	11,460,984	12,682,586	13,138,769
		EXPORTS	2,210,026	2,031,226	2,044,935	2,451,775	2,797,795
		TRANSHIPMENT	200,851	289,173	255,618	266,915	86,388
		SUB TOTAL	14,316,469	13,580,947	13,761,537	15,401,276	16,022,952
2	TANGA	IMPORTS	595,441	562,896	509,897	612,440	469,463
		EXPORTS	139,522	82,402	79,606	76,401	110,368
		SUB TOTAL	734,963	645,298	589,503	688,841	579,831
3	MTWARA	IMPORTS	105,620	150,986	91,378	2,475	67,123
		EXPORTS	136,940	220,162	286,212	142,120	189,525
		SUB TOTAL	242,560	371,148	377,590	144,595	256,648
	TOTAL	TOTAL IMPORT	12,606,653	11,974,430	12,062,259	13,297,501	13,675,355
		TOTAL EXPORT	2,486,488	2,333,790	2,410,753	2,670,296	3,097,687
		TOTAL TRANSHIPMENT	200,851	289,173	255,618	266,915	86,388
GRAND TOTAL		15,293,992	14,597,393	14,728,630	16,234,712	16,859,430	

Source: TPA

5.11 Transport Modes used for Cargo Delivery

The cargo discharged at the Dar es Salaam Port is delivered using different modes of transport as shown in Table 5.11.

Table 5.11: Imports Clearance by Mode of Transport at Dar es Salaam Port (DWT)

S/N	MODE OF TRANSPORT	2015	2016	2017	2018	2019
1.	ROAD	5,932,883	6,326,921	5,998,611	6,935,170	6,950,130
2.	TRC (Railway)	7,153	5,426	19,631	23,203	119,245
3.	TAZARA (Railway)	10,667	11,656	51,470	86,134	44,643
TOTAL		5,950,703	6,344,003	6,069,712	7,044,507	7,114,018

Source: TPA

CHAPTER SIX

6.0 INLAND WATERS TRANSPORT INFRASTRUCTURE AND SERVICES

Inland water transport and services are provided by Marine Services Company Limited (MSCL) on Lake Tanganyika, Lake Nyasa, and Lake Victoria. The Company also serves domestic passengers neighboring countries of Burundi, Democratic Republic of Congo, Uganda, Malawi and Kenya.

6.1 Vessels of MSCL at inland waters

Table 6:1 Vessels of Marine Service Company Limited

S/N	PORT CATEGORY	VESSELS	YEAR BUILT	PASSENGER CAPACITY	CARGO CAPACITY (TONS)
1	ON LAKE VICTORIA	MV Victoria	1960	1,200	200
		MV Butiama	1980	200	100
		MV Serengeti	1988	593	350
		MV Clarias	1961	293	30
		MV Nyangumi (Tanker)	1958	N/A	350
		MT Ukerewe (TUG)	1980	N/A	480
		ML Maindi	1938	N/A	120
		ML Wimbi	1938	N/A	120
2	ON LAKE TANGANYIKA	MV Umoja (rail wagons carrier)	1964	N/A	1,200
		MV Liemba	1913	600	200
		MV Mwongozo	1980	800	80
		MT Sangara (tanker)	1981	N/A	350
3	ON LAKE NYASA	Sea Worrior (for tourism)	1990	N/A	15
		MV Iringa	1974	139	5
		MV Songea	1974	212	44

6.2 Passengers Transportation inland waters

Table 6.2: Number of Passengers Transported by MSCL at Main Lake Ports

S/N	PORT	2015	2016	2017	2018	2019
1	Mwanza	31,000	27,342	11,926	40,198	41,937
2	Bukoba	30,442	21,154	0	0	0
3	Musoma	-	-	0	0	0
4	Kigoma	7,132	7,032	19,340	5,597	0
5	Itungi Port	10,684	8,594	184	0	0
6	Kemondo Bay	-	-	0	0	0
7	Mbamba Bay	8,000	6,517	641	0	0
9	Nansio	120,437	94,514	17,985	66,427	54,955
	TOTAL	207,695	165,153	50,076	112,222	96,892

Source: MSCL

6.3 Freight Transportation in land Waters

Table 6.3.1: Freight Transported by MSCL through Bukoba Pier (Tons)

S/N	FREIGHT	2015	2016	2017	2018	2019
1	Beans	0	0	0	0	0
2	General Goods	10,015	5,307	0	0	0
3	Empty Bottles	0	0	0	0	0
4	Vehicles	0	0	0	0	0
5	Coffee	0	0	0	0	0
	TOTAL	10,015	5,307	0	0	0

Source: MSCL

Table 6.3.2: Freight Transported by MSCL through Mwanza Pier (Tons)

S/N	FREIGHT	2013	2014	2015	2016	2017	2018	2019
1	Cement	120	100	0	0	0	0	0
2	Wheat Flour	849	200	0	0	0	0	0
3	Cooking Oil	1,300	1,500	0	0	0	0	0
4	Rice	502	700	0	0	0	0	0
5	Sugar	670	0	0	0	0	0	0
6	Salt	108	0	0	0	0	0	0
7	General Goods	16,153	14,200	8,000	7,400	520	802	930
8	Soft Drinks	201	100	0	0	0	0	0
9	Beer	108	0	0	0	0	0	0
	TOTAL	20,011	16,800	8,000	7,400	520	802	930

Source: MSCL

Table 6.3.3: Freight Transported by MSCL through Mwanza South Port (Tons)

S/N	FREIGHT	2013	2014	2015	2016	2017	2018	2019
1	Cement	2,050	0	0	0	1,200	0	0
2	Soft Drinks	2,010	0	0	0	0	0	0
3	General Goods	41,947	42,608	14,255	11,345	5,724	18,432	30,631
4	Beer	2,080	0	0	0	0	0	0
	TOTAL	48,087	42,608	14,255	11,345	6,924	18,432	30,631

Source: MSCL

Table 6.3.4: Freight Transported by MSCL through Kemondo Bay and Kigoma Ports (Tons)

S/N	FREIGHT	2013	2014	2015	2016	2017	2018	2019
1	Kemondo Bay (Coffee)	2,097	500	0	0	0	0	0
2	Kigoma (General Goods)	4,609	2,744	1,400	1,215	4,242	5,639	2,405
	TOTAL	6,706	3,244	1,400	1,215	4,242	5,639	2,405

Source: MSCL

6.4 Vessels Stay at Ports

Table 6.4: Number of average stay of vessels at Port

S/N	NAME OF PORT	VESSEL	AVERAGE STAY (DAYS)					
			2014	2015	2016	2017	2018	2019
1	MWANZA PORT	MV Victoria	156	-	-	365	365	-
		MV Serengeti	365	44	70	365	365	-
		MV Butiama	-	-	-	-	-	-
2	BUKOBA PORT	MV Victoria	156	-	-	-	-	-
		MV Serengeti	-	44	70	-	-	-
3	KIGOMA PORT	MV Mwongozo	-	-	-	365	365	365
		MV Liemba	334	335	55	310	362	365
4	NANSIO PORT	MV Butiama	-	-	-	-	-	-
		MV Iringa	365	-	-	-	-	-
5	ITUNGI PORT	MV Songea	334	335	220	349	365	365
		MV Iringa	-	-	-	365	365	365

Source: MSCL

6.5 Number of Vessel Calls at Main Ports

Table 6.5: Number of Vessel Calls at Main Ports

S/N	NAME OF PORT	VESSEL	2012	2013	2014	2015	2016	2017	2018	2019
1	MWANZA PORT	MV Victoria	151	156	156	0	0	0	0	0
		MV Serengeti	33	21	0	19	8	0	0	0
		MV Butiama	0	-	0	0	0	0	0	0
		MV Clarias	204	342	337	315	270	117	341	365
2	MWANZA SOUTH PORT	MV Umoja	38	19	9	7	5	7	18	32
		MV Serengeti	34	22	7	0	8	0	0	0
		MT Nyangumi	0	-	0	0	0	0	0	0
		MT Maindi	0	-	0	0	0	0	0	0
		MT Ukerewe	6	-	0	0	0	0	0	0
3	BUKOBA PIER	MV Victoria	151	156	156	0	0	0	0	0
		MV Serengeti	0	-	0	19	8	0	0	0
		MV Umoja	0	-	0	0	0	0	0	0
		MT Nyangumi	0	-	0	0	0	0	0	0
		MT Maindi	0	-	0	0	0	0	0	0
		MT Ukerewe	0	-	0	0	0	0	0	0
4	KIGOMA PORT	MV Liemba	26	26	26	7	7	11	3	0
		MV wongozo	3	-	0	0	0	0	0	0
		MT Sangara	5	3	2	3	1	7	4	6
5	ITUNGI PORT	MV Songea	13	37	26	34	30	4	0	0
		MV Iringa	19	11	-	0	0	0	0	0

Source: MSCL

CHAPTER SEVEN

7.0 AIR TRANSPORT INFRASTRUCTURE AND SERVICES

7.1 Airports operated by Tanzania Airport Authority (TAA) in Tanzania Mainland

Tanzania Airport Authority (TAA) is mandated to own, operate, develop and maintain 59 aerodromes in Tanzania Mainland. These airports are grouped as per ICAO categorization as indicated in a table 6.6.

Table 7.1.1 Airports operated by TAA in Tanzania Mainland

S/No.	Airport Name	Airport Code	Remarks
1.	Julius Nyerere International Airport (JNIA)	Code 4E	Tarmac
2.	Kilimanjaro International Airport (KIA)	Code 4E	Tarmac
3.	Mwanza Airport	Code 4C	Tarmac
4.	Geita Airport	Code 4C	Tarmac
5.	Songwe	Code 3C	Tarmac
6.	Mtwara	Code 3C	Tarmac
7.	Kigoma	Code 3C	Tarmac
8.	Dodoma	Code 3C	Tarmac
9.	Tabora	Code 3C	Tarmac
10.	Arusha	Code 3C	Tarmac
11.	Mpanda	Code 3C	Tarmac
12.	Songea	Code 3C	Tarmac
13.	Iringa	Code 3C	Tarmac
14.	Lindi	Code 3C	Tarmac
15.	Bukoba	Code 3C	Grass
16.	Tanga	Code 2C	Tarmac
17.	Shinyanga	Code 2C	Gravel
18.	Mafia	Code 2C	Tarmac
19.	Musoma	Code 2C	Gravel
20.	Nachingwea	Code 2C	Gravel
21.	Kahama	Code 2C	Tarmac
22.	Lake Manyara	Code 2C	Gravel
23.	Sumbawanga	Code 2B	Grass
24.	Mbeya	General Aviation	Gravel
25.	Ngara	General Aviation	Gravel
26.	Moshi	General Aviation	Tarmac
27.	Kilwa Masoko	General Aviation	Grass
28.	Ukerewe	General Aviation	Grass
29.	Morogoro	General Aviation	Grass
30.	Manyoni	General Aviation	Grass
31.	Loliondo	General Aviation	Grass
32.	Kibondo	General Aviation	Gravel
33.	Kasulu	General Aviation	Gravel
34.	Uvinza	General Aviation	Grass
35.	Urambo	General Aviation	Grass

S/No.	Airport Name	Airport Code	Remarks
36.	Maswa	General Aviation	Grass
37.	Mombo	General Aviation	Grass
38.	Mkwaja	General Aviation	Grass
39.	Utete	General Aviation	Grass
40.	Kilosa	General Aviation	Grass
41.	Ifakara	General Aviation	Grass
42.	Tunduru	General Aviation	Grass
43.	Liuli	General Aviation	Grass
44.	Mbamba Bay	General Aviation	Grass
45.	Chunya	General Aviation	Grass
46.	Mafinga	General Aviation	Grass
47.	Njombe	General Aviation	Grass
48.	Mufindi/Sao Hill	General Aviation	Grass
49.	Mpwapwa	General Aviation	Grass
50.	Mvumi	General Aviation	Grass
51.	Kongwa	General Aviation	Gravel
52.	Kirondatal	General Aviation	Grass
53.	Biharamulo	General Aviation	Grass
54.	Inyonga	General Aviation	Grass
55.	West Kilimanjaro	General Aviation	Grass
56.	Same	General Aviation	Grass
57.	Kondoa	General Aviation	Grass
58.	Singida	General Aviation	Gravel
59.	Masasi	General Aviation	Grass

Source: TAA

7.2 Passengers, aircraft and Freight movements

Table 7.2.1: Passengers movements at Selected Airports

S/N	AIRPORT	INTERNATIONAL (000)					DOMESTIC (000)				
		2015	2016	2017	2018	2019	2015	2016	2017	2018	2019
1	Dar es salaam	1,251	1,301	868	1,191	1,176	1,141	1,061	1,061	1,098	1,145
2	Kilimanjaro International Airport	333	364	236	455	475	318	267	255	261	302
3	Abeid Aman Karume	409	540	390	774	922	388	420	447	467	497
4	Arusha	-	-	149	-	-	131	155	186	223	229
5	Bukoba	-	-	30	-	-	32	33	45	52	53
6	Dodoma	-	-	7	-	-	13	11	29	46	94
7	Kigoma	2	1	22	-	-	24	26	25	28	31
8	Moshi	-	-	1	-	-	1	1	1	2	1
9	MtWARA	1	-	56	-	-	30	22	21	20	18
10	Mwanza	6	18	364	-	17	427	387	352	346	296
11	Shinyanga	-	-	4	-	-	-	-	-	-	-
12	Tabora	-	-	4	-	-	6	7	10	12	14
13	Other	2	2	165	3	3	135	317	320	319	270
Total		2,004	2,226	2,296	2,423	2,593	2,646	2,707	2,752	2,874	2,950

Source: TCAA

Table 7.2.2: Incoming International Air Passengers at JNIA

S/N	2013	2014	2015	2016	2017	2018	2019
January	45,237	45,630	50,007	49,722	49,220	49,553	46,924
February	39,779	39,331	42,667	44,510	40,755	40,392	39,986
March	44,961	42,001	46,192	48,405	44,256	45,256	43,005
April	38,417	41,799	46,862	45,503	44,178	42,451	42,311
May	40,575	45,328	44,322	47,679	45,334	45,986	39,942
June	48,330	51,294	55,791	50,531	46,993	48,789	47,024
July	54,138	53,134	61,125	65,538	63,689	60,267	59,572
August	50,549	53,779	63,520	59,009	54,588	56,403	53,859
September	46,838	44,759	49,933	54,245	47,439	49,056	46,642
October	49,802	50,986	51,116	60,192	49,913	46,384	44,998
November	44,429	50,074	50,232	45,178	45,120	45,583	43,936
December	46,702	54,494	55,685	55,442	51,596	53,326	52,650
TOTAL	549,757	572,609	617,452	625,954	583,081	583,446	560,849
% increase or		3.99%	7.26%	1.36%	-7.35%	0.06%	-4.03%

decrease						
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Source: TCAA

Table 7.2.3: Incoming International Air Passengers at KIA

Month	2014	2015	2016	2017	2018	2019
Jan	18,461	16,350	17,542	17,728	19,600	21,830
Feb	21,169	17,737	18,848	19,065	23,028	24,902
Mar	12,486	12,358	12,945	13,080	17,949	14,322
Apr	10,088	8,372	9,926	10,817	11,050	11,744
May	12,393	11,491	11,999	12,345	14,404	13,957
Jun	18,635	16,818	17,520	20,783	24,129	26,361
Jul	26,106	23,025	27,414	27,787	34,058	39,216
Aug	24,427	21,151	24,467	27,241	33,663	34,981
Sep	19,068	18,509	20,245	22,121	27,855	28,449
Oct	19,280	16,873	22,652	23,278	27,019	27,171
Nov	12,990	13,726	14,349	15,610	16,728	18,511
Dec	16,179	16,703	16,595	19,675	20,697	22,557
TOTAL	211,282	193,113	214,502	229,530	270,180	284,001

Source: TCAA

Table 7.2.4: Incoming International Air Passengers at Amani Abeid Karume International Airport

S/N	2013	2014	2015	2016	2017	2018	2019
January	16,911	18,967	17,594	21,764	30,999	39,140	39,398
February	16,078	16,430	18,180	23,137	27,490	36,888	39,328
March	15,529	13,871	15,141	22,271	24,602	32,432	28,936
April	5,541	7,042	9,190	12,800	16,632	15,554	15,789
May	5,337	6,455	7,655	10,170	12,079	14,979	12,770
June	7,770	9,890	10,353	10,288	17,053	22,962	25,670
July	12,653	15,401	15,202	19,907	24,879	30,727	33,292
August	16,392	16,867	18,993	22,183	28,613	35,648	39,024
September	12,373	14,638	17,791	20,640	25,262	30,968	30,714
October	15,096	16,730	16,633	24,936	27,577	30,975	35,555
November	13,663	13,142	18,302	24,018	27,509	30,485	36,851
December	19,553	21,146	25,811	30,733	36,840	38,963	46,789
TOTAL	156,896	170,579	190,845	242,847	299,535	359,721	384,116

Source: TCAA

Table 7.2.5: Aircraft Movements at Major Airports

S/N	AIRPORT	2014	2015	2016	2017	2018	2019
1.	JNIA	77,990	75,240	75749	74,286	71,420	69,435
2.	ARUSHA	23,904	20,810	21564	23,392	27,048	25,858
3.	MWANZA	13,467	13,404	13355	13,095	11,788	9,894
4.	DODOMA	2,966	2,931	2682	4,004	4,519	4,238
5.	KIGOMA	1,765	1,725	1539	1,192	1,209	1,375
6.	TABORA	1,597	1,592	1733	1,572	1,687	1,829
7.	SONGWE	2,029	1,913	1951	1,959	1,940	1,416
8.	IRINGA	1,521	1,484	1778	1,808	1,733	1,718
9.	MTWARA	3,009	1,494	1028	972	886	824
10.	TANGA	4,156	4,449	5486	4,681	3,742	3,579
11.	ZIA	50,672	51,731	55904	57,551	57,493	44,669
12.	KIA	19,942	19,758	20750	21,706	25,271	25,522
	Total	203,018	196,531	203,519	206,218	208,736	190,357

Source: TCAA

Table 7.2.6: Main Airports Operation Statistics

AIRPORT	OPERATION	2012	2013	2014	2015	2016	2017	2018	2019
JNIA	Aircraft Movements	75,564	77,185	77,990	75,240	75,749	74,286	71,420	69,435
	Passengers	2,088,282	2,348,819	2,478,005	2,496,394	2,469,356	2,385,456	2,417,090	2,321,510
	Freight(Tons)	24,370	20,951	20,352	21,356	16,788	16,483	15,617	11,695.38
	Mail(Tons)	1,042	940	903	657	610	548	546	400.53
MWANZA	Aircraft Movements	16,962	44,643	13,467	13,404	13,355	13,095	11,788	9,894
	Passengers	392,298	439,128	415,674	444,215	400,457	398,102	399,054	314,023
	Freight(Tons)	1,769	1,905	1,900	1,826	2,050	2,125	1,921	2,390
	Mail(Tons)	136	53	88	135	120	152	187	120
ARUSHA	Aircraft Movements	22,690	23,868	23,904	20,692	21,564	23,392	27,048	25,858
	Passengers	162,268	187,911	179,511	142,224	164,419	192,233	229,366	229,146
	Freight(Tons)	192	213	148	141	63	24	43	5.6
	Mail(Tons)	0	-	0	0	0	0	0	0.8
MTWARA	Aircraft Movements	4,437	4,024	2,719	1,538	1,028	972	886	824
	Passengers	56,620	53,062	45,988	33,330	22,681	24,462	20,710	18,418
	Freight(Tons)	196	186	90	16	8	6	22	3.1
	Mail(Tons)	55	63	76	18	10	29	19	0.8

Source: TCAA

Table 7.2.7: Civilian Pilot Licenses and other Licenses

Description/Types of licenses	2013	2014	2015	2016	2017	2018	2019
Conversion of PPL	33	37	39	42	44	61	148
Conversion of CPL	338	399	448	504	551	623	547
Conversion of ATPL	70	115	148	164	173	193	301
Aircraft Maintenance Engineers	264	264	264	266	273	298	188
Cabin Crew	443	480	542	614	704	805	833
Total	1,148	1,295	1,441	1,590	1,745	1,980	2,017

Source: TCAA

Table 7.2.8: Tanzania Licensed Commercial Air Services Operators

Description	2013	2014	2015	2016	2017	2018	2019
Local Operators	74	80	53	30	21	47	37
Foreign Operators	NIL	1	2	7	10	23	4
TOTAL	74	81	55	37	31	70	41

Table 7.2.9: Scheduled Foreign Air Carriers Operating to Tanzania

S/N	CARRIER	WEEKLY FREQUENCY	
		2018	2019
1	Emirates	7	7
2	Air Mozambique	3	3
3	Kenya Airways (KQ)	36	35
4	South African Airlines (SA)	14	10
6	Swiss International Airline (LX)	7	5
7	Royal Dutch Air (KL)	5	7
8	Ethiopian Airlines (ET)	7	21
9	Qatar Airways (QR)	16	7
11	Egypt Air (MS)	7	3
12	Rwanda AIR (WB)	2	14
13	Oman Air (WY)	13	7
14	Turkish Air (TK)	14	7
15	Air Mauritius (MK)	7	1
16	Air Zimbabwe (UM)	1	2
17	Malawian Airlines (3W)	2	4

18	Martine Air (Cargo)		3	1
19	Fly Dubai (FZ)		1	7
20	Precision Air (PW)		7	24
21	AIR UGANDA (UR)		6	7
22	Air Tanzania ltd (ATCL)		7	17
TOTAL			165	189

Source: TCAA

Table 7.2.10 Air Transport Accidents and Incidents

S/N	Particular	2013	2014	2015	2016	2017	2018	2019
1.	Number of Deaths	5	7	4	0	12	3	4
2.	Number of Injuries	1	5	4	0	12	3	1
3.	Number of Fatal Accidents	1	2	1	0	2	2	2
4.	Number of Minor Accidents	1	8	2	6	4	6	3
5.	Number of Incidents	1	11	10	3	5	3	10

7.3: AIR TANZANIA COMPANY LIMITED PERFORMANCE (ATCL)

Table 7.3.1 Domestic Passengers transported by ATCL

MONTHS	Domestic Passengers				
	2015	2016	2017	2018	2019
January	2,167	5,243	12,494	19,049	43,995
February	2,050	4,331	9,942	17,646	44,992
March	2,398	3,176	12,097	21,058	53,338
April	2,608	2,995	11,046	18,867	57,121
May	3,329	1,023	16,752	20,518	53,621
June	3,848	489	17,199	22,249	60,504
July	3,243	NO OPS	20,131	22,118	72,739
August	4,297	672	19,554	47,277	60,427
September	6,007	356	19,249	35,731	60,299
October	6,362	4,564	21,073	33,209	61,702
November	6,366	7,176	21,019	33,677	65,290
December	5,641	14,868	22,718	46,887	67,044

Source: ATCL

Table 7.3.2: ATCL Performance by Average factor per route

Months	Average Load Factor per route (%)				
	2015	2016	2017	2018	2019
January	64	64	44	71	69
February	56	58	39	71	67
March	59	74	55	75	67

April	56	60	51	67	72
May	65	39	63	62	65
June	61	30	67	65	70
July	60	NO OPS	78	78	62
August	51	35	68	81	65
September	51	42	65	64	63
October	56	53	70	56	64
November	63	57	73	58	66
December	65	52	58	78	77

Source: ATCL

CHAPTER EIGHT

8.0 METEOROLOGICAL INFORMATION

8.1 Meteorological information are mandated to Tanzania Meteorological Agency (TMA) which is entrusted with the task of provision of weather and climate and regulations of weather and climate services in Tanzania. Some of meteorological parameters include Rainfall, Maximum, Minimum, Relative Humidity, Cloud Cover, Sunshine hours, and Wind run, Wind Speed, Wind Direction, Fog, Thunder, Hail, Mean Sea Level, Visibility and Evaporation among others.

Table 8.1.1: Annual Rainfall in Tanzania

S/N	Station	2013	2014	2015	2016	2017	2018	2019
1	Bukoba	1863.3	2227.2	1755.1	1452.9	2676.2	1,706.9	2701.8
2	Mwanza	766.2	582.6	1536.6	1039.3	872.2	1,153	1239.6
3	Musoma	798.5	720.9	1037.8	627.2	622.5	1,031	1239.6
4	Kigoma	830.1	832.7	967.8	913.5	869.2	985.1	758.2
5	Mpanda	719.4	1085.7	M	685.1	945.7	1,084.3	1363
6	Sumbawanga	573.6	371.5	819.2	769.1	679.3	768.4	899.5
7	Tabora	999.9	826.5	959.6	911.6	885.3	1,112.9	966.5
8	Singida	859.1	778.2	628.3	689.4	628.7	763.4	839.9
9	Dodoma	394.5	489.7	473.7	545.2	443.9	679.3	770.5
10	Iringa	487.4	885.5	517.1	757.6	622.1	509.3	725.6
11	Loliondo	498.9	M	767.0	M	M	819.9	M
12	Engare Rongai	395.4	320.0	643.3	601.6	335.9	691.8	870.8
13	Same	532.2	498.2	519.3	626.7	569.7	679.3	969.7
14	Arusha	689.4	1188.5	669.7	603.5	809.7	1,197.9	1237
15	KIA	492.6	501.7	485.3	492.5	442.3	861.8	626.2
16	Lushoto	203.2	1820.20	767.0	759.9	1146.6	1,195.0	1362.3
17	Tanga	1072.7	1079.0	1619.6	1003.6	1630.3	1,333.9	1645
18	Ilonga	939.8	963.8	929.2	1143.7	1018.5	911.1	1424
19	JNIA	732.2	1278.9	1038.4	782.9	1248.6	1,208.4	1667
20	Mtwara	1157.1	1023.9	1068.9	1454.8	1373.2	1,180.7	1084
21	Songea	1004.4	1010.8	830.5	952.6	1226.1	1,039.0	1235
22	Tunduru	756.6	861.5	M	1180	M	606.8	1083
23	Mahenge	2154.7	2467.8	1691.3	1999.0	2038.8	1,728.0	2206
24	Mbeya	553.2	1220.3	692.7	920.3	1043.6	1,731.9	1298.1

Note: - M-Indicates missing values

Source:TMA

Table 8.1.2: Mean Annual Maximum Temperature (°C) in Tanzania.

S/No.	Station	Year						
		2013	2014	2015	2016	2017	2018	2019
1	Bukoba	26.5	26.4	26.6	26.7	26.9	26.4	26.9
2	Mwanza	28.7	28.3	28.9	28.9	28.5	28.4	29.2
3	Musoma	28.9	28.2	28.7	M	M	M	29.0
4	Kigoma	29.2	28.1	29.1	29.9	29.7	29.4	29.8
5	Sumbawanga	25.2	25.2	25.3	25.6	25.3	24.8	25.2
6	Tabora	30.2	29.5	30.0	30.4	30.3	28.4	30.4
7	Singida	27.1	26.8	27.3	26.8	28.1	26.0	27.1
8	Dodoma	27.1	29.1	29.4	29.4	29.8	28.8	29.5
9	Iringa	29.6	26.4	27.3	27.2	26.9	26.4	27.2
10	Same	27.4	29.6	30.7	29.8	29.2	29.2	29.6
11	Arusha	30.0	25.8	26.2	26.6	26.8	25.4	26.3
12	Tanga	30.3	29.7	30.1	31.4	31.2	30.8	31.6
13	Ilonga	30.9	30.5	31.1	30.2	30.7	30.7	30.8
14	JNIA	32.1	32.0	32.0	31.3	31.5	31.5	29.2
15	Mtwara	30.9	30.7	30.8	30.8	31.1	31.1	31.2
16	Songea	27.3	26.7	27.2	28.0	26.3	M	27.5
17	Mahenge	25.2	25.3	25.4	25.8	25.4	24.9	24.9
18	Mbeya	24.6	23.7	24.8	24.8	24.7	24.8	26.1

Note: - M-Indicates missing values

Source: TMA

Table 8.1.3: Mean Annual Minimum Temperature (°C) in Tanzania

S/N	Station	2013	2014	2015	2016	2017	2018	2019
1	Bukoba	18.1	18.4	18.2	18.9	18.5	18.6	18.7
2	Mwanza	17.7	18.6	18.2	18.5	19.1	18.6	18.6
3	Musoma	18.7	17.9	18.3	M	19.9	19.0	19.8
4	Kigoma	19.4	19.9	19.5	20.0	19.6	19.6	19.6
5	Sumbawanga	11.5	16.5	18.6	14.0	13.7	13.9	13.8
6	Tabora	17.6	16.9	17.3	15.8	17.5	17.4	17.4
7	Singida	16.0	16.1	16.1	16.1	16.3	16.2	16.7
8	Dodoma	17.8	17.9	17.7	17.6	18.2	17.8	18.3
9	Iringa	14.7	15.5	15.2	15.1	15.8	15.6	16.2
10	Same	18.6	18.7	18.8	18.6	18.3	18.6	19.2
11	Arusha	14.4	15.3	15.2	15.3	15.3	15.5	15.8
12	Kilimanjaro	17.6	17.1	17.7	18.6	17.9	17.9	20.2
13	Tanga	23.2	22.0	23.1	23.6	23.5	23.1	25.1
	JNIA	22.3	22.5	22.5	23.2	23.3	22.4	23.3
14	Ilonga	22.3	21.2	20.4	19.5	19.9	20.1	23.9
16	Mtwara	20.9	21.2	21.3	20.6	22.0	21.5	22
17	Songea	14.2	15.7	14.4	15.4	15.2	14.9	16.9

18	Mahenge	17.3	17.0	17.1	17.7	17.7	17.3	17.8
19	Mbeya	10.9	14.1	14.0	11.9	11.0	11.5	11.3

Note: - M-Indicates missing values

Source: TMA

Table 8.1.4 Number of flights served with meteorology services

Years	2012	2013	2014	2015	2016	2017	2018	2019
Number of flights served	18,133	21,658	24,683	38,761	40,082	38,403	44,306	45,966

Source: TMA

Table 8.1.5 Number of tailored customers served with meteorology services

Years	2012	2013	2014	2015	2016	2017	2018	2019
Number of tailored customers served	435	342	524	133	268	325	621	631

Source: TMA

Table 8.1.6 Number of boats/ships served at Dar es Salaam, Zanzibar and major lakes Port Offices

Years	2012	2013	2014	2015	2016	2017	2018	2019
Number of forecasts issued to boats and ships	2,251	2,253	2,880	2,651	2,586	2,792	2,907	7,776

Source: TMA

CHAPTER NINE

9. TRAINING INSTITUTIONS

9.1 NATIONAL INSTITUTE OF TRANSPORT (NIT)

Table 9.1.1: Training Programs offered at NIT

S/N	Program Name	Exit point
1	Air Transport Management	PGD
2	Transport and Tourism Management	PGD
3	Shipping and Port Management	PGD
4	Transport Economics	PGD
5	Rail Transport Management	PGD
6	Road Safety Management	PGD
7	Transport Engineering	PGD
8	Logistics and Transport Management	4,5,6,7,8,PGD,9
9	Automobile Engineering	4,5,6,7,8
10	Procurement and Logistics Management	4,5,6,7,8,PGD
11	Accounting and Transport Finance	4,5,6,7,8
12	Aircraft Maintenance Engineering	4,5,6,7,8
13	Business Administration	4,5,6,7,8,9
14	Mechanical Engineering	4,5,6,7,8
15	Freight, Clearing and Forwarding	4,5,6
16	Information Technology	4,5,6,7,8
17	Computer Science	7,8
18	Marketing and Public Relations	4,5,6,7,8
19	Human Resource Management	4,5,6,7,8
20	Education with Mathematics and Information Technology	7,8
21	*Master of Business Administration in Logistics and Transport Management	9
22	Professional Driving Short Courses	Short course
23	Auto Electrical and Electronics Engineering	4,5,6
24	Electrical Engineering	4,5,6
25	Electronics and Telecommunication Engineering	4,5,6
26	Procurement and supply chain Management	4,5,6,7
27	Library and information Studies	4,5,6
28	Records, Archives and information Studies	4,5,6

* Programs conducted in collaboration with Open University of Tanzania (OUT) (provide meaning of each level of exit point)

Table 9.1.2 Number of students enrolled on long courses

S/ N	NAME OF COURSE PROGRAM	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20
1	Master of Business Administration in Logistics and Transport Management	21	21	7	0	0	0
2	Master of Science in Logistics and Transport Management	0	0	10	14	7	9
3	Postgraduate Diploma in Logistics and Procurement Management	11	9	2	16	1	2
4	Postgraduate Diploma in Logistics Transport Management	13	12	4	12	1	0
5	Postgraduate Diploma in Air Transport Management	11	13	6	25	0	0
6	Postgraduate Diploma in Shipping and Port Management	25	34	11	26	2	1
7	Postgraduate Diploma in Transport and Tourism Management	0	0	0	1	0	0
8	Postgraduate Diploma in Road Safety Management	0	5	0	0	0	0
9	Postgraduate Diploma in Transportation Engineering	6	3	0	6	0	0
10	Bachelor Degree in Logistics and Transport Management	279	380	563	458	419	488
11	Bachelor Degree in Freight clearing and Forwarding	0	0	0	0	0	0
12	Bachelor Degree in Automobile Engineering	38	84	93	31	103	50
13	Bachelor Degree in Mechanical Engineering	12	139	193	39	115	105
14	Bachelor Degree in Aircraft Maintenance Engineering	0	17	23	9	21	34
15	Bachelor Degree in Business Administration	55	113	74	46	46	345
16	Bachelor Degree in Procurement and Logistics Management	160	250	430	295	340	428
17	Bachelor Degree in Human Resource Management	76	107	197	159	275	397

S/ N	NAME OF COURSE PROGRAM	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20
1 8	Bachelor Degree in Marketing and Public Relations	0	40	124	120	323	390
1 9	Bachelor Degree in Accounting and Transport Finance		142	147	53	183	388
2 0	Bachelor Degree of Education with Mathematics and Information Technology		115	92	12	60	48
2 1	Bachelor Degree in Information Technology	49	147	240	65	189	291
2 2	Bachelor Degree in Computer Science		49	45	27	13	17
2 3	Diploma in Aircraft Maintenance Engineering	0	0	18	26	10	20
2 4	Diploma in Automobile Engineering	25	24	6	26	31	22
2 5	Diploma in Mechanical Engineering	24	35	17	70	56	45
2 6	Diploma in Logistics and Transport Management (DLTM)	250	252	126	251	256	300
2 7	Diploma in Information Technology	22	12	64	31	21	12
2 8	Diploma in Freight Clearing and Freight Forwarding (DFCF)	80	67	29	29	46	33
2 9	Diploma in Procurement and Logistics Management	186	89	30	76	70	69
3 0	Diploma in Business Administration	26	20	10	32	27	2
3 1	Diploma in Human Resource Management	5	15	12	0	15	20
3 2	Diploma in Accounting and Transport Finance	28	33	22	2	25	1
3 3	Diploma in Marketing and Public Relations	4	6	12	13	22	33
	TOTAL	1,319	2,136	2,567	1,870	2,666	3,538

Source: NIT- Registrar's Office

Table 9.1.3: Number of students enrolled on short courses

S/N	Name of Course	2015	2016	2017	2018	2019
1	Advanced Driving Grade I	1,227	192	81	100	132
2	Advanced Driving Grade II Industrial	59	42	52	0	28
3	Advanced Driving Grade II VIP	1,227	1,216	1,295	1514	1295
4	PSV Drivers Course	2,387	3,271	2,894	4169	2680
5	HGV Drivers course	27	34	26	479	855
6	Special Defensive Driving course	96	235	881	605	237
7	Senior Driving Course	18	26	24	28	28
8	Motor cycle	0	0	0	263	0
9	Driver Instructors	0	14	25	21	28
10	Folk Lift Operators	20	185	61	56	179
11	Vehicle Inspection and Appraisal	0	0	0	0	0
12	Vehicle Inspection Drivers & Examiner	38	49	97	24	11
13	Diesel& Engine Service Maintenance	0	0	0	0	0
14	Transport Information System Course for PMOLARG Officers	0	0	0	0	0
15	Auto electrical and electronics	0	0	0	0	0
16	PSV Agents and Ticketing Clack Customer care	0	0	0	0	0
17	Vehicle Fleet Management	0	0	0	0	0
18	Transport Officers	0	0	0	32	36
Total		5,099	5,264	5,436	7,291	5,509

Source: NIT- Registrar's Office

Table 9.1.4: Number of Academic Staff by Qualifications and Gender

S/N	Qualification	2015/2016		2016/2017		2017/2018		2018/2019		2019/2020	
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
1	PhD	2	1	11	2	11	3	6	4	9	3
2	Masters	18	3	51	30	59	30	69	32	67	34
3	Postgraduate Diploma	0	0	0	0	0	0	0	0	0	0
4	First Degree	13	8	38	11	36	8	37	12	60	17
5	Advanced Diploma	0	0	0	0	0	0	3	1	3	1
6	Diploma	0	0	4	0	4	0	4	0	3	0
7	Certificate	0	0	0	0	1	0	0	0	0	0
Sub Total		33	12	104	43	111	41	119	48	0	0
Grand Total		45		147		152		168		197	

Source: NIT- Human Resource & Administration's Office

9.2 DAR ES SALAAM MARITIME INSTITUTE (DMI)

Table 9.2.1: Training programs offered at DMI

S/N	COURSE TITLE
1.	Master in Shipping Economics and Logistics (NTA level 10)
2.	Bachelor Degree in Maritime Transport and Nautical Science (NTA level 7/8)
3.	Bachelor Degree in Marine Engineering and Technology (NTA level 7/8)
4.	Bachelor Degree in Naval Architecture and Offshore Engineering (NTA level 7/8)
5.	Bachelor Degree in Shipping and Logistics Management (NTA level 7/8)
6.	Bachelor Degree in Procurement and Supply Chain Management (NTA level 7/8)
7.	Ordinary Diploma in Maritime Transport and Nautical Science (NTA level 6)
8.	Ordinary Diploma in Marine Engineering(NTA level 6)
9.	Ordinary Diploma in Naval Architecture and Offshore Engineering
10.	Ordinary Diploma in Shipping and Logistics Management (NTA level 6)
11.	Ordinary Diploma in Procurement and Supply Chain Management
12.	Certificate in Marine Operations
13.	Certificate in Naval Architecture and Offshore Engineering
14.	Certificate in Shipping and Logistics Management
15.	Certificate in Procurement and Supply Chain Management
16.	Master and Chief Mate
17.	Chief Engineer and Second Engineer Officer
18.	Officer in Charge of a Navigational Watch
19.	Master Near - Coastal
20.	Officer in Charge of a Navigational Watch near coastal (<500GT)
21.	Officer in charge of an Engineering Watch
22.	Office in Charge of Engineering Watch Less than 750kW
23.	Electrical Officer
24.	Short Courses

Source: DMI

9.2.2 Number of student enrolled on long and short courses

Table 9.2.2 Number of student enrolled on long and short courses

S/N	Name of Course Program	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20
1	Masters in Shipping Economics and Logistics (NTA level 10)	-	-	-	-	-	13
2	Degree in Maritime Transport and Nautical Science	31	41	37	15	12	50
3	Degree in Marine Engineering Technology	31	44	41	29	43	37

4	Degree in Shipping and Logistics Management	-	-	-	34	104	206
5	Degree in Procurement and Supply Chain Management	-	-	-	-	-	2
6	Ordinary Diploma in Maritime Transport and Nautical Science	20	12	14	17	11	10
7	Ordinary Diploma in Marine Engineering	22	30	44	39	37	31
8	Ordinary Diploma in Shipping and Logistics Management	-	-	-	-	8	44
9	Technical Certificate in Maritime Transport and Nautical Science	17	13	18	11	11	32
10	Technical Certificate in Marine Engineering	41	41	44	22	37	47
11	Technical Certificate in Shipping and Logistics Management	-	-	-	8	48	102
12	Basic Technician Certificate in Marine Operations	76	70	37	48	81	67
13	Basic Technician Certificate in Naval Architecture and Offshore Engineering	-	-	-	-	-	13
14	Basic Technician Certificate in Shipping and Logistics Management	-	-	-	24	85	88
15	Basic Technician certificate in Procurement and Supply Chain Management	-	-	-	-	-	6
16	Chief and Second Engineering unlimited class (2/1)	11	7	9	9	8	10
17	Office in charge Engineering Watch (Class 3)	15	8	10	11	4	3
18	Electrical Officer	-	-	2	2	1	-
19	Table 9.2.20: Office in charge Engineering Watch less than 750 (Class 4)	14	16	7	6	7	13
20	Master and Chief Mate of more than 3000 GT (class 2/1)	6	6	5	11	8	6
21	Officer in charge of Navigational Watch Desk Officer (class 3)	14	17	4	5	7	7
22	Officer in charge of Navigational Watch near coastal Desk Officer (class 4)	17	37	17	20	7	11
Total		315	342	289	311	519	798

Source: DMI

ANNEX 1

Trunk and Regional Roads Network

TRUNK AND REGIONAL ROADS NETWORK



ANNEX 2

Tanzania Roads Distance Chart in KM

		TANROADS																								
		TANZANIA ROAD DISTANCE CHART IN KM - MARCH 2017																								
	DSM	ARUSHA	BABATI	BARIADI	BUKOPA	DODOMA	GEITA	IRINGA	KIBAHA	KIGOMA	LINDI	MBEYA	MOROGORO	MOSHI	MPANDA	MTWARA	MUSOMA	MWANZA	NJOMBE	SHINYANGA	SINGIDA	SONGEA	SUMBAWANGA	TABORA	TANGA	VVAWA
DSM	646	814	1127	1433	451	1228	492	35	1258	452	822	192	566	1383	556	1370	1152	710	989	696	947	1150	829	354	893	
ARUSHA	646	168	762	1068	425	863	689	611	1090	1098	1020	621	80	1581	1202	499	787	907	624	331	1144	1348	661	435	1091	
BABATI	814	168	594	900	257	695	521	779	922	1266	851	516	248	1413	1370	513	619	739	456	163	976	1179	493	603	922	
BARIADI	1127	762	594	654	676	376	940	1092	761	1579	899	935	842	695	1683	164	230	1158	138	431	1396	928	332	1197	970	
BUKOPA	1433	1068	900	654	982	298	1246	1398	551	1885	1205	1241	1148	720	1989	634	416	1464	516	737	1671	954	638	1503	1276	
DODOMA	451	425	257	676	982	777	264	416	807	903	594	259	505	1155	1007	919	701	482	538	245	720	922	378	588	665	
GEITA	1228	863	695	376	298	777	1041	1193	514	1680	1000	1036	943	684	1784	337	119	1259	239	532	1496	917	433	1298	1071	
IRINGA	492	689	521	940	1246	264	1041	457	1071	944	330	300	769	891	1048	1183	965	218	802	509	455	658	642	629	401	
KIBAHA	35	611	779	1092	1398	416	1193	457	1223	487	787	157	531	1348	591	1335	1117	675	954	661	912	1115	794	319	858	
KIGOMA	1258	1090	922	761	551	807	514	1071	1223	1710	860	1066	1170	299	1814	851	633	1089	622	759	1326	532	429	1525	789	
LINDI	452	1098	1266	1579	1885	903	1680	944	487	1710	1068	644	1018	1629	104	1822	1604	839	1441	1148	602	1396	1281	806	1139	
MBEYA	822	1020	851	899	1205	594	1000	330	787	860	1068	630	1100	561	1122	1142	924	229	761	603	466	328	567	959	71	
MOROGORO	192	621	516	935	1241	259	1036	300	157	1066	644	630	541	1191	748	1178	960	518	797	504	755	958	637	329	701	
MOSHI	566	80	248	842	1148	505	943	769	531	1170	1018	1100	541	1104	1122	579	887	987	704	411	1224	1428	741	355	1171	
MPANDA	1383	1581	1413	695	720	1155	684	891	1348	299	1629	561	119	1104	1683	938	720	790	557	693	1027	233	363	1520	490	
MTWARA	556	1202	1370	1683	1989	1007	1784	1048	591	1814	104	1122	748	1122	1683	1926	1708	893	1545	1252	656	1450	1385	910	1193	
MUSOMA	1370	499	513	164	634	919	337	1183	1335	851	1822	1142	1178	579	938	1926	218	1401	381	674	1638	1171	575	933	1213	
MWANZA	1152	787	619	230	416	701	119	965	1117	633	1604	924	960	867	720	1708	218	1183	163	456	1420	953	357	1222	995	
NJOMBE	710	907	739	1158	1464	482	1259	218	675	1089	839	229	518	987	790	893	1401	1183	1020	727	237	557	796	847	300	
SHINYANGA	989	624	456	138	516	538	239	802	954	622	1441	761	797	704	557	1545	381	163	1020	293	1257	790	194	1059	832	
SINGIDA	696	331	163	431	737	245	532	509	661	759	1148	603	504	411	693	1252	674	456	727	293	964	931	330	766	674	
SONGEA	947	1144	976	1396	1671	720	1496	455	912	1326	602	466	755	1224	1027	656	1638	1420	237	1257	964	794	1033	1084	537	
SUMBAWANGA	1150	1348	1179	928	954	922	917	658	1115	532	1396	328	958	1428	233	1450	1171	953	557	790	931	794	596	1287	257	
TABORA	829	661	493	332	638	378	433	642	794	429	1281	567	637	741	363	1385	575	357	796	194	330	1033	596	1096	638	
TANGA	354	435	603	1197	1503	588	1298	629	319	1525	806	959	329	355	1520	910	933	1222	847	1059	766	1084	1287	1096	1030	
VVAWA	893	1091	922	970	1276	665	1071	401	858	789	1139	71	701	1171	490	1193	1213	995	300	832	674	537	257	638	1030	

NOTE:

ROUTE	VIA	ROUTE	VIA	ROUTE	VIA
Dar - Kigoma	Itigi - Tabora	Bukoba - Mbeya	Nzega - Tabora	Kigoma - Njombe	Mpanda - Sumbawanga - Mbeya
Dar - Musoma	Singida - Shinyanga - Mwanza	Bukoba - Njombe	Singida - Dodoma - Iringa	Kigoma - Tabora	Malagarasi
Arusha - Iringa	Babati - Dodoma	Dodoma - Mbeya	Mtera - Iringa	Lindi - Mbeya	Masasi - Songea - Njombe
Arusha - Kigoma	Singida - Nzega - Tabora	Dodoma - Kigoma	Itigi - Tabora	Mbeya - Mtwara	Njombe - Songea - Masasi
Arusha - Mbeya	Babati - Dodoma - Iringa	Geita - Mpanda	Nyakanazi - Kasulu	Mbeya - Singida	Rungwa - Itigi
Arusha - Musoma	Serengeti	Geita - Njombe	Singida - Dodoma - Iringa	Musoma - S'wanga	Tabora - Ipole - Mpanda
Arusha - Mwanza	Babati - Singida - Shinyanga	Iringa - Kigoma	Dodoma - Itigi - Tabora	Musoma - Tanga	Serengeti - Arusha
Babati - Iringa	Dodoma	Iringa - Tabora	Dodoma - Itigi	Mwanza - Tanga	Shinyanga - Singida - Arusha
Babati - Morogoro	Dodoma	Kigoma - Mbeya	Mpanda - Sumbawanga	Singida - S'wanga	Rungwa - Mbeya
Babati - Musoma	Makuyuni - Serengeti	Kigoma - Musoma	Nyakanazi - Geita - Mwanza	Singida - Tabora	Nzega



