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## **ABBREVIATIONS & ACRONYMS**

<i>AfDB</i>	-	African Development Bank
<i>BADEA</i>	-	Arab Bank for Economic Development in Africa
<i>BMU</i>	-	Bridge Maintenance Unit
<i>CAGD</i>	-	Controller & Accountant General's Department
<i>CATB</i>	-	Central Advisory Tender Board
<i>DANIDA</i>	-	Danish International Development Agency
<i>DFR</i>	-	Department of Feeder Roads
<i>DLP</i>	-	Defects Liability Period
<i>DTF</i>	-	Dutch Trust Fund
<i>DUR</i>	-	Department of Urban Roads
<i>EU</i>	-	European Union
<i>GHA</i>	-	Ghana Highway Authority
<i>GCAA</i>	-	Ghana Civil Aviation Authority
<i>GIFMIS</i>	-	Ghana Integrated Financial Management Information Systems
<i>GOG</i>	-	Government of Ghana
<i>GSGDA</i>	-	Ghana Shared Growth & Development Agenda
<i>IPC</i>	-	Interim Payment Certificate
<i>IGF</i>	-	Internally Generated Fund
<i>JBIC</i>	-	Japan Bank for International Co-operation
<i>JICA</i>	-	Japan International Co-operation Agency
<i>KfW</i>	-	Kreditanstalt für Wiederaufbau
<i>MMU</i>	-	Mobile Maintenance Unit
<i>MOF</i>	-	Ministry of Finance
<i>MOT</i>	-	Ministry of Transport
<i>NITA</i>	-	National Information Technology Agency
<i>OECECF</i>	-	Overseas Economic Cooperation Fund
<i>PAP</i>	-	Project Affected Persons
<i>RAP</i>	-	Resettlement Action Plan
<i>RCS</i>	-	Road Condition Survey
<i>RPF</i>	-	Resettlement Policy Framework
<i>SMEC</i>	-	Snowy Mountains Engineering Corporation
<i>TSDP</i>	-	Transport Sector Development Programme
<i>WATTFP</i>	-	West Africa Transport and Trade Facilitation Project

## **APPENDICES**

<b>Appendix</b>	<b>A</b>	<b><i>GHA Organisational Structure</i></b>
<b>Appendix</b>	<b>B</b>	<b><i>Status Report for Development Projects March 2017</i></b>

## EXECUTIVE SUMMARY

The Ghana Highway Authority (GHA) under the Ministry of Roads and Highways (MRH) is charged by Act 540 with the responsibility for the development, management and maintenance of the trunk road network in Ghana. Ghana's trunk road network is about 14,536km.

It is important to note that infrastructure is the pivot for national development and Ghana Highway Authority (GHA) plays a critical role in the provision of road infrastructure, and this role is clearly stated in our mission statement of providing a safe and reliable trunk road network at optimal cost by taking advantage of modern technology in road building and new income-generating methods to facilitate socio-economic development in the country.

### Road Network Condition 2010-2015

The 2015 road condition report makes comparison with the reports of 2010 – 2014. Details of the survey is shown in table 1. The length of roads in good condition has been increasing steadily from 3,865km (29%) in 2010 to 7,618.5 (57%) in 2015. This trend predicts a linear pattern of an annual increase of 5.7% giving a positive variance of 5.7. To maintain or increase this positive growth, annual maintenance intervention has to be kept steady, to increase the good condition of the trunk roads in the country.

**Table 1: Comparison of the Surveyed Road Surface Network Condition 2010-2015**

YEAR	GOOD		FAIR		POOR		TOTAL
	Length (km)	(%)	Length (km)	(%)	Length (km)	(%)	Length (km)
2010	3,865	29	5,841	44	3,556	27	13,262
2011	4,566	34	3758	28	5,019	38	13,343
2012	6,184	46	4412	33	2,882	21	13,478
2013	6,490.10	52	4,271.40	34	1,776.50	14	12,538
2014	7,128.53	52	5,452.09	39	1,256.80	9	13,837
2015	7,618.5	56.8	4,838.40	36.1	960	7.2	13,416.9

*Source: GHA Road Maintenance Division March 2017*

### Road Condition Mix for Year 2015

The Road Condition Mix for the year 2016 will be reported in the year 2017 2<sup>nd</sup> quarter report. The 2016 Road Condition Survey data collection is expected to be completed in the 1<sup>st</sup> quarter of 2017. The Roughness Index data is currently being compiled, and is expected to be completed within the 2<sup>nd</sup> quarter of 2017. Subsequently, the 2016 Road Condition Report is expected to be ready by the end of the 2<sup>nd</sup> quarter

Thirteen thousand four hundred and sixteen kilometres of -13,416.9km- of Paved and Gravel roads were surveyed, and classified into Good, Fair and Poor conditions in the year 2015.

For both paved and gravel surfaced roads, the length of road in Good condition were 7,618.5km representing 57% of the 13,416.9km network surveyed. 4,838.4km or 36% were in Fair condition, while those in Poor condition were 960km or 7% of the network surveyed.

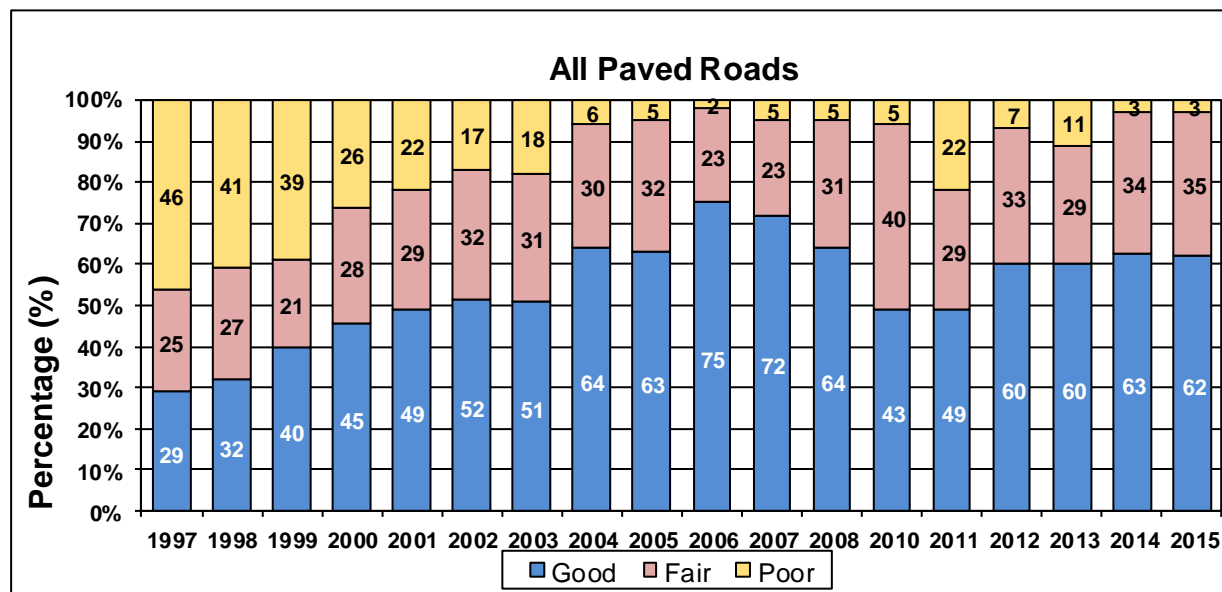
Table 2 and figure 1 also show the progression of road surface condition for both paved and unpaved roads for the period 1997-2015.

**Table 2: Condition Mix of Paved & Unpaved Road Network Condition from 1997 to 2015**

YEAR	GOOD		FAIR		POOR		TOTAL	
	Km	%	Km	%	Km	%	Km	%
1997	2,512.00	18	3,210.00	23	8,233.00	59	13,955.00	100
1998	2,566.00	19	3,377.00	25	7,564.00	56	13,507.00	100
1999	4,433.00	33	4,970.00	37	4,030.00	30	13,433.00	100
2000	3,381.00	30	4,293.00	39	3,448.00	31	11,121.00	100
2001	2,726.00	23	3,152.00	27	5,984.00	50	11,850.00	100
2002	3,089.00	26	3,244.00	27	5,639.00	47	11,972.00	100
2003	3,272.00	29	3,316.00	30	4,540.00	41	11,128.00	100
2004	4,410.00	40	3,294.00	30	3,250.00	30	10,942.00	100
2005	4,739.00	42	3,510.00	31	2,928.00	26	11,177.00	100
2006	5,402.00	0	3,397.00	0	2,924.00	0	11,723.00	100
2007	6,342.00	57	2,970.00	27	1,868.00	17	11,180.00	100
2008	4,696.00	40	3,771.00	32	3,150.00	27	11,618.00	100
2010	3,865.00	29	5,841.00	44	3,556.00	27	13,263.00	100
2011	4,567.00	34	3,758.00	28	5,019.00	38	13,344.00	100
2012	6,183.50	46	4,411.80	33	2,881.90	21	13,477.00	100
2013	6,490.00	52	4,271.00	34	1,777.00	14	12,538.00	100
2014	7,492.33	52	5,643.59	39	1,262.80	9	14,398.72	100
2015	7,618.50	57	4,838.40	36	960	7	13,416.90	100

Source: GHA Road Maintenance Division, March 2017

**Figure 1: Graphical presentation of 2015 Road Condition Mix for Paved & Gravel Roads**



Source: GHA Road Maintenance Division, March 2017



## Functional Classification of Roads

In 1998, the MRH introduced the new functional classification of roads in Ghana. Under this, trunk roads have been classified into National (N), Inter Regional (IR) and Regional (R) roads. This classification came with alphanumeric numbering system currently in use as shown Table 3.

Table 4 also lists and defines the National roads and the various major cities, towns and regions that the national roads traverse.

**Table 3: Functional Classification of Trunk Roads**

ROAD CLASS	ASR	BAR	CR	ER	GAR	NR	UER	UWR	VR	WR	TOTAL (KM)	%
N	434.9	560.5	326.9	334.6	259.5	1,003.6	287.5	396.8	418.4	442.9	4,465.6	31
IR	334.2	530.7	199.7	369.5	0.0	460.3	61.4	82.9	33.7	304.6	2,377.0	16
R	826.0	938.3	670.2	833.8	199.7	1,472.4	238.6	535.3	963.6	953.8	7,631.7	53
<b>TOTAL (KM)</b>	1,595.1	2,029.5	1,196.8	1,537.9	459.2	2,936.3	587.5	1,015.0	1,415.7	1,701.3	14,474.3	100

*Source: GHA Road Maintenance Division March 2017*

**Table 4: National Roads**

Route No	Name	Major Towns Roads Traverse	Regions that the Roads Traverse
N1	Trans West Africa Highway	Aflao, Accra, Cape Coast Takoradi, Elubo	Volta, Greater Accra, Central and Western Regions
N2	Eastern Corridor	Tema, Hohoe, Jasikan, Nkwanta Bimbila, Yendi, Gushiegu-Kulungulu	Volta, Greater Accra and Northern Regions
N3		Koforidua, Oterkpolu, Krobo Odumase	Eastern Region
N4		Accra, Aburi, Mamfe, Koforidua, Bunso Junction	Greater Accra and Eastern Regions
N5		Asikuma, Ho	Volta Region
N6	Central Corridor	Accra, Suhum, Nkawkaw, Konongo, Kumasi, Sunyani, Dormaa Ahenkro Gonokrom	Greater Accra, Eastern, Ashanti and Brong Ahafo Regions
N7		Sawla, Damango and Fulfulso	Northern Region
N8		Assin Fosu, Anwiankwanta, Kumasi Bechem	Central, Ashanti and Brong Ahafo Regions
N9		Tamale, Pusuga	Northern Region
N10		Daboasi junction, Atieku, Dunkwa, Kumasi Techiman, Kintampo, Tamale Bolga and Paga	Western, Central, Ashanti, Brong Ahafo, Northern and Upper East Regions
N11	Northern Corridor	Bolga, Bawku, Pulimakom	Upper East Region
N12	Western Corridor	Elubo, Enchi, Juabeso, Goaso, Sunyani Wenchi, Bole, Wa, Nadowli Hamile	Western, Ashanti, Brong Ahafo Upper West, and Upper East Regions
N13	Northern Corridor	<u>Lawra, Han, Tumu, Navrongo</u>	Upper West & Upper East Regions
N14		Sakpeigu, Yawgu	Northern Region
N16		Tumu, Kapulima	Upper West Region
N18		Wa, Han	Upper West Region

**Source: GHA Road Maintenance Division March 2017**

# CHAPTER ONE

## 1.0 INTRODUCTION

### 1.1 Establishment

The NRC Decree 298 of December 1974 establishing Ghana Highway Authority has been superseded by Act 540 of December 1997 to reflect changes, which have occurred in the road sub-sector. GHA is charged with the responsibility of the administration, development and maintenance of **trunk roads** and related facilities in the country.

### 1.2 Mission Statement

The Ghana Highway Authority is to provide and maintain a safe and reliable trunk road network, to support socio-economic development in the country.

### 1.3 Policy Objective

To accelerate the realization of the Mission Statement, the Authority has devised the following objectives :

- **Improving Road Condition:** To ensure the provision, expansion, and maintenance of Trunk Road Transport Infrastructure by increasing the proportion of the trunk road network and roads in District Capitals in good condition.
- **Reducing Accident Fatalities:** To work with the National Road Safety Commission and other stakeholders to reduce accident fatalities on the trunk road network.
- **Reducing Travel Time:** To ensure the provision of affordable, safe and accessible transport system by dualisation of heavily trafficked Trunk Road Sections.
- **Environmental and Social Mitigation Measures:** To mitigate the impact of the road development and maintenance program on the environment and people.
- **Improving Quality of Systems Delivery:** To assist MRH and other Ministries, Departments & Agencies (MDA's) to develop and strengthen the appropriate legal, institutional and regulatory framework and regulate all modes of transport to ensure an efficient transport system that will promote quality delivery of services.
- **Administration & Human Resources:** To recruit, train and adequately motivate staff and provide the needed logistics to undertake the services.

## 1.4 Governing Body

A constituted Board of Directors governs the Authority. The Board has the Chief Executive of GHA as a member.

## 1.5 The Directorate

The Authority has a Managing Director, designated as Chief Executive. Under him, there are three (3) Deputy Chief Executives: the Deputy Chief Executive (Administration); the Deputy Chief Executive (Development); and the Deputy Chief Executive (Maintenance).

## 1.6 Departments, Divisions and Regions/Road Area Offices

Under the three Departments, there are seventeen Divisions in the Head Office, each of which is headed by a Director and ten Regional Offices headed by Regional Highway Directors. The GHA also has twenty eight Road Area Offices nation-wide. The Internal Audit and Legal Divisions, though directly responsible to the Chief Executive, are under the Administration Department for management purposes.

The Organisational Chart of the GHA is attached (Appendix A).

## 1.7 Excerpts from 2017 Budget Statement

The Theme for 2017 Budget is “Sowing the seeds for the Growth and Jobs”. The 2017 budget has been developed within the broad framework of shifting economic management from taxation to production to grow the economy and also create jobs.

The government intends to strengthen tax administration, reduce tax exemption, and plug revenue loopholes and leakages as well as combating tax evasion. The government also intends to broaden the tax base, reducing and abolishing some taxes and levies, so as to create economic growth. *(Source: MOF, Budget Statement 2017)*

The Key Policies as outlined in the 2017 Budget by Government are summarized below:

- (i) Establishment of the Infrastructure Fund for Poverty Eradication Program (PEP). Under this, every constituency shall receive \$1m to combat poverty.
  - (ii) Implementation of the “one district, one factory” program.
  - (iii) Establishment of Zongo Development Fund.
  - (iv) Rolling out the National Identification Scheme.
  - (v) Introduction of Free SHS policy.
  - (vi) Rolling out of National Digital Addressing System.
  - (vii) Restoration of Teachers and Nurses Trainees allowances.
  - (viii) Macro-economy Stability
- (Source: MOF, Budget Statement 2017)*

The Government targets to grow the economy by 6.3% of GDP, including oil and by 4.6% excluding oil of GDP. The Service Sector is to grow by 5.1%, end of year inflation rate expected to be 11.2%, fiscal deficit is also expected to be 6.5% of GDP.

*(Source: MOF, Budget Statement 2017)*

The Government also targets to have an import cover of 3 months for the Gross Foreign Reserve. *(Source: MOF, Budget Statement 2017)*

Strategies to be adopted by government to attain the goals set out in the 2017 Budget are:

- (i) Fiscal discipline
- (ii) Fiscal transparency
- (iii) Fiscal Clarity
- (iv) Abolishing some taxes
- (v) Reduce tax exemption
- (vi) Widening the tax base

The total Expected Revenue and grants including Oil as outlined in the 2017 Budget is GH¢44.9b representing 22% of GDP, whilst Total Expected Expenditure is GH¢58.14b representing 7.9% of GDP. Expenditure of goods and service is expected to cost GH¢3.5b representing 1.7% of the GDP. *(Source: MOF, Budget Statement 2017)*

Interest on loans is the second largest component of the 2017 Budget. The Government is expected to pay GH¢13.9b representing 23% of the Total Expenditure and also 6.9% of the GDP to its lenders as Total Interest Payment. *(Source: MOF, Budget Statement 2017)*

An amount of GH¢7.1b has been allocated for Capital Expenditure. The Government has decided to introduce Revenue capping for Agencies including GHA to reduce Internally Generated Revenue to these Agencies. *(Source: MOF, Budget Statement 2017)*

To this end, GHA will have a reduction of about 34% of its IGF given to the Central Government. The effect is that, GHAs Financial resource envelope will be affected greatly. This will lead to further accumulation of debts to Service Providers and also affect the operations of the Authority.

## CHAPTER TWO

### 2.0 ADMINISTRATION DEPARTMENT

#### 2.1 Finance Division

##### 2.1 .1 Financial Status Report

Details of the Approved Budget Ceilings for the year 2017 and the pattern of releases as at 31<sup>st</sup> March, 2017 are provided below:

ITEM DETAILS	<u>Budget Approved GH¢</u>	<u>Amount Released GH¢</u>	<u>% Released</u>
1. Compensation for Employees	26,532,466.00	5,806,502.28	21.88
2. Goods and Services	500,000.00	-	0.00
3. Investment – GOG: ABFA	95,000,000.00	-	0.00
CF	75,000,000.00	-	0.00
4. Investment - Road Fund <sup>1</sup>	250,000,000.00	619,050.30	0.25
5. IGF	3,503,296.00	1,577,721.43	45.06
6. Investment - Donor	189,560,577.00	14,207,521.77	7.49
7. Tolls operational budget	22,668,384.47	5,452,849.10	24.05
	<b>Arrears as at 31<sup>st</sup> December, 2016</b>	<b>Amount Released</b>	<b>%</b>
Salary Related Allowances	2,231,048.10		
Service Providers	<u>1,418,043.22</u>		
	<b><u>3,649,091.32</u></b>		
Road Arrears: GOG	511,837,889.67		
Road Fund	115,466,514.12		

<sup>1</sup> This includes budgeted arrears of GH¢125,000,000

## **2.1.2 Recurrent Expenditure**

Details of the Approved Budget Ceilings for the year 2017 and the pattern of releases as at 31<sup>st</sup> March 2017 are provided in Table 5

## **2.1.3 Expenditure Incurred & Releases**

### **2.1.3.1 Routine Maintenance**

An amount of GH¢73,177,936.53 was outstanding for routine maintenance at 31<sup>st</sup> December, 2016. Contract Certificates raised for work done as at 31<sup>st</sup> March, 2017 amounted to GH¢5,393,470.70. There was no payment made by Road Fund Secretariat therefore, outstanding certificates stood at GH¢78,571,407.23 as at 31<sup>st</sup> March, 2017.

### **2.1.3.2 Periodic Maintenance & Minor Works**

An amount of GH¢42,288,577.59 was outstanding for work done under Periodic Maintenance & Minor Works as at 31<sup>st</sup> December, 2016. The work done by Contractors during the first quarter of 2017 amounted to GH¢56,311,720.85. There was no payment to Contractors during the first quarter by Road Fund Secretariat. The total outstanding Certificates as at 31<sup>st</sup> March, 2017 stood at GH¢98,600,298.44.

### **2.1.3.3 Development/Capital Projects**

An amount of GH¢511,837,889.67 was outstanding as at 31<sup>st</sup> December, 2016 for GOG Funded Projects. Certificates submitted for work done as at 31<sup>st</sup> March amounted to GH¢97,399,172.84. There was no release made by MOFEP in the first quarter. The total unpaid certificates as at 31<sup>st</sup> March, 2017 amounted to GH¢615,731,853.06.

## **2.1.4 Audited Accounts**

The draft Financial Statement for 2016 has been submitted to the External Auditors; Asafu Adjei and Partners.

**Table 5: Approved Budget for the Year 2017 & Releases as 31<sup>st</sup> March 2017**

Expense Item	Budgets GH¢		Receipts/Releases GH¢			GH¢	GH¢
	Approved	Revised	1 <sup>st</sup> Quarter	2 <sup>nd</sup> Quarter	3 <sup>rd</sup> Quarter	4 <sup>th</sup> Quarter	Cum. releases
Personnel Emoluments	26,532,466		5,806,502				5,806,502
Goods and Services	500,000		-				-
							-
<b>Total</b>	<b>27,032,466</b>		<b>5,806,502</b>	-	-	-	<b>5,806,502</b>
<b>Development</b>							-
- GoG***	170,000,000						-
- Donor*	189,757,873		14,208,702				14,208,702
Arrears GOG	511,837,890		-				-
<b>Total (Development)</b>	<b>359,757,873</b>		<b>14,208,702</b>	-	-	-	<b>14,208,702</b>
<b>Maintenance</b>							-
- Periodic (Road Fund)**	250,000,000		619,050.3				619,050
Road Fund Arrears as 31 <sup>st</sup> Dec 2016	11,466,514						-
- Routine (Road Fund)	42,190,000						-
Tolls Operation Budget	22,668,384		5,452,849				5,452,849
Internal Generated Fund (IGF)	3,503,296		1,577,721				1,577,721
<b>Total (Maintenance)</b>	<b>329,828,195</b>		<b>7,649,621</b>	-	-	-	<b>7,649,621</b>
<b>Grand Total</b>	<b>716,618,534</b>		<b>27,664,825</b>	-	-	-	<b>27,664,825</b>

\* For List of Donors, please refer to Table: 6

\*\*It includes arrears as at 31<sup>st</sup> December 2016 please refer to page 12 of the report for details

**Source: GHA Finance Division, March' 2017**



**Table 6: Summary of Funds Released**

	As at 31 <sup>st</sup> March, 2017	Cumulative for the Year 2017
<b>Recurrent Expenditure:</b>	<b>GH¢</b>	<b>GH¢</b>
Item 1 – Compensation – Salaries & Wages	5,806,502.28	5,806,502.28
Item 2 – Goods & Services		
Item 3 – Salary Related Allowances		
<b>Item 4 – Investment:</b>		
Routine Maintenance	-	
Periodic Maintenance & Minor Works	-	
Consultancy – Road Fund/ Training		
Ferries Operation	-	
Supervision & Data Collection (Rd Cond. Survey)	-	
GHA Units	619,050.30	619,050.30
Tolls Operation	5,452,849.10	5,452,849.10
Axle Load and weighing Management	1,734,078.57	1,734,078.57
Compensation <sup>11</sup>		
<b>Capital/Investment</b>		
GOG Release (both current & arrears)	-	
	<b>\$</b>	
DONOR: EU		
ADB	3,155,874.34	3,155,874.34
TSP	135,272.00	135,272.00
BRAZIL		
WATTFP		
<b>Total Donor Payments in US\$</b>	<b>3,291,146.34</b>	<b>3,291,146.34</b>

Source: GHA Finance Division, March 2017

\*Exchange Rate \$ 1 = GH¢4.50

## 2.1.7 Revenue from Tolls

### 2.1.7.1 Road and Bridges Tolls

Total revenue accrued from tolls excluding ferries as at 31<sup>st</sup> March, 2017 was GH¢16,817,889.93. This represented 4.04% increase as compared to the amount of GH¢16,165,411.61 collected for the same period as at 31<sup>st</sup> March, 2016.

The recorded increase of GH¢652,478.32 was due to the cash collection exercise at some of the Toll stations as well as monitoring activities and increase in vehicular traffic.

**Table 7: Comparative Toll Revenue Performance (Actual and Budget, 2017 & 2016)**

Toll Revenue Type	Budget as at 31 <sup>st</sup> March, 2017 GH¢	Actual Collection, as at 31 <sup>st</sup> March, 2017 GH¢	Percentage Achieved, as at 31 <sup>st</sup> March, 2017 %	Actual Collection, As at 31 <sup>st</sup> March, 2016 GH¢
Revenue from manual toll stations	11,013,534.00	9,806,426.81	89.04	9,765,363.84
Revenue from Ada Ferry	0.00	43,788.50		23,060.70
<b>SUB-TOTAL</b>	<b>11,013,534.00</b>	<b>9,806,426.81</b>	<b>89.04</b>	<b>9,788,424.54</b>
Revenue from automated toll stations	6,561,000.00	7,011,463.12	106.86	6,400,047.77
<b>GRAND TOTAL</b>	<b>17,574,534.00</b>	<b>16,817,889.93</b>	<b>95.69</b>	<b>16,188,472.31</b>

*Source: GHA Finance Division, March 2017*

## 2.2 Human Resource Division

The Human Resources Division has the responsibility for the key practice areas of **Human Resource Planning & Evaluation, Rewards, Employee relations and motivation** to help achieve the corporate goals of the organisation.

### 2.2.1 Human Resources Planning & Evaluation

As at 31st March, 2017, staff strength of the Authority stood at **1,382** against an Establishment of 2,529. This comprised 663 Senior Staff and 719 Junior Staff as s in the table 8.

**Table 8: Human Resource Strength – GHA Staff Structure as of 31<sup>st</sup> March, 2017**

DESCRIPTION OF	ESTMT	ACTUAL	VACANCY	HQ	GAR	VR	ER	CR	WR	ASH	BAR	NR	UER	UWR	MMU	BMU	MRH
OCCUPATION	STRENGTH																
															I&II		
TOP EXECUTIVES	4	3	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0
DIRECTORS	27	28	-1	16	1	1	1	1	1	1	1	1	1	1	0	0	2
ENGINEERS (FROM ASSIST. ENGR. TO PRIN. ENGR.)	172	149	23	94	3	4	9	5	6	5	5	4	4	4	3	3	
OTHER PROFESSIONAL STAFF	87	59	28	34	3	3	3	3	1	4	2	2	1	3	0	0	
ADMIN'TIVE AND OTHER MANAGERIAL STAFF	481	204	277	103	8	8	10	12	7	12	7	7	8	8	8	4	2
TECHNICIAN ENGINEER STAFF	175	115	60	49	3	4	4	6	10	4	7	5	7	9	4	3	
TECHNICAL AND SUPERVISORY STAFF (I)	162	81	81	28	4	2	8	6	7	7	6	5	1	2	3	1	1
WORKS SUPERINTENDENTS	0	24	-24	7	2	2	4	2	1	1	1	1	0	0	2	1	
<b>SENIOR STAFF</b>	<b>1108</b>	<b>663</b>	<b>445</b>	<b>334</b>	<b>24</b>	<b>24</b>	<b>39</b>	<b>35</b>	<b>33</b>	<b>34</b>	<b>29</b>	<b>25</b>	<b>22</b>	<b>27</b>	<b>20</b>	<b>12</b>	<b>5</b>
TECHNICAL AND SUPERVISORY STAFF (II)	167	68	99	10	3	5	3	8	6	6	11	7	2	5	2	0	
FOREMEN	0	4	-4	2	1	0	0	0	0	0	0	1	0	0	0	0	
ROAD OVERSEERS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CLERICAL STAFF	219	96	123	33	2	2	14	8	7	10	6	7	3	3	1	0	
SKILLED WORKERS	483	241	242	70	9	6	13	10	15	25	11	13	9	7	35	18	
SEMI-SKILLED	552	310	242	97	15	17	29	24	13	20	16	22	13	18	16	10	
TRAINEES / APPRENTICES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>JUNIOR STAFF</b>	<b>1421</b>	<b>719</b>	<b>702</b>	<b>212</b>	<b>30</b>	<b>30</b>	<b>59</b>	<b>50</b>	<b>41</b>	<b>61</b>	<b>44</b>	<b>50</b>	<b>27</b>	<b>33</b>	<b>54</b>	<b>28</b>	<b>0</b>
<b>GRAND TOTAL</b>	<b>2529</b>	<b>1382</b>	<b>1147</b>	<b>585</b>	<b>54</b>	<b>54</b>	<b>98</b>	<b>85</b>	<b>74</b>	<b>95</b>	<b>73</b>	<b>75</b>	<b>49</b>	<b>60</b>	<b>74</b>	<b>40</b>	<b>5</b>
TECH.& SUPERVISORY STAFF (I) = (SNR.TEC.OFFR. TO CHF.TEC.OFFR.)																	
TECH.& SUPERVISORY STAFF (II) = (TEC.OFFR GDII & TEC.OFFR GDI)																	

Source: GHA Human Resource Division, March 2017

**Table 9: Age Group Distribution – Whole of GHA 31<sup>st</sup> March 2017**

AGE GROUP DISTRIBUTION OF ALL GHA STAFF-MARCH -2017							
	55 AND ABOVE	50-54	45-49	40-44	35-39	4 AND BELOW	TOTAL
OCCUPATION CATEGORY							
ADM./ OTHER MANAGERIAL STAFF	76	38	12	11	27	40	204
CLERICAL STAFF	36	12	1	1	4	42	96
ENGINEERS	28	34	13	9	27	69	180
FOREMAN/CHARGEMAN	0	1	0	0	1	2	4
OTHER PROFESSIONAL STAFF	9	11	9	5	11	14	59
SEMI-SKILLED STAFF	89	62	17	39	44	59	310
SKILLED WORKERS	83	56	19	27	27	29	241
SUPERINTENDENT	17	6	1	0	0	0	24
TECH.& SUPERVISORY STAFF (I)	23	20	2	4	19	13	81
TECH.& SUPERVISORY STAFF (II)	0	0	1	6	8	53	68
TECHNICIAN ENGINEER STAFF	28	23	5	12	19	28	115
	<b>389</b>	<b>263</b>	<b>80</b>	<b>114</b>	<b>187</b>	<b>349</b>	<b>1382</b>

Source: GHA Human Resource Division, March 2017

### 2.2.2 Recruitment of Key Staff to Replace Exited Key Staff

There was no recruitment during the quarter under review.

### 2.2.3 Labour Turn Over

Thirty-Three members of staff proceeded on compulsory and voluntary retirements during the first quarter under review. Total exits (including retirements, deaths, resignations and dismissals.)

Details of staff exits including are shown in table10.

**Table 10: Labour Turn Over**

Exits	Senior Staff	Junior Staff	Total
Retirement	17	16	33
Resignation	0	0	0
Deaths	2	1	3
Dismissals	1	1	2
Vacation of Post	0	0	0
<b>Total</b>	<b>19</b>	<b>18</b>	<b>38</b>

Source: GHA Human Resource Division, March 2017

## 2.3 Internal Audit Division

The Division made available to management various reviews, recommendations and undertook a series of control activities during the first quarter of 2017. Table 11 shows details of some of the key activities undertaken by the Division in period under review and their status.

**Table 11: Details of Audit Activities Carried in 1<sup>st</sup> Quarter 2017**

No.	ACTIVITY DESCRIPTION	STATUS
1.	Review of Installation of traffic signs on Tema – Sogakope Road (LOT 2) IPC NO. 1	On- going
2.	Review of Rehabilitation of Tarkwa Bogoso Ayamfuri Road IPC NO. 48	On- going
3.	Review of Reconstruction of Kpando – Worawora – Dambai Road. PHASE III IPC NO. 42	On-going
4.	Review of Construction of toll plaza office and auxiliary at Nsawam – Accra Road IPC NO. 7	On- going
5.	Review of Construction of Oil and Gas Enclave Roads (construction of 10.0 Km Road along the Pipeline including the Amazure Bridge) IPC Nos.7&8	On- going
6.	Review of Private Management of GHA Weighbridge Station at Sefwi Bekwai –Lot 12 IPC No.1	On -going
7.	Review of Rehabilitation of Agona Junction – Elubo Road (Lot 20) IPC NO. 22	On -going
8.	Pre – Audit of Mutual Savings & Credit Fund	On -going
9.	Pre- Audit ; Promotion, interdiction and compulsory retirement inputs at the head office	On-going
10.	Audit of compensation payments	On-going
11.	Examination of payment vouchers Internally Generated Fund (IGF) January, 2015 -June, 2015	On-going
12.	Review of Monthly Expenditure Returns- Northern Region (Dec. 2016), Ashanti Region(Dec. 2016), Brong Ahafo Region ( Dec. 2016 & Feb. 2017)	On -going
13.	Examination of General Payment Vouchers; January, 2015 –December, 2015	On- going
14.	Review of Monthly Expenditure Returns; <ul style="list-style-type: none"> <li>• Northern Region ( Dec. 2016)</li> <li>• Ashanti Region(Dec. 2016)</li> <li>• Brong Ahafo Region ( Dec. 2016 &amp; Feb. 2017)</li> </ul>	On- going
15.	Review of Monthly Expenditure Returns; <ul style="list-style-type: none"> <li>• Eastern Region (December 2016-february 2017)</li> <li>• Volta Region ( November 2016- February 2017)</li> <li>• MMU I, MMU II, BMU (November, 2016 - February 2017).</li> </ul>	On- going
16.	Examination Of Payment Vouchers (PV'S) 2015; <ul style="list-style-type: none"> <li>• General (January – May )</li> <li>• Road Safety and Development Programme (March, April, May Vol. 1 and December)</li> <li>• Head Quarters Main (September 2015 Vol.1 And October 2015 Vol. 2)</li> </ul>	On- going

	<ul style="list-style-type: none"> <li>• Central Administration Accounts (CAA) (May Vol. 1)</li> <li>• Transport Sector Project Support II ( May Vol.1, June Vol. I, II And III).</li> </ul>	
17.	Cash Account Audit (Head Office Region) 2015	On- going
18.	Review of Central Administration Account's Trial Balance (2015)	On- going
19.	QAIP- Quality Assurance Implementation Programme	Completed

**Source: GHA Internal Audit Division, March 2017**

## 2.4 Legal Services Division

These civil cases received attention in Court during the year under review. Their status are set out in Table 12

**Table 12: Court Cases involving the Authority**

NO.	TITLE	COURT	SUBJECT
1	GHANA FEDERATION OF THE DISABLED	High Court, Human Right	It would be recalled that
	VRS	Division Accra	in relation to the Tettey C
	ATTORNEY GENERAL,		Highway. It claimed that
	GHANA HIGHWAY AUTHORITY		Disabled was not catered
	MILLENNIUM DEVELOPMENT AUTHORITY		safety measures were not
2	INVENT MEDIA	High Court, Fast Track	Plaintiff claimed that its
	VRS		erected near the Tetteh Q
	GHA		Interchange was forcibly
			removed at the behest of
			Authority
3	TOP OIL	High Court (Land	The Defendant Alhaji Yu
	VRS	Division) Tema	by a counter claim for wr
	1. ALHAJI YUSSIF		compensation money to t
	2. GHANA HIGHWAY AUTHORITY		
4	MRS. CECILIA BUAH BLANKSON	District Magistrate Court	The Plaintiff sued the De
	VRS	Twifo Praso	severally for damages ca
	1.GHA		construction of drainage
	2. MANAGING DIRECTOR (MAWUMS CO.LTD)		which had allegedly resu
			guest house anytime it ra
5	CARL JOSIAH REINDORF & OTHERS	High Court, Accra	The Plaintiffs are claimin
	VRS		in relation to land affecte
	1. ATTORNEY GENERAL		Achimota-Ofankor Road
	2. GHANA HIGHWAY AUTHORITY		
6	LOGLIFE CONFECTIONERY LTD VRS	High Court,	Compensation
	1. ATTORNEY GENERAL	Commercial Division	

	2. GHANA HIGHWAY AUTHORITY	Accra	
	3. CHINA RAILWAY (WUJU) GROUP CORP.		
7	SALIFU ABDULAI AND OTHERS VRS	High Court, Fast Track Division Accra	A driver and his assistant articulated vehicle hit a r ans somersaulted. The pl
	1. GHANA HIGHWAY AUTHORITY 2. CHINA INT. WATER & ELECTRIC CORPORATION 3. CHINA RAILWAY WUJU GROUP		owner of the articulated v the deceased drivers sued articulated vehicle and co deceased drivers.
8	JONAS ADOMAKO OWUSU VRS	High Court, Commercial Division	Claim for compensation affected by the constructi
	1. MILLENNIUM DEV. AUTHORITY 2. LANDS COMMISSION 3. GHANA HIGHWAY AUTHORITY 4. ATTORNEY GENERAL	Accra	Quarshie Mallam Highw
9	MADAM DORA KAI ANNANG VRS	High Court, Accra	Compensation claim for affected by the road cons
	1. GHANA HIGHWAY AUTHORITY 2. DEPT. OF URBAN ROADS, ACCRA		around Teshie-Tebibiano
10	KWESI ATTAH VRS 1. KINGSLEY KWAKYE 2. SOWAH S. ADJETEY 3. GHA	High Court, Koforidua	This is an accident case a affected person sued the among others.
11	GREEN AGRICULTURAL FARMS LTD. VRS	High Court, Land Division' Accra	Plaintiff claim that a pub located very near to the e 1st Defentant filling stati
	1. FRIMPS OIL CO. LTD., 2. GHANA HIGHWAY AUTHORITY		relocated by the Defenda with the Plaintiff consent
12	EDWARD KOBBLAH PENU VRS	High Court Human Rights Division, Accra	Claim for Compensation affected by the Tetteh-Q
	1. MILLENNIUM DEVT. AUTH 2. GHANA HIGHWAY AUTHORITY		Highway Project.



13	JOEMERSA COMPANY	High Court,	The plaintiff claimed that
	VRS	Commercial Division	awarded a contract for co
	GHANA HIGHWAY AUTHORITY	Sunyani	He alleged that when he
			the project he was reques
			because his project had b
			larger one to be executed
14	1. JOHN BENYAWOH	High Court,	The Plaintiff sued for inj
	2. SAMUEL KWADWO IDAN	Takoradi	Defendants in relation to
	VRS		Agona Junction-Elubo R
	1. GHANA HIGHWAY AUTHORITY		Ahanta West and Axim E
	2. THE ATTORNEY GENERAL		Region unless they were
	3. CHINA HENA COMPANY		
15	ELVIS KWAKU AGYEMANG-BADU	High Court	Plaintiff sued the Author
	VRS	(Industrial & Labour	outstanding salaries and t
	GHANA HIGHWAY AUTHORITY	Division) Accra	1st Sept. 2011.
16	MERCY KABUKI TETTEHFIO (NEE	High Court (Labour	The Plaintiff in this case
	AKROFI)	Division) Accra	Authority who has sued
	VRS		compulsory retirement b
	GHANA HIGHWAY AUTHORITY		
17	1. AMOAKO ABABIO & CO	High Court (Fast	Plaintiffs are Private Val
	2. VALUATION DEVELOPMENT SERVICE	Tract), Accra	compensation from GH
	VRS		
	1. GHANA HIGHWAY AUTHORITY		
	2. ATTORNEY GENERAL		
18	BEN SEVOR	High Court, Human	Plaintiff sued in relation
	VRS	Rights Division, Accra	Tetteh Quarshie-Mallam
	GHANA HIGHWAY AUTHORITY & 11 OTHERS		claimed the interest of th
			was not catered for in th
			safety measures were not
			for them.
19	NICHOLAS MAMPHI NYANTEY	High Court,	This was an accident case
	LYDIA OPPONG	Koforidua	were affected persons sue
	VRS		its driver.

	1. ARMAH ASHITEY		
	2. GHA		
20	NANA KOFI ARKESSI II &	High Court, Sekondi	Plaintiff have sued for an
	131 OTHERS	Takoradi	restrain Defendants on th
	VRS		Agona Junction to Elubo
	1. GHANA HIGHWAY AUTHORITY		Ahanta West and Axim E
	2. ATTORNEY GENERAL'S DEPT.		Compensation is require
	3. JYNES CONSTRUCTION COMPANY		
21	JAPAN MOTORS TRADING CO. LTD.	High Court	The Plaintiff sued for an
	VRS	(Commercial	the Authority to pay an a
	GHANA HIGHWAY AUTHORITY	Division)	¥27,612,692.00 million
			being athe contract sum f
			sypply of two water tank
22	JOHN BENYAWOH	High Court, Takoradi	Plaintiff have sued for th
	SAMUEL KWADWO IDAN		to restrain Defendants on
	VRS		development of Agona Ju
	1. GHANA HIGHWAY AUTHORITY		Elubo road Lot II in the A
	2. THE ATTORNEY GENERAL		Axim East in the Western
	3. CHINA HENA COMPANY		
23	NYAGSI ENGINEERS LTD.	High Court,	Plaintiff sued the Author
	VRS	Commercial Division	of contract
	GHANA HIGHWAY AUTHORITY	Accra	
24	ADUANA DAWURAMPONG STOOL OF ASSIN		Plaintiff sued the Author
	ATADANSO	High Court	the sum of GH¢19,632.7
	VRS	Commercial Division	work executed for GHA
	GHANA HIGHWAY AUTHORITY		
25	WEIGHTON INTERNATIONAL LTD	High Court,	The Plaintiff did work fo
	VRS	(Commercial Division)	and there was dispute ov
	GHANA HIGHWAY AUTHORITY	Accra	monetary claim.



## **2.5 Management Information Systems Division**

### **2.5.1 In-house Activities**

The Division continued its function of providing overall co-ordination and supervision of the Authority's data operations, computer systems, networking and hardware services.

The training of staff on the use of computer and other related equipment has been an on-going process.

The technical team of the division continued their routine visits to the toll booths namely Kasoa, Ashiaman and Accra-Tema motorway and did routine maintenance on the equipment in the toll booths.

## **2.6 Public Affairs Division**

### **Activities**

A mini durbar was organised at Highways during the quarter under review for the new incoming Minister for Roads and Highways.

### **Immigration Assistance**

The Division assisted three expatriates who were engaged on G.H.A. projects to acquire Residence and Work permits.

### **Advertisement / Announcement**

✚ The Emergency closure of Buipe Bridge in the Northern Region.

## **2.7 Training & Development Division**

A summary of the training and the development programme for the year 2017 is presented in Table 13. The details of various programs that were organised during the quarter is also shown in Table 14.

**Table 13: Training & Development Programme for the Year 2017**

CATEGORY	ACTIVITY	LOCATION	NO. OF STAFF	NO. TRAINED	NO. TRAINED	NO. TRAINED	NO. TRAINED	REASONS FOR ACHIEVEMENT
			TO BE TRAINED	IN 1ST	IN 2ND	IN 3RD	IN 4TH	
			IN THE YEAR	QUARTER	QUARTER	QUARTER	QUARTER	
<b>MGT. LEVEL</b>	Seminar/Conference/Workshop	Foreign	2	0				
	Fellowship	Foreign	0	0				
	Seminar/Conference/Workshop/(In-house)	Local	40	19				Orientation for Newly Appointed Director of Human Resources - Interview Room, Hands-on-Training in Idea Software (Phase II) for Internal Auditors, MIS Training Room
	Local Institution	Local	20	0				
<b>MIDDLE LEVEL</b>	Seminar/Conference/Workshop	Foreign	5	0				
	Higher Level Training	Foreign	2	0				
	Fellowship	Foreign	6					
	Seminar/Conference/Workshop (In-house)	Local	266	21				A Ten-Day Workshop on GIS and GPS Technology- Ghana Technology University College, Tesano, Accra. Hands-on-Training In Idea Software (Phase II) for Internal Auditors, MIS Training Room - Professional Certificate in Practical Minute Taking, University of Professional Studies (UPSA). Accra-Career Women's Forum, National Insurance Commission, Ridge- Accra
	Higher Level Training (MSc/MBA)	Local	7	4				
	HND/BSc. Programme	Local	4	2				
	Local Institution	Local	50	0				
<b>JUNIOR STAFF</b>	HND/BSc. Programmes	Local	4	0				
	Seminar/Wkshop/In-house	Local	80	0				
		TOTAL	486	46				

**Source: GHA Training & Development Division March 2017**

**Table 14: Training & Development Program organized in the 1<sup>st</sup> Quarter of 2017**

NO	LOCATION	COURSE TITLE	NO. OF PARTICIPANTS	LEVEL	COUNTRY/ VENUE
1	LOCAL	Orientation for Newly Appointed Director of Human Resources	1	Mgt.	HR Interview Room
2	LOCAL	Hands-on-Training In Idea Software (Phase II) for Internal Auditors	1	Mgt.	MIS Training Room
3	LOCAL	A Ten-Day Workshop on GIS and GPS Technology	2	Middle	Ghana Technology University College, Tesano - Accra
4	LOCAL	Hands-on-Training In Idea Software (Phase II) for Internal Auditors	12	Middle	MIS Training Room
5	LOCAL	Professional Certificate in Practical Minute Taking	2	Middle	University of Professional Studies (UPSA)
6	LOCAL	Career Women's Forum	5	Middle	National Insurance Commission

**Source: GHA Training & Development Division March 2017**

## CHAPTER THREE

### 3.0 MAINTENANCE DEPARTMENT

#### 3.1 Road Maintenance Division

##### 3.1.1 Maintenance Projects

- **Routine Maintenance**

The approved program for the year under review is 14,138km at a cost of GH¢42.19million. A total of 10.95% was achieved in the 1<sup>st</sup> quarter at a cost of GH¢ 3.71 million.

- **Periodic Maintenance & Minor Rehabilitation**

A total of 50.36km length of road was approved for periodic maintenance and minor rehabilitation works at cost of GH¢43.20million. The approved annual programme of 50.36km has been exceeded by almost 21%. This is as a result of more works done on the Enhanced road projects within the 1<sup>st</sup> quarter.

Table 15 and figure 2 gives details of achievements in the various maintenance activities.



**Table 15: Achievements in Routine & Periodic Mtce. Projects –as at 31<sup>st</sup> March 2017**

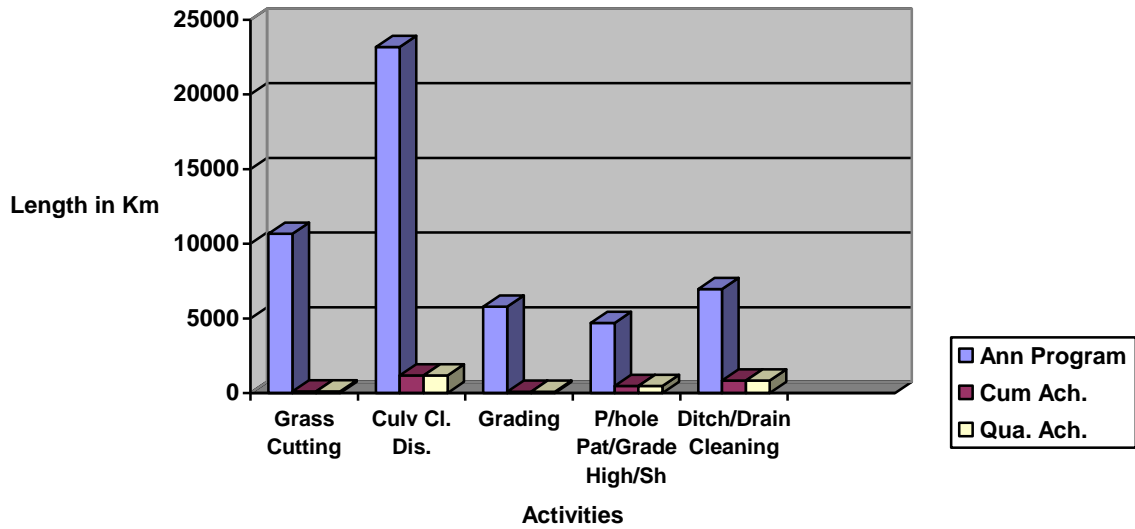
ACTIVITY	2017 PLANNED PROGRAMME		2017 APPROVED PROGRAMME		1ST QUARTER ACHIEVEMENT	2ND QUARTER ACHIEVEMENT	3RD QUARTER ACHIEVEMENT	4TH QUARTER ACHIEVEMENT	CUMM. ACHIEVEMENT	ACHIEVEMENT PER PLANNED PROGRAMME *	ACHIEVEMENT PER APPROVED PROGRAMME (%)
	UNITS		UNITS								
<b>ROUTINE MTCE</b>											
Grass Cutting	Km	10,674.00	Km	6,814.00	110.18				110.18	1.03	1.62
Culvert Cleaning & Desilting (No.)	No.	23,162.00	No.	12,708.00	1,188.00				1,188	5.13	9.35
Ditch/Drain Cleaning/Sweeping of Arte. RDS	Km	6,960.00	Km	4,176.00	843.00				843.00	12.11	20.19
Grading Gravel Surface & Ditch Cleaning	Km	5,798.00	Km	1,740.00	106.30				106.30	1.83	6.11
Pothole Patching & Grade High Shoulders	Km	4,692.80	Km	1,408.00	488.99				488.99	10.42	34.73
<b>PERIODIC MTCE</b>											
Regravelling/Spot Improvement	Km	239.40	Km	13.60	13.94				13.94	5.82	102.48
Resealing	Km	153.30	Km	8.20	2.51				2.51	1.64	30.61
Partial Reconstruction	Km	58.10	Km	14.08	12.52				12.52	21.55	88.93
Overlay	Km	12.84	Km	5.13							
Drainage Structures & Bridges	GH¢'M	58.15	GH¢'M	3.87							
Upgrading	Km	52.80	Km	1.02	1.27				1.27	2.41	124.51
Rehabilitation of Town Roads	Km	9.57	Km	3.13	2.78				2.78	29.06	88.82
Reconstruction, Rehabilitation & Construction (Former Enhanced Projects)	Km	801.00	Km	5.20	27.91				27.91	3.48	536.73

\* APPROVED PROGRAMME ACHIEVEMENTS FOR THE 1ST QUARTER OF THE 2017 PLANNED PROGRAMME FOR PERIODIC MAINTENANCE.

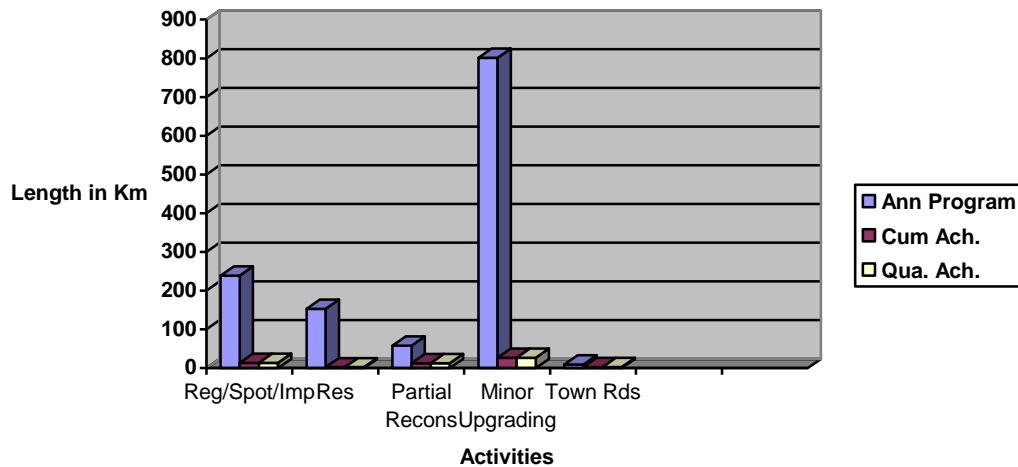
**Source: GHA Road Maintenance Division March 2017**

**Figure 2: Achievements in Maintenance Projects**

**Achievements in Routine Maintenance Programs  
As at End of 1<sup>st</sup> Quarter 2017**



**Achievements in Periodic Maintenance as At the end of the  
1<sup>st</sup> Quarter 2017**



**Legend**

**Reg:**            Regravelling  
**Res:**            Resealing  
**Spot Imp:**     Spot Improvement

**Tn.Rds:**        Town Roads  
**Culv. Cl. Dis:** Culvert Cleaning & Desilting

## GOG (Road Fund & Consolidated Fund & Cocobod) Projects

### On-going Projects

Currently there are Five Hundred and Seventy-Two (572) on-going maintenance projects. The breakdown into various activities is as shown in Table 16.

**Table 16: On-going Maintenance Projects**

ACTIVITY	NO. OF PROJECTS/SOURCES OF FUNDING					LENGTH (KM)
	CONSOLIDATED FUND	GOLD FIELDS GHANA LIMITED	ROAD FUND	ENHANCED ROAD FUND	COCOBOD	
REGRAVELLING/ SPOT IMPROVEMENT	2		54			431.10
RESEALING	1		32	1		227.10
PARTIAL RECONSTRUCTION	11		4	2	22	650.24
SECTIONAL REPAIRS/PARTIAL RECONSTRUCTION/ ASPHALTIC OVERLAY	1		1	1		52.20
TOWN ROADS	4		1			32.00
UPGRADING	44		8	17	31	1,896.00
REHABILITATION (UNPAVED)	1			3		137.00
REHABILITATION (PAVED)	6	3	2	7	4	432.10
RECONSTRUCTION			1	1	4	143.10
CONSTRUCTION				2	4	247.50
CONSTRUCTION/ REHABILITATION				1		11.95
BRIDGE/DRAINAGE STRUCTURES			295		1	
<b>TOTAL</b>	<b>70</b>	<b>3</b>	<b>398</b>	<b>35</b>	<b>66</b>	<b>4,260.29</b>
	<b>572</b>					

Source: GHA Road Maintenance Division March 2017

## Completed Projects

Tables 17 and 18 list the projects that were completed and substantially completed respectively in the period under review.

**Table 17: Completed Projects**

NO.	REGION	PROJECT
1	UWR	Regravelling of Tumu-Gwollu-Hamile Rd (km 45.0-55.0) Lot 1
2	BAR	Upgrading of Ampomah - Anyima Road (km 0.00 - 9.2)

*Source: GHA Road Maintenance Division March 2017*

**Table 18: Substantially Completed Projects**

NO.	REGION	PROJECT
1	ER	Partial Reconstruction of Suhum - Asamankese Road(km 20-30)
2	ER	Partial Reconstruction of Nsawam (Adeiso) - Asamankese Road (Km 10-24)
3	VR	Partial Reconstruction of Have-Kpando Road (KM 0 - 10)
4	BAR	Upgrading of Kofibadukrom Jn - Kofibadukrom Road (km 0-5)
5	GAR	Upgrading of Oyibi -Ashaiman Road (km 0-11.7)
6	NR	Upgrading of Walewale-Gambaga Road (Km 27-38)
7	NR	Upgrading of Tamale-Tolon-Daboya Road (km 13.2-19.8, 22.2-25.6)
8	VR	Upgrading of Have-Kpando Road (Km 10-30)
9	WR	Upgrading of Daboase - Atieku Road (Km 7 - 33)
10	WR	Upgrading of Daboase - Atieku Road (Km 33 - 59) Lot 2
11	WR	Upgradng of Enchi - Dadieso Road (Km 30-50)
12	WR	Upgrading of Akontonbra - Bodi Road (Km 0-15)
13	WR	Upgrading of Akontombra - Sefwi Wiawso Road (Km 0-10)

NO.	REGION	PROJECT
14	UER	Bolgatanga-Bongo Road Winkongo-Tongo Road Navrongo-Tumu Road (16.2km) & V. O. No. 1 (8.0)km

*Source: GHA Road Maintenance Division March 2017*

### 3.1.2 2016 Road Condition Survey

#### Data Collection

The 2016 Road Condition Survey data collection was completed in the 1<sup>st</sup> quarter of 2017. The Roughness Index data is currently being compiled, and is expected to be completed within the 2<sup>nd</sup> quarter of 2017. Subsequently, the 2016 Road Condition Report is expected to be ready by the end of the 2<sup>nd</sup> quarter.

### 3.1.3 GHA Units (MMUI, MMUII, & BMU)

#### **MMUI**

The Unit is based at Techiman and is responsible for the Northern Sector of the country.

#### **MMUII**

This Unit is based at Suhum in the Eastern Region and is responsible for the Southern Sector of the country.

#### **BMU**

The Bridge Maintenance Unit (BMU) has been charged with the responsibility of maintaining and repairing defective bridges and major culverts in the country. The Unit has two camps, one at Kukurantumi in the Eastern Region, taking care of the southern sector and the other at Techiman in the Brong Ahafo Region responsible for all bridges in the northern sector of the country.

Details of work executed by the various Units are shown in table 19.

**Table 19: Details of Works by MMUI MMUII & BMU –as at 31<sup>st</sup> March 2017**

PROGRESS REPORT ON WORKS EXECUTED BY GHA UNITS IN THE 1 <sup>ST</sup> QUARTER OF 2017							
GHA Units	Road Name	Activity	Length (km)	Project Cost (GH¢M)	Total cost of Work done to date (GH¢M)	Cumulated Achievement (%)	Remarks
MMU I	Sawla - Bamboi Road	Resealing	153	6.640	0.400	4.00	2600m <sup>2</sup> of pothole patching executed on the Bole-Tinga. Work in progress.
	Adansi - Asokwa Weigh Bridge Project	Renovation works	-	1.173	0.430	36.66	Paving grout completed. Renovation of buildings on-going.
MMU II	Koforidua - Suhum (Resealing/Partial Reconstruction)	Resealing/Partial Reconstruction	29	7.003	0.024		
	Essuehyia - Otuaam Road Phase II	Rehabilitation	6.3	2.300	1.700	92.00	Sealing works on-going
BMU	Kaneshie Foot Bridge		-	0.044	0.024		
	Repair of 50 Bridges in 10 Regions	Repair Works	-	1.500			
	Yensiso Bridge	Repair Works	-	0.017	-	60.00	Damaged parapet wall replaced with steel railings. Sealing of crack in abutment stem on hold due to water level.
	Bridge at Nkumkum	Replacement of Deck	-	0.097	-	45.00	Extension of abutment complete.
	Bridge over R. Mogla at Nakpali	Construction of abutments and piers.	-	0.680	-	40.00	The base for the two abutments and two of the piers have been cast. The stem of one of the pier has been cast 2m above the base. Excavation for the last piers footing is not yet done due to high water level.

**Source: GHA Road Maintenance Division March 2017**

## 3.2 Plant & Equipment Division

### 3.2.1 Operations

In discharging its duties the Division was faced with challenges such as unavailability of funds to procure the needed general goods such as spare parts, oils & lubricants, tyres, batteries et cetera. This challenge is affecting adversely the operations of all our Workshops leading to poor repair and maintenance works on vehicles.

It would be appreciated if funds would be release timely and adequately to purchase spare parts and materials to enhance the outputs of our various workshops and Marine Units. This will ensure efficient use of funds and buying these items at competitive prices due to economies of scale.

We appeal to the Directorate to release funds regularly to enable us stock adequately our stores, with the under-listed consumables for the maintenance of our supervisory fleet of vehicles and heavy duty equipment as it also reduces the tendency of adhoc purchases from the various divisions and units leading to inefficient use of resources.

- i) Tyres of various sizes.
- ii) Vehicle batteries of various capacities.
- iii) Fuel and Oil filters.
- iv) Oils and Lubricants.

### Central Mechanical Workshop

During the quarter, out of 116 jobs received at the Central Mechanical Workshop 98 were completed while 18 are still outstanding.

The summary of the jobs received and completed at the various sections are as follows:

**Table 20: Details of Completed Jobs (GHA)**

MONTH SECTION	January		February		March		TOTAL	
	Recd.	Comp.	Recd.	Comp.	Recd.	Comp.	Recd.	Comp.
LIGHT	12	12	16	15	19	18	<b>47</b>	<b>45</b>
ELECTRICAL	13	10	14	12	18	16	<b>45</b>	<b>38</b>
ENGINE	1	1	0	0	1	1	<b>2</b>	<b>2</b>
ANCILLARY	5	1	3	1	5	3	<b>14</b>	<b>5</b>
HEAVY	1	1	2	2	2	2	<b>5</b>	<b>5</b>
MACHINE	1	1	0	0	2	2	<b>3</b>	<b>3</b>
							<b>116</b>	<b>98</b>

Note: Recd = Received, Comp = Completed

Source: GHA Plant & Equipment Division March 2017

## Kumasi Zonal Workshop

### 3.2.2 Completed Jobs (Private Jobs):

Revenue generated from private jobs undertaken during the quarter amounted to Four Thousand Three Hundred and Forty Ghana Cedis (**GH¢4,340.00**) mainly from the heavy section.

### 3.2.3 Ferries

#### **M/S Sogakope**

The ferry has been slipped out of water during the quarter for welding and re – plating of some portions on the hull which is very weak, rusted and constantly developing leakages.

#### **M/S Okor**

M/S Okor has been slipped out of water and grounded over several years. The ferry is deteriorating at an alarming rate. We are appealing to management to auction it as scrap for a salvage value.

### 3.2.4 Stores & Supplies Section

The Stores and Supplies Division of Ghana Highway Authority is charged with the responsibility of;

- ❖ Procurement of General Goods (spare parts, oils & lubricants, tyres, batteries etc) using the guidelines of the Public Procurement Authority.
- ❖ Stocking of goods in designated warehouses at the Central and Regional stores.
- ❖ Issuing out of goods and as and when, necessary using requisitions submitted by the end users of the goods.
- ❖ Updating of stock levels of all goods at the warehouses quarterly and yearly.

### 3.2.5 Axle Load Control Programme

Seventeen (17) out of the Eighteen (18) stations were operational during the quarter under review.

The operations at all the weighbridge stations are detailed in Table 21 below.

#### 3.2.5.1 Mobile Vans

Three (3) out of the eight (8) Mobile Weighing Vans functioned effectively during the reporting period. These vans operated in the Ashanti, Upper East, and Greater Accra Regions. The remaining five (5) mobile vans had mechanical problems which have since been fixed.



### 3.2.5.2 High Speed Weigh In Motion (HSWIM)

Nine (9) HSWIM have been installed at Tema, Dawa, Nsawam, Elmina, Bolgatanga, Agona Junction, Boankra, Akom and Ngleshie Amanfrom. Four (4) out of the nine sites, namely; Ngleshie Amanfrom, Dawa, Elmina and Bolgatanga functioned effectively during the period under review.

**Table 21: Status of Permanent Weighbridge Stations (PWS)**

Town/City	Location	Strategy	Status	Remarks
1. Tema	Aflao-Elubo road (Coastal Corridor)	Corridor/cordon	Privatised	Operational. Rehabilitation of driveway required
2. Afienya	(Eastern Corridor)	Corridor/cordon	Privatised	Operational.
3. Asuoyeboah		Corridor/cordon	Privatised	Operational.
4. Yapei	Tema – Paga Road (Central Corridor)	Corridor	Privatised	Operational.
5. Bolgatanga	Tema – Paga Road (Central Corridor)	Corridor	Privatised	Operational.
6. Elmina	Aflao-Elubo road (Coastal Corridor)	Corridor	Privatised	Operational.
7. Agona Junction	Aflao-Elubo road (Coastal Corridor)	Corridor	Privatised	Operational. Additional parking space required.
8. Bogoso	(Western Corridor)	Corridor /Hotspot	Privatised	Operational. Renovation works completed. Rehabilitation of driveway and parking area required.
9. Offinso	Tema – Paga Road (Central Corridor)	Corridor/cordon	Privatised	Operational. Equipment to be upgraded. Additional Parking area required.
10. Boankra	Tema – Paga Road (Central Corridor)	Corridor/cordon	-	Operational.
11. Akatsi	Aflao-Elubo road (Coastal Corridor)	Corridor	Privatised	Operational. Parking area and driveway to be rehabilitated.
12. Mim		Hotspot	Privatised	Operational.
13. Sefwi Bekwai		Hotspot	Privatised	Operational.
14. Asokwa		Corridor	Privatised	Operational. Renovation works on-going
15. Jema	Tema – Paga Road (Central Corridor)	Corridor	Privatised	Operational.
16. Sawla	Fulfusu-Sawla	Corridor		Operational.
17. Damango	Wa-Sawla	Corridor		Operational.
18. Aflao Border		Hotspot		Not Operational

**Source: GHA Plant & Equipment Division March 2017**

### **3.2.5.3 Portable Weighing Scales**

Portable scales were deployed at Doboro, Juapong and Adidome for 24-hour monitoring of axle loads on the Ofankor - Nsawam, Asikuma - Ho and Sogakope - Adidome Roads respectively. However, the operation at Juapong was suspended in February due to operational challenges. The monitoring point at Juapong is to be relocated to Asikuma Junction on the Eastern corridor.

### **3.2.5.4 Axle Load Control at the Ports**

The axle weighers and portable weighing pads located at the Tema and Takoradi Ports were operational during the reporting period. Additional axle weigher is required at the Golden Jubilee Terminal to control over loading of trucks loading from that terminal.

### **3.2.5.5 Statistics from the Axle Load Stations**

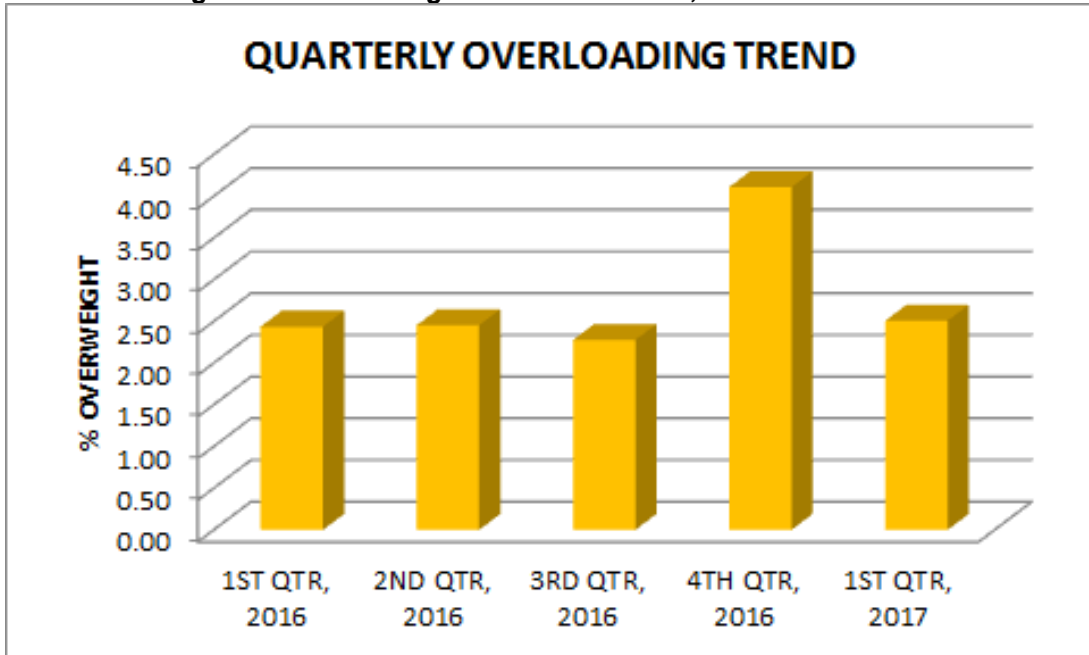
Statistics from the Permanent Weighbridge Stations (PWS) are provided in Figures 3 & 4. The data used for the analysis is gross weights of vehicles weighed at all the permanent weighbridge stations. The analysis showed that, 2.51% of total vehicles weighed were overloaded.

Figure 3 shows a significant decrease in the percentages of overloaded trucks from 4.11% at the end of the fourth quarter of 2016 to 2.51% at the end of the first quarter of 2017.

The Figure 4 illustrates the monthly overloading trend from January to March 2017. The trend showed a marginal increase in overloading from 2.3% in January to 2.7% March. However, the average percentage of overloaded vehicles at the end of the first quarter was 2.51%.

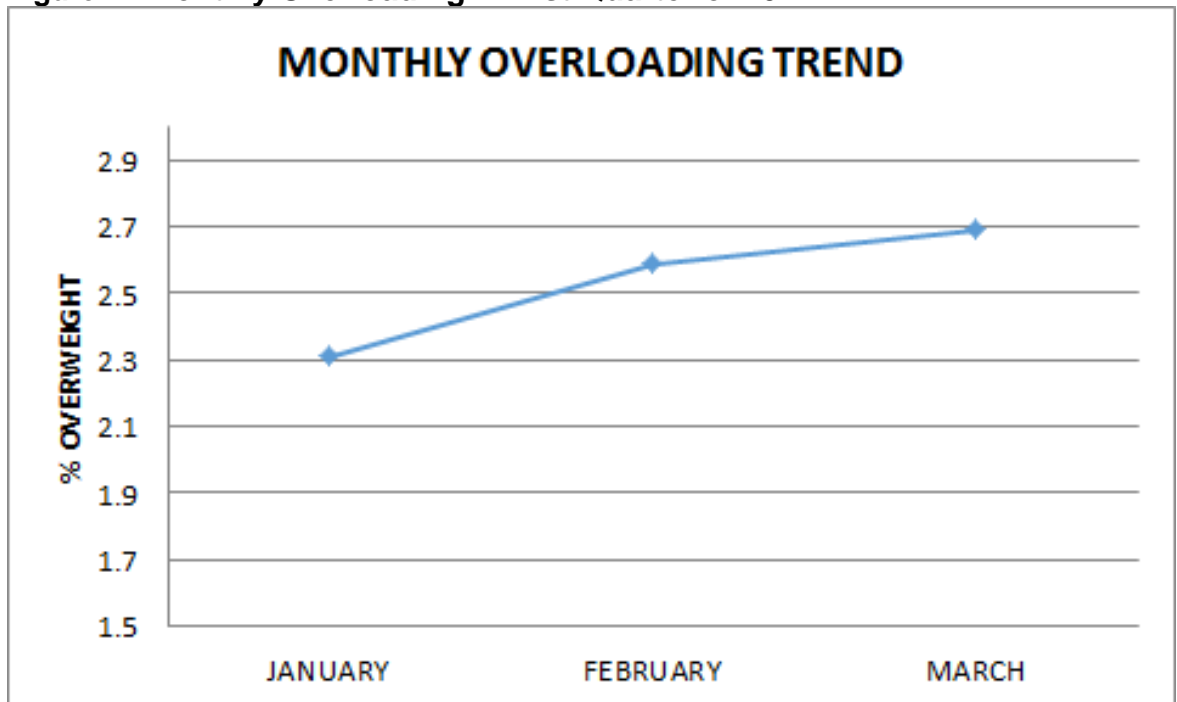
The levels of overloading at the permanent weighbridge stations along the various corridors during the first quarter are presented in Figure 5. The trend showed that, the level of overloading at Asuoyeboah, Tema and Sefwi Bekwai during the period under review was quite high. Education and sensitization would be intensified at these areas to reduce the level of overloading.

Figure 3: Overloading Trend - 1st Quarter, 2017



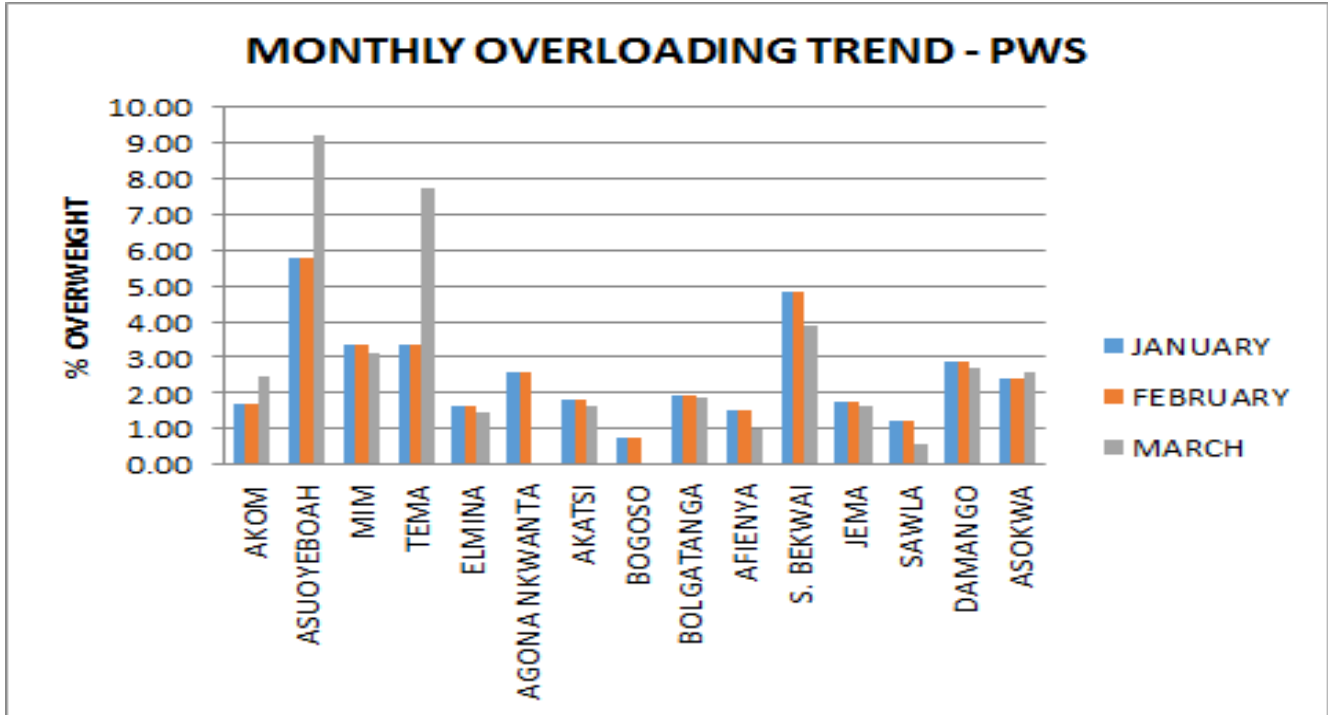
Source: GHA Plant & Equipment Division March 2017

Figure 4: Monthly Overloading – First Quarter of 2017



Source: GHA Plant & Equipment Division March 2017

Figure 5: Comparison of Monthly Overloading Trend at PWS



Source: GHA Plant & Equipment Division March 2017

## CHAPTER FOUR

### 4.0 DEVELOPMENT DEPARTMENT

#### 4.1 Bridges Division

##### 4.1.1 On-Going Bridge Projects

- ❖ Construction of Austrian Bridges on Wa – Walewale road (5No. Bridges).  
The project has been divided into five Lots:

**Lot 1.** Construction of Steel Bridge over River Gyanwali at Kundugu on the Yala-Kundungu- Sombisi Road. 35m Span. Progress is 80%.

**Lot 2.** Construction of Steel Bridge over River Kudage on the Sombisi – Tantali Road-35m Span. The overall percentage of work done on this lot is about 76%.

**Lot 3.** Construction of Steel Bridge over River Gongonwu on the Tantali –Tuvuu Road-35m Span. The overall percentage of work done on this lot is 100%. Final completion was conducted in March 2015.

**Lot 4.** Construction of Steel Bridge over River Gongonwu on the Tuvuu- Yikpabongo Road- 70m. The initial location of the bridge was changed due to accessibility problems. The bridge has been relocated to Nalerigu on the Karaga – Gushiegu – Nalerigu road in the Northern Region. The Contractor **M/S Jiangxi Zhongmei Eng. Const. Co. Ltd** has written to GHA to discontinue the construction of the bridge. Reconnaissance survey of the proposed location has been undertaken. GHA is waiting for the release of funds to commence the detailed studies. A new Contractor will have to be sourced after the completion of the detailed Engineering studies at the proposed location

**Lot 5.** Construction of Steel Bridge over River Kulpawn on the Luari-Jadima Road-140m. The overall percentage of work done on this lot is **24%**. The Contractor has suspended works due lack of payment.

**Lot 6. Construction of Steel Bridge over the White Volta River at Mishuo. (Steel bridge of total span 210m)**

**Contractor:** M/S Tass Kalia Ent. Ltd

**Contract Value:** GH¢20,965,811.09

**Award Date:** 4<sup>th</sup> May, 2016

The Contractor is mobilizing to commence works

### **Lot 7. Construction of Bridge over River Pra at Twifo Praso.**

A new bridge is to be constructed at Twifo Praso in order to separate vehicular traffic from rail traffic. It is a 175m span bridge comprising a steel section of 105m and a reinforced concrete section of 70m

**Contractor:** M/S China Railway No.5 Engineering Company

**Contract Value:** GH¢28,176,797.57

**Award Date:** 4<sup>th</sup> May, 2016

The Contractor is currently undertaking ground investigation.

- ❖ Construction of Toll plaza, office block at Akim Sekyere on the Anyinam-Nkawkaw Road. Progress is 100%. Substantial Taking over Inspection was undertaken on 29<sup>th</sup> December, 2015. Final completion inspection was done on the 15<sup>th</sup> of March 2017
- ❖ Construction of Toll Plaza at Badukrom on the Cape Coast – Takoradi Road. Progress is 12%. The Contract has been terminated.
- ❖ **Rehabilitation of Adomi Bridge.**  
Possession of site for the commencement of works at site was given to the Contractor on 10<sup>th</sup> March, 2014. Progress is 98%. Substantial Taking over Inspection was undertaken on 7<sup>th</sup> December, 2015. Project is in Defects Liability Period
- ❖ **Construction of six bridges in Northern Ghana funded by Danida.**  
The list of the bridges to be constructed under this project is as follows:  
Bridge No. 1 – Kulungugu – Upper East Region – 100m  
Bridge No. 2 – Garu (2no.) – Upper East Region – 100m  
Bridge No. 3 – Doninga – Upper East Region – 50m  
Bridge No. 4 – Sissili – Upper West – 125m  
Bridge No. 5 – Ambalara – Northern Region – 75m  
Bridge No. 6 – Kulun - Upper West – 100m

The design of the above bridges was undertaken by **M/S Grontmij A/S now Sweco in association with M/S HAG Consult**. Tender documents have been completed and have been submitted to GHA for review and comments. Pre-qualification of Contractors was completed within the quarter.

**Construction of bridge over the Volta River at Volivo and Dufor Adidome.** The Project consists of 540m long cable stayed bridge to be constructed over the Volta River. The bridge will have three spans (130m, 280m, and 130m). The project will enhance the capacity of the Eastern corridor roads and provides an alternative route across the Volta River apart from the Adomi Bridge. The loan agreement was approved by Parliament on 2<sup>nd</sup> November, 2016 and the loan agreement was signed on 30<sup>th</sup> November, 2016 between Government of Ghana and the Japanese Government. The amount of the loan facility is US\$100 million (11,239 billion Yen). As part of the project 70km new road will have to be constructed from Asutsuare junction through Volivo to Asikuma junction. The road project will be funded by the African Development (AfDB)

- ❖ Construction of ramps to existing 6 no. Foot bridges on the George Bush Motorway – (N1). Drawings for the ramps to the 6 No. Foot bridges have been completed. The Contractor has suspended works due to lack of payment.
- ❖ Construction of 4 Foot bridges on the Tetteh Quarshie – Madina road. Design of the footbridges has been completed. Drawing for the footbridges is 100% complete. Works have stalled due to lack of funds.
- ❖ Construction of two (2) underpasses on the George Bush Motorway – (N1). Review of design drawings is completed. Comments from the review of the drawing have been submitted to Contractors. Review of Bill of Quantities submitted by the Contractor has been completed.
- ❖ Construction of 6 No. Foot bridges on the Madina – Pantang road. The Contractor has suspended works due to lack of payment and site constraints.
- ❖ Construction of bridge over River Pra at Twifo-Praso. Works on the superstructure is ongoing.
- ❖ Construction of bridge over the White Volta at Mishuo. Procurement of Contractor has been completed. Request for commencement certificate has been submitted to the Ministry of Finance.
- ❖ Rehabilitation of the Dunkwa Bridge. Preparation of Tender document has been completed. Approval has been granted by the Ministry of Roads and Highways to advertise the works. Advertisement of the works has been undertaken. Tender
- ❖ Rehabilitation of the Nasia Bridge on the Tamale – Bolgatanga road. The Contractor is mobilizing to site
- ❖ Rehabilitation of the Pwalugu Bridge on the Tamale – Bolgatanga road. The Contractor is mobilizing to site
- ❖ Reconstruction of the Iture Bridge over the Sweet River on the Cape Coast – Takoradi road. Inspection report has been submitted to the Ministry of Roads and Highways. BMU has completed the repair works on the bridge. Messrs Sonitra has submitted a Technical and a financial proposal. Evaluation of the Technical and Financial proposal is ongoing
- ❖ Rehabilitation of the Ankobra Bridge and the Lower Volta Bridge Replacement of Expansion joints). Inspection of the bridges has been undertaken. Request for approval to sole source Aquatec Marine International for the under water investigation of the bridge foundations has been submitted to the Public Procurement Authority.

Construction of bridge over River Bechelihi and River Navaribie on the Navrongo – Chuchuliga – Tumu Road. Design drawings have been completed and forwarded to Ministry of Roads and Highway for approval.

- ❖ Replacement of existing bridge over River Luwhe. Contractor has submitted design drawing to GHA for review. Comments from the review of the design drawing have been sent to the Contractor for modification.
- ❖ Rehabilitation of the Lower Volta Bridge (Replacement of Expansion joints). Approval has been granted by the Public Procurement Authority to sole source Messrs Mageba for the replacement of the expansion joint. Quotation was received from Messrs Mageba in US dollar but has been asked to resubmit quotation in Ghana Cedis.

❖ **Construction of two lane underpass to link Spintex and East Legon**

Review of Technical and Financial proposal submitted by M/s Sonitra Ltd has been completed. Request for approval to award the contract has been made to the Ministry of Roads and Highways.

**4.1.1.1: Bridge Maintenance Units Activities**

- ❖ Repair of Yensiso Bridge. Progress is 60%
- ❖ Repair of the Buipe Bridge over the Black Volta. Progress is 100%
- ❖ Repair of Kulungugu Bridge. Progress is 60%

**4.1.1.2: Bridge Management & Maintenance System (BMMS)**

The project has been divided onto four lots. Procurement of Consultants has been completed. Preparation of Contract document has been completed and the contract agreement has been signed. The Consultants has been given asked to submit their programme of works for review.

Lot 1 will be undertaken by M/S Delin Consult

Lot 2 will be undertaken by Associated Consultants Limited

Lot 3 will be undertaken by Messrs Comptran Engineering Planning and Associates

Lot 4 will be undertaken by Messrs Hag Consults

Notice to commence works letter has been issued to the Consultants.



## 4.2 Contracts Division

### Budget for the year

The total budgetary provision for all the projects this year is Two Hundred and Twenty Two Million, Two Hundred and Seventy-Seven Thousand, Four Hundred and Eighty Nine Cedis, Twelve Ghana Cedis- Twelve Pesewas (**GHC 222,277,489.12**). It covers an aggregate of 194.90km of the trunk road sections in Ghana, which are either under rehabilitation or being improved to provide a satisfactory level of service to the motoring public.

### On-Going Projects

There are currently Fifty five (55) ongoing road projects. Forty of these are being funded by Government of Ghana (GoG) and the remaining fifteen (15) by Development Partners, namely BADEA, IDA, AfDB, KfW, EU, SAUDI Fund and ECOWAS.

As of March 31<sup>st</sup>, 2017, Five (5) projects have been completed and Fifty (50) were in progress and at various levels of completion.

The status of ongoing development projects are shown in Appendix B.

### Procurement

No new projects commenced in the course of the reporting period. However, the Division in the reporting period assessed some Danish Contractors who applied to be pre-qualified for Construction of Bridges in the Northern Regions. Their documents were evaluated and two Danish Contractors were pre-qualified on merit. Tender Documents will soon be furnished to these Contractors and the most competent one selected to implement the works.

### Projects Substantially Completed Over the Period

The following projects were substantially completed and were handed over to the Authority in the quarter under review.

- Construction of Oil and Gas Enclave Roads(Construction of 10Km road along the pipe-line including the Amazure Bridge) – Funded by Ghana Gas Company
- Rehabilitation of Tarkwa - Bogoso - Ayamfuri Road(94.4km): Tarkwa Bogoso Section (30km) – Funded by European Union (EU)

### 4.3 Materials Division

The Materials Division of Ghana Highway Authority is made up of five (5) sections namely:

- ✚ Soils and Aggregates
- ✚ Foundations
- ✚ Pavement
- ✚ Bituminous Products
- ✚ Research

All these sections in addition to their peculiar assignments trained newly recruited engineers, students on industrial attachment and National Service Personnel.

#### **The Soils and Aggregates Section undertook the following**

- ✚ Testing of construction materials and causes of distresses on roads and structures.
- ✚ Laboratory analysis and research into the use of new materials and chemicals, to ascertain their effectiveness in the improvement of road pavement materials.
- ✚ Equipment Calibration.
- ✚ Concrete Mix designs

#### **The pavement section conducted the following activities;**

- Performed deflection tests on the following roads:
  - a) Accra – Tema Motorway Roundabout
  - b) Bunsu Junction – Anyinam – Konongo – KNUST, Kumasi Road

#### **The foundation section reviewed of progress reports from the following road projects**

- ✚ Review of progress reports from road projects

#### **Bituminous Products**

The Bituminous Products Section undertook the following activities during the quarter under review:

- Tests on bitumen samples and asphalt mixes submitted by Bitumen Marketers, Contractors and Consultants.
  - Asphaltic Concrete mix designs checks for Eastern Corridor Road (Asikumah Jnc – Hohoe – Jasikan Road), Accra-Tema Motorway Roundabout Improvement Works and core density tests on some portions of Urban Roads in Accra, Tema, Takoradi and Ho Town Roads
- Table 22 shows the details of various test that were carried out during the quarter

**Table 22: Materials Test Results**

**Table 2 TREND OF INTERNALLY GENERATED FUND - 1st QUARTER, 2017**

SOURCE	MONTH			No. OF TESTS	AMOUNT IN Gh. CEDIS			TOTAL IN Gh CEDIS
	JANUARY	FEBRUARY	MARCH		JANUARY	FEBRUARY	MARCH	
Concrete test	111	203	216	530	3,330.00	6,100.00	6,480.00	15,910.00
Shmidt Hammer	-	-	-	0	-	-	-	-
Pavement Investigations	0	0	1	1	-	-	8,000.00	8,000.00
Aggregate tests	6	9	5	20	1,475.00	3,030.00	1,793.00	6,298.00
Bitumen Tests	13	15	12	40	21,635.00	27,885.00	34,735.00	84,255.00
Soils tests	7	11	3	21	13,090.00	18,560.00	3,040.00	34,690.00
Equipment Calibration	2	3	2	7	2,400.00	3,600.00	2,400.00	8,400.00
Foundations & Geotechnical Inv.	0	1	0	1	-	7,875.00	-	7,875.00
<b>GRAND TOTAL</b>	<b>139</b>	<b>242</b>	<b>239</b>	<b>620</b>	<b>41,930.00</b>	<b>67,050.00</b>	<b>56,448.00</b>	<b>165,428.00</b>

**Source: GHA Materials Divisions March 2017**

## 4.4 Planning Division

The Planning Division is responsible for the planning of the trunk road network and the establishment of reliable traffic data base in the country. The Division is also responsible for the initiation, identification, and preparation and monitoring of all GHA development projects and road project components of all regional corridor programmes involving Ghana and other countries in the sub-region. Additionally, the Division provides the main link between the Authority and Development Partners for the efficient coordination of road projects and related facilities.

The Planning Division in pursuance of the foregoing operates through the following sections:

- ✚ Strategic Planning, Monitoring and Evaluation(SPME)
- ✚ Development Project Planning(DPP)
- ✚ Public Private Partnership(PPP)
- ✚ Transportation Economics (TE)

### 4.4.1 Projects Objectives

Generally the objectives of the road projects are to reduce poverty and boost economic development by reducing road accidents, travel time and Vehicle Operating Cost (VOC). This result in reduced road user cost for both passengers and freight.

These objectives are achieved through (i) Procurement of Consultants for specific engineering tasks and (ii) Co-ordination of activities with Development Partners. The major procurement activities undertaken included preparation of Terms of Reference, Request for Proposals, Evaluation of Proposals and preparation of Consultancy Contract Agreements Planning, Mobilization and implementation of PPP projects according to national laws and regulation through coordination with the Ministry of Roads and Highways and Ministry of Finance on all issues relating to PPP.

Table 23 shows the number of Consultancy Services for design studies, Technical Assistance and works supervision accomplished within the quarter.

Details of statuses of on-going Consultancy on on-going projects are as shown in Table 24 below

**Table 23: Services Accomplished during the Quarter**

AGENCY	DESIGN STUDIES/ TECHNICAL ASSISTANCE	WORKS SUPERVISION	DESIGN AND CONSTRUCTION SUPERVISION	REMARKS
World Bank	1	6		One(1) is suspended, two(2) is in defect liability state, two(2) is on-going, contract is yet to be signed on one(1) and one(1) yet to be handed over
Danida		3		one (1) suspended, two (2) are on-going
AfDB	3	3		four (4) project has being completed, one(1) is on defect liability state, one (1) submitted final report
Brazilian Funded Project		3		All project is on-going
European Union		2		
JICA		2		All project is on-going
GOG		4		Contract was signed for the first quarter.
PPP	3			All project is on-going

**Source: GHA Planning Division March 2017**

**Table 24: Status of On-going Consultancy Services**

2016 FOURTH PROGRAMMES/ PROJECTS-PLANNING									
Item	Contract Description	Contract/ Supplier/ Consultant	Services Contract In Dollar Amount (\$)	Services Contract In Ghana Cedis (GHS)	Date Signed Mm/dd/yr	Contractual Start Date Mm/dd/yr	Contractual Completion Date Mm/dd/yr	Extended Completion Date Mm/dd/yr	Remarks
<b>PROJECTS ON TSP</b>									
1	Construction Supervision of Rehabilitation of Ayanfuri-Asawinso Road (Lots 1)	GHA	\$ 20,694,136.81	GHC 13,641,596.55	1/10/2013	15/02/12	1/4/2015	31/12/2016	Progress of works as at November 2016, Lot1 96.03% achieved as against 99.28%. GHA took over as the consultant on the project on 1st August 2016. The consultant is preparing for a new schedule since the completion date will be changed.
2	Construction Supervision of Rehabilitation of Ayanfuri-Asawinso Road (Lots 2)	GHA	\$8,440,000	GHS 29,300,000.00	1/11/2013	15/02/13	1/5/2015	31/12/2016	Progress of works as at August 2016, Lot2 95.46% achieved as against 98.9%. Contractor is facing compensation problem
<b>PROJECTS ON ALTFP</b>									
3	Consultancy Services for the Supervision of Rehabilitation of Agona Junction-Elubo road. Lot1	K2 and Associate, Inc.	\$22,168,060.23	GHC 15,215,000.00	15/08/2012	24/08/2012	08/01/2015 <sup>*</sup>		The substantial completion date was held on 17th November 2016.
4	Consultancy Services for the Supervision of Rehabilitation of Agona Junction-Elubo road. lot2	K2 and Associate, Inc.	\$20,380,000	GHC 29,925,000.00	15/08/2013		6/10/2015		The substantial completion date was held on 18th November 2016.
5	Consultancy Services for the Supervision of Rehabilitation of Agona Junction-Elubo road. lot3	K2 and Associate, Inc.	\$22,090,000	GHC 15,869,000.00	15/08/2014		6/11/2015		Project is completed on 25/04/16. Project is in defect liability period.
6	Construction of Anyaado Rest Stop	Bans Consult		GHC 323,809,250.00	15/03/13				The project is ongoing. As at the end of May 2016 the contractor has completed substructure. Which is about 30% of the work done. The project is lacking funds.

PROJECTS ON AfDB									
7	Lot 1: Asutuare Junction –Asikuma Junction and Asutuare-Aveyime Junction Road	MCV Inc.,USA	\$37,937,000		8/8/2014	8/9/2014			GHA has reviewed the draft final report to AfDB. The consultant is preparing the final design report. The consultant did a presentation on the draft report on 12 October 2016.
8	Fufulso–Sawla Road Project (Technical Assistant to Project Co-ordination Unit)	O&A Consult	\$687,917		4/4/2012	4/5/2012	30/09/16		The contract has ended with a presentation of the final report in 22 November 2016
9	Fufulso-Sawla Road Project (Project Impact Monitoring and Evaluation)	Ablin Consult		GHC 999,976.00	Jun-13	Jul-13	Dec-16		The contract has ended with a presentation of the final report in December 2016
10	Economic Feasibility and Detailed Engineering Design For the Reconstruction of Busunu-Daboya Road (53.5km)	Comptran/ Daoitech Design Group	\$597,050		3/9/2014				AfDB has reviewed the Economic Feasibility report and the project has been found uneconomical. This has resulted in the closure of the detailed engineering and the reconstruction stage.
11	Fufulso-Sawla Road Project Lot 1 & Lot 2	ICT/Twum Boafo& Partners	\$8,193,956		30/08/11	3/1/2012	2/1/2015	Nov-16	Final taken over meeting was held in November 2016 with an inspection.
12	Fufulso-Sawla Road Project Lot 2	ICT/Twum Boafo& Partners	The figure above also covers Lot 2		30/08/12	3/1/2012	2/1/2015	Jul-17	Final taken over inspection will be held in July 2016. Defect liability period has been extended.
PROJECTS ON DANDA									
13	Consultancy Services for Detailed Design of Takoradi-Agona Junction Road	Danida				28/11/12			GHA has reviewed the final detailed design report from Ablin Consult. Construction has not began because Danida has suspended the works or construction.
14	Rehabilitation of Benchema-Adwufia Road								An ORIO Team visited Ghana for discussion on the way forward. GHA has written to MOF through MRH to facilitate the process to sign the loan agreement and source for additional funds for the construction supervision services.
15	Consultancy Services for Design Development, Detailed Design, Tender Document Preparation, Tendering Assistance and Construction Supervision of New Bridges in Northern Ghana	GHA	\$4,774,000						
BRAZILLIAN FUNDED PROJECT									
16	Lot 5: Oti Damango-Bimbilla-Yendi Road	Associated Consultant	\$113,492,000			3/2/2014			Consultancy services is ongoing. Contractor is facing cash flow problems .
17	Lot 6: Yendi-Sakrogu-Nakpanduri Road	Associated Consultant				3/3/2014			
18	Consultancy Services For Consultancy Supervision Of Bolgatanga-Bawku-Polmankon Highway Including Bawku Bypass-109KM								The contractor Queiroz Galvao went on site on 5th September 2016. Precommence meeting was held on 20 July 2016. Procurement for Consultant is in process.

PUBLIC PRIVATE PARTNERSHIP									
19	Accra-Tema Motorway Expansion	Messrs Roughton International		GHS 1,811,371.88 Phase 1 (Feasibility Studies) and GHS 266,916.88 Phase 2 (Procurement of Investors)		4/9/2016	1/1/2019		Transaction Advisory(TA) has been procured. Kick-off meeting was signed on 25th August 2016. An inception presentation was presented the Consultant on 28th September 2016. A Strength, Weakness, Opportunity and Treats (SWOT) analysis was also organised on 29th November 2016.
20	Accra-Kumasi Dualisation Project	Messrs PWC							The Consultant for the Transaction Advisory services has completed the Feasibility studies with recommendations to the Ministry Of Roads and Highway and GHA for further action.
21	Accra-Takoradi Dualisation Project	Feedback /GIBB	\$ 3,574,796.28						Transaction Advisory(TA) procured Messr Feedback/GIBB as consultant. The contract was signed for services on 23rd December 2016. The kick off meeting fixed for 16th January 2017.
22	Missions from Development Partners World Bank Missions								There was two Mission within the fourth quarter from JICA & TSIP. The mission started from 1-15 November 2016 on 21-25 November 2016 on another project (JICA) and October 10-14 2016(TSIP).
PROJECT ON JICA									
23	Construction of a New Bridge Across the Volta River on the Eastern Corridor Project	Central Consultant Inc. & Oriental Consultants Global Co. Ltd.				8/9/2014			The loan agreement was signed on 5th December 2016 between Government of Ghana and JICA at the at Ministry of Highways (MRH).
24	Project For The Improvement of the Tema Motorway Roundabout	CTI Engineering International Co. Ltd							JICA submitted the draft final engineering report in August 2016.GHA reviewed the report in November. In March 2017 JICA will submit the final design report. Works will start in 2018 but for the interim Meridian Port Services is constructing slip roads.
PLANING DIVISION									
25	Transportation Economy	GHA Planning Division							During the third quarter the section prepared the latest revision of the 2016 road fund budget for GHA. The total amount for the budget was GHS 75M.
26	Transport Sector Improvement Project (TSIP)	GHA Planning Division							The Unit evaluated three firms for the Tamale Yendi-Zabugu-Tatale road. The report has been sent to World Bank for "no objection."

Source: GHA Planning Division March 2017



## 4.5 Quantity Surveying Division

### 4.5.1 Interim Payment Certificates

A total of 198 certificates were vetted and passed at the close of the first quarter of the year 2017.

The breakdown is as follows:

- ✚ 21 Development Projects
- ✚ 177 Maintenance Projects

Table 25 gives details of certificates that were vetted and corrected.

**Table 25: Certificates Vetted & Corrected**

IPC	Project	Submitted Amount	Corrected Amount
		GH¢ & US\$	GH¢ & US\$
2	Upgrading of Twifo-Prasu – Assin Fosu Road	3,684,340.81	2,888,653.65
1	Construction of Speed Calming device on Bolgatanga- Bawku Roads	177,741.61	163,689.00
2	Pothole Patching and Repairs on Pwalugu-Paga Road	645,348.86	362,506.71
22A	Rehabilitation of Agona Elubo Road Lot 2	1,056,208.80 US\$72,986.33	281,101.84 US\$12,829.94
8	Upgrading of Nkoranza - Jema Road (km 0-15)	6,626,738.79	6,323,502.98
2	Grading and Ditching on Nkrankwanta-Koaze-Sampa Roads	359,743.56	354,355.56
2	Construction of Double Pipe Culverts on Fian-Wahabu Road	43,099.32	41,966.42
1	Pothole Patching and Shoulders repairs on Asamankese-Kade Subi Road	235,056.87	234,127.12
1	Upgrading of Dorimon- Black Volta Road	1,187,536.15	1,187,457.40
3	Pothole patching on Kwabeng Town Roads	68,286.00	67,154.94
1	Construction 1 No. Pipe Culvert on Saboba-Chereponi Road	23,221.04	18,541.04
9B	Upgrading of Walewale Gambaga Road	599,100.39	495,947.93
1	Grading and Ditch Cleaning on Abenase Pawudu Road	101,113.81	100,920.06
3	Reshaping and Spot improvement on Aboabo - Asikuma Road	612,663.24	547,686.86
6	Upgrading of Bame - Dzolokpuita Road	2,569,138.71	2,204,614.74
2	Upgrading of Abutia - Juapong Road	5,166,926.67	4,194,097.29
1 &	Pothole Patching and Shoulder Repairs on Winneba Town Roads	331,112.16	310,790.25

2			
1	Pothole Patching and Shoulder Repairs on Akuse junction – Asutuare- Somanya Road	122,844.26	117,836.79
3	Grading and Ditch Cleaning on Sabuso- Bondaso Road	114,744.70	114,724.44
1	Pothole Patching Mawle- Bamboi- Banda Road	84,249.82	75,672.82
1	Pothole Patching and Shoulder Repairs on Havedzi-Keta Road	287,415.99	256,106.18
2	Pothole Patching and Shoulder Repairs on Havedzi-Keta Road	311,792.28	281,733.36
1	Construction of U-drain at Sakumono Estate	44,299.20	44,169.20
1	Construction of U-drain at Sakumono Estate junction	45,153.60	45,093.60
1	Pothole Patching and Shoulders Repairs on Mpraeso- Adawso Road	372,812.88	370,280.84
1	Construction of U-drain at Sakumono Estate junction	45,365.96	44,829.06
4	Pothole Patching on Golokwati – Hohoe Road	88,473.19	47,118.62
1	Partial Reconstruction of Oda Ayerebi – Opare Road	12,270,193.40	11,045,456.17
1	Pothole Patching on Bolgatanga- Bawku Road	123,217.57	120,758.77
2	Construction of Bolgatanga Polimakom Road	18,145,461.14	16,330,915.03
7	Upgrading of Bame- Dzolokpuita Road	9,245,284.94	2,779,123.23
	<b>TOTAL</b>	<b>64,788,685.72</b>	<b>51,450,931.90</b>
		<b>US\$72,986.33</b>	<b>US\$12,829.94</b>
	<b>Savings</b>		<b>13,337,753.82</b>
			<b>US\$60,156.39</b>

**Source: GHA Quantity Surveying Division March 2017**

## 4.6 Road Safety & Environment Division

4.6.1 The Division has responsibility for the following areas

- ✚ Road Safety Audit;
- ✚ Road Furniture and Remedial works unit.
- ✚ Research, Monitoring and Evaluation unit.
- ✚ Environmental Management Unit.

### 4.6.1.1 Road Safety Audit (RSA)

- Road Safety Audit on Jema Nkwanta – Nkoranza Road
- Study for safety improvement of Bunso junction on the Accra – Kumasi road

### 4.6.1.2 Research, Monitoring & Evaluation Unit

Retroreflectivity test of road traffic signs for installation and line markings on:

- Upgrading of Daboase – Atieku Road Project. (7-33KM)
- Reconstruction/Upgrading of Nsawam – Aburi Road Project (KM 0-15.1)
- Routine maintenance of trunk roads – 2016:
  - i) Road line marking on Mankessim – Cape Coast-Asemasa Road project (km 25-50) Lot 10
  - ii) Mankessim – Cape Coast-Asemasa Road project (km25-50) Lot 11
- Upgrading of Dunkwa - Twifo Praso – Assin Fosu Road Project (Km 55-Km75)
- Asphaltic Overlay of Apedwa – Bunso Junction Road project
- Accra - Kumasi dualization project Kwafokrom – Apedwa Section (31km)
- Upgrading of Enchi – Dadieso Road project (30 -50km)

### 4.6.1.3 Road Safety & Remedial Work Unit

The unit undertook road safety inspection of the under-listed roads to ascertain status of road furniture in order to design intervention measures to avert possible road crashes and fatalities:

- Yendi – Tamale highway
- Yendi – Bimbilla highway
- Yendi – Sapigu – Chereponi highway
- Buipe – Pigu highway
- Tamale Salaga highway

#### **4.6.1.4 Environmental Management Unit**

The Unit continued to review, revise and update Environmental & Social Impact assessment reports and environmental management plans for road projects submitted by Consultants, notable among these is the environmental management plan of Bolgatanga - Polimakom road project.

#### **4.6.1.5 Review of Environmental and Social Management Framework (ESMF) and Resettlement Policy Framework (RPF)**

The Unit together with the other Safeguards officers of Urban and Feeder Roads assisted the Individual Consultant engaged by Ministry of Roads and Highways to review the 2007 ESMF and RPF. The main objective of the review was to incorporate into the 2007 ESMF and RPF the new concept of the output and performance-based contracting (OPRC) and public-private partnership (PPP) instruments for the management and maintenance of roads to be implemented under the Transport Sector Improvement Project (TSIP) and in future projects. Additionally, an Environmental Social Assessment (ESA) has been prepared for the TSIP, which deals with anticipated impacts associated with the Tamale-Yendi Road Project. Disclosure notices have been published in the national dailies and stakeholder consultations are currently ongoing.

#### **4.6.1.6 Rap Implementation on World Bank Funded Projects**

- **Ayamfuri – Asawinso Road Project (Transport Sector Project)**

The Unit together with a team from the World Bank undertook environmental and social monitoring on the Ayamfuri – Asawinso road project.

Issues dealt with during the mission were:

- **Compensation**

To date, a total number of one thousand, two hundred and eighty - five (**1,285**) PAPs have received their part or full compensation amounting to GH¢ **3,183,573.45** in both Lots 1 and 2. The Ministry of Finance (MOF) released GH¢ 1,346,417.34 at the beginning of the project for compensation payment, which has been exhausted. GHA is still awaiting the supplementary compensation approval from the Land Valuation Board and subsequent release of additional funds from MOF to settle all the outstanding compensation money due the PAPs. Breakdown of -outstanding payments are as follows:

<b>Expenditure</b>	<b>Amount (GH¢)</b>
PAPs	5,238,158.09
Consultancy fee	199,053.00
LVD Admin. Charges	656,633.00
GHA operational expenses	432,100.00
<b>Total</b>	<b>6,525,944.09</b>

- **The Grievance Redress Mechanism**

As part of the RAP implementation, GHA constituted a Grievance and Redress Committee to receive and settle claims and disputes amicably from aggrieved PAPs complaints. The Grievance Redress Committee comprises of officers of the Unit, Planning and Contracts Divisions, Assemblymen and representatives of NGOs within the project area. However, if PAPs are not satisfied with the committee's work, they have the right to seek redress in court. The grievances so far received have been complaints of inadequate compensation. These were resolved by visiting the properties with the PAPs to explain and justify the basis of the valuation. PAPs whose grievances are outstanding would be notified with an outcome when the Grievance Committee makes a decision.

- **Other issues**

The mission tasked the GHA to ensure the following measures are undertaken:

- The poor sanitary conditions on Contractors camp and site are improved
- Drains are properly backfilled.
- Social issues; especially over accesses in settlements and disagreement over social responsibilities of the Contractors are amicably settled.
- All outstanding compensation should be paid prior to demolition.
- The Resident Engineer and his supervision team were tasked to recommend solutions to improve safety of the road network within the Dominase Township.

- **Agona Junction- Elubo (ALTTFP)**

As part of the RAP implementation on the Agona Junction-Elubo project, an amount of **GH¢ 3,516,255.00** was paid to **1,278** PAPs in January 2017. So far the Project Affected Persons (PAPs) have received a total amount of **GH¢17,786,348.40**.

GHA is waiting for approval of final compensation values from the Land Valuation Division and release of funds from Ministry of Finance.

Meanwhile GHA has commenced the preparation of the RAP implementation report since the project is expected to close in June 2017.

## **4.7 Survey & Design Division**

The following areas of activities that the Division covered:

- Topographical Survey
- Road Geometric Design
- Right-of-Way Clarification
- Review and Checking of Design Drawings
- Site Meeting Attendance
- Site Inspections

### **4.7.1 Field Verification**

- Drainage design on the slope repairs and protection on Ayi Mensah – Peduase lodge - Aburi Road
- Land acquisition by Queiroz Galvao

### **4.7.2 In-House Survey and Design Works & Review**

The following Design drawings were reviewed and comments were forwarded to the appropriate Division for compilation:

- Construction of Likpe – Todome Cave Road (km 0+000 – 3+957)
- Sectional repairs & Asphaltic overlay of Abuakwa – Tepa Junction Road (N6/06) (km 0+000 – 22+025)
- Upgrading of Dunkwa – Awisem Road
- As - built drawings (Tarwa – Bogoso Section) for the Upgrading of Tarkwa – Bogoso – Ayamfuri Road Project

Survey and Design activities were carried out for the following roads:

- Afienya – Dodowa Road
- Nakpayilli junction – Kpandai Road
- Conceptual design of Kasoa – Winneba Road (Phase 1: Kasoa –Senya Breku)
- Mishuo Bridge survey

# CHAPTER FIVE

## 5.0 Conclusion

As reported in the last report, The Ghana Highway Authority in its 2000 – 2015 strategic plan proposed to achieve a road network condition mix of 70% good, 20% fair and 10% poor. With a projected improvement rate of about 7% per annum, it was envisaged that by the close of December 2015, the target road surface condition mix of 70% good, 20% fair and 10% poor would be achieved with adequate injection of resources. The road condition mix for the year 2015 stood at 58% good, 36% fair and 7% poor.

Due to inadequate funding from the Central Government in the area of expenditure under Goods and Services, Salary and Non Salary Related Allowances, the IGF potentials within the jurisdiction of Ghana Highway Authority (GHA) should be strictly and assiduously harnessed. This is to ensure that the Authority gets adequate funding to meet expenses to reduce tension in the System.

The Government has decided to introduce Revenue capping for Agencies including GHA to reduce Internally Generated Revenue to these Agencies.

To this end, GHA will have a reduction of about 34% of its IGF given to the Central Government. The effect is that, GHA's financial resource envelope will be affected greatly. This will lead to further accumulation of debts to Service Providers and also affect the operations of the Authority

## 5.1 The Way Forward

The Authority as always will strive to continue to uphold its set objectives, which are measurable, relevant, specific, achievable and consistent to its mission statement. The following objectives have been set out in the way forward

- ✚ Improving Road Condition by improvement and maintenance of the trunk road network
- ✚ Enforce Axle Load control laws to protect the investments made in roads.
- ✚ Open new Toll stations to ensure that funds are readily available for road maintenance
- ✚ Reducing Accident Fatalities on the trunk road network through improvement of safety measures
- ✚ Reducing Travel Time on heavily trafficked trunk road sections through grade separation.

- ✚ Ensuring that road development and maintenance programmes are executed with environmental and social mitigation measures
- ✚ Adequately recruiting, training and motivating all categories of requisite staff and providing the needed logistics to undertake the services.
- ✚ Take practical steps to reduce energy consumption.

## 5.2 Constraints

### Reduced Budget Allocation

It is important to note that GHA plays important role in the National Economy due to the nature of the service it provides. The approved budget for Goods and Services per month is GH¢24,809.75. This figure is not adequate to meet operational expenses of the Authority.

The total number of staff that exited in last year and the quarter under review was **117 whilst recruitment was only 7** over the stated period. Should this trend continue without any implementation of the GHA replacement plan, the staff will reduce so drastically that the Authority may not be able to meet its strategic objectives in the foreseeable future. This is a very serious issue considering that the Authority needs technical staff in all sectors of its operations

Other major constraints facing the Authority are categorized below:

- ✚ Over age vehicles in all the Departments of the Authority
- ✚ Urgent need for Laboratory Equipment for Materials Division to carry out test for the public to generate IGF and as well for their normal operations.
- ✚ Poor contractor capacity and performance.
- ✚ Delay in payment of compensation due to long valuation procedures and inadequate budgetary allocation.
- ✚ Inadequate release of funds for Recurrent, Investment and Capital Investments.



## **Inadequate Staff**

The technical staffing situation has become critical in some divisions and regional offices. Most of the Divisions are under-staffed in both technical and non-technical staff. Some of them are operating with only about 35% capacity of its technical human resources requirements and thus put immense pressure on existing staff, affecting efficiency in most Divisions.

## **5.3 Recommendations**

### **Hardware and Software Needs**

There is an urgent need for the Authority to acquire state of the art software for most of the divisions to bring efficiency in work output.

### **Training of Staff**

There is a need for periodic technical training of all categories of staff within the Authority through local/overseas short courses, workshops and further studies, to improve their skills to enhance their output and to discharge the various multifaceted tasks that must be addressed by the Authority.

## **5.4 Conclusion**

Despite all these challenges GHA continues to discharge its duties creditably. The GHA will also continue with its programs for the maintenance, rehabilitation and reconstruction of sections of the network to ensure reasonable level of service. The Ghana Highway Authority requires support from our development partners and GOG to be able to implement planned and approved programs.