

# THE UNITED REPUBLIC OF TANZANIA



## MINISTRY OF WORKS AND TRANSPORT (TRANSPORT SECTOR)



## TRANSPORT AND METEOROLOGY SECTOR STATISTICS

DECEMBER, 2021

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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 business, 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. I believe that these Statistics will be used as a tool during the planning and implementation of different National and International plans.



Gabriel J. Migire

**PERMANENT SECRETARY - TRANSPORT**

## LIST OF ABBREVIATIONS

DMI	Dar es Salaam Maritime Institute
DART	Dar es Salaam Rapid Transit
BRT	Bus Rapid Transit
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
MoWT	Ministry of Works and Transport
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: INTRODUCTION**

Statistics are fundamental 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.

The 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 and Transport (Works and Transport Sectors). 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), Air Tanzania Company Limited (ATCL), Tanzania Zambia Railway Authority (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), Dar es Salaam Rapid Transit (DART) and Traffic Police (HQ).

## 1.1 Basic Background Data

Table 1.1: Data Describing Tanzania, 2021

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 Southwest and Mozambique to the South.
3.	Total area of Tanzania (000 Sq. Km)	947.3km <sup>2</sup> of which 61.5 km <sup>2</sup> 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 <sup>2</sup>
4.	Capital City	Dodoma with projected population of 2.729 million (2021)
5.	Commercial City	Dar es Salaam with projected population of 5.526 million (2021)
6.	Number of Regions	26 regions in Tanzania Mainland and 5 regions in Zanzibar (i.e 31 regions)
7.	Rainfall	1019.1mm mm per year
8.	Average Temperature	18.1 - 28.6°C per year
9.	Tanzania Population (Projection by Dec. 2021)	57.27 million people
10.	Other major regions with their projected population	Mwanza (3,983,793), Kagera (3,353,241), Tabora (3,191,194) and Mbeya (2,274,236)
11.	Estimated Average Population Density of the Country	63 Inhabitants per square kilometer (inh/km <sup>2</sup> )
12.	Extremes of average population density of the country	Dar es Salaam about 3,967 inhabitants/km <sup>2</sup> to 16 inhabitants/km <sup>2</sup> in Lindi Region.
13.	GDP at Market Prices	Tshs.161,525,759 (2021)
14.	GDP Growth rate	4.9% (2021)
15.	Transport and storage growth rate	3.5 % (2021)
16.	Transport and storage share to GDP	7.1% (2021)
17.	Classified Road Network (2021)	180,791 Km (National Road 36,362 Km and District Roads 144,429.77 Km)
18.	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).
19.	International Airports	JNIA, KIA and Abeid Aman Karume (AAKIA)

S/N	PARTICULAR	DATA/INFORMATION
20.	Aerodromes Network	Tanzania has 368 airports in including airstrips serving domestic and international traffic. Tanzania Airports Authority (TAA) operates 59 and others are operated by various institutions.
21.	Number of ATCL's operational aircraft	11 Aircraft
22.	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).
23.	Major Mountains	Mt. Kilimanjaro, Mt. Rungwe and Mt. Meru
24.	Major Lakes	Lake Victoria, Lake Tanganyika and Lake Nyasa
25.	Major Rivers	Kagera, Ruvuma and Rufiji
26.	Ships and Boats	Total number of Ships and Boats in Tanzania mainland - 6,526 (6,439 Vessels with Gross Tonnage below 50; and 87 Vessels Above 50GT or 24m)

Source: MWTC& NBS.

## 1.2 Basic Information of the Economic Survey 2021

**Table 1.2.1: Percentage Shares of Gross Domestic Product by Kind of Economic Activity (At current prices)**

S/N	ECONOMIC ACTIVITY	2014	2015	2016	2017	2018	2019	2020	2021
1.	Agriculture, forestry and fishing	25.8	26.8	27.4	28.8	27.9	26.6	26.4	26.1
	Crops	14.0	14.1	15.2	16.6	16.3	14.8	15.1	14.6
	Livestock	6.8	7.6	7.6	7.5	7.2	7.4	7.0	7.0
	Forestry	3.0	3.1	2.9	2.8	2.7	2.7	2.6	2.8
	Fishing	2.0	2.0	1.8	1.9	1.7	1.7	1.6	1.8
	Agriculture Support Services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.	Mining and quarrying	3.8	4.3	4.9	4.4	5.1	5.2	6.6	7.2
3.	Manufacturing	9.1	7.9	7.8	7.7	8.1	8.5	8.3	7.8
4.	Electricity supply	1.0	0.9	0.4	0.4	0.3	0.3	0.3	0.2
5.	Water supply; sewerage, waste management	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.5
6.	Construction	10.8	11.1	11.3	12.2	13.1	14.3	14.1	13.8
7.	Wholesale and retail trade; repairs	9.7	9.3	9.1	9.1	9.1	8.8	8.6	8.7
8.	Transport and storage	7.5	7.3	7.0	6.7	6.5	6.9	7.4	7.1
9.	Accommodation and Food Services	1.6	1.5	1.4	1.4	1.3	1.3	1.0	1.1

S/N	ECONOMIC ACTIVITY	2014	2015	2016	2017	2018	2019	2020	2021
10.	Information and communication	1.9	1.8	1.6	1.5	1.5	1.5	1.5	1.5
11.	Financial and insurance activities	4.4	4.4	4.9	4.0	3.8	3.5	3.5	3.4
12.	Real estate	3.3	3.1	2.9	2.8	2.8	2.7	2.8	2.8
13.	Professional, scientific and technical activities	0.5	0.6	0.6	0.6	0.6	0.6	0.7	0.7
14.	Administrative and support service activities	2.3	2.3	2.5	2.6	2.6	2.6	2.6	2.7
15.	Public administration and defense	4.8	4.8	4.5	4.2	4.0	3.8	3.7	3.6
16.	Education	2.5	2.6	2.5	2.4	2.4	2.4	2.3	2.3
17.	Human health and social work activities	1.5	1.5	1.4	1.4	1.4	1.4	1.4	1.4
18.	Arts, entertainment and recreation	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
19.	Other service activities	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
20.	Activities of households as employers;	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
21.	<b>All economic activities</b>	<b>92.2</b>	<b>91.7</b>	<b>91.8</b>	<b>91.8</b>	<b>92.1</b>	<b>91.9</b>	<b>92.7</b>	<b>92.3</b>
22.	Taxes on products	7.8	8.3	8.2	8.2	7.9	8.1	7.3	7.7
	<b>GDP at market prices</b>	<b>100</b>							

Source: The Economic Survey 2021, MoF

Table 1.2.2: Gross Domestic Products by Kind of Economic Activity (At constant 2015 prices)

S/N	ECONOMIC ACTIVITY	2017	2018	2019	2020	2021
1.	<b>Agriculture, forestry and fishing</b>	<b>28,008,976</b>	<b>29,504,198</b>	<b>30,802,027</b>	<b>32,323,876</b>	<b>33,577,189</b>
	Crops	14,895,622	15,659,175	16,351,312	17,174,743	17,785,972
	Livestock	7,876,592	8,266,049	8,676,074	9,107,854	9,562,643
	Forestry	3,180,379	3,334,791	3,495,187	3,608,190	3,735,011
	Fishing	2,020,292	2,206,242	2,239,899	2,391,613	2,451,430
	Agriculture Support Services	36,091	37,941	39,562	41,475	42,133
	<b>Industry and Construction</b>	<b>28,565,774</b>	<b>31,344,128</b>	<b>34,976,982</b>	<b>37,536,062</b>	<b>39,584,470</b>
2.	Mining and quarrying	4,588,624	4,659,195	5,485,112	5,878,342	6,442,881
3.	Manufacturing	8,889,818	9,623,501	10,184,558	10,646,279	11,155,762
4.	Electricity supply	877,667	928,174	994,879	1,049,610	1,154,204
5.	Water supply; sewerage, waste	444,660	477,510	510,411	540,159	575,213

S/N	ECONOMIC ACTIVITY	2017	2018	2019	2020	2021
	management					
6.	Construction	13,765,005	15,655,747	17,802,021	19,421,672	20,256,410
	<b>Services</b>	<b>42,689,011</b>	<b>45,369,789</b>	<b>48,114,453</b>	<b>50,176,728</b>	<b>52,662,916</b>
7.	Wholesale and retail trade; repairs	9,821,248	10,396,691	10,965,038	11,196,339	11,590,493
8.	Transport and storage	7,815,845	8,736,561	9,493,191	10,293,276	10,658,344
9.	Accommodation and Food Services	1,525,619	1,604,391	1,645,950	1,419,654	1,514,711
10.	Information and communication	1,824,471	1,989,717	2,133,312	2,313,029	2,524,564
11.	Financial and insurance activities	4,115,393	4,094,972	4,281,167	4,412,967	4,629,490
12.	Real estate	3,211,895	3,354,518	3,505,485	3,663,972	3,827,460
13.	Professional, scientific and technical activities	694,291	763,332	821,636	881,833	942,013
14.	Administrative and support service activities	2,892,463	3,054,288	3,311,753	3,569,800	3,817,047
15.	Public administration and defense	4,907,113	5,064,968	5,238,491	5,438,146	5,714,547
16.	Education	2,859,171	3,046,789	3,257,406	3,365,355	3,538,281
17.	Human health and social work activities	1,611,999	1,746,731	1,833,514	1,953,479	2,065,677
18.	Arts, entertainment and recreation	307,907	350,027	389,225	372,120	447,488
19.	Other service activities	912,404	971,690	1,037,083	1,089,265	1,181,814
20.	Activities of households as employers;	189,193	195,113	201,203	207,492	213,987
21.	<b>All economic activities</b>	<b>99,263,761</b>	<b>106,218,115</b>	<b>113,893,462</b>	<b>120,036,665</b>	<b>125,824,576</b>
22.	Taxes on products	8,393,644	8,923,215	9,303,274	9,093,517	9,693,237
	<b>GDP at market prices</b>	<b>107,657,405</b>	<b>115,141,329</b>	<b>123,196,736</b>	<b>129,130,182</b>	<b>135,517,813</b>

**Source:** The Economic Survey 2021, MoF

**Table 1.2.3: Gross Rates of Domestic Products by Kind of Economic Activity (At constant 2015 prices)**

S/N	ECONOMIC ACTIVITY	2015	2016	2017	2018	2019	2020	2021
1.	Agriculture, forestry and fishing	5.4	4.8	5.9	5.4	4.4	4.9	3.9
	Crops	7.6	5.4	6.4	5.2	4.4	5.0	3.6
	Livestock	4.9	4.9	4.9	4.9	5.0	5.0	5.0
	Forestry	3.4	3.9	4.8	4.9	4.8	3.2	3.5
	Fishing	- 4.5	1.2	8.4	9.2	1.5	6.8	2.5
	Agriculture Support Services	4.5	4.0	5.5	5.2	4.3	4.8	1.6
2.	Mining and quarrying	10.0	7.4	5.3	1.5	17.7	7.2	9.6
3.	Manufacturing	7.1	10.8	8.2	8.3	5.8	4.5	4.8
4.	Electricity supply	-2.0	8.8	1.0	5.8	7.2	5.5	10.0
5.	Water supply; sewerage, waste management	2.4	6.9	6.4	7.4	6.9	5.8	6.5
6.	Construction	12.9	14.5	15.1	12.9	13.7	9.1	4.3
7.	Wholesale and retail trade; repairs	3.6	5.9	6.1	5.8	5.5	2.1	3.5
8.	Transport and storage	5.4	5.7	6.7	11.8	8.7	8.4	3.5
9.	Accommodation and Food Services	1.7	4.1	3.1	5.2	2.6	-13.7	6.7
10.	Information and communication	7.8	2.2	6.2	9.1	7.2	8.4	9.1
11.	Financial and insurance activities	11.3	1.1	-2.8	-0.5	4.5	3.1	4.9
12.	Real estate	4.3	4.3	4.4	4.4	4.5	4.5	4.5
13.	Professional, scientific and technical activities	15.7	17.0	14.5	9.9	7.6	7.3	6.8
14.	Administrative and support service activities	10.5	19.6	10.8	5.6	8.4	7.8	6.9
15.	Public administration and defense	7.2	5.4	2.4	3.1	3.4	3.8	5.1
16.	Education	10.4	10.4	7.3	6.6	6.9	3.3	5.1
17.	Human health and social work activities	5.1	5.6	7.6	8.1	5.0	6.5	5.7
18.	Arts, entertainment and recreation	7.7	12.7	9.9	13.7	11.2	-4.4	19.4
19.	Other service activities	4.7	13.5	12.0	6.5	6.7	5.0	8.5
20.	Activities of households as employers;	3.2	3.2	3.2	3.1	3.1	3.1	3.1
	<b>All economic activities</b>	<b>6.9</b>	<b>7.3</b>	<b>7.0</b>	<b>6.9</b>	<b>7.2</b>	<b>5.4</b>	<b>4.8</b>
21.	Taxes on products	-1.7	2.0	4.6	8.0	4.3	-2.3	6.6
	<b>GDP at market prices</b>	<b>6.2</b>	<b>6.9</b>	<b>6.8</b>	<b>7.0</b>	<b>7.0</b>	<b>4.8</b>	<b>4.9</b>

**Source:** *The Economic Survey 2021, MoF*

## CHAPTER TWO: ROAD TRANSPORT INFRASTRUCTURE AND SERVICES

The total road network in Tanzania is 180,791.77 km classified as National Roads (Trunk & Regional) which is 36, 362 Km and District Roads, 144,429.77 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 follows: -

*Table 2.1.1: Trunk and Regional Road Network*

Year	Trunk Rods		Regional Roads		Total Km
	Paved	Unpaved	Paved	Unpaved	
	Km	Km	Km	Km	
2015	7,342	5,444	1,321	20,893	<b>35,000</b>
2016	7,646	5,140	1,398	20,816	<b>35,000</b>
2017	7,807	4,416	1,458	22,578	<b>36,258</b>
2018	8,306	3,870	1,756	22,326	<b>36,258</b>
2019	8,671	3,551	1,808	22,228	<b>36,258</b>
2020	9,091	3,124	2,118	22,028	<b>36,362</b>
2021	9,210	3,006	2,118	22,028	<b>36,362</b>

**Source:** MOWT & TANROADS

Table 2.1.2: District Roads Network

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%	<b>108,946.19</b>
2018	1,449.55	1.30%	24,405.40	22.40%	83,091.24	76.30%	<b>108,946.19</b>
2019	2,250.69	2.10%	27,809.26	25.60%	78,886.25	72.40%	<b>108,946.19</b>
2020	2,404.90	2.21%	29,166.57	26.77%	77,374.71	71.02%	<b>108,946.19</b>
2021	2,473.55	1.71%	30,756.51	21.30%	111,199.72	76.99%	<b>144,429.77</b>

Source: POLARG & TARURA

## 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
2020	12,722	40	15,500	48	3,853	12	32,075	100
2021	12,676	38	17,432	51	3,614	11	33,722	100

Source: TANROADS

Table 2.2.2: District Roads' condition

S/N	Surface Type	Road Condition (Km)			Total (Km)	(%)
		Good	Fair	Poor		
1.	Paved	1,898.25	510.88	227.11	2,636.24	1.83
2.	Gravel	15,415.51	12,819.64	3,729.69	31,964.83	22.13
3.	Earth	15,865.75	35,715.95	58,247.00	109,828.70	76.04
	<b>Total</b>	33,179.51	49,046.47	62,700.70	144,429.77	100
	<b>(%)</b>	23.0	34.05	43.1	100	

## 2.3 Bus Fares and Routes

Table 2.3.1: Average Bus Fares from Dar es Salaam to other regions

S/N	DESTINATION	2020			2021		
		NUMBER OF SERVICE PER DAY	TRAVEL TIME (HRS)	AVERAGE FARES (TSHS)	NUMBER OF SERVICES PER DAY	TRAVEL TIME (HRS)	AVERAGE FARES (TSHS)
1.	Arusha	65	10	32,800	10	12	36,000
2.	Bukoba (Via Singida)	12	22	60,000	5	24	80,000
3.	Dodoma	36	6	25,000	20	9	25,000
4.	Iringa	16	8	23,000	10	11	26,000
5.	Kondoa	4	9	0	3	11	30,000
6.	Lindi	14	7	23,000	14	7	27,000
7.	Lushoto	14	5	16,000	4	8	20,000
8.	Mbeya	27	13	45,000	11	14	40,000
9.	Moshi	65	8	32,800	10	9	36,000
10.	Mpwapwa	4	7	22,000	3	8	22,000
11.	Mtwara	14	8	25,000	10	9	30,000
12.	Musoma	5	21	55,000	2	21	75,000
13.	Njombe	7	12	35,000	5	13	40,000
14.	Rombo	8	9	31,000	3	11	32,000
15.	Shinyanga	13	15	45,000	10	14	55,000
16.	Singida	7	10	33,000	5	12	38,000
17.	Songea	6	15	50,000	4	16	52,000
18.	Sumbawanga	4	18	55,000	3	23	63,000
19.	Tanga	40	5	22,000	37	6	20,000
20.	Tabora	7	13	40,000	4	5	46,000
21.	Masasi/Nachin gwea	3	9	0	3	9	35,000
22.	Handeni	11	4	12,000	11	4	14,000
23.	Ifakara	6	8	16,000	2	10	22,000
24.	Geita	2	19	45,000	3	21	63,000
25.	Kigali (Rwanda)	Twice per week	56	85,000	0	N/A	N/A
26.	Kigoma	6	20	60,000	5	23	80,000

Source: LATRA

**Table 2.3.2: Average bus fares from Dodoma to another region**

S/N	DESTINATION	DISTANCE (KM)	2020			2021		
			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	60	20,000	9	20	22,000
2.	Singida	245	4	15	12,000	4	10	13,000
3.	Arusha	425	7	20	23,000	8	6	24,000
4.	Iringa Via Mtera	264	4.5	15	15,000	5	7	15,000
5.	Kondoa	160	3	15	8,000	3	6	8,000
6.	Mbeya	594	10	8	28,000	10	4	28,000
7.	Moshi	509	8	10	27,000	8.5	3	29,000
8.	Mpwapwa	125	4	6	6,000	4	4	7,000
9.	Musoma	924	15	1	40,000	14.5	1	45,000
10.	Njombe	485	9	4	23,000	10	2	27,000
11.	Rombo via Babati/Kondoa	601	10	2	32,000	10	1	32,000
12.	Shinyanga	539	9.3	1	25,000	10	0	26,000
13.	Songea	721	13	4	38,000	12.5	3	40,000
14.	Tanga	581	10	2	23,000	11	2	24,000
15.	Ifakara via Morogoro	482	11	2	22,000	11.5	2	24,000
16.	Tabora Via Itigi	378	6.5	2	24,000	7.5	2	24,000
17.	Mwanza (via Singida)	701	13	8	30,000	13	5	31,000
18.	Songwe	665	-	-	-	-	-	-

**Source:** LATRA

**Table 2.3.3: Average bus fares from Dar es Salaam to neighboring Countries (Major Cities)**

S/N	Destination	2020			2021		
		Number of Service/ Day	Travel Time (HRS)	Average Fares	Number of Service/ Day	Travel Time (HRS)	Average Fares
1.	Bulawayo	0	78	150,00	0	-	-
2.	Harare	2 per week	75	140,000	4 per week	75	170,000
3.	Lusaka	1 per week	54	140,000	1 per day	54	120,000
4.	Kigali	0	56	85,000	0	56	
5.	Bujumbura	2 per week	50	90,000	2 per week	50	90,000
6.	Kampala (via Bukoba)	1 per week	53	110,000	1 per week	53	110,000

S/N	Destination	2020			2021		
		Number of Service/Day	Travel Time (HRS)	Average Fares	Number of Service/Day	Travel Time (HRS)	Average Fares
7.	Lilongwe	2 per week	50	80,000	0	N/A	N/A
8.	Lubumbashi	1 per week	74	150,000	4 per week	74	150,000
9.	Nairobi	1 per week	19	110,000	1 per week	17	75,000
10.	Mombasa	1 per week	13	30,000	2 per week	11	40,000

Source: LATRA

## 2.4 Motor Vehicles Licensed for Road Transport

Table 2.4.1: Motor Vehicles Licensed for Road Transport

S/N	Type of License	2015	2016	2017	2018	2019	2020	2021
1.	Passenger Services Vehicle Licensed	47,451	46,619	51,749	56,449	55,495	52,081	45,111
2.	Goods Services Vehicle Licensed	81,567	87,274	99,484	111,345	123,451	142,558	126,437
	<b>Total</b>	<b>129,018</b>	<b>133,893</b>	<b>151,233</b>	<b>167,794</b>	<b>178,946</b>	<b>194,639</b>	<b>171,548</b>

Source: LATRA

Table 2.4.2: Commuter buses Licensed for Road Transport in Dar es Salaam

S/N	BUS CAPACITY	2015	2016	2017	2018	2019	2020	2021
1.	<=15	599	1,346	3,027	2,765	2,420	2,039	530
2.	16-25	952	2,064	4,475	5,135	5,539	5,488	5,444
3.	26-45	1,662	3,267	6,422	6,478	6,442	6,732	7,442
4.	46-65	328	541	892	900	868	901	345
5.	Above 65	2	5	11	7	12	12	1
	<b>TOTAL</b>	<b>3,543</b>	<b>7,223</b>	<b>14,827</b>	<b>15,285</b>	<b>15,281</b>	<b>15,172</b>	<b>13,762</b>

Source: LATRA

## 2.5 Dar Rapid Transit (DART)

DART Agency is a government entity established to operate Bus Rapid Transit (BRT) system for Dar es Salaam. The BRT is planned to be implemented in six phases which will be integrated and work as one system with a total length of 154.4 km.

The construction works of BRT Infrastructure for Phase I with 20.9 km length were completed in 2015 and bus operations started since 10th May 2016.

Figure 2.5.1: Six phases of BRT



Source: DART

Table 2.5.1: BRT network in Dar es Salaam

PHASE	ROAD NAME	LENGTH (KM)
1	Morogoro (Kimara to Kivukoni)	15.8
	Kawawa (Morocco to Magomeni)	3.4
	Msimbazi (Fire to Kariakoo terminal)	1.7
	<b>Sub total</b>	<b>20.9</b>

Source: DART

**Table 2.5.2: Operational BRT infrastructures routes and fare – 2021**

Na	Trunk Route	Fare (Tsh)
1.	Kimara- Kivukoni	650
2.	Kimara- Gerezani	650
3.	Kimara- Morocco	650
4.	Ubungo-Kivukoni	650
5.	Ubungo -Gerezani	650
6.	Morocco-Kivukoni	650
7.	Morocco-Gerezani	650
<b>Feeder Routes</b>		
1.	Kimara -Mbezi	400
2.	Gerezani - Muhimbili	400
3.	Kimara - Kibaha	650
4.	Kimara-Mlongazila	650

**Source: DART**

**Table 2.5.3: Average daily Number of Buses/monthly**

Na	Month	2020	2021
1.	January	94	99
2.	February	94	103
3.	March	88	100
4.	April	85	104
5.	May	72	108
6.	June	79	109
7.	July	83	110
8.	August	84	134
9.	September	98	136
10.	October	88	152
11.	November	86	157
12.	December	88	149

**Source: DART**

**Table 2.5.4: Average Passenger Ridership per day (2018 – 2021)**

S/N	Month	2018	2019	2020	2021
1.	January	177,721	160,437	154,978	110,955
2.	February	183,184	156,530	152,222	110,499
3.	March	181,258	148,998	133,092	111,618
4.	April	121,491	149,248	55,913	104,816
5.	May	144,191	140,866	49,682	120,072
6.	June	194,043	154,140	67,534	147,700
7.	July	179,390	162,872	99,719	134,447
8.	August	179,257	159,453	110,208	121,189
9.	September	180,116	158,587	118,317	135,475
10.	October	183,751	156,233	109,935	167,476
11.	November	182,184	164,701	123,606	191,560
12.	December	173,507	154,568	128,597	187,716

**Source: DART**

## 2.6 Road Accidents

Table 2.6.1: Road Traffic Motor Vehicle Accidents in Tanzania

S/N	Year/Descriptions	2015	2016	2017	2018	2019	2020	2021
1.	Total Number of Accidents	8,337	9,856	5,578	3,732	2,704	1,827	1,698
2.	Number of killed persons	3,468	3,256	2,581	1,788	1,440	1,357	1,245
3.	Number of Injured Persons	9,383	8,958	5,489	3,746	2,834	2,245	2,023

Source: TRAFFIC POLICE

Table 2.6.2: Sources of Road Motor Vehicle Traffic Accidents in Tanzania

S/N	YEAR/DESCRIPTIONS	2017	2018	2019	2020	2021
1.	Reckless Driving	2,191	1,542	1,160	762	766
2.	Vehicles Defects	381	197	105	83	52
3.	Speed	509	364	288	276	354
4.	Environmental Causes	752	481	46	271	91
5.	Alcohol/Intoxication	93	61	492	15	34
6.	Careless Motor Cyclist	1,142	725	72	307	300

Source: TRAFFIC POLICE

## 2.7 Registered Vehicles in Tanzania

Table 2.7.1: Number of Vehicles by Category

S/N	Vehicle Category	2017	2018	2019	2020	2021
1.	Motorcycles less than 3 wheels)	1,325,228	1,440,502	1,587,814	1,732,140	1,925,608
2.	Motor tricycles	79,195	90,153	103,727	116,952	134,695
3.	Private Vehicles	924,567	983,167	1,008,303	1,066,361	1,172,997
4.	Light passengers' vehicles (less than 12 persons)	579,512	617,487	657,282	697,547	738,760
5.	Heavy passengers' vehicles (12 or more passers)	60,709	63,773	66,698	69,673	73,122
6.	Light load vehicles (GVM 3500 or less	102,071	106,475	110,925	115,135	119,816
7.	Heavy load vehicles (GVM>3500 kg)	102,935	109,305	115,794	121,109	128,040
8.	Trailer	40,460	43,732	47,925	51,189	55,148
9.	Agricultural tractor	21,869	23,394	25,122	26,572	28,237
10.	Agricultural trailer	979	985	1,010	1,017	1,026
11.	Construction Equipment	9,210	10,448	11,829	12,814	14,135
12.	Others	6,826	7,569	8,376	9,178	10,025
	<b>TOTAL</b>	<b>2,328,994</b>	<b>2,513,823</b>	<b>2,736,502</b>	<b>2,955,346</b>	<b>3,228,612</b>

Source: TRA

## CHAPTER THREE: 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 2,707 km network.

The performance of rail sector for the period from 2006 to 2021 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*

S/N	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*

S/N	STATIONS		DISTANCE (KM)	STATUS
	HUB	DESITINATIONS		
1.	Dar es Salaam	New Kapiri Mposhi- NKM	1860	Operational
2.	Nakonde - 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)							
		2014	2015	2016	2017	2018	2019	2020	2021
1.	TRC Passengers	295	388	517	566	591	493	444	417
2.	TAZARA Passengers	536	455	414	484	543	891	840	861
	<b>Total</b>	<b>831</b>	<b>843</b>	<b>931</b>	<b>1,050</b>	<b>1,134</b>	<b>1,384</b>	<b>1,284</b>	<b>1,278</b>

Source: TRC & TAZARA

Table 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
2020	342,549	209,708	552,257
2021	316,205	213,553	529,758

Source: TRC & TAZARA

### 3.3 Railway Freight Traffic

Table 3.3.1: Railway Freight (000 Tons)

Year	TRC Freight Tons) (000	TAZARA Freight Tons) (000	Total Freight Tons) (000
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
2020	340	199	539
2021	370	253	623

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
2020	304,820	252,837	557,657
2021	366,561	309,504	676,065

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 Locomotive Availability per Day (%)	Average per Day	TAZARA Locomotive per Day (%)	Average Availability	Railway Locomotive per Day (%)	Average Availability
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		62.3
2017		78		39.9		59.0
2018		77		52.2		64.6
2019		76		41.0		58.5
2020		70		63.9		67.0
2021		66.7		69.4		68.1

Source: TRC & TAZARA

**Table 3.4.2: Locomotive Reliability for TRC and TAZARA**

S/N	Year	TAZARA (km/failure)	TRC (km/failure)
3.	2015	6,945	3,842
4.	2016	5,985	5,484
5.	2017	8,100	9,107
6.	2018	8,085	8,253
7.	2019	8,550	10,151
8.	2020	7,275	9,292
9.	2021	8,140	9,567

Source: TRC & TAZARA

\* The higher the km per failure the better the efficiency.

### 3.5 Railways Domestic Freight

Table 3.5.1: 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
2020	66.9	294	360.9
2021	87.9	394	481.9

Source: TRC & TAZARA

### 3.6 Railways Incidences and Accident

Table 3.6.1: Railways Incidences and Accident

S/N	Incidence/ Accident	2016		2017		2018		2019		2020		2021	
		TRC	TZR										
1.	Deaths Incidences	13	28	10	14	16	20	6	27	14	25	21	23
2.	Incidences leading to Injuries	27	2	12	8	10	28	5	24	20	16	24	18
3.	Collisions	2	19	1	23	3	2	8	4	3	1	2	4
4.	Derailment & Capsizements	115	21	275	22	227	27	366	45	209	24	137	34
5.	Wash ways	29	2	22	1	40	0	24	0	72	0	50	0

Source: TRC & TAZARA

## CHAPTER FOUR: 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 importer/buyer claims the merchandise. 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	2020	2021
1.	Dar es Salaam	318	194	147	285	129	159
2.	Geita	24	86	241	120	797	1,454
3.	Kagera	1,128	1,374	773	1,934	1,866	916
4.	Kigoma	164	206	676	1,231	1,029	820
5.	Mara	577	999	314	576	601	545
6.	Mbeya, Ruvuma and Njombe	54	56	69	115	42	10
7.	Mtwara and Lindi	11	335	140	143	366	245
8.	Mwanza and Ukerewe	1,117	734	590	1,385	1,525	903
9.	Pwani	61	156	48	135	69	178
10.	Rukwa	230	113	46	188	316	912
11.	Tanga	64	732	390	421	355	234
12.	Others navigable waters	0	0	0	0	0	63
	<b>Total</b>	<b>3,748</b>	<b>4,985</b>	<b>3,434</b>	<b>6,533</b>	<b>9,115</b>	<b>6,439</b>

**Source:** TASAC

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

S/N	Maritime Region	2018	2019	2020	2021
1.	Dar es Salaam	14	7	16	24
2.	Pwani	0	2	30	1
3.	Tanga	0	3	123	0
4.	Mtwara & Lindi	0	7	102	4
5.	Mwanza & Ukerewe	38	66	997	36
6.	Kagera	0	2	1,512	0
7.	Kigoma	3	7	357	10
8.	Rukwa & Katavi	0	0	138	0
9.	Mbeya, Ruvuma & Njombe	3	5	15	0
10.	Mara	1	3	321	9
11.	Geita	1	0	583	3
	<b>Total</b>	<b>60</b>	<b>102</b>	<b>4,194</b>	<b>87</b>

**Source:** TASAC

**Table 4.1.3: Number Flag State Inspections**

S/N	Maritime Region	2018	2019	2020	2021
1.	Dar es Salaam	2	26	28	46
2.	Pwani	0	0	2	0
3.	Tanga	37	28	0	0
4.	Mtwara & Lindi	2	23	2	8
5.	Mwanza & Ukerewe	15	127	156	109
6.	Kagera	0	7	7	3
7.	Kigoma	0	2	12	11
8.	Rukwa & Katavi	0	0	0	0
9.	Mbeya, Ruvuma & Njombe	0	3	3	3
10.	Mara	1	15	20	18
11.	Geita	3	0	17	4
	<b>Total</b>	<b>60</b>	<b>231</b>	<b>247</b>	<b>202</b>

**Source:** TASAC

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

S/N	Maritime Region	2018	2019	2020	2021
1.	Dar es Salaam	4	2	3	11
2.	Tanga	3	2	0	0
3.	Mtwara	0	0	0	2
	<b>Total</b>	<b>7</b>	<b>4</b>	<b>3</b>	<b>13</b>

**Source:** TASAC

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

S/N	Maritime Region	2018	2019	2020	2021
1.	Dar es Salaam	0	14	12	0
2.	Pwani	0	0	0	0
3.	Tanga	0	0	0	0
4.	Mtwara & Lindi	0	0	6	0
5.	Mwanza & Ukerewe	2	1	0	0
6.	Kagera	0	0	0	0
7.	Kigoma	3	12	48	40
8.	Rukwa & Katavi	0	1	8	8
9.	Mbeya, Ruvuma & Njombe	1	0	0	0
10.	Mara	0	2	3	0
11.	Geita	1	0	0	0
	<b>Total</b>	<b>7</b>	<b>30</b>	<b>77</b>	<b>48</b>

**Source:** TASAC

## 4.2 Registered Seafarers

Number of 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	2016	2017	2018	2019	2020	2021
1.	Certificates of Competency (COC)	351	184	36	118	38	149
2.	Certificates of Proficiency (COP)	14,458	9,964	2,886	5,723	3,783	10,866
3.	Discharge Books (DB) for Seafarers	280	388	173	429	277	502
	<b>Total</b>	<b>15,089</b>	<b>10,536</b>	<b>5,699</b>	<b>4,833</b>	<b>6,118</b>	<b>11,517</b>

**Source:** TASAC

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

S/N	Port of registry	2018	2019	2020	2021
1.	Dar es Salaam	10	3	10	0
2.	Tanga	0	0	4	0
3.	Mtwara	0	4	0	0
4.	Mwanza	15	21	29	11
5.	Bukoba	0	0	0	0
6.	Kigoma	2	1	1	1
7.	Kasanga	0	0	0	0
8.	Itungi	2	0	1	0
9.	Mbamba bay	0	0	0	0
10.	Musoma	0	0	0	0
	<b>Total</b>	<b>29</b>	<b>29</b>	<b>45</b>	<b>12</b>

**Source:** TASAC

### 4.3 Clearing 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 4.3.1: Import Cargo Clearance**

S/N	Description	Unit of Measure	2019	2020	2021
1.	Ammunition	Kilograms	7685.9	9270.46	646.00
2.	Chemicals or any other liquid related products	Kilograms	15,506,883.92	30,527,916.05	29,479,558.57
3.	Firearms	Number	62	659	135
4.	Gas and Liquefied Gas	Litters	107,946,550.10	608,885,321.30	333,024,606.70
5.	Government Trophies	Kilograms		3,174.25	517.30
6.	Live Animals	Kilograms	105,093.20	282,050.73	3,041,776.95
7.	Machineries and Equipment related to Minerals and Petroleum	Kilograms	1,075,987.63	2,380,637.07	9,255,594.93
8.	Mineral	Kilograms	41,650,000	186,344,243.30	318,790,257.16
9.	Mineral Concentrates & Products and extracts related to minerals	Kilograms	6,102,786.50	40,781,494.99	36,363,696.03
10.	Minerals – Non-Precious	Kilograms	643,839.85	519,969,026.40	230,971,189.61
11.	Minerals – Precious Metals	Kilograms	5606.85	1.58	260,063,039.23
12.	Other	Kilograms	14,787,418.95	31,657,870.60	12,851,891.34
13.	Products or Extracts related to Petroleum	Litters	2,167,047,123	3,570,543,740	4,096,091,127.80
14.	Industrial Sugar	Kilograms	-	-	89,015,629.10

**Source:** TASAC

**Table 4.3.2: Export Cargo Clearance**

S/N	Description	Unit of Measure	2019	2020	2021
1.	Ammunition	Kilograms	-	8	15
2.	Chemicals or any other liquid related products	Kilograms	1,124,275	7,156,196	4,244,119.56
3.	Firearms	Number	-	-	-
4.	Gas and Liquefied Gas	Litters	-	778,380	2,967,610.00
5.	Government Trophies	Kilograms	563,241	817,031	1,033,837.94
6.	Live Animals	Kilograms	130,646	300,499	118,625,919.28
7.	Machineries and Equipment related to Minerals and Petroleum	Kilograms	68,951	7,026	487,516.35
8.	Mineral	Kilograms	4,930,745	19,139,200	99,062,919.05
9.	Mineral Concentrates & Products and extracts related to minerals	Kilograms	7,910,083	47,588,082	46,982,428.94
10.	Minerals – Non-Precious	Kilograms	23,197,879	182,199,410	98,926,836.29
11.	Minerals – Precious Metals	Kilograms	1,812,246	5,098,499	80,754,286.13
12.	Other	Kilograms	154,451,351	111,000	514,825.08
13.	Products or Extracts related to Petroleum	Litters	378,936	6,883,847	116,990,221.70

**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: Vessels attended by the Corporation**

S/N	Types of Vessels	Number of Vessels	
		2020	2021
1.	Tanker Ship	203	256
2.	Bulk Ship	85	108
3.	General Cargo Ship	19	50
4.	Yacht Ship for Bunkering (Others)	2	10
	<b>Total</b>	<b>309</b>	<b>424</b>

**Source:** TASAC

**Table 4.4.2: Number of licensed or registered Service providers in Marine Transport**

S/N	Regulated Subsectors	Validity period	2017	2018	2019	2020	2021
1.	Cargo consolidators/De-consolidators	One calendar year	37	29	28	31	24
2.	Clearing and Forwarding Agents	One calendar year	728	662	824	903	947
3.	Container Freight Stations (CFS)	Five Years	-	4	5	20	22
4.	Empty Container Depots (ECD)	Five years	-	-	1	6	7
5.	Gross Mass Verifiers (GMV)	One Financial Year	68	39	41	48	43
6.	Inland containers depots (ICD)	Five years	8	16	17	16	17
7.	Licensed Port Terminal Operators	Ten Years	-	-	-	1	6
8.	Miscellaneous Ports Services (MPS)	One year based on the date of issuance	43	18	81	79	65
9.	Shipping Agents	One calendar year	34	29	27	24	24
	<b>Total</b>		<b>918</b>	<b>797</b>	<b>1,024</b>	<b>1,128</b>	<b>1,155</b>

**Source:** TASAC

**Table 4.4.3: Licensed Small Vessels (Vessels below 50GT or 24m) (should be before survey and inspection tables)**

S/N	Maritime Region	2018	2019	2020	2021
1.	Dar es Salaam	139	235	82	166
2.	Pwani	22	75	30	10
3.	Tanga	247	191	123	125
4.	Mtwara & Lindi	52	92	102	144
5.	Mwanza & Ukerewe	466	928	997	451
6.	Kagera	702	1,103	1,512	401
7.	Kigoma	76	983	357	306
8.	Rukwa & Katavi	32	99	138	319
9.	Mbeya, Ruvuma & Njombe	49	24	15	10
10.	Mara	181	277	321	159
11.	Geita	40	63	83	756
	<b>Total</b>	<b>2006</b>	<b>4,070</b>	<b>3,760</b>	<b>2847</b>

*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.

**Table 4.5.1: Reported and recorded Marine Accidents**

S/N	DESCRIPTION	2018	2019	2020	2021
1.	Marine Accidents	5	6	10	6
2.	Number of persons involved in distress	296	54	242	49
3.	Number of persons rescued	54	83	176	36
4.	Number of Persons Causality	242	15	47	13
	<b>Total</b>	<b>597</b>	<b>158</b>	<b>475</b>	<b>104</b>

*Source: TASAC*

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

S/N	Type of reports	2019	2020	2021
1.	Weather	723	1,331	1,460
2.	Warning	413	659	633

*Source: TASAC*

#### **4.6.0 Tallying services**

The corporation continue to execute its exclusive mandate in ship tallying services as described in the table below.

**Table 4.6.1: Talled import and export cargo**

S/N	Item	Unit	2020		2021	
			Import	Export	Import	Export
1.	Number of Containers (Full)	TEU	119,864	78,019	138,146	94,626
2.	Number of Containers (Full)	FEU	91,296	26,974	122,643	32,238
3.	Number of Containers (LCL)	TEU	1,598	0	4,791	44,057
4.	Number of Containers (LCL)	FEU	449	0	538	82,772
5.	Vehicles	Number	114,830	242	162,107	143
6.	Packages (eg. Machines, Plants)	Number	0	0	4,911	0
7.	Break bulk	Tons	458,969	0	1,102,534	40,328
8.	Dry bulk	Tons	2,227,114	91,548	2,164,988	73,145

**Source:** TASAC

## CHAPTER FIVE: 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 5.1.1: 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
		Mbweni	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
		Kilwa Kisiwani	Indian Ocean
Rukirya	Indian Ocean		
4.	Small Ports along Lakes	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 5.2.1: Capacity of Main Sea Ports

S/N	DETAIL	DAR ES SALAAM	TANGA	MTWARA
1.	Deep Water Berths No.	12	2	3
2.	Total Length (m)	2,390	450	685
3.	Depth Dredged (m)	10.5 - 14.5	13	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.	Ligherage & Dhow Wharves No.	1	0	1
8.	Ligherage & Dhow Wharves Length	185	0	12.3
9.	Paved Open Storage (m <sup>2</sup> )	279,613	4,300	124,100
10.	Transit Depots	-	-	-
	Ubungo (m <sup>2</sup> )	29,745	0	0
	Kurasini (m <sup>2</sup> )	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 5.3.1: Cargo Handling Equipment and Marine Crafts

S/N	FACILITIES	DAR ES SALAAM		TANGA	MTWARA
		G/Cargo	TICTS		
<b>1.</b>	<b>CARGO HANDLING EQUIPMENTS CRANES</b>				
	Mobile Harbour Cranes	11	0	4	3
	All Terrain Mobile Cranes	4	0	3	2
	Ship to shore Gantry Cranes	0	6	0	0
	Rubber Tire Gantry Crane	2	19	0	0
	Rail Mounted Gantry Cranes	0	0	0	0
	Floating Cranes	0	0	0	0
<b>2.</b>	<b>OPERATIONAL EQUIPMENTS</b>				
	Tractors	3	35	5	14
	Trailers	76	37	23	20
	Forklifts (3–5 Ton)	76	14	1	8
	Forklifts (8-42 Ton)	21	1	2	5
	Cranes Crawlers	0	0	0	2
	Reach Stacker	25	5	3	3
	Conveyors (loading, chain & Bert)	6	0	0	0
	Empty Handler	6	4	0	4
	Grabs	15	0	7	7
	Spreader	22	0	15	12
	Weighbridge	8	0	3	4
	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
	Wheel Loader	1	0	2	2
<b>3.</b>	<b>MARINE CRAFTS</b>				
	Berthing tugs	6	0	1	1
	Cargo Lighters	12	0	0	0
	Pontoons	1	0	5	0
	Labor launches	0	0	1	0
	Pilot Boats/Fibre	8	0	0	0
	Patrol Boats	2	0	1	3
	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 boarder of fairways as well as to show conditions significant to safe navigation of vessels and marine crafts as shown in Table 5.4.

Table 5.4.1: Navigational Aids and Light

S/N	STATION	NAVIGATION AID TYPE	TOTAL IN NOs	RANGE (NM)	SOURCE OF LIGHTS	ABOVE HIGH WATER (MTRS)
1.	DSM PORT	STEEL BUOYS				
		Red (p s)	11	5.5 - 7	Solar	-
		Green (s.s)	6	5.5 - 7	Solar	-
		Beacons	8	5.5 - 7	Solar	-
		Leading mark/ LM	13	10 - 18	Solar	-
		Light House (Makatumba)	2	15 - 26	Solar	29
2.	MAFIA CHANNEL	STEEL BUOYS	4	3	Solar	-
		Light House Ras Mkumbi	2	15-26	Solar	31
3.	TANGA PORT	STEEL BUOYS				
		Red (ps)	2	3	Solar	-
		Green (s.s)	2	5.5 - 7	Solar	-
		PLASTIC BUOYS				
		Red (ps)	7	3	Solar	-
		Green (s.s)	8	3	Solar	26
		Beacons	6	5.5 - 6.1	Solar	-
		Leading mark/LM	7	7 – 12.6	„	-
		Light house	2	12 – 14.5	Solar	-
		Cardinal Buoy	2	3	Solar	-
4.	MTWARA PORT	STEEL BUOYS				
		Red (ps)	3	5.5 - 7	Solar	-
		Green (s.s)	3	5.5 - 6.1	Solar	-
		GRP Red	1	4	Solar	-
		Leading mark/LM	4	7 - 12.6	Solar	16
		Light House	1	18 - 14	Solar	-
5.	LINDI PORT	STEEL BUOYS	-		-	-
		Red (ps)	1	3	Solar	-
		Green (s.s)	2	3	Solar	-
		Beacons	-	-	-	-
		Leading mark/LM	2	-	Solar	-
		Light House	1	-	Solar	10
6.	KILWA	STEEL BUOYS	3	4	Solar	-
		Leading mark/LM	4	7-12.6	Solar	-
7.	MWANZA NORTH	STEEL BEACONS	6	2 - 4	Solar	-
8.	MWANZA SOUTH	STEEL BEACONS	1	2	Solar	-
		STEEL BEACONS	1	2	Solar	-
		GRP Beacon	2	2 - 4	Solar	-
9.	MWALONI JETTIES	STEEL BEACONS	8	2 – 4	Solar	6
10.	BUSISI FERRY	STEEL BUOYS	1	2	Solar	-
		STEEL BEACONS	4	2	Solar	6
11.	BUKوبا	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
12.	MUSOMA	STEEL BEACONS	4	2 - 8	Solar	9.9

S/N	STATION	NAVIGATION AID TYPE	TOTAL IN NOs	RANGE (NM)	SOURCE OF LIGHTS	ABOVE HIGH WATER (MTRS)
13.	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 5.5.1.1: Total Imports and Exports handled at Main Ports (Tones)

S/N	TYPE	2016	2017	2018	2019	2020	2021
1.	Imports	12,119,017	12,317,877	13,297,501	13,675,355	13,392,482	14,488,642
2.	Exports	2,488,376	2,692,203	2,937,211	3,097,687	3,110,625	3,299,461
<b>TOTAL</b>		<b>14,607,393</b>	<b>15,010,080</b>	<b>16,234,712</b>	<b>16,773,042</b>	<b>16,505,127</b>	<b>17,788,103</b>

Source: TPA

### 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 5.5.2.1: Imports and Exports at each Main Port

S/N	PORT	DESCRIPTION	2017	2018	2019	2020	2021
1.	DAR ES SALAAM	Imports	11,460,984	12,682,586	13,138,769	12,983,540	13,920,176
		Exports	2,044,935	2,451,775	2,797,795	2,854,493	3,010,352
		Transshipment	255,618	266,915	86,388	40,851	4,486
		<b>Sub Total</b>	<b>13,761,537</b>	<b>15,401,276</b>	<b>16,022,952</b>	<b>15,878,884</b>	<b>16,935,014</b>
2.	TANGA	Imports	509,897	612,440	469,463	385,090	600,887
		Exports	79,606	76,401	110,368	90,578	98,394
		<b>Sub Total</b>	<b>589,503</b>	<b>688,841</b>	<b>579,831</b>	<b>475,668</b>	<b>699,281</b>
3.	MTWARA	Imports	91,378	2,475	67,123	23,852	<b>71,009</b>
		Exports	286,212	142,120	189,525	165,554	<b>158,162</b>
		<b>Sub Total</b>	<b>377,590</b>	<b>144,595</b>	<b>256,648</b>	<b>189,406</b>	<b>229,171</b>
	TOTAL	Import	12,062,259	13,297,501	13,675,355	13,392,482	<b>14,596,558</b>
		Export	2,410,753	2,670,296	3,097,687	3,110,625	<b>3,266,908</b>
		Transshipment	255,618	266,915	86,388	40,851	4,486
<b>GRAND TOTAL</b>			<b>14,728,630</b>	<b>16,234,712</b>	<b>16,859,430</b>	<b>16,543,958</b>	<b>17,863,466</b>

Source: TPA

### 5.5.3 Categories of Cargo handled at Dar es Salaam Port

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 5.5.3.1: **Categories of Cargo handled at Dar es Salaam Port**

Deep Sea	2016	2017	2018	2019	2020	2021
<b>Imports</b>						
Dry Bulk	1,590.20	1,838.50	1,971.62	1,855.20	2,459.71	1,968.222
Break Bulk	4,330.31	4,435.22	5,104.66	5,417.98	5,184.98	6,095.418
Liquid Bulk	5,173.19	5,084.58	5,483.27	5,715.07	5,202.91	5,703.202
<b>Transshipment In</b>	289.17	255.62	266.92	86.39	19.84	4.486
Coastal Cargo	166.85	102.69	123.04	150.52	135.94	153.334
<b>Sub-Total</b>	<b>11,549.72</b>	<b>11,716.60</b>	<b>12,949.50</b>	<b>13,225,157</b>	<b>13,003.38</b>	<b>13,924.662</b>
<b>Exports</b>						
Break Bulk	1,824.73	1,757.39	2,065.51	2,372.98	2,483.39	2,631.405
Liquid Bulk	115.67	59.12	99.07	100.75	80.79	68.789
Coastal Cargo	90.22	228.43	287.19	324.06	290.31	310.159
<b>Sub-Total</b>	<b>2,031.23</b>	<b>2,044.94</b>	<b>2,451.78</b>	<b>2,797.80</b>	<b>2,854.49</b>	<b>3,010.353</b>
<b>Transshipment Out</b>	<b>276.67</b>	<b>265.73</b>	<b>261.36</b>	<b>94.98</b>	<b>21.01</b>	<b>2.392</b>
<b>Restow</b>	<b>24.75</b>	<b>15.72</b>	<b>31.16</b>	<b>20.49</b>	<b>26.57</b>	<b>88.045</b>
<b>TOTAL</b>	<b>13,882.37</b>	<b>14,042.99</b>	<b>15,693.79</b>	<b>16,138.42</b>	<b>15,905.45</b>	<b>17,025.452</b>

Source: TPA

### 5.5.4 Transit Traffic

The Dar es Salaam Port 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)** is as shown in Table 5.5.4.

Table 5.5.4.1: **Transit Traffic**

TYPE	2015	2016	2017	2018	2019	2020	2021
Imports	4,436	3,903	4,644	4,191	4,916	4,442	5,313
Exports	818	677	654	921	1,030	908	1,069
<b>TOTAL</b>	<b>5,254</b>	<b>4,580</b>	<b>5,298</b>	<b>5,112</b>	<b>5,947</b>	<b>5,350</b>	<b>6,382</b>

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 5.5.5.1: Cargo handled at Ports by Country (000'Tons)**

S/N	COUNTRY	DESCRIPTION	2017	%	2018	%	2019	%	2020	%	2021	%
1	Tanzania	Imports	6,704	58	8,492	66	8,070	61	8,404	65	8,612	62
		Exports	1,103	51	1,391	42	1,342	41	1,533	49	1,941	64
2	Zambia	Imports	1,794	16	1,168	9	1,458	11	929	7	1,195	9
		Exports	227	11	336	10	305	9	230	7	313	10
3	D.R Congo	Imports	785	7	1,240	10	1,249	10	1,210	9	1,672	12
		Exports	391	18	540	16	665	20	631	20	686	23
4	Burundi	Imports	404	4	367	3	431	3	464	4	495	4
		Exports	12	1	13	0	23	1	12	0	12	0
5	Rwanda	Imports	1,040	9	882	7	1,201	9	1,204	9	1,328	10
		Exports	21	1	30	1	38	1	35	1	38	1
6	Malawi	Imports	276	2	311	2	336	3	407	3	453	3
		Exports	104	5	481	14	364	11	256	8	18	1
7	Uganda	Imports	270	2	188	1	141	1	154	1	138	1
		Exports	2	0	158	5	83	3	30	1	1	0
8	Other	Imports	188	2	220	2	252	2	209	2	32	0
		Exports	288	13	387	12	425	13	415	13	2	0
<b>Total Imports</b>			<b>11,461</b>	<b>100</b>	<b>12,868</b>	<b>100</b>	<b>13,138</b>	<b>100</b>	<b>12,981</b>	<b>100</b>	<b>13,925</b>	<b>100</b>
<b>Total Exports</b>			<b>2,148</b>	<b>100</b>	<b>3,336</b>	<b>100</b>	<b>3,245</b>	<b>100</b>	<b>3,142</b>	<b>100</b>	<b>3,010</b>	<b>100</b>
<b>GRAND TOTAL</b>			<b>13,609</b>	<b>100</b>	<b>16,204</b>	<b>100</b>	<b>16,383</b>	<b>100</b>	<b>16,123</b>	<b>100</b>	<b>16,935</b>	<b>100</b>

Source: TPA

## 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 5.6.1.1: Principal commodities exports handled at DSM Port (Tons)**

S/N	CATEGORY	COMMODITY	2017	2018	2019	2020	2021
1.	Bulk Liquid	Bulk Oil (Incl bunkers)	59,118	99,069	100,748	80,790	68,789
		<b>Sub-Total</b>	<b>59,118</b>	<b>99,069</b>	<b>100,748</b>	<b>80,790</b>	<b>68,789</b>
2.	General Cargo	Copper (Zambia)	24,690	112,000	197,621	0	48,675
		Motor Vehicle	1,088	2,112	3,701	501	246,494
		Containerised Cargo	1,391,254	1,895,034	1,903,904	1,151,504	2,581,873
		<b>Sub-Total</b>	<b>1,417,032</b>	<b>2,009,146</b>	<b>2,105,226</b>	<b>1,152,005</b>	<b>2,877,042</b>
<b>TOTAL EXPORTS</b>			<b>1,476,150</b>	<b>2,108,215</b>	<b>2,205,974</b>	<b>1,232,795</b>	<b>2,945,831</b>

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 5.6.2.1: Principal Export of Commodities Handled at Tanga Port (Tons)**

S/N	COMMODITY	2015	2016	2017	2018	2019	2020	2021
1.	Beans	1,728	1,332	153	288	828	52	0
2.	Coffee	3,204	4,502	1,369	1,692	3,060	1,406	1,332
3.	Sisal Ropes and twines	35,943	40,119	13,789	14,580	22,752	8,439	24,336
4.	Cement in Bags	0	0	5,825	4,880	0	0	2,280
5.	Timber, flooring bloc	30,357	20,683	22,425	7,442	22,026	8,875	12,204
6.	Other General Cargo	31,359	28,106	36,045	47,520	61,702	68,713	122,541
<b>TOTAL EXPORTS</b>		<b>102,591</b>	<b>94,742</b>	<b>79,606</b>	<b>76,402</b>	<b>110,368</b>	<b>87,485</b>	<b>162,693</b>

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 5.6.3.1: Principal Commodities for Export Handled at Mtwara Port (Tons)**

S/N	COMMODITY	2016	2017	2018	2019	2020	2021
1.	Cashew nuts Raw	182,504	215,852	0	129,533	109,344	34,997
2.	Cement	0	0	75,769	33,354	23,248	88,151
3	Coal	0	0	0	0	0	32,448
4.	Other General Cargo	35,321	70,360	59,868	26,638	32,962	2,421
<b>TOTAL EXPORTS</b>		<b>217,825</b>	<b>286,212</b>	<b>135,637</b>	<b>189,525</b>	<b>165,554</b>	<b>158,017</b>

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 5.7.1.1: Principal Import of Commodities Handled at Dar es Salaam Port (Tons)**

S/N	CATEGORY	COMMODITY	2017	2018	2019	2020	2021
1.	Dry Bulk Cargo	Wheat	1,366,638	1,181,812	1,071,578	978,385	970,472
		Clinkers	55,518	209,084	296,701	507,410	340,007
		Maize	122,627	-	59,560	0	0
		Copper Slags	-	-	32,596	27,830	30,056
		Fertilizer	418,567	472,740	312,752	803,915	383,467
		Gypsum	-	-	-	0	0
		Salt	-	-	82,014	131,652	103,700
		<b>Sub-Total</b>	<b>1,963,350</b>	<b>1,863,636</b>	<b>1,855,201</b>	<b>2,449,192</b>	<b>1,827,702</b>
2.	Liquid Bulk	Petroleum Oil	4,740,207	5,483,270	5,715,071	4,953,200	5,466,987
		Other Liquid	344,370	314,507	259,233	249,713	236,215
		<b>Sub-Total</b>	<b>5,084,577</b>	<b>5,483,270</b>	<b>5,715,071</b>	<b>5,202,913</b>	<b>5,703,202</b>
3.	Bagged Cargo	Cement	-	6,545	-	0	0
		Fertilizer	4,717	38,364	38,470	36,125	50,596
		Rice	-	12,846	-	0	3,791
		Beans	-	-	-	0	0
		<b>Sub-Total</b>	<b>4,717</b>	<b>57,755</b>	<b>38,470</b>	<b>36,125</b>	<b>54,387</b>
4.	General Cargo	Motor Vehicles Tractors & Trailers	250,904	30,651	380,537	4,016	1,873
		Iron, Steel, Material	327,059	444,824	539,828	508,539	709,630
		Motor Vehicles spares parts	4,567	402,142	3,418	322,751	456,848

S/N	CATEGORY	COMMODITY	2017	2018	2019	2020	2021
		Machinery and spares	220	315	1,821	290	1,970
		Pipes and fitting	24,604	69,318	42,445	3,146	14,682
		Other General Cargo	221,585	154,077	48,074	5,822	145,650
		<b>Sub- Total</b>	<b>828,939</b>	<b>1,101,327</b>	<b>1,016,123</b>	<b>844,564</b>	<b>1,330,653</b>
<b>TOTAL IMPORTS</b>			<b>7,881,583</b>	<b>8,505,988</b>	<b>8,624,865</b>	<b>8,532,794</b>	<b>8,915,944</b>

Source: TPA

### 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 5.7.2.1: Principal Commodities Imports Handled at Tanga Port (Tons)

S/N	CATEGORY	COMMODITY	2017	2018	2019	2020	2021
1.	BULK CARGO	Bulk oil	294,889	319,425	302,671	202,459	429,334
		<b>Sub- Total</b>	<b>294,889</b>	<b>319,425</b>	<b>302,671</b>	<b>202,459</b>	<b>429,334</b>
2.	GENERAL CARGO	Clinker	-	-	-	55,000	49,500
		Wheat	7,000	-	-	0	0
		Raw Material	4,103	-	-	0	0
		Petroleum Coke	-	102,097	78,964	55,000	53,000
		Raw glythelenepol yfo	19,900	42,816	15,594	20,069	45,468
		Machinery and Parts	492	78,473	1,116	273	8,369
		Fertilizer in Bags	-	-	-	0	-
		Essential Oils	1,000	468	3,294	18,519	20,088
		Motor vehicles, Tractors & Trailers	43	-	-	0	36
		Miscellaneous Cargo	193,160	92,545	43,896	20,520	59,429
		<b>Sub- Total</b>	<b>215,008</b>	<b>293,015</b>	<b>166,792</b>	<b>169,381</b>	<b>235,890</b>
<b>TOTAL IMPORTS</b>			<b>509,897</b>	<b>612,440</b>	<b>469,463</b>	<b>316,840</b>	<b>665,224</b>

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 5.7.3.1: Principal Commodities Imports Handled at Mtwara Port (Tons)**

S/N	CATEGORY	COMMODITY	2016	2017	2018	2019	2020	2021
1.	Liquid Bulk	Bulk Oil	10,150	-	72,916	40,703	23,118	61,474
		<b>Sub-Total</b>	<b>10,150</b>	<b>-</b>	<b>72,916</b>	<b>40,703</b>	<b>23,118</b>	<b>61,474</b>
2.	Break Bulk	Cement	-	-	-	-	0	0
		Machinery parts	10,587	-	-	22,037	0	0
		Empty container	27,399	33,442	13,299	1,870	0	0
		Cement	-	-	-	-	0	
		Other General Cargo	109,422	57,936	5,251	2,513	734	9,583
		<b>Sub-Total</b>	<b>147,408</b>	<b>91,378</b>	<b>18,550</b>	<b>26,420</b>	<b>734</b>	<b>9,583</b>
<b>TOTAL IMPORTS</b>			<b>157,558</b>	<b>91,378</b>	<b>91,466</b>	<b>67,123</b>	<b>23,852</b>	<b>71,057</b>

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 is as shown in Table 5.8.

**Table 5.8.1: Container Traffic Handled at Dar es Salaam Port**

S/N	DESTINATION COUNTRY	2018		2019		2020		2021	
		BOXES	TONAGE	BOXES	TONAGE	BOXES	TONAGE	BOXES	TONAGE
1.	Tanzania	132,422	2,290,963	146,186	2,548,001	24,319	516,031	139,783	2,477,987
2.	Zambia	22,737	402,932	18,648	331,966	1,662	33,968	22,678	404,638
3.	D R Congo	38,174	649,040	36,410	629,437	3,592	79,025	41,668	720,238
4.	Burundi	8,707	152,573	9,770	172,841	1,791	37,349	10,759	191,960
5.	Rwanda	27,080	471,651	35,191	618,635	6,881	157,564	38,372	668,645
6.	Malawi	2,533	44,936	2,158	38,684	175	3,033	4,736	88,467
7.	Uganda	1,966	33,627	798	14,535	185	3,033	404	6,247
8.	Others	244	4,280	121	2,291	28	696	35	659
9.	T/shipment	17,012	267,333	5,249	86,329	348	5,455	257	4,486
10.	Empties	2,851	6,879	3,069	6,983	362	314,702	5,310	12,601
	<b>Sub-total</b>	<b>253,726</b>	<b>4,324,214</b>	<b>257,600</b>	<b>4,449,702</b>	<b>39,343</b>	<b>837,002</b>	<b>264,002</b>	<b>4,595,930</b>
11.	Tanzania	42,174	734,058	53,146	920,565	4,946	112,218	64,705	1,137,509
12.	Zambia	20,227	336,308	16,189	304,631	1,333	36,906	19,136	312,596
13.	D R Congo	31,599	539,837	38,461	664,680	3,790	102,301	37,272	653,608

14.	Burundi	822	13,189	1,281	22,737	158	3,459	659	11,919
15.	Rwanda	1,776	29,921	2,192	37,900	230	4,678	2,157	38,426
16.	Malawi	27	481	21	364	0	0	1,076	18,445
17.	Uganda	9	158	7	83	1	12	39	602
18.	Others	20	348	3	52	0	0	1	15
19.	Empties	128,955	408,928	131,632	422,716	34,809	132,019	125,222	408,752
	<b>Sub-total</b>	<b>225,609</b>	<b>2,063,228</b>	<b>242,932</b>	<b>2,373,728</b>	<b>45,268</b>	<b>391,591</b>	<b>250,267</b>	<b>2,581,873</b>
	<b>GRAND TOTAL</b>	<b>434,616</b>	<b>5,739,757</b>	<b>479,335</b>	<b>6,387,442</b>	<b>500,532</b>	<b>6,823,430</b>	<b>514,269</b>	<b>7,177,803</b>

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 CATEGORY	DESCRIPTION	DAR ES SALAAM				TANGA				MTWARA			
			2018	2019	2020	2021	2018	2019	2020	2021	2018	2019	2020	2021
1.	DRY CARGO	Number of calls	856	718	657	685	25	25	29	30	50	12	16	21
		Average Stay in Port (Day/Ship)	3.4	3.5	2.3	2.7	3.7	4.1	2.8	4.1	2.1	5	2.4	2.3
2.	TANKERS	Number of calls	141	139	117	119	24	22	23	49	0	6	8	14
		Average Stay in Port (Day/Ship)	6.5	5.8	4.8	6.4	2.5	5.4	5.6	3.6	0	2	3	3.0

Source: TPA

Table 5.9.2: Coastal Ship Calls at Major Ports

S/N	SHIP CATEGORY	DESCRIPTION	DAR ES SALAAM			TANGA			MTWARA		
			2019	2020	2021	2019	2020	2021	2019	2020	2021
1.	DRY CARGO	Number of calls	520	550	670	70	7	7	115	50	82
		Average Stay in Port (Day/Ship)	2.1	2.2	3.9	1.7	0.5	3.0	1.7	1.6	1.6
2.	TANKERS	Number of calls	61	67	74	0	23	0	0	0	0
		Average Stay in Port (Day/Ship)	2.6	2.7	6.4	0	1.4	0	0	0	0
3.	MISC. VESSELS	Passenger Boats & Ferries	1,826	2,440	2,916	2	47	0	10	0	0
		Dhow and Schooner	925	650	927	741	809	0	0	0	0

Source: TPA

## 5.10 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 5.10.1: Imports Clearance by Mode of Transport at Dar es Salaam Port (DWT)*

S/N	MODE OF TRANSPORT	2016	2017	2018	2019	2020	2021
1.	ROAD	6,326,921	5,998,611	6,935,170	6,950,130	5,522,485	5,452,341
2.	TRC (Railway)	5,426	19,631	23,203	119,245	15,968	474
3.	TAZARA (Railway)	11,656	51,470	86,134	44,643	33,907	35,470
<b>TOTAL</b>		<b>6,344,003</b>	<b>6,069,712</b>	<b>7,044,507</b>	<b>7,114,018</b>	<b>5,572,183</b>	<b>5,488,285</b>

*Source: TPA*

## CHAPTER SIX: 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 6:1.1: 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
		MV Umoja (rail wagons carrier)	1964	N/A	1,200
2.	ON LAKE TANGANYIKA	MV Liemba	1913	600	200
		MV Mwongozo	1980	800	80
		MT Sangara (tanker)	1981	N/A	350
		Sea Worrior (for tourism)	1990	N/A	15
3.	ON LAKE NYASA	MV Iringa	1974	139	5
		MV Songea	1974	212	44

## 6.2 Passengers Transportation inland waters

Table 6.2.1: Number of Passengers Transported by MSCL at Main Lake Ports

S/N	PORT	2015	2016	2017	2018	2019	2020	2021
1.	Mwanza	31,000	27,342	11,926	40,198	41,937	36,391	97,526
2.	Bukoba	30,442	21,154	0	0	0	29,595	71,525
3.	Musoma	-	-	0	0	0	0	0
4.	Kigoma	7,132	7,032	19,340	5,597	0	0	0
5.	Itungi Port	10,684	8,594	184	0	0	0	0
6.	Kemondo Bay	-	-	0	0	0	4,143	20,615
7.	Mbamba Bay	8,000	6,517	641	0	0	0	0
8.	Nansio	120,437	94,514	17,985	66,427	54,955	106,676	114,772
	<b>TOTAL</b>	<b>207,695</b>	<b>165,153</b>	<b>50,076</b>	<b>112,222</b>	<b>96,892</b>	<b>176,805</b>	<b>304,438</b>

Source: MSCL

## 6.3 Freight Transportation in land Waters

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

S/N	FREIGHT	2015	2016	2017	2018	2019	2020	2021
1.	Beans	0	0	0	0	0	1,890	370
2.	General Goods	10,015	5,307	0	0	0	5,109	12,709
3.	Empty Bottles	0	0	0	0	0	0	0
4.	Vehicles	0	0	0	0	0	76	1,029
5.	Coffee	0	0	0	0	0	0	0
	<b>TOTAL</b>	<b>10,015</b>	<b>5,307</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7,075</b>	<b>14,108</b>

Source: MSCL

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

S/N	FREIGHT	2015	2016	2017	2018	2019	2020	2021
1.	Cement	0	0	0	0	0	0	0
2.	Wheat Flour	0	0	0	0	0	0	0
3.	Cooking Oil	0	0	0	0	0	0	0
4.	Rice	0	0	0	0	0	0	0
5.	Sugar	0	0	0	0	0	0	0
6.	Salt	0	0	0	0	0	0	0
7.	General Goods	8,000	7,400	520	802	930	3,850	11,915
8.	Soft Drinks	0	0	0	0	0	0	0
9.	Beer	0	0	0	0	0	0	0
	<b>TOTAL</b>	<b>8,000</b>	<b>7,400</b>	<b>520</b>	<b>802</b>	<b>930</b>	<b>3,850</b>	<b>11,915</b>

Source: MSCL

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

S/N	FREIGHT	2015	2016	2017	2018	2019	2020	2021
1.	Cement	0	0	1,200	0	0	0	0
2.	Soft Drinks	0	0	0	0	0	0	0
3.	General Goods	14,255	11,345	5,724	18,432	30,631	11,607	830
4.	Beer	0	0	0	0	0	0	0
	<b>TOTAL</b>	<b>14,255</b>	<b>11,345</b>	<b>6,924</b>	<b>18,432</b>	<b>30,631</b>	<b>11,607</b>	<b>830</b>

*Source: MSCL*

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

S/N	FREIGHT	2015	2016	2017	2018	2019	2020	2021
1.	Kemono Bay (Coffee)	0	0	0	0	0	0	0
2.	Kigoma (General Goods)	1,400	1,215	4,242	5,639	2,405	1,167	0
	<b>TOTAL</b>	<b>1,400</b>	<b>1,215</b>	<b>4,242</b>	<b>5,639</b>	<b>2,405</b>	<b>1,167</b>	<b>0</b>

*Source: MSCL*

#### **6.4 Vessels Stay at Ports**

**Table 6.4.1: Number of average stay of vessels at Port**

S/N	NAME OF PORT	VESSEL	AVERAGE STAY (DAYS)						
			2015	2016	2017	2018	2019	2020	2021
1.	MWANZA PORT	MV Victoria	-	-	365	365	-	228	18
		MV Serengeti	44	70	365	365	-	0	0
		MV Butiama	-	-	-	-	-	228	20
2.	BUKOBA PORT	MV Victoria	-	-	-	-	-	0	0
		MV Serengeti	44	70	-	-	-	0	0
3.	KIGOMA PORT	MV Mwongozo	-	-	365	365	365	365	365
		MV Liemba	335	55	310	362	365	365	365
4.	ITUNGI PORT	MV Songea	335	220	349	365	365	365	365
		MV Iringa	-	-	365	365	365	365	365

*Source: MSCL*

## 6.5 Number of Vessel Calls at Main Ports

Table 6.5.1: Number of Vessel Calls at Main Ports

S/N	NAME OF PORT	VESSEL	2014	2015	2016	2017	2018	2019	2020	2021
1.	MWANZA PORT	MV Victoria	156	0	0	0	0	0	118	294
		MV Serengeti	0	19	8	0	0	0	0	0
		MV Butiama	0	0	0	0	0	0	137	343
		MV Clarias	337	315	270	117	341	365	304	0
2.	MWANZA SOUTH PORT	MV Umoja	9	7	5	7	18	32	9	0
		MV Serengeti	7	0	8	0	0	0	0	0
		MT Nyangumi	0	0	0	0	0	0	0	0
		MT Maindi	0	0	0	0	0	0	0	0
		MT Ukerewe	0	0	0	0	0	0	0	0
3.	BUKOBA PIER	MV Victoria	156	0	0	0	0	0	118	294
		MV Serengeti	0	19	8	0	0	0	0	0
		MV Umoja	0	0	0	0	0	0	0	0
		MT Nyangumi	0	0	0	0	0	0	0	0
		MT Maindi	0	0	0	0	0	0	0	0
		MT Ukerewe	0	0	0	0	0	0	0	0
4.	KIGOMA PORT	MV Liemba	26	7	7	11	3	0	0	0
		MV wongozo	0	0	0	0	0	0	0	0
		MT Sangara	2	3	1	7	4	6	0	0
5.	ITUNGI PORT	MV Songea	26	34	30	4	0	0	0	0
		MV Iringa	-	0	0	0	0	0	0	0

Source: MSCL

## CHAPTER SEVEN: 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 7.1.1.

*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	Tarmac
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
36.	Maswa	General Aviation	Grass

S/No.	Airport Name	Airport Code	Remarks
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)				
		2017	2018	2019	2020	2021	2017	2018	2019	2020	2021
1.	Julius Nyerere International Airport	868	1,191	1,176	404	604	1,061	1,098	1,145	699	811
2.	Kilimanjaro International Airport	236	455	475	131	150	255	261	302	175	224
3.	Abeid Aman Karume International Airport	390	774	922	405	732	447	467	497	251	381
4.	Arusha	149	-	-	-	0	186	223	229	84	132
5.	Bukoba	30	-	-	-	0	45	52	53	40	47
6.	Dodoma	7	-	-	-	0	29	46	94	86	116
7.	Kigoma	22	-	-	-	0	25	28	31	26	30
8.	Moshi	1	-	-	-	0	1	2	1	0	0

S/N	AIRPORT	INTERNATIONAL (000)					DOMESTIC (000)				
		2017	2018	2019	2020	2021	2017	2018	2019	2020	2021
9.	Mtwara	56	-	-	-	0	21	20	18	12	12
10.	Mwanza	364	-	17	3	2	352	346	296	217	276
11.	Shinyanga	4	-	-	-	0	-	-	-	0	0
12.	Tabora	4	-	-	-	0	10	12	14	10	10
13.	Other	165	3	3	-	0	320	319	270	231	235
	<b>Total</b>	<b>2,296</b>	<b>2,423</b>	<b>2,593</b>	<b>943</b>	<b>1,448</b>	<b>2,752</b>	<b>2,874</b>	<b>2,950</b>	<b>1831</b>	<b>2,344</b>

Source: TCAA

Table 7.2.2: Incoming International Air Passengers at Julius Nyerere International Airport (JNIA)

S/N	MONTH	2015	2016	2017	2018	2019	2020	2021
1.	January	50,007	49,722	49,220	49,553	46,924	42,428	18,510
2.	February	42,667	44,510	40,755	40,392	39,986	38,048	13,471
3.	March	46,192	48,405	44,256	45,256	43,005	22,539	14,642
4.	April	46,862	45,503	44,178	42,451	42,311	168	15,209
5.	May	44,322	47,679	45,334	45,986	39,942	778	16,766
6.	June	55,791	50,531	46,993	48,789	47,024	2,689	22,018
7.	July	61,125	65,538	63,689	60,267	59,572	8,299	27,972
8.	August	63,520	59,009	54,588	56,403	53,859	10,958	29,870
9.	September	49,933	54,245	47,439	49,056	46,642	11,270	23,944
10.	October	51,116	60,192	49,913	46,384	44,998	15,231	28,998
11.	November	50,232	45,178	45,120	45,583	43,936	17,013	31,590
12.	December	55,685	55,442	51,596	53,326	52,650	23,556	41,720
	<b>TOTAL</b>	<b>617,452</b>	<b>625,954</b>	<b>583,081</b>	<b>583,446</b>	<b>560,849</b>	<b>19,677</b>	<b>284,710</b>
	<b>% Increase or decrease</b>	<b>7.26%</b>	<b>1.36%</b>	<b>-7.35%</b>	<b>0.06%</b>	<b>-4.03%</b>	<b>63.05%</b>	<b>47.5%</b>

Source: TCAA

**Table 7.2.3: Incoming International Air Passengers at Kilimanjaro International Airport (KIA)**

S/N	Month	2014	2015	2016	2017	2018	2019	2020	2021
1.	Jan	18,461	16,350	17,542	17,728	19,600	21,830	23,116	8,534
2.	Feb	21,169	17,737	18,848	19,065	23,028	24,902	26,638	6,479
3.	Mar	12,486	12,358	12,945	13,080	17,949	14,322	7,925	5,722
4.	Apr	10,088	8,372	9,926	10,817	11,050	11,744	0	6,630
5.	May	12,393	11,491	11,999	12,345	14,404	13,957	1	7,447
6.	Jun	18,635	16,818	17,520	20,783	24,129	26,361	191	8,094
7.	Jul	26,106	23,025	27,414	27,787	34,058	39,216	900	9,431
8.	Aug	24,427	21,151	24,467	27,241	33,663	34,981	2,401	8,953
9.	Sep	19,068	18,509	20,245	22,121	27,855	28,449	2,745	8,326
10.	Oct	19,280	16,873	22,652	23,278	27,019	27,171	3,567	9,920
11.	Nov	12,990	3,726	14,349	15,610	16,728	18,511	3,246	9,161
12.	Dec	16,179	16,703	16,595	19,675	20,697	22,557	5,330	13,212
	<b>TOTAL</b>	<b>211,282</b>	<b>193,113</b>	<b>214,502</b>	<b>229,530</b>	<b>270,180</b>	<b>284,001</b>	<b>76,060</b>	<b>101,909</b>

Source: TCAA

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

S/N	MONTH	2015	2016	2017	2018	2019	2020	2021
1.	January	17,594	21,764	30,999	39,140	39,398	46,405	53,112
2.	February	18,180	23,137	27,490	36,888	39,328	47,188	48,618
3.	March	15,141	22,271	24,602	32,432	28,936	17,101	42,072
4.	April	9,190	12,800	16,632	15,554	15,789	39	13,604
5.	May	7,655	10,170	12,079	14,979	12,770	0	8,860
6.	June	10,353	10,288	17,053	22,962	25,670	144	16,690
7.	July	15,202	19,907	24,879	30,727	33,292	1,287	26,310
8.	August	18,993	22,183	28,613	35,648	39,024	2,849	25,649
9.	September	17,791	20,640	25,262	30,968	30,714	2,736	20,633
10.	October	16,633	24,936	27,577	30,975	35,555	7,699	26,908
11.	November	18,302	24,018	27,509	30,485	36,851	25,010	29,317
12.	December	25,811	30,733	36,840	38,963	46,789	44,526	40,501
	<b>TOTAL</b>	<b>190,845</b>	<b>242,847</b>	<b>299,535</b>	<b>359,721</b>	<b>384,116</b>	<b>194,984</b>	<b>352,274</b>

Source: TCAA

**Table 7.2.5: Aircraft Movements at Selected Airports**

S/N	AIRPORT	2015	2016	2017	2018	2019	2020	2021
1.	JNIA	75,240	75,749	74,286	71,420	69,435	37,233	45,592
2.	AAKIA	51,731	55,904	57,551	57,493	44,669	30,630	4,294
3.	KIA	19,758	20,750	21,706	25,271	25,522	11,498	5,106
4.	ARUSHA	20,810	21,564	23,392	27,048	25,858	9,790	14,22
5.	MWANZA	13,404	13,355	13,095	11,788	9,894	7,783	9,181
6.	DODOMA	2,931	2,682	4,004	4,519	4,238	3,478	4,500
7.	KIGOMA	1,725	1,539	1,192	1,209	1,375	792	930
8.	TABORA	1,592	1,733	1,572	1,687	1,829	973	972
9.	SONGWE	1,913	1,951	1,959	1,940	1,416	1,621	1,940
10.	IRINGA	1,484	1,778	1,808	1,733	1,718	881	876
11.	MTWARA	1,494	1,028	972	886	824	632	606
12.	TANGA	4,449	5,486	4,681	3,742	3,579	1,679	2,100
	<b>Total</b>	<b>196,531</b>	<b>203,519</b>	<b>206,218</b>	<b>208,736</b>	<b>190,357</b>	<b>106,990</b>	<b>37,429</b>

*Source: TCAA*

**Table 7.2.6: Major Airports Operation Statistics**

AIRPORT	OPERATION	2016	2017	2018	2019	2020	2021
JNIA	Aircraft Movements	75,749	74,286	71,420	69,435	37,233	45,592
	Passengers	2,469,356	2,385,456	2,417,090	2,321,510	1,103,012	1,484,456
	Freight(Tons)	16,788	16,483	15,617	11,695.38	15,908.39	21,333.85
	Mail (Tons)	610	548	546	400.53	217.06	306.98
MWANZA	Aircraft Movements	13,355	13,095	11,788	9,894	7,783	9,172
	Passengers	400,457	398,102	399,054	314,023	219,837	277,389
	Freight(Tons)	2,050	2,125	1,921	2,390	1,686	1,461.4
	Mail(Tons)	120	152	187	120	16	4
ARUSHA	Aircraft Movements	21,564	23,392	27,048	25,858	9,790	14,232
	Passengers	164,419	192,233	229,366	229,146	84,318	132,566
	Freight(Tons)	63	24	43	5.6	0	0
	Mail(Tons)	0	0	0	0.8	0	0
DODOMA	Aircraft Movements	2,682	4,004	4,519	4,238	3,478	4,367
	Passengers	10,790	28,919	46,407	93,985	85,745	116,736
	Freight(Tons)	0	6.9	156.2	612.7	554.8	870.9
	Mail(Tons)	0	0	0	0	0	0
SONGWE	Aircraft	1,951	1,959	1,940	1,416	1,623	1,938

	Movements						
	Passengers	117,163	118,749	114,810	78,486	60,991	78,941
	Freight(Tons)	572.3	649	747.5	727.9	540.3	713.7
	Mail(Tons)	0	0	0	0	8.9	0
BUKOBA	Aircraft Movements	2,711	2,302	1,569	1,570	1,304	1368
	Passengers	33,104	45,622	52,070	53,016	40,210	47,435
	Freight(Tons)	0	3.2	4.6	16.4	11.3	25.6
	Mail(Tons)	13.8	32.7	0	41.1	18.5	1.7
MTWARA	Aircraft Movements	1,028	972	886	824	634	606
	Passengers	22,681	24,462	20,710	18,418	12,202	12,714
	Freight(Tons)	8	6	22	3.1	0	105.3
	Mail(Tons)	10	29	19	0.8	1.00	0.8
KIGOMA	Aircraft Movements	1,539	1,192	1,209	1375	792	930
	Passengers	26,937	25,203	28,145	30,900	26,094	30,667
	Freight(Tons)	27.9	10.5	7.8	29.7	77.5	95.1
	Mail(Tons)	0.9	1.9	4.5	0.8	0	0

Source: TCAA

Table 7.2.7: Civilian Pilot Licenses and other Licenses

S/N	Description/Types of licenses	2015	2016	2017	2018	2019	2020	2021
1.	Conversion of PPL	39	42	44	61	148	0	2
2.	Conversion of CPL	448	504	551	623	547	23	33
3.	Conversion of ATPL	148	164	173	193	301	0	1
4.	Aircraft Maintenance Engineers	264	266	273	298	188	12	4
5.	Cabin Crew	542	614	704	805	833	26	103
	<b>Total</b>	<b>1,441</b>	<b>1,590</b>	<b>1,745</b>	<b>1,980</b>	<b>2,017</b>	<b>61</b>	<b>142</b>

Source: TCAA

**Table 7.2.8: Tanzania Licensed Commercial Air Services Operators**

S/N	Category of Operators	2014	2015	2016	2017	2018	2019	2020	2021
1.	Local Operators	80	53	30	21	47	37	30	48
2.	Foreign Operators	1	2	7	10	23	4	7	7
	<b>TOTAL</b>	<b>81</b>	<b>55</b>	<b>37</b>	<b>31</b>	<b>70</b>	<b>41</b>	<b>37</b>	<b>55</b>

**Source:** TCAA

**Table 7.2.9: Scheduled Foreign and Local Air Carriers Operating to Tanzania**

S/N	CARRIER	WEEKLY FREQUENCY			
		2018	2019	2020	2021
1.	Emirates	7	7	4	5
2.	Air Mozambique	3	3	4	2
3.	Kenya Airways (KQ )	36	35	18	17
4.	South African Airlines (SA)	14	10	0	0
5.	Swiss International Airline (LX )	7	5	0	0
6.	Royal Dutch Air (KL)	5	7	5	7
7.	Ethiopian Airlines (ET)	7	21	7	18
8.	Qatar Airways (QR)	16	7	14	13
9.	Egypt Air (MS)	7	3	2	3
10.	Rwanda AIR (WB)	2	14	5	5
11.	Oman Air (WY)	13	7	2	4
12.	Turkish Air (TK)	14	7	3	5
13.	Air Mauritius (MK)	7	1	0	0
14.	Air Zimbabwe (UM)	1	2	1	3
15.	Malawian Airlines (3W )	2	4	6	4
16.	Martine Air (Cargo)	3	1	1	0
17.	Fly Dubai (FZ)	1	7	9	7
18.	Precision Air (PW)	7	24	9	11
19.	AIR UGANDA (UR)	6	7	6	5
20.	Air Tanzania ltd (ATCL)	7	17	9	14
<b>TOTAL</b>		<b>165</b>	<b>189</b>	<b>105</b>	<b>123</b>

**Source:** TCAA

**Table 7.2.10: Air Transport Accidents and Incidence**

S/N	Particular	2015	2016	2017	2018	2019	2020	2021
1.	Number of Deaths	4	0	12	3	4	1	1
2.	Number of Injuries	4	0	12	3	1	0	1
3.	Number of Fatal Accidents	1	0	2	2	2	1	1
4.	Number of Minor Accidents	2	6	4	6	3	2	3
5.	Number of Incidence	10	3	5	3	10	3	5

**Source:** TCAA

### 7.3: AIR TANZANIA COMPANY LIMITED (ATCL)'S PERFORMANCE

Table 7.3.1: Total Passengers transported by ATCL

Months	Domestic Passengers						
	2015	2016	2017	2018	2019	2020	2021
January	2,167	5,243	12,494	19,049	43,995	65,770	50,701
February	2,050	4,331	9,942	17,646	44,992	62,291	41,324
March	2,398	3,176	12,097	21,058	53,338	47,77	45,578
April	2,608	2,995	11,046	18,867	57,121	16,285	48,771
May	3,329	1,023	16,752	20,518	53,621	11,367	48,577
June	3,848	489	17,199	22,249	60,504	23,092	56,388
July	3,243	*	20,131	22,118	72,739	28,991	55,396
August	4,297	672	19,554	47,277	60,427	33,299	52,696
September	6,007	356	19,249	35,731	60,299	35,936	57,445
October	6,362	4,564	21,073	33,209	61,702	39,958	63,015
November	6,366	7,176	21,019	33,677	65,290	47,215	69,668
December	5,641	14,868	22,718	46,887	67,044	60,417	83,752
Total	48,316	27,636	203,274	338,286	701,072	424,745	673,311

Source: ATCL

\*No operation

Table 7.3.2: Domestic Passengers transported by ATCL

S/N	MONTHS	YEAR						
		2015	2016	2017	2018	2019	2020	2021
1.	January	1,375	3,736	11,838	17,724	41,849	55,578	43,643
2.	February	1,233	3,328	9,285	16,535	42,212	53,083	34,702
3.	March	1,367	2,084	11,547	19,711	48,821	42,095	38,446
4.	April	1,393	2,027	10,472	17,510	51,028	16,285	42,033
5.	May	1,598	385	15,931	18,546	48,639	11,367	44,433
6.	June	1,657	146	16,561	20,821	55,582	23,092	52,233
7.	July	1,609	*	19,227	19,227	58,621	28,991	51,169
8.	August	2,438	237	17,944	46,019	54,792	33,299	47,895
9.	September	4,312	132	17,767	33,601	54,160	34,854	50,995
10.	October	4,848	4,023	19,363	31,029	51,304	38,128	54,830
11.	November	4,992	6,066	18,924	31,337	50,874	41,921	58,195
12.	December	4,209	13,960	21,277	44,522	60,749	53,022	70,025
	<b>TOTAL</b>	<b>31,031</b>	<b>36,124</b>	<b>190,136</b>	<b>316,582</b>	<b>618,631</b>	<b>431,715</b>	<b>588,599</b>

Source: ATCL

\*No operation

**Table 7.3.3: International Passengers transported by ATCL**

MONTHS	YEAR						
	2015	2016	2017	2018	2019	2020	2021
January	792	1,507	656	1,325	2,146	10,192	7,058
February	817	1,003	657	1,111	2,780	9,208	6,622
March	1,031	1,092	550	1,347	4,517	5,662	7,132
April	1,215	968	574	1,357	6,093	-	6,738
May	1,731	638	821	1,972	4,982	-	4,144
June	2,191	343	638	1,428	4,922	-	4,155
July	1,634	*	904	2,891	8,423	-	4,227
August	1,859	435	1,610	1,258	10,498	-	4,801
September	1,695	224	1,482	2,130	7,542	1,082	6,450
October	1,514	541	1,710	2,180	8,995	1,830	8,185
November	1,374	1,110	2,095	2,340	9,553	5,294	11,473
December	1,432	908	1,441	2,365	11,990	7,395	13,727
<b>TOTAL</b>	<b>17,285</b>	<b>8,769</b>	<b>13,138</b>	<b>21,704</b>	<b>82,441</b>	<b>40,663</b>	<b>84,712</b>

**Source:** ATCL

\*No operation

**Table 7.3.4: Available Seat Kilometer ('000)**

Months	Seat Kilometer/Year						
	2015	2016	2017	2018	2019	2020	2021
January	2,938.60	6,897.50	22,745.58	19,041.27	45,985.81	103,525.45	69,929.83
February	3,357.80	6,637.20	20,132.02	17,657.00	46,324.11	94,903.43	75,093.20
March	3,674.40	3,800.40	16,999.22	19,690.31	55,667.30	69,350.31	80,567.29
April	3,909.60	4,362.00	16,887.20	19,666.75	56,577.38	25,148.02	74,459.18
May	4,251.04	2,108.20	19,273.90	28,500.53	57,924.58	13,313.12	59,018.32
June	5,174.60	1,307.90	18,412.75	23,214.12	59,291.62	21,994.26	50,496.47
July	4,433.70	*	18,226.24	22,588.87	87,281.13	25,147.47	50,411.76
August	7,066.50	1,477.00	19,940.04	40,771.16	91,772.43	31,281.03	52,801.09
September	10,193.00	688.20	21,142.29	38,642.72	81,267.01	34,531.31	71,188.94
October	9,436.95	6,688.91	21,237.21	41,725.43	85,896.29	38,916.83	76,106.60
November	8,474.30	9,887.60	19,690.16	41,861.17	85,504.84	60,657.70	84,829.57
December	7,226.80	22,482.17	27,319.57	44,903.42	94,547.12	64,402.00	102,527.30
<b>Total</b>	<b>72,152.29</b>	<b>68,353.08</b>	<b>244,023.18</b>	<b>360,280.75</b>	<b>850,058.62</b>	<b>585,190.93</b>	<b>847,429.55</b>

**Source:** ATCL

\*No operation

**Table 7.3.5: Passenger Kilometer ('000)**

MONTHS	Passenger Kilometer/ YEAR						
	2015	2016	2017	2018	2019	2020	2021
January	1,884.16	4,402.87	9,918.20	13,522.85	31,898.68	62,540.65	46,978.81
February	1,863.65	3,881.76	7,782.29	12,472.09	31,247.34	56,992.26	39,881.84
March	2,182.97	2,796.31	9,414.24	14,687.84	37,568.79	39,652.26	42,394.00
April	2,195.90	2,625.43	8,595.51	13,119.48	40,557.98	11,254.83	42,310.55
May	2,742.48	824.67	12,162.89	14,166.25	37,657.29	8,128.51	36,635.41
June	3,138.65	394.53	12,339.93	15,186.17	41,504.44	16,373.27	38,364.65
July	2,678.60	*	14,306.47	15,106.89	54,184.15	21,054.57	37,813.40
August	3,591.56	518.31	13,605.44	32,879.28	60,014.36	23,377.35	36,307.64
September	5,201.88	287.14	13,764.53	24,791.26	51,027.25	25,077.22	46,746.61
October	5,317.78	3,555.51	14,841.60	23,384.30	54,987.19	27,867.42	54,733.91
November	5,355.20	5,639.60	14,586.07	24,276.39	56,384.68	40,033.47	61,869.41
December	4,707.57	11,721.50	15,916.24	34,866.97	72,657.94	53,177.00	70,505.44
<b>Total</b>	<b>40,860.4</b>	<b>36,647.63</b>	<b>147,233.41</b>	<b>238,459.77</b>	<b>569,690.09</b>	<b>385,528.81</b>	<b>554,541.67</b>

**Source:** ATCL

\*No operation

**Table 7.3.6: ATCL Performance by Average Load factor per route**

S/N	Months	Average Load Factor per route (%)						
		2015	2016	2017	2018	2019	2020	2021
1.	January	64	64	44	71	69	60	67
2.	February	56	58	39	71	67	60	53
3.	March	59	74	55	75	67	57	53
4.	April	56	60	51	67	72	45	57
5.	May	65	39	63	62	65	61	62
6.	June	61	30	67	65	70	74	76
7.	July	60	*	78	78	62	84	75
8.	August	51	35	68	81	65	75	69
9.	September	51	42	65	64	63	73	66
10.	October	56	53	70	56	64	72	72
11.	November	63	57	73	58	66	66	73
12.	December	65	52	58	78	77	83	69

**Source:** ATCL

\*No operation

## CHAPTER EIGHT: METEOROLOGICAL INFORMATION

Meteorological information are mandated to Tanzania Meteorological Authority (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, Wind run, Wind Speed, Wind Direction, pressure, Fog, Thunder, Hail, Mean Sea Level, Visibility and Evaporation among others.

### 8.1 Meteorological Parameters

*Table 8.1.1: Annual Rainfall in Tanzania (mm)*

S/N	Station	Year						
		2015	2016	2017	2018	2019	2020	2021
1.	Bukoba	1755.1	1452.9	2676.2	1,706.9	2701.8	2054.0	2245.2
2.	Mwanza	1536.6	1039.3	872.2	1,153	1239.6	1148.2	1226.7
3.	Musoma	1037.8	627.2	622.5	1,031	1239.6	1236.5	1000.7
4.	Kigoma	967.8	913.5	869.2	985.1	758.2	955.1	1103.2
5.	Mpanda	M	685.1	945.7	1,084.3	1363	1492.5	1010.1
6.	Sumbawanga	819.2	769.1	679.3	768.4	899.5	898.1	563.9
7.	Tabora	959.6	911.6	885.3	1,112.9	966.5	1360.6	649.9
8.	Singida	628.3	689.4	628.7	763.4	839.9	1041.3	623.6
9.	Dodoma	473.7	545.2	443.9	679.3	770.5	1116.6	598.1
10.	Iringa	517.1	757.6	622.1	509.3	725.6	1201.6	441.9
11.	Engare Rongai	643.3	601.6	335.9	691.8	870.8	1104.9	-
12.	Same	519.3	626.7	569.7	679.3	969.7	469.1	418.6
13.	Arusha	669.7	603.5	809.7	1,197.9	1237	1160.7	720.5
14.	KIA	485.3	492.5	442.3	861.8	626.2	807.7	394.3
15.	Lushoto	767.0	759.9	1146.6	1,195.0	1362.3	M	M
16.	Tanga	1619.6	1003.6	1630.3	1,333.9	1645	1165.1	964.3
17.	Ilonga	929.2	1143.7	1018.5	911.1	1424	1303.0	776.9
18.	JNIA	1038.4	782.9	1248.6	1,208.4	1667	1826.8	971.3
19.	Mtwara	1068.9	1454.8	1373.2	1,180.7	1084	1168.8	1435.9
20.	Songea	830.5	952.6	1226.1	1,039.0	1235	1564.4	901.5
21.	Mahenge	1691.3	1999.0	2038.8	1,728.0	2206	2320.6	1279.5
22.	Mbeya	692.7	920.3	1043.6	1,731.9	1298.1	1229.8	M

**Source:** TMA

Note: - M-Indicates missing values

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

S/No.	Station	Year							
		2014	2015	2016	2017	2018	2019	2020	2021
1.	Bukoba	26.4	26.6	26.7	26.9	26.4	26.9	26.8	26.6
2.	Mwanza	28.3	28.9	28.9	28.5	28.4	29.2	27.9	29.0
3.	Musoma	28.2	28.7	M	M	M	29.0	29.0	29.2
4.	Kigoma	28.1	29.1	29.9	29.7	29.4	29.8	29.1	29.8
5.	Sumbawanga	25.2	25.3	25.6	25.3	24.8	25.2	26.7	25.9
6.	Tabora	29.5	30.0	30.4	30.3	28.4	30.4	29.6	30.1
7.	Singida	26.8	27.3	26.8	28.1	26.0	27.1	26.8	27.3
8.	Dodoma	29.1	29.4	29.4	29.8	28.8	29.5	28.9	29.0
9.	Iringa	26.4	27.3	27.2	26.9	26.4	27.2	26.8	27.0
10.	Same	29.6	30.7	29.8	29.2	29.2	29.6	29.3	29.8
11.	Arusha	25.8	26.2	26.6	26.8	25.4	26.3	25.8	26.0
12.	Tanga	29.7	30.1	31.4	31.2	30.8	31.6	31.5	31.2
13.	Ilonga	30.5	31.1	30.2	30.7	30.7	30.8	30.6	M
14.	JNIA	32.0	32.0	31.3	31.5	31.5	29.2	31.5	M
15.	Mtwara	30.7	30.8	30.8	31.1	31.1	31.2	31.0	30.9
16.	Songea	26.7	27.2	28.0	26.3	M	27.5	27.7	28.3
17.	Mahenge	25.3	25.4	25.8	25.4	24.9	24.9	M	M
18.	Mbeya	23.7	24.8	24.8	24.7	24.8	26.1	24.5	M

Source: TMA

Note: - M-Indicates missing values

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

S/N	Station	Year							
		2014	2015	2016	2017	2018	2019	2020	2021
1.	Bukoba	18.4	18.2	18.9	18.5	18.6	18.7	19.0	18.6
2.	Mwanza	18.6	18.2	18.5	19.1	18.6	18.6	18.6	M
3.	Musoma	17.9	18.3	M	19.9	19.0	19.8	19.4	19.4
4.	Kigoma	19.9	19.5	20.0	19.6	19.6	19.6	19.6	19.3
5.	Sumbawanga	16.5	18.6	14.0	13.7	13.9	13.8	13.8	13.5
6.	Tabora	16.9	17.3	15.8	17.5	17.4	17.4	17.3	16.7
7.	Singida	16.1	16.1	16.1	16.3	16.2	16.7	17.5	15.9
8.	Dodoma	17.9	17.7	17.6	18.2	17.8	18.3	18.0	16.3
9.	Iringa	15.5	15.2	15.1	15.8	15.6	16.2	15.7	15.3
10.	Same	18.7	18.8	18.6	18.3	18.6	19.2	19.0	18.8
11.	Arusha	15.3	15.2	15.3	15.3	15.5	15.8	15.8	15.4
12.	Kilimanjaro	17.1	17.7	18.6	17.9	17.9	20.2	18.6	18.9
13.	Tanga	22.0	23.1	23.6	23.5	23.1	25.1	M	23.0
14.	JNIA	22.5	22.5	23.2	23.3	22.4	23.3	23.0	M
15.	Ilonga	21.2	20.4	19.5	19.9	20.1	23.9	M	M
16.	Mtwara	21.2	21.3	20.6	22.0	21.5	22	22.1	21.8
17.	Songea	15.7	14.4	15.4	15.2	14.9	16.9	17.2	16.9
18.	Mahenge	17.0	17.1	17.7	17.7	17.3	17.8	18.2	17.6
19.	Mbeya	14.1	14.0	11.9	11.0	11.5	11.3	10.8	M

Source: TMA

Note: - M-Indicates missing values

## 8.2 Customers/Users Using TMA Services

**Table 8.2.1: Number of flights served with meteorology services**

Years	2014	2015	2016	2017	2018	2019	2020	2021
Number of flights served	24,683	38,761	40,082	38,403	44,306	45,966	27,348	35,511

**Source:** TMA

**Table 8.2.2: Number of tailored customers served with meteorology services**

Years	2014	2015	2016	2017	2018	2019	2020	2021
Number of tailored customers served	524	133	268	325	621	631	2,582	2,683

**Source:** TMA

**Table 8.2.3: Number of forecasts issued to boats/ships served at Dar es Salaam, Zanzibar and major lakes Port Offices**

Years	2014	2015	2016	2017	2018	2019	2020	2021
Number of forecasts issued to boats and ships	2,880	2,651	2,586	2,792	2,907	7,776	7,248	31,736

**Source:** TMA

## CHAPTER NINE: 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.	*Master of Business Administration in Logistics and Transport Management	9
9.	Logistics and Transport Management	4,5,6,7,8,PGD,9
10.	Automobile Engineering	4,5,6,7,8
11.	Procurement and Logistics Management	4,5,6,7,8,PGD
12.	Accounting and Transport Finance	4,5,6,7,8
13.	Aircraft Maintenance Engineering	4,5,6,7,8
14.	Business Administration	4,5,6,7,8,9
15.	Mechanical Engineering	4,5,6,7,8
16.	Marketing and Public Relations	4,5,6,7,8
17.	Human Resource Management	4,5,6,7,8
18.	Naval Architecture and Marine Engineering	4,5,6,7,8
19.	Information Technology	4,5,6,7,8
20.	Road and Railway Transport Logistics Management	7,8
21.	Shipping and Ports Logistics Management	7,8
22.	Education with Mathematics and Information Technology	7,8
23.	Computer Science	7,8
24.	Freight, Clearing and Forwarding	4,5,6
25.	Auto Electrical and Electronics Engineering	4,5,6
26.	Electrical Engineering	4,5,6
27.	Electronics and Telecommunication Engineering	4,5,6
28.	Library and Information Studies	4,5,6
29.	Records, Archives and information Studies	4,5,6
30.	Ship Building and Repair	4,5,6
31.	Pipe Works, Oil and Gas Engineering	4,5,6
32.	Civil and Transportation Engineering	4,5,6
33.	Mechanical Engineering and Railway Vehicle Technology	4,5,6
34.	Automobile Engineering and Locomotive Technology	4,5,6

S/N	Program Name	Exit point
35.	Electrical and Railway Electrification Engineering	4,5,6
36.	Telecommunication and Railway Signaling Engineering	4,5,6
37.	Shipping and Ports Operations	4,5,6
38.	Road and Railway Transport Logistics Operations	4,5,6

\* Programs conducted in collaboration with Open University of Tanzania (OUT)

**Table 9.1.2: Training Programs (Short Courses)**

S/N	Courses
1.	Advanced Driving Grade I
2.	Advanced Driving Grade II Industrial
3.	Advanced Driving Grade II VIP
4.	Public Service Vehicle (Passenger) Driverring Course (PSV)
5.	Heavy Goods Vehicle Drivers course (HGV)
6.	Special Defensive Driving course
7.	Senior Driving Course
8.	Motor Cycle
9.	Driver Instructors
10.	Folk Lift Operators
11.	Vehicle Inspection and Appraisal
12.	Vehicle Inspection Drivers & Examiner
13.	Diesel& Engine Service Maintenance
14.	Transport Information System Course for PMOLARG Officers
15.	Auto electrical and electronics
16.	Vehicle Fleet Management
17.	Transport Officers
18.	Cargo Handling
19.	Road Safety Awareness
20.	Airport Vehicle driving and Operation
21.	Road & Rail Cabin Crew Customer Care and Services
22.	Weighbridge Operators Course
23.	Stores Management
24.	Transport Costing and Transport Statistics Analysis
25.	Vehicle Inspection and Road Safety
26.	Tyre Care and Maintenance
27.	Fuel Management in Vehicle Operations
28.	Petrol Engine Services and Maintenance

**Table 9.1.3: Number of students enrolled on long courses**

S/N	NAME OF COURSE PROGRAM	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22
1.	Master of Business Administration in Logistics and Transport Management	21	7	0	0	0	0	0
2.	Master of Science in Logistics and Transport Management	0	10	14	7	9	10	10
3.	Postgraduate Diploma in Logistics and Procurement Management	9	2	16	1	2	1	1
4.	Postgraduate Diploma in Logistics Transport Management	12	4	12	1	0	1	2
5.	Postgraduate Diploma in Air Transport Management	13	6	25	0	0	2	0
6.	Postgraduate Diploma in Shipping and Port Management	34	11	26	2	1	2	3
7.	Postgraduate Diploma in Transport and Tourism Management	0	0	1	0	0	0	0
8.	Postgraduate Diploma in Road Safety Management	5	0	0	0	0	0	0
9.	Postgraduate Diploma in Transportation Engineering	3	0	6	0	0	0	0
10.	Bachelor Degree in Logistics and Transport Management	795	1041	1233	1260	1321	1617	1542
11.	Bachelor Degree in Freight clearing and Forwarding	0	0	0	0	0	0	0
12.	Bachelor Degree in Automobile Engineering	257	242	258	364	235	261	244
13.	Bachelor Degree in Mechanical Engineering	78	504	504	456	407	481	446
14.	Bachelor Degree in Aircraft Maintenance Engineering	37	55	43	64	69	68	86
15.	Bachelor Degree in Business Administration	200	190	198	144	419	763	849
16.	Bachelor Degree in Procurement and Logistics Management	507	851	853	889	946	994	1029
17.	Bachelor Degree in Human Resource Management	214	309	415	562	775	821	905
18.	Bachelor Degree in Marketing and Public Relations	40	147	220	454	739	887	956
19.	Bachelor Degree in Accounting and Transport Finance	142	242	278	332	599	788	898
20.	Bachelor Degree of Education with Mathematics and Information Technology	115	169	183	142	115	194	113
21.	Bachelor Degree in Information Technology	222	354	346	405	490	580	591
22.	Bachelor Degree in Computer Science	49	80	93	67	48	54	67
23.	Bachelor degree in Road and railway Transport Management	0	0	0	0	0	405	788
24.	Bachelor Degree in Shipping and Port Logistic Management	0	0	0	0	0	447	946
25.	Diploma in Aircraft Maintenance Engineering	0	18	36	37	43	28	42
26.	Diploma in Automobile Engineering	78	82	65	72	53	34	19
27.	Diploma in Mechanical Engineering	126	156	140	149	114	108	52
28.	Diploma in Logistics and Transport Management (DLTM)	874	669	811	722	724	790	870
29.	Diploma in Information Technology	113	137	95	87	64	102	138
30.	Diploma in Freight Clearing and Freight Forwarding (DFCF)	231	100	70	81	78	249	442
31.	Diploma in Procurement and Logistics Management	541	264	685	180	160	281	402
32.	Diploma in Business Administration	105	50	63	58	38	53	50
33.	Diploma in Human Resource Management	43	28	19	32	39	141	209
34.	Diploma in Accounting and Transport Finance	91	86	52	62	51	465	165
35.	Diploma in Marketing and Public Relations	22	20	32	58	81	100	123

S/N	NAME OF COURSE PROGRAM	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22
36.	Diploma in Electronics and Telecommunication Engineering	0	0	0	0	0	0	14
37.	Diploma in Records, Achieves and Information Studies	0	0	0	0	0	0	54
38.	Diploma in Ship Building and Repair	0	0	0	0	0	0	10
39.	Diploma in Pipe Works, Oil and Gas Engineering	0	0	0	0	0	0	21
40.	Diploma in Mechanical Engineering and Railway Vehicle Technology	0	0	0	0	0	0	39
41.	Diploma in Automobile Engineering and Locomotive Technology	0	0	0	0	0	0	8
42.	Diploma in Auto-electrical and Electrical Engineering	0	0	0	0	0	0	18
43.	Diploma in Electrical Engineering	0	0	0	0	0	0	14
44.	Diploma in Shipping and Port Logistics Operations	0	0	0	0	0	172	162
45.	Diploma in Road and Railway Transport Logistics Operations	0	0	0	0	0	89	282
46.	Diploma in Library and Information Studies	0	0	0	0	0	0	13
47.	Diploma in Electrical Engineering with Railway Electrification	0	0	0	0	0	0	25
<b>TOTAL</b>		<b>4,977</b>	<b>5,834</b>	<b>6,792</b>	<b>6,688</b>	<b>7,620</b>	<b>10,988</b>	<b>12,648</b>

**Source: NIT**

**Table 9.1.4: Number of students enrolled on short courses**

S/N	Name of Course	2015	2016	2017	2018	2019	2020	2021
1.	Advanced Driving Grade I	1,227	192	81	100	132	185	163
2.	Advanced Driving Grade II Industrial	59	42	52	0	28	0	0
3.	Advanced Driving Grade II VIP	1,227	1,216	1,295	1514	1295	1599	828
4.	PSV Drivers Course	2,387	3,271	2,894	4169	2680	1173	730
5.	HGV Drivers course	27	34	26	479	855	40	56
6.	Special Defensive Driving course	96	235	881	605	237	488	383
7.	Senior Driving Course	18	26	24	28	28	56	28
8.	Motor cycle	0	0	0	263	0	0	0
9.	Driver Instructors	0	14	25	21	28	14	14
10.	Folk Lift Operators	20	185	61	56	179	23	67
11.	Vehicle Inspection and Appraisal	0	0	0	0	0	0	0
12.	Vehicle Inspection Drivers & Examiner	38	49	97	24	11	65	43
13.	International Shipping Practice Certificate	0	0	0	0	0	0	6
14.	Transport Officers	0	0	0	32	36	52	36
<b>Total</b>		<b>5,099</b>	<b>5,264</b>	<b>5,436</b>	<b>7,291</b>	<b>5,509</b>	<b>3,695</b>	<b>2354</b>

**Source: NIT**

**Table 9.1.5: Number of Academic Staff by Qualifications and Gender**

S/N	Qualification	2017/2018		2018/2019		2019/2020		2020/2021		2021/22	
		M	F	M	F	M	F	M	F	M	F
1.	PhD	11	3	6	4	9	3	10	8	9	4
2.	Masters	59	30	69	32	67	34	81	38	80	40
3.	First Degree	36	8	37	12	60	17	50	16	51	15
4.	Advanced Diploma	0	0	3	1	3	1	2	1	0	1
5.	Diploma	4	0	4	0	3	0	6	1	11	1
6.	Certificate	1	0	0	0	0	0	0	0	5	1
<b>Sub Total</b>		<b>111</b>	<b>41</b>	<b>119</b>	<b>49</b>	<b>142</b>	<b>55</b>	<b>149</b>	<b>60</b>	<b>156</b>	<b>62</b>
<b>Grand Total</b>		<b>152</b>		<b>168</b>		<b>197</b>		<b>209</b>		<b>218</b>	

**Source:** NIT

## 9.2 DAR ES SALAAM MARITIME INSTITUTE (DMI)

**Table 9.2.1: Training programs offered at DMI**

S/N	COURSE TITLE	NTA LEVEL
1.	Master in Shipping Economics and Logistics	10
2.	Master's Degree in Shipping Economics and Logistics	9
3.	Master's Degree in Transport and Supply Chain Management	9
4.	Bachelor's Degree in mechanical And Marine Engineering	8
5.	Bachelor's degree In Oil and Gas Engineering	8
6.	Bachelor's degree In Naval Mechatronics Engineering	8
7.	Bachelor's degree in Maritime Transport and Nautical Science	8
8.	Bachelor's Degree in marine engineering and Technology	8
9.	Bachelor's degree in Naval Architecture and Offshore Engineering	8
10.	Bachelor's degree in Shipping and Logistics Management	8
11.	Bachelor's degree in Procurement and Supply Chain Management	8
12.	Bachelor's degree In Transport and Supply Chain Management	8
13.	Ordinary Diploma in Maritime Transport and Nautical Science	6
14.	Ordinary Diploma in Marine Engineering	6
15.	Ordinary Diploma in Naval Architecture and Offshore Engineering	6
16.	Ordinary Diploma in Shipping and Logistics Management	6
17.	Ordinary Diploma in Procurement and Supply Chain Management	6
18.	Ordinary Diploma in Procurement and Supply Chain Management	6
19.	Technician Certificate in Marine Engineering	5
20.	Technician Certificate in Maritime Transport and Nautical Science	5
21.	Technician Certificate in Shipping and Logistics Management	5
22.	Technician Certificate in Naval Architecture and Offshore Engineering	5
23.	Technician Certificate in Procurement, Logistics and Supply Chain Management	5
24.	Basic Technician Certificate in Marine Operations - (NTA Level 4)	4
25.	Basic Technician Certificate in Shipping And Logistics Management	4

S/N	COURSE TITLE	NTA LEVEL
26.	Basic Technician Certificate in Naval Architecture and Offshore Engineering	4
27.	Basic Technician Certificate in Procurement, Logistics and Supply Chain Management	4
28.	Basic Technician Certificate in Mechanical and Marine Engineering	4
29.	Basic Technician Certificate in Oil and Gas Engineering - BTCOGE (NTA Level 4)	4
30.	Basic Technician Certificate in Cargo Tallying and Supply Chain Management	4
31.	Officer In Charge of An Engineering Watch on Ships Less Than 750KW (OOEW< 750 KW).	-
32.	Officer In Charge of a Navigation Watch on Ships Less Than 500GT (OONW< 500 GT)	-
33.	Electro-Technical Officer	-
34.	Officer in charge of an Engineering Watch	-
35.	Officer In Charge of a Navigational Watch	-
36.	Master On Ships Less Than 500GT	-
37.	Master And Chief Mate on Ships Between 500GT AND 3000GT	-
38.	Chief Engineer Officer and Second Engineer Officer on Ships Between 750KW AND 3000KW	-
39.	Master and Chief Mate	-
40.	Chief Engineer Officer and Second Engineer Officer	-
41.	Certificate in Marine Operations	-

Source: DMI

Table 9.2.2: Short Course Training programs offered at DMI

SN	Course	Duration
1.	Able Seafarer Deck	6 Weeks
2.	Able Seafarer Engine	6 Weeks
3.	Advanced Fire Fighting	1 Week
4.	Basic Training for Oil and Chemical Tanker Cargo Operations	1 Week
5.	Bridge Resource Management	1 Week
6.	Crisis Management and Human Behaviour	1 Week
7.	Advanced Training for Oil Tanker/Liquified Cargo Operation	1 Week
8.	Crowd Management	1 Week
9.	Dangerous, Hazardous and Harmful Cargoes	1 Week
10.	Electronic Charts Display and Information System and Automation	1 Week
11.	Elementary First Aid	1 Week
12.	Engine-Room Resource Management	1 Week
13.	Fire Prevention and Fire Fighting	1 Week
14.	GMDSS General Operator (GO)	3 Weeks
15.	GMDSS Restricted Operator (RO)	3 Weeks
16.	High Voltage Management Level	1 Week
17.	High Voltage Operational Level	1 Week
18.	Leadership and Managerial Skills	1 Week
19.	Leadership and Team Working Skills	1 Week
20.	Automatic Radar Plotting Aid (ARPA)	1 Week
21.	Medical Care	1 Week

SN	Course	Duration
22.	Medical First Aid	1 Week
23.	Passenger Safety, Cargo Safety and Hull Integrity	1 Week
24.	Passenger Ship Safety Training	1 Week
25.	Personal Safety and Social Responsibilities	1 Week
26.	Personal Survival Techniques	2 Week
27.	Proficiency in Fast Rescue Boat	1 Week

Source: DMI

Table 9.2.3: Number of students enrolled on long courses

N/S	Academic Department	2016/17		2017/18		2018/19		2019/20		2020/21		2021/22	
		M	F	M	F	M	F	M	F	M	F	M	F
1.	Marine Engineering	226	9	209	7	216	3	248	26	286	38	504	83
2.	Maritime Transport	197	9	206	17	202	31	213	22	188	18	265	55
3.	Science And Management	472	0	507	47	243	82	237	191	728	332	925	467
	Sub Total	895	8	922	71	661	126	698	239	1202	388	1694	605
	GRAND TOTAL	963		993		787		937		1,590		2,299	

Source: DMI

Table 9.2.4: Number of students enrolled on short courses

S/N	SUBJECT/ COURSE	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21
1.	Abble Seafarers Deck	0	0	11	25	20	9	16
2.	Abble Seafarers Engine	0	0	0	0	0	0	0
3.	ADV Fire Fighting	94	82	104	148	55	27	15
4.	ARPA	0	0	60	77	20	5	27
5.	Bridge Resource Management -BRM	0	0	61	63	28	5	27
6.	BTOCTO	206	194	132	150	150	85	45
7.	Company Security Awareness	0	0	0	0	0	0	0
8.	Crisis Management	0	0	0	0	0	0	5
9.	Dangerous Goods	36	25	0	0	0	0	0
10.	ECDIS	0	0	67	80	41	11	26

S/N	SUBJECT/ COURSE	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21
11.	Elementary First Aid	796	649	424	447	530	292	456
12.	ERM			58	67	38	13	17
13.	Fire Fighting	877	862	436	428	475	416	315
14.	GMDSS	24	26	51	81	28	14	9
15.	High Voltage	0	0	12	16	38	10	19
16.	Leadership and Managerial Skills	0	0	78	74	69	18	0
17.	Medical Care/ Medical First Aid	96	46	51	63	46	14	19
18.	Passenger Safety and Hull Integrity	0	0	21	26	0	0	0
19.	Personal Safety and Social responsibilities	871	814	448	452	542	314	360
20.	Personal Survival Techniques	841	789	439	422	553	380	370
21.	Port Facility Security Awareness	0	0	0	0	20	10	0
22.	Proficiency in Survival craft and rescue boat other than fast rescue boat-PSCRB	0	0	215	257	294	148	226
23.	Rating Deck	207	187	147	153	209	80	117
24.	Rating Engine	125	125	0	0	0	0	58
25.	Refresher Officer	0	0	98	108	51	6	4
26.	Refresher-Rating	0	0	407	392	308	89	49
27.	Security Awareness	1103	1234	491	498	518	501	362
28.	Small Craft Operator	0	0	0	0	37	0	0
29.	Port Facility	0	0	0	0	0	0	0

S/N	SUBJECT/ COURSE	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21
	Security Officer							
30.	SSO	218	218	68	72	26	32	25
31.	Revalidation Officers	126	126	0	0	0	0	13
32.	Revalidation Rating	349	349	0	0	0	0	162
	<b>TOTAL</b>	<b>5969</b>	<b>5726</b>	<b>3879</b>	<b>4099</b>	<b>4096</b>	<b>2479</b>	<b>2742</b>

Source: DMI

Table 9.2.5: Number of Academic Staff by Qualification and Gender

SN	LEVEL OF EDUCATION	NUMBER OF EMPLOYEES											
		2016/17		2017/18		2018/19		2019/20		2020/21		2021/22	
		M	F	M	F	M	F	M	F	M	F	M	F
1.	PhD	2	1	11	2	6	2	6	2	5	1	6	1
2.	Masters	32	8	23	7	28	8	11	8	18	8	32	12
3.	Postgraduate Diploma	0	0	0	0	0	1	0	1	2	2	1	0
4.	First Degree	13	8	8	7	12	8	13	4	19	4	16	6
5.	Advanced Diploma	0	0	0	0	0	0	11	4	10	4	6	2
6.	Diploma	0	0	4	0	4	0	2	6	2	4	2	3
7.	Certificate	0	0	0	0	0	0	7	2	5	3	7	5
<b>SUB TOTAL</b>		<b>47</b>	<b>17</b>	<b>46</b>	<b>16</b>	<b>50</b>	<b>19</b>	<b>50</b>	<b>27</b>	<b>61</b>	<b>26</b>	<b>70</b>	<b>29</b>
<b>GRAND TOTAL</b>		<b>64</b>		<b>62</b>		<b>69</b>		<b>77</b>		<b>87</b>		<b>99</b>	

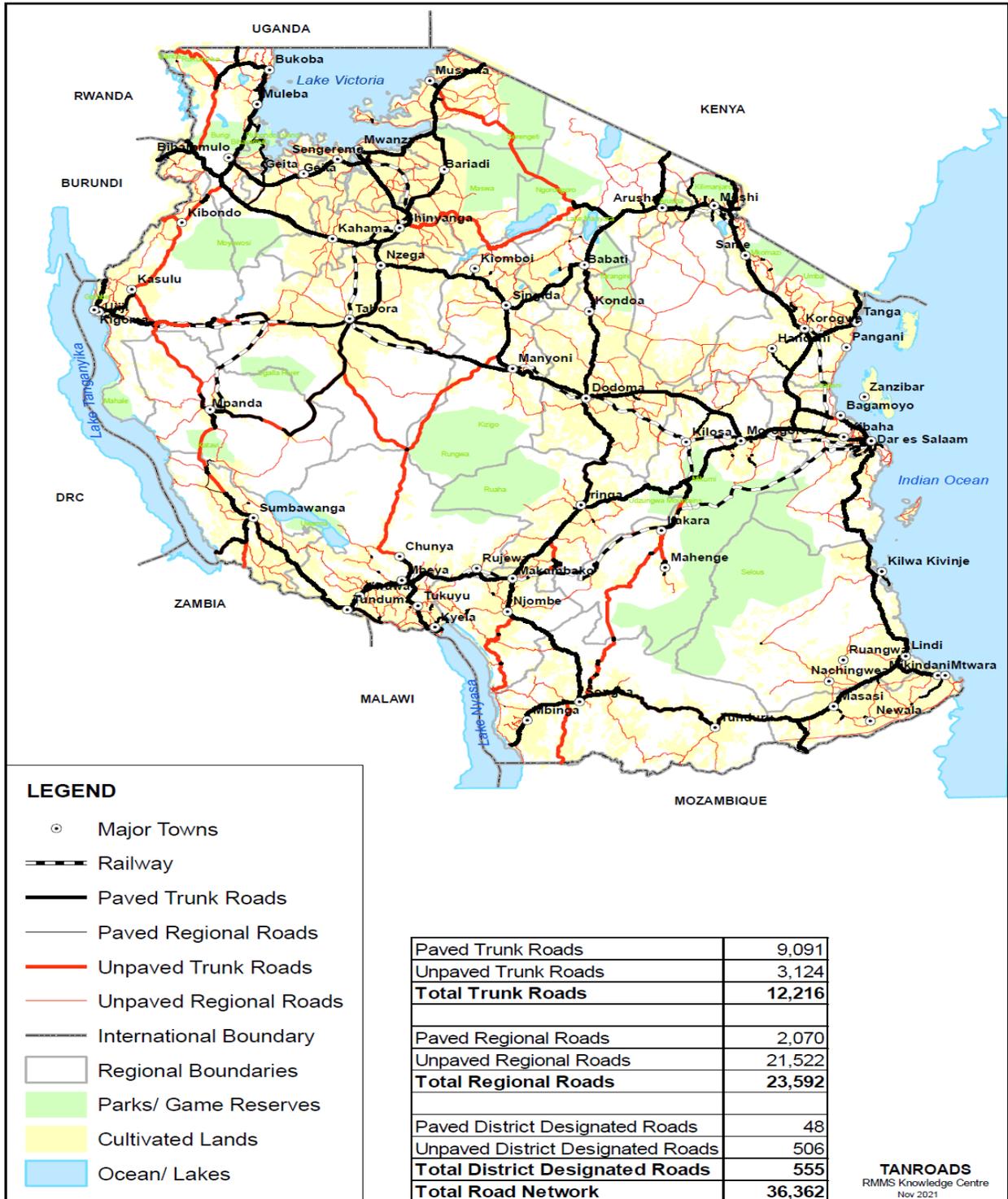
Source: DMI

## **CHAPTER TEN: CONCLUSION**

This book contain Transport and meteorological key statistics at National level that cover a period of more than five years back from December, 2021. The statistics are presented in terms of tables and charts for easy understanding. Since it's prepared annually, we are inviting all stakeholders' with any comments and inputs for the purpose of improving the subsequent documents.

Furthermore, these statistics are prepared for the purpose of helping transport sector stakeholders to use in their various development plans. The Ministry of Works and Transport (Transport) will continue to update these statistics annually and uploading it in the website for easy access of the users.

### Trunk and Regional Roads Network



## Tanzania Roads Distance Chart in Kilometer

TANROADS																										
TANZANIA ROAD DISTANCE CHART IN KM - MARCH 2017																										
	DSM	ARUSHA	BABATI	BARIADI	BUKOKA	DODOMA	GEITA	IRINGA	KIBAHA	KIGOMA	LINDI	MBEYA	MOROGORO	MOSHI	MPANDA	MTWARA	MUSOMA	MWANZA	NJOMBE	SHINYANGA	SINGIDA	SONGEA	SUMBAWANG	TABORA	TANGA	VWAWA
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
BUKOKA	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	867	987	704	411	1224	1428	741	355	1171
MPANDA	1383	1581	1413	695	720	1155	684	891	1348	299	1629	561	1191	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
VWAWA	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