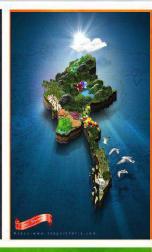


#### **MINISTRY OF CONSTRUCTION**



# Current Status and Way Forwards in Road Infrastructure of Myanmar



Ei Ei Myo Deputy Director, Department of Highways

Philippines



## Contents

- Profile of Myanmar
- Road Administration Organizations
- Overview of Road Network
- Accessibility & Mobility
- Public Private Partnership
- Way Forward Projects
- Conclusion

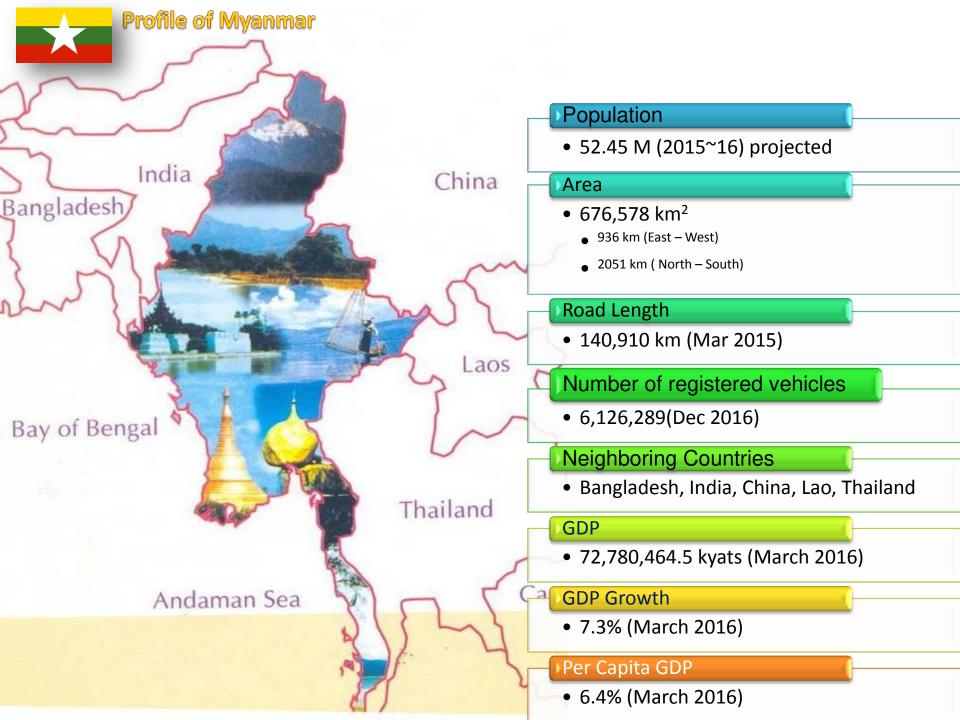






## **Profile of Myanmar**

NY WASHANN KON WANYAN WANYANA WANG SUMAN ANA SUMAN





YANGON	$\bigstar$
Area	
Population	
<b>Growth Rate</b>	

<mark>600</mark> sq-km	
7.0 million (2	010)
1.69 % (2010	)

MANDALAY	$\bigstar$
Area	
Population	

<mark>120</mark> sq-km 1.0 million (2010)

## NAY PYI TAW 🖈

Area	
Population	

<mark>7,057</mark> sq-km 1 million

Cities & Towns (Population more than 100,000) - 56 no.

 $\sim$ 

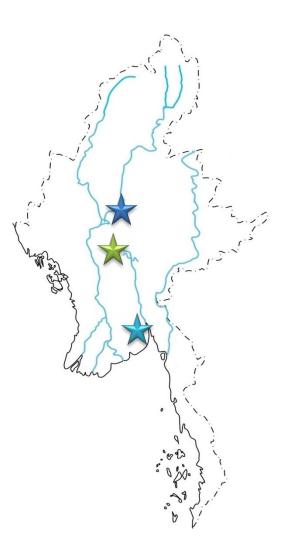
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## Road Administration Organization



#### **Transport Sector**

#### Administrative Organizations in Transport and Logistics



**Road Network** 

#### Total Road Mileage in Myanmar (as of March 2015) [in km]

No	Organization	Concrete	Bitumen	Metal	Gravel	Earth	Mule	Total	
1	Ministry of Construction								
	Highways	784.43	13980.43	1501.68	2146.4	1934.28	-	20347.28	
	Others	432.70	9008.76	2812.05	2817.48	4895.39	259.70	20226.08	
		1217.13	22989.25	4313.73	4963.88	6829.67	259.70	40573.36	
2	Ministry of Progress of Border Areas	-	893.36	5782.30		8167.12	-	14842.78	
3	Ministry of Livestock, Fisheries and Rural Development	705.68	3025.89	11806.63		50062.91		65601.11	
4	Ministry of Defense	393.47	703.97	1340.95	170.59	8722.31	-	11330.29	
5	Ministry of Electricity & Energy	92.34	88.50	542.13	97.97	303.15	-	1124.10	
	City Development C	ommittees							
6	Yangon	1916.27	1440.52	-	-	1121.48	÷	4478.27	
7	Mandalay	39.14	753.67	121.74	-	237.4	-	1151.95	
8	Naypyitaw	770.83	204.93	98.41	556.69	176.47	-	1807.33	
	Grand Total	5134.86	30100.10	24005.89	5789.13	75620.51	259.7	140910.19	

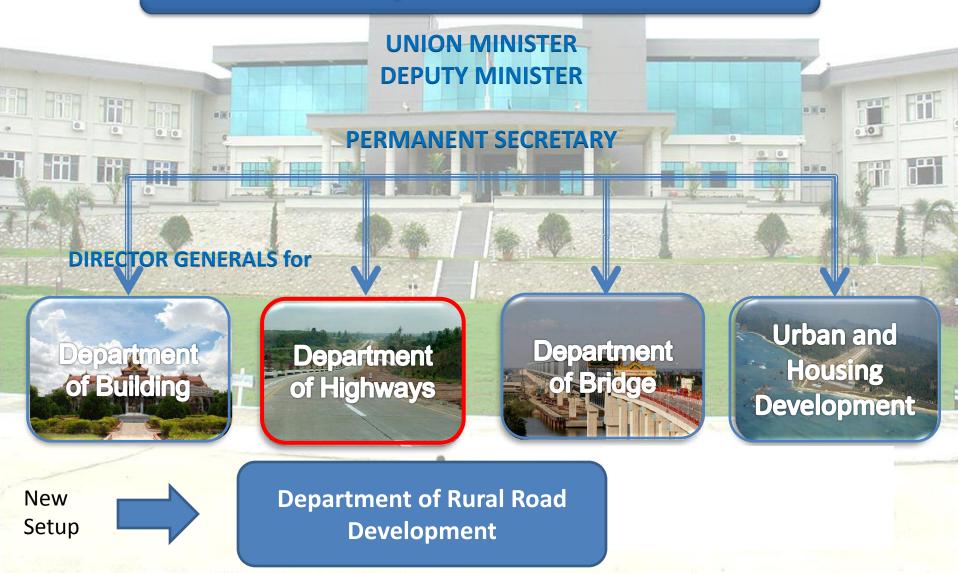




## **Overview of Road Network**



## **Ministry of Construction**





## Vision

- To enhance the Socio Economic Status of the people in the country by implementation of basic infrastructures such as roads, bridges and housing estates
- To ensure a balanced and sustainable urban and regional system throughout the country via developments of roads, bridges and housings.
- To contribute the GDP improvement by minimizing the transportation cost, reducing travel time by removing barriers as well as development of roads and bridges.
- To improve the quality of lives for the people of Myanmar by providing adequate and suitable housings.



## Mission

- To upgrade the existing roads in the road network to meet at least ASEAN Class III Standard (18 feet in width DBST) by 2030
- To upgrade the existing bridges to meet ASEAN Class III Standards with, 24 feet wide two way roadway permanent Bridge by 2030.
- To modernize the 367 towns all over the country with systematic urban planning and in these towns, provisions of apartments for 1 million households by 2030



Strategy

The projects will be carried out according to one of the followings:

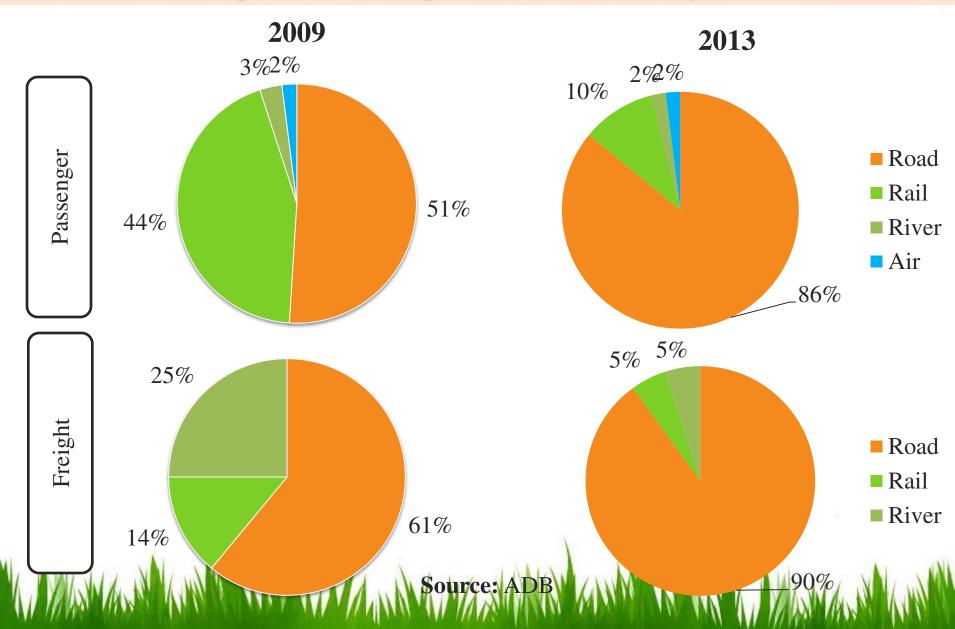
- For the potential projects, if possible, apply Public Private Partnership (PPP) for implementation with Win Win situation.
- Implement projects with the financing of Government
- Implement projects with the assistances like Grant, Aid, Loan from the development partners such as JICA, KOICA, ADB, WB as well as from the Donor Countries.
- To enact "Road User Tax Law" that will support the maintenance of roads and bridges network effectively.



## History of 30 Year Plan

- Ministry of Construction has already drawn 30 year plan (2001 ~ 2030) with six successive five year short term plans.
- In 2011, the 30 year plan was revised and updated. The remaining 20 year was drawn again with four successive five year updated short term plans.
- Under the new government, the plan was again reviewed and amended according to
  - the pledges to the Parliament,
  - the Arterial Road Network Master Plan by KOICA
  - National Transport Master Plan by JICA
  - In line with Political and Economic Policies.
- The remaining three successive five years plans till 2030 were updated.

#### Long Distance Transport Modal Share in Myanmar

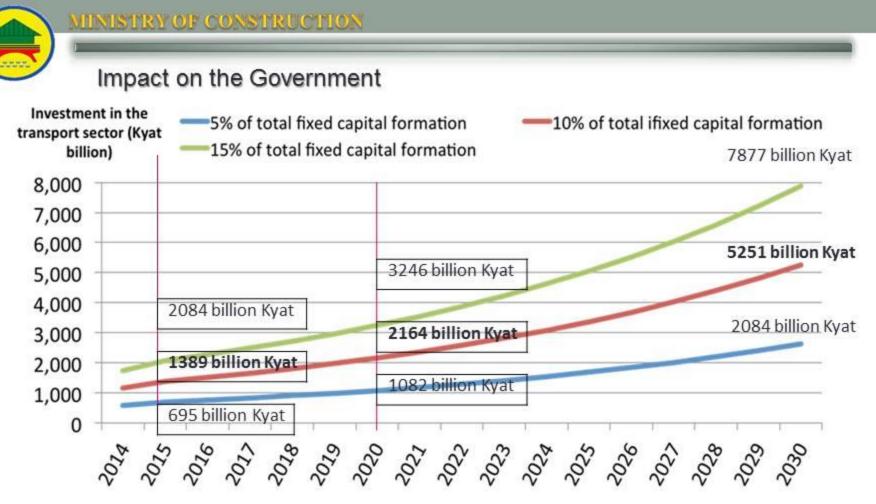




#### Investment Expenditures in the Transport Sector

Fiscal Year	Proportion to Total Fixed Capital Formation	Proportion to Total Government Capital Expenditure
2004-05	12.8	21.0
2005-06	14.4	29.7
2006-07	7.5	14.0
2007-08	6.9	13.5
2008-09	4.8	12.0
2009-10	5.3	13.4
2010-11	3.5	9.9

- Note 1: Higher level investment in 2004/05 and 2005/06 is due to Yangon Mandalay Expressway and Nay Pyi Taw development.
- Note 2: Transport capital expenditure: Union government budget + State administrative organization budget + state economic enterprises, calculated by MYT-Plan JICA Study Team from Myanmar Data CD-ROM 2010 and 2011



Investment expenditure in the transport sector

Scenario Fixed Capital Formation x (three levels: 5%, 10% and 15%)

- □ Accumulated investment amount from 2014 to 2030 (16 years):
  - 24 trillion kyat (5%)
  - 48 trillion kyat (10%)
  - 72 trillion kyat (15%)

Exchange rate (2017) 1 US\$ ~ 1350 kyats

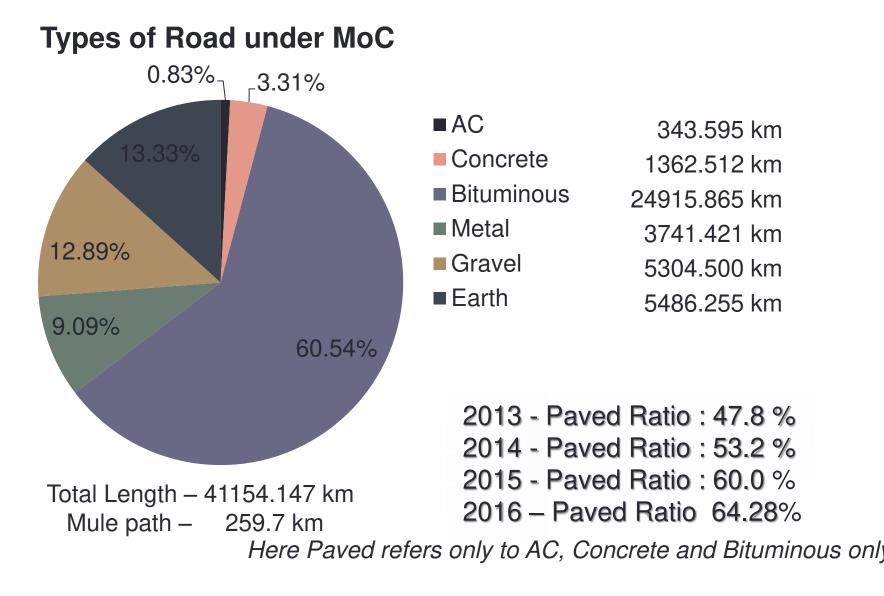
**Road Network** 

#### Road Data in States and Regions under MoC (as of March 2016)

	Region/			Bitumen						
No	particular and a second se	AC	Concrete	Up to 12'	Up to 22'	Over 24'	Metal	Gravel	Earth	Total
1.	Kachin		28.566	584.494	275.902	226.113	461.077	905.256	1087.514	3568.922
2.	Kayar	-		484.915	136.090	14.585	33.595	63.469	218.569	951.223
3.	Kayin		1.207	559.951	225.509	210.723	44.559	419.636	503.121	1964.706
4.	Chin	-	1.207	595.860	13.478	11.064	450.214	288.274	610.344	1970.441
5.	Sagaing		163.650	1451.427	586.204	367.333	886.044	758.705	473.348	4686.711
6.	Tanintharyi	95.957	70.811	240.396	726.619	64.776	94.951	111.447	102.998	1507.955
7.	Bago	2	19.413	735.470	460.976	479.283	194.529	79.160	74.332	2043.163
8.	Magway	-	0.604	1472.047	1459.172	98.371	225.811	253.069	19.916	3528.990
9.	Mandalay	-	48.783	635.188	1016.502	615.976	13.780	57.333	48.683	2436.245
10.	Mon	-	0.604	326.898	272.080	337.359	-	11.869	1.811	950.620
11.	Yakhine	16.093	123.618	951.726	77.047	13.679	433.014	167.171	121.103	1903.451
12.	Yangon	2	268.157	198.855	356.369	167.674	-	4.225	31.181	1026.461
13.	Shan(South)	-	0.805	2268.270	541.041	131.262	117.884	317.544	481.496	3858.302
14.	Shan(North)	131.162	-	1766.255	180.247	395.396	458.361	987.031	1163.455	5081.907
15.	Shan(East)	-	24.542	647.560	181.152	99.176	246.028	361.599	233.355	1793.412
16.	Ayeyarwady	-	43.050	1002.420	805.678	151.982	81.574	418.631	314.224	2817.559
17.	Naypyitaw	-	78.254	92.537	114.465	88.313	-	100.081	0.805	474.455
18.	Y-M Exway	100.383	489.241	-	-	-	-	-	-	589.624
	Grand Total	343.595	1362.512	14014.26 9	7428.531	3473.06 5	3741.42 1	5304.500	5486.255	41154.14 7

**Road Network** 









## **Accessibility and Mobility**



#### **Road Sector Developments**



#### Pathein – Monywa Highway

#### Yangon – Mandalay Expressway

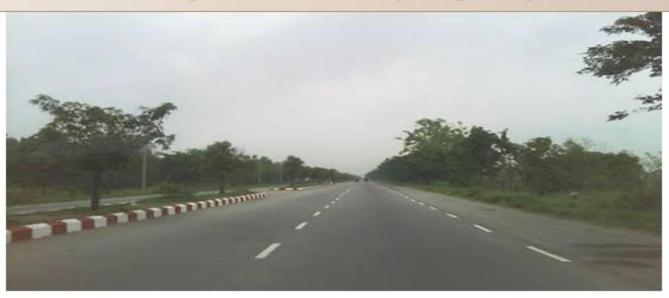


#### Minbu – Ann Highway

Dala – Twantay Access Road



#### Yangon – Mandalay Highway



## Payagyi - Thahton Section





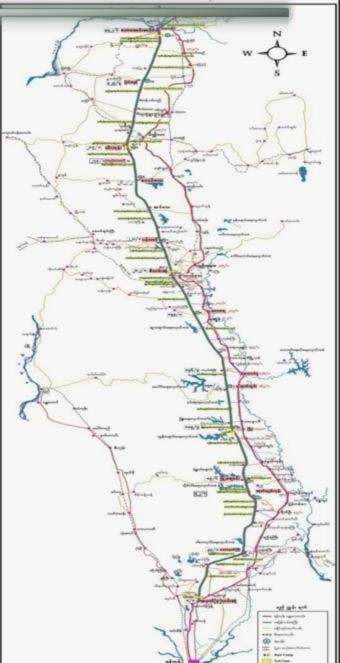


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## Yangon - Mandalay Expressway

S. N	Section	Construction Period	Length (km)	Service to Public
1	Yangon - Naypyitaw	10/2005 – 3/2009	323.4	25-3-2009
2	Naypyitaw - Sakainn	7/2008 – 12/2010	241	29-12-2010
3	Sakainn – Tadaoo - Tagonedine	1/2011 – 12/2011	21.8	23-12-2011
	Total Length		586.2	







#### Yangon – Mandalay Expressway



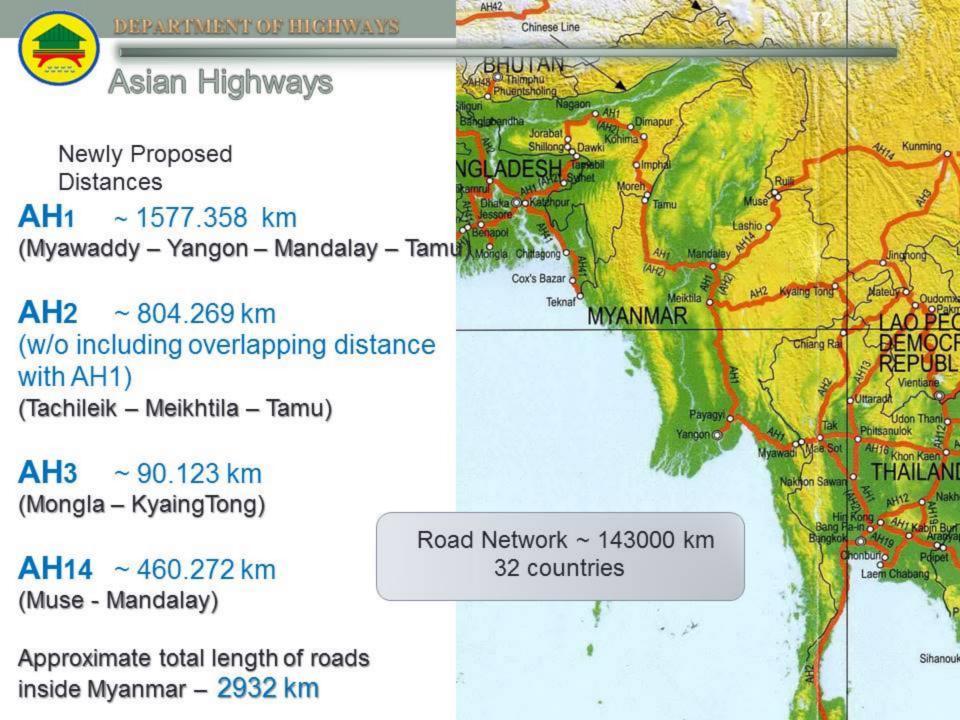




#### Yangon – Mandalay Expressway (Final Phase)







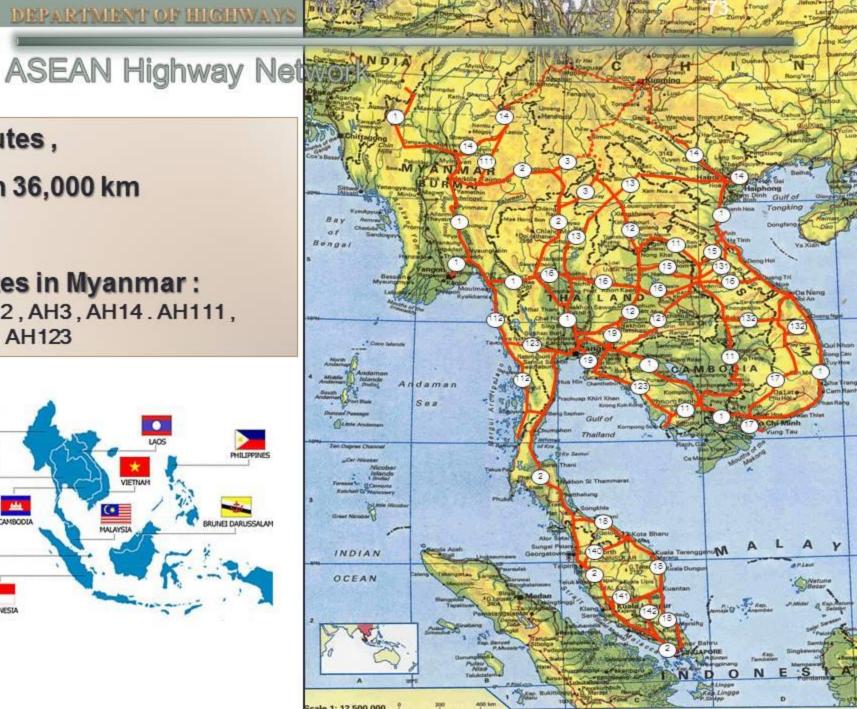


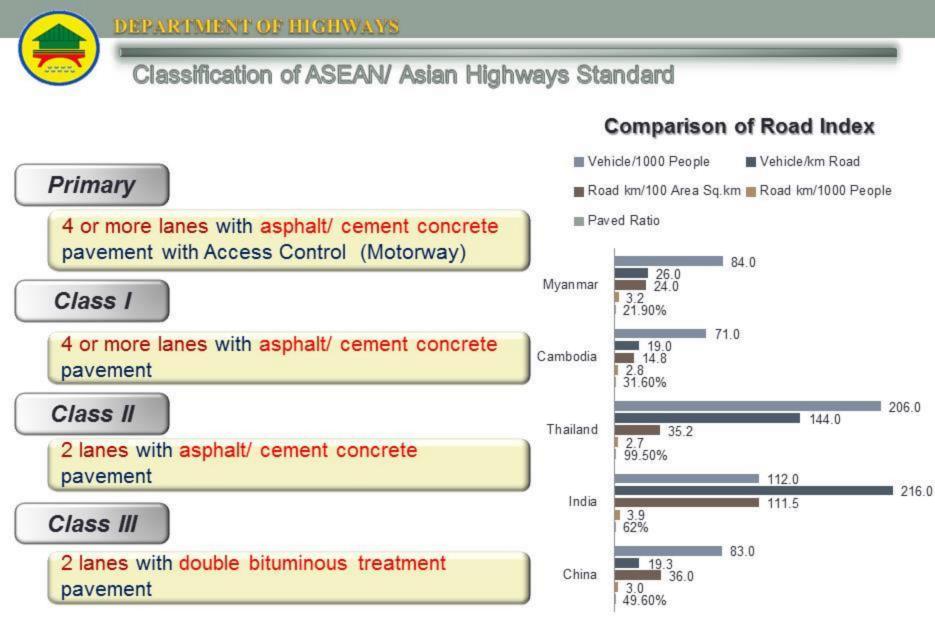
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Length 36,000 km

7 Routes in Myanmar : AH1, AH2, AH3, AH14. AH111, AH112, AH123



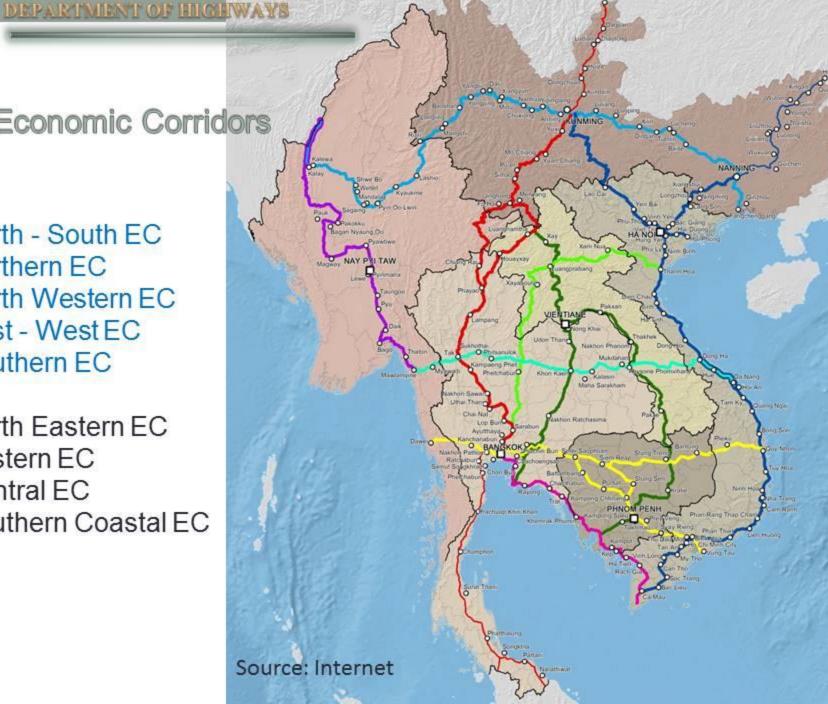




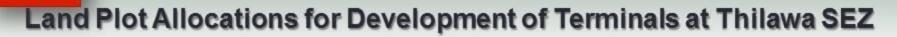
**GMS Economic Corridors** 

North - South EC Northern EC North Western EC East - West EC Southern EC

North Eastern EC Eastern EC Central EC Southern Coastal EC

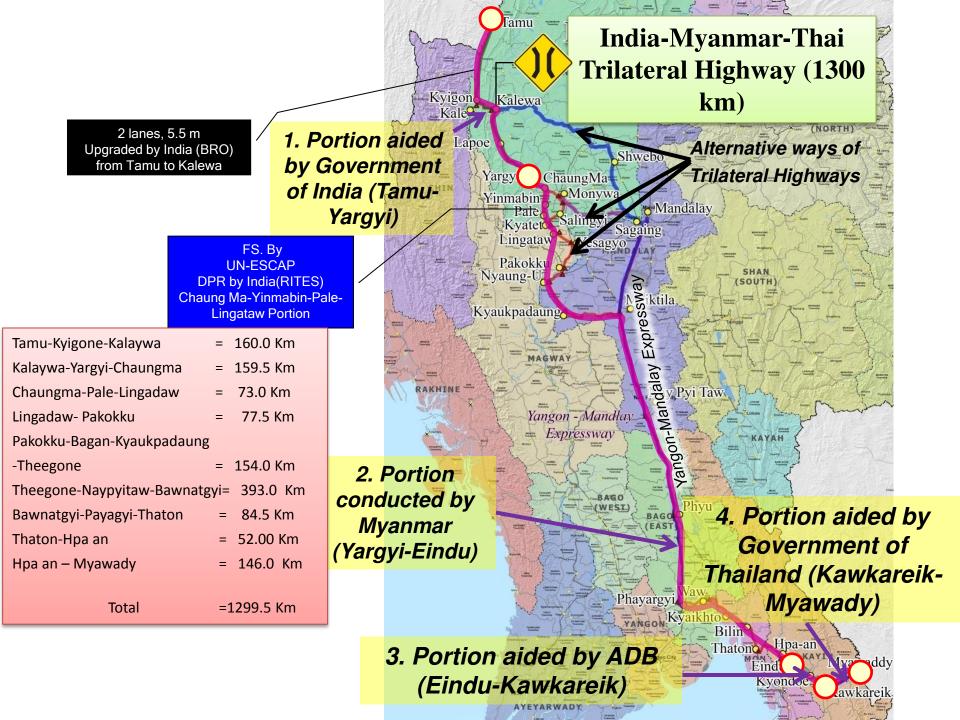


**Transport Sector** 





1.	Developed	10	Plots
2.	Under Construction	5	Plots
	(GC Terminal)		
3.	Under Construction	$10^{1/3}$	Plots
	(Tanker Berth)		
4.	Under Construction	$5^{2}/_{3}$	Plots
	(Grains Terminal)		
5.	MPA(ODA Loan)	5	Plots
6.	Liquid Bulk Terminal	1	Plots







## **Public-Private Partnership**



#### **Transport Sector**

#### **Private Sector Participation in Road**

### Build – Operate – Transfer (BOT)

Public – Private Partnership (PPP)

- Partnering Bodies Ministry of Construction and Local Private Companies Established in- 1996
- First BOT Road Mandalay-La
- First Partnering Local

Number of roads

Companies

- Mandalay-Lashio-Muse-Nankham Road (480.2 km)
- (1) Diamond Palace Company (293.9 km)
- (2) (Asia World) Oriental Highway Company (216.3 km)

## Under BOT scheme (as of 29th September 2016)

Number of local companies - 26 companies

- 64 roads
- Total length of BOT roads 3308 mile 3.5 furlongs (5324.41 km) MIC permit-60 roads

Roads managed by MoC (exclude BOT)

86%



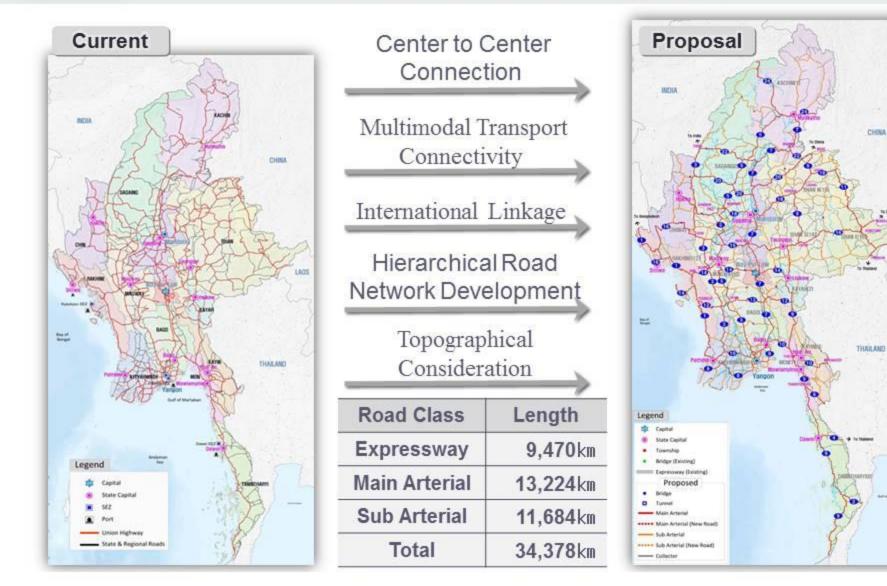
## List of BOT in States/ Regions (28) Local Companies

Kachin	• 302/2 mi (15 %)
Mon	• 161/1 mi (14 %)
Kayin	• 161/2 mi (14 %)
Kayah &Chin	No BOT Miles
Sagaing	• 324/2 mi (11 %)
Tanintharyi	• 169/5 mi (20 %)
Bago	• 462/3.5 mi (34 %)
Magway	• 367/7 mi (18 %)
Mandalay	• 666/4mi (46 %)
Rhakine	• 112/2 mi (10 %)
Yangon	• 266/4 mi (44 %)
Shan (East)	• 102/2 mi (4 %)
Shan (South)	• 203/4 mi (6 %)
Shan (North)	• 329/2 mi (24 %)
Ayeyarwaddy	• 146/4 mi (11 %)

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**Arterial Road Network Development** 

**Road Network** 

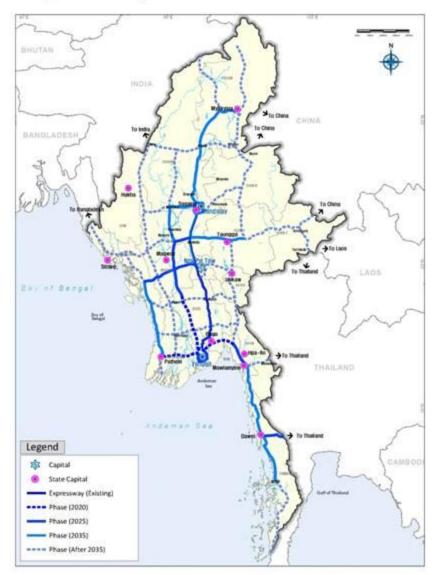


LADS

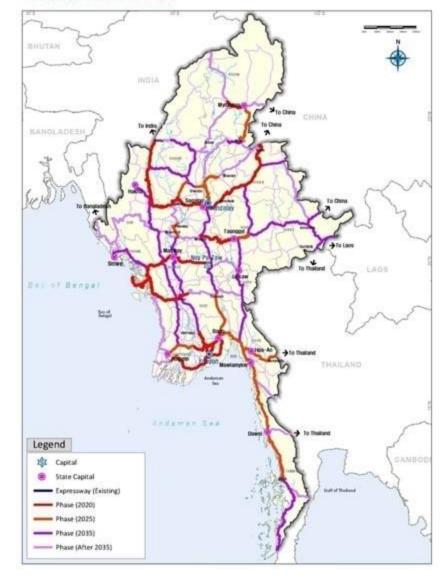
#### **Phased Development**

#### Expressway

**Road Network** 



#### Arterial Road





## Equipment provided by Grant Aids of Japan

Sr.	Name of Grant Aid	Number of Equipment	Total Price (JPY)	Remark
1	Equipment for Disaster Affected Area in 2001	70	800,000,000	
2	Equipment for Kayin State, Project Grant Aid	64	558,205,670	
3	Equipment for Rakhine State, Project Grant Aid	56	576,710,000	
4	Equipment for Kachin State & Chin State, Project Grant Aid	218	2,740,000,000	In tendering process
5	Equipment for Sagaing Region	38	450,000,000	Same as above
	Total (provided)	408	5,124,915,670	
6	Equipment for Ayeyarwaddy Region & Mon State	181	1,992,000,000	Proposed
7	Equipment for Shan State	59	1,150,000,000	Proposed
	Total (proposal)	240	3,142,000,000	
	Grand Total	648	8,266,915,670	





# **Way Forward Projects**

NY WASHANN KON WANYAN WANYANA WANG SUMAN ANA SUMAN



## Ring Roads

JICA-assisted projects formulated 2 Master Plans



Strategic Urban Development Plan of the Greater Yangon (SUDP) recommends

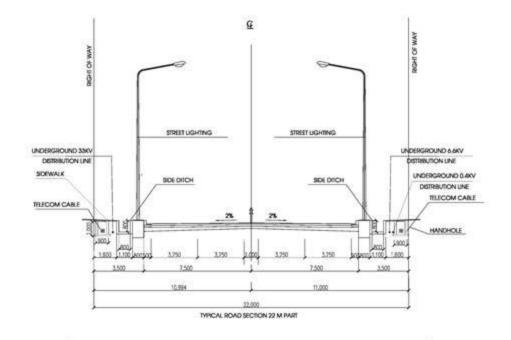
To outspread urban function

Comprehensive Urban Transport Plan of the Greater Yangon (YUTRA) recommends

 Priority railway/roadway development projects based on SUDP Road Network

### Yangon – Thilawa Road Project (8.7 km)





#### Roadway Cross section



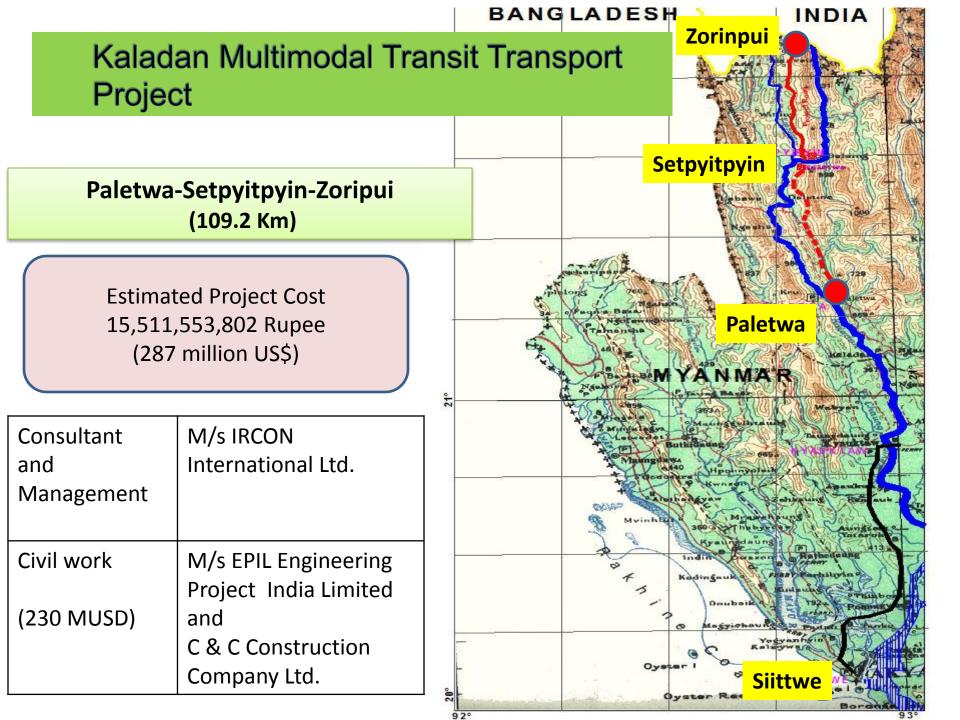


DEPARTMENT OF HIGHWAYS

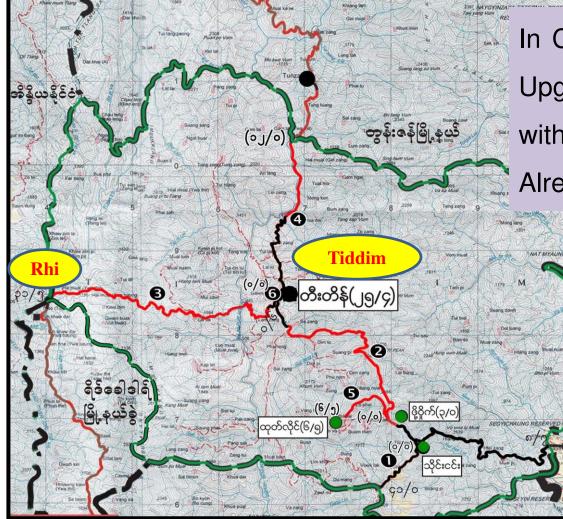
## Japanese ODA Loan for Poverty Reduction

## (MY P-2) (5711 Million Yen) (2018-2019 to 2021-22)

No	State/ Region	Name of Road	Road Length which will be upgraded (Km)
1.	Kayah	Taungoo - Leik Tho - Yardo - Loikaw - Hopone Road	77.76 km
2.	Sagaing	Mandalay - Dagaung - Bhamaw - Myitkyina Road	52.96 km
3.	Bago	Taungoo - Leik Tho - Yardo - Loikaw - Hopone Road	16.64 km
4.	Magway	Gangaw - Aika Road	14.72 km
5.	Shan (S)	Taungoo - Leik Tho - Yardo - Loikaw - Hopone Road	39.20 km
6.	Ayarwaddy Rakhine	Ngathaingchaung- Gwa Road	35.82 km
7.	Shan (S)	Hanmyintmo - Myogyi - Ywangan - Aungpan Road	14.68 km



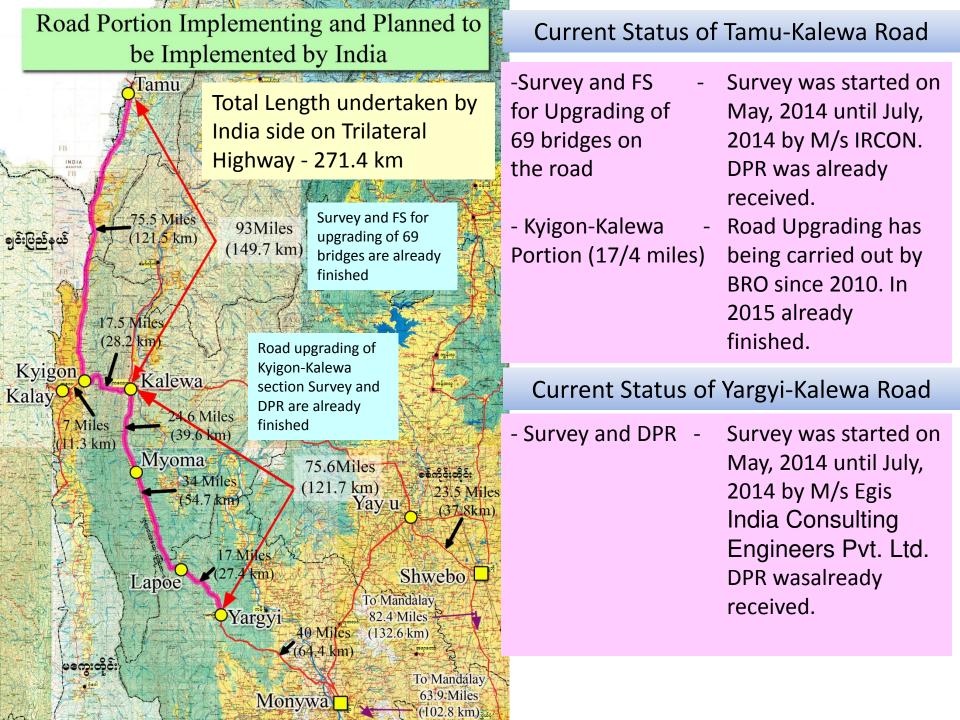
## Rhi - Tiddim Road (Existing)



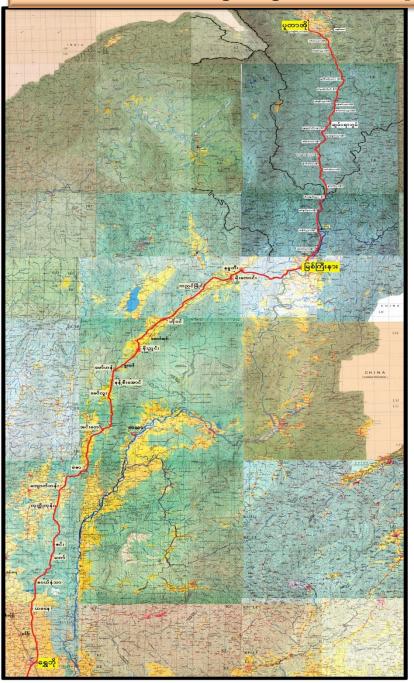
In Chin State, Rhi - Tiddim Road Upgrading Project (~ US \$ 60 M) with the aid of India Already signed the MoU

> Rhi - Tiddim Road (survey existing - 0/6-32/3, New Alignment 47 miles) 24\_27.2.2014 M/S Rites Ltd.

July 2015 New Alignment M/S IRCON Int. Ltd.



#### Shwebo – Myitkyina – Sunprabon – Putao Road 507Miles



India EXIM Bank Under 140 million Ioan

Upgrading Project (120 MUSD)

NanSiAung – Myitkyina section (121 mile)

Myitkyina – Putao section(218 mile)

FS made by WAPCOS Co., Ltd with India Grant

### Maungtaw-Kanyintan-Alethankyaw-Agnumaw Road 49/6 Miles



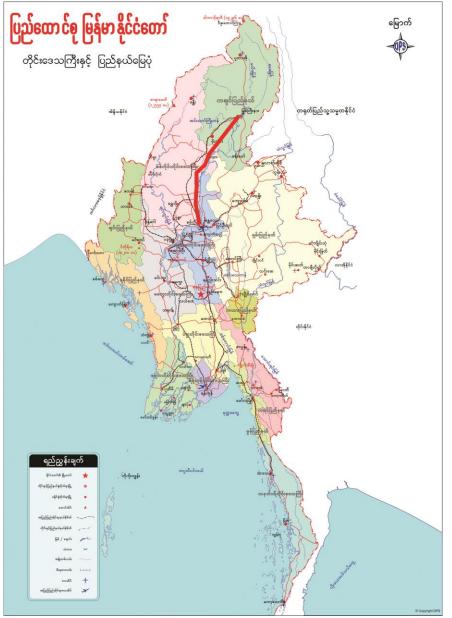
### India EXIM Bank Under 140 million Ioan

Upgrading Project (20 MUSD)

FS made by M/s IRCON Int. Ltd. with India Grant



Six Package Priority



Mandalay – Myitkyina Expressway

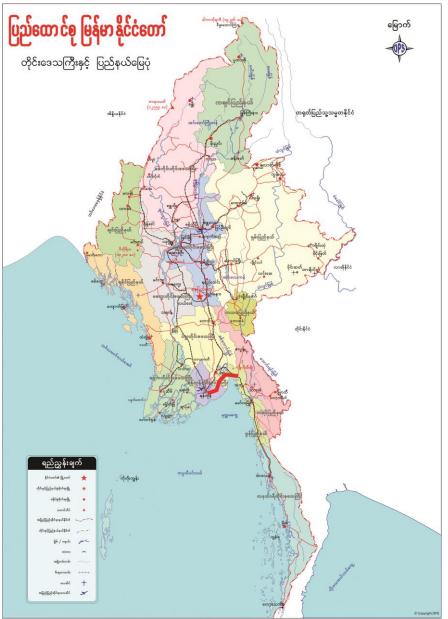
## Length - approximately 460 km

4 lane rigid pavement

Estimated Cost - US\$ 1870 Millions



### **Six Package Priority**



Thilawa – Thanatpin – Kyeikhto Road

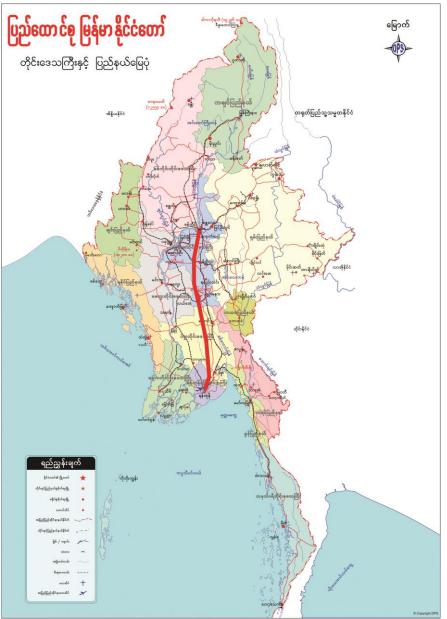
### Length – approximately 135 km

4 lane rigid pavement

Estimated Cost - US\$ 135 Millions



### **Six Package Priority**



Yangon – Mandalay Expressway

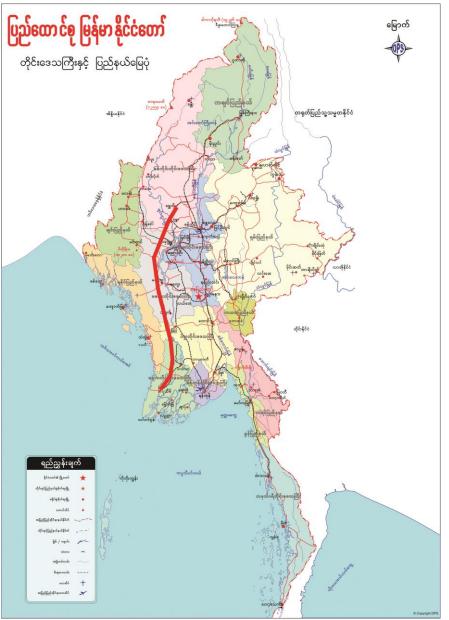
### Length – approximately 589 km

4 lane rigid pavement

Estimated Cost - US\$ 560 Millions



### **Six Package Priority**



Pathein – Monywa – Shwebo Road

### Length - approximately 811 km

4 lane rigid pavement

Estimated Cost - US\$ 2028 Millions



Six Package Priority



Minbu – Ann- Kyaukphyu Road

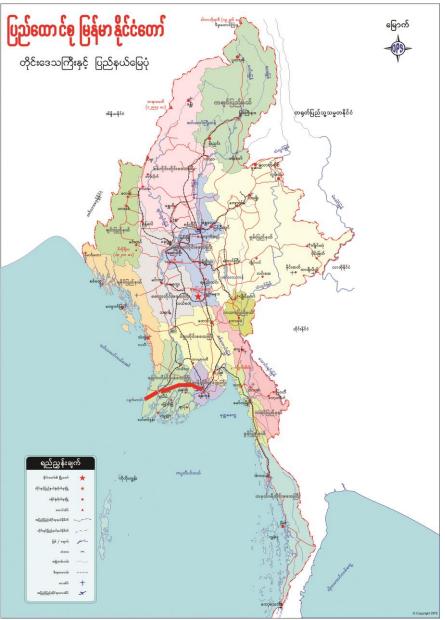
## Length – approximately 350 km

4 lane rigid pavement

Estimated Cost - US\$ 875 Millions



### **Six Package Priority**



### Yangon – Pathein – Ngayokekaung Road

## Length – approximately 304 km

4 lane rigid pavement

Estimated Cost - US\$ 760 Millions



### **Road Network of Ministry of Construction**

### **Bridge Developments**



### Ayeyarwaddy Bridge (Pakokku)



### **Bayintnaung Bridge**



Pathein Bridge

Yadanar Theinkha Bridge

## Bridge Constructed by Department of Bridge

Sr	State / Division	180 Feet and above Length Bridges
1	Kachin State	33
2	Kayah State	8
3	Kayin State	18
4	Chin State	4
5	Sagaing Division	54
6	Tanintharyi	23
7	Bago Division	41
8	Magwe Division	57
9	Manadalay Division	24
10	Mon State	9
11	Rakhine State	49
12	Yangon Division	38
13	Shan State (East)	8
14	Shan State (South)	10
15	Shan State (North)	16
16	Ayeyarwady Division	98
17	NayPyiTaw	6
	Total	496

## Ayeyarwaddy Bridge (Yadanarpon)



## Thanlwin Bridge (Chaung Sone)



# Image of New Gyaing (Kawkareik) Bridge



# Image of New Gyaing (Zathapyin) Bridge



## Image of New Attayan Bridge



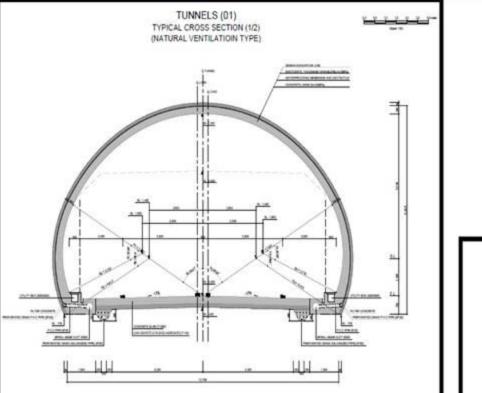
# Bago River Bridge

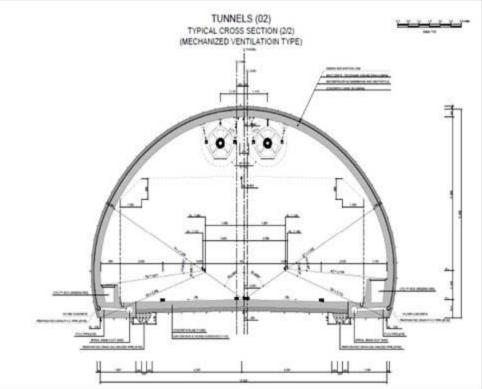


## Goat Twin Bridge to be Implemented by PPP Scheme at Mandalay-Lashio-Muse Road



## Pontaung – Ponnya Tunnel Projects (Proposal)







## Watalone Tunnel in Shan State (Bi – Directional Tunnel)

Project Purpose •A Feasibility study for tunnel construction of poor route road section located in mountains among comprehensive transportation environment Improvement plan which orders from Ministry of Construction(MOC).

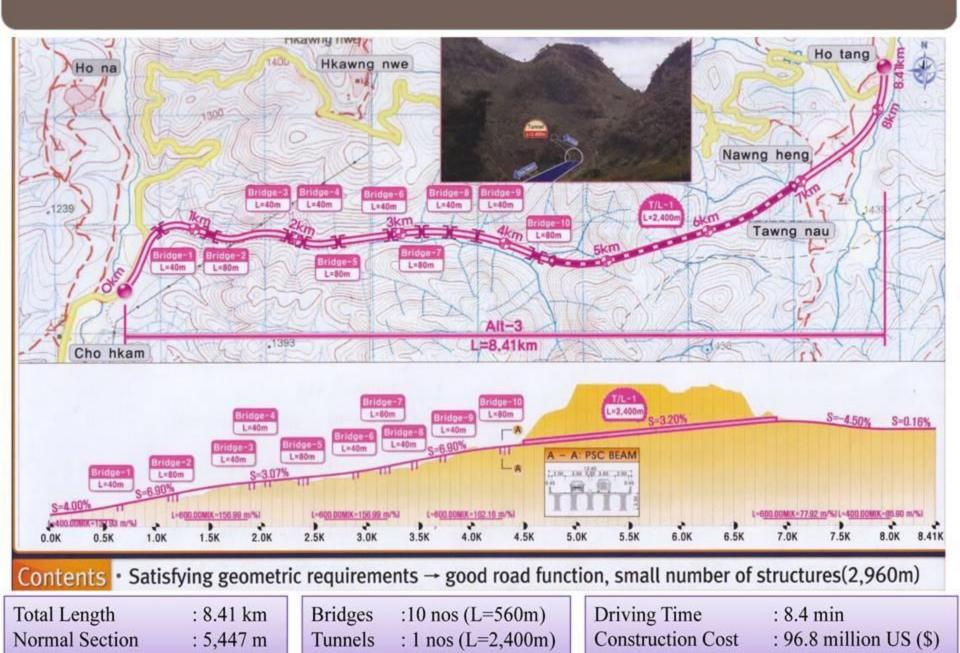
### Background

**Road Network** 

- The external aim of Myanmar government is playing a central role in land logistics through connected to Southwest Asia and Southeast Asia.
- Improvement of Social, economical conditions for Hill tribes living in mountains and the areas that passes



## **WATALONE Tunnel in Shan State**

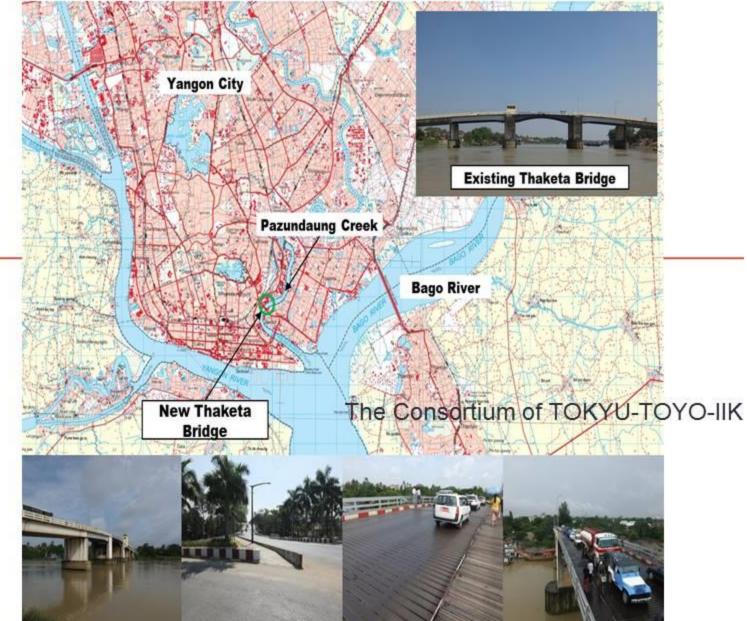


## Project Proposal of Road and Bridge for First (5) Years Plan of MOC

No	Region/State	Project Proposal		Remark
		Length of Road (km)	No of Bridges	
1.	Kachin State	1116	23	
2.	Kayah State	156	-	
3.	Kayin State	575	29	
4.	Chin State	1206	5	
5.	Sagaing Region	2036	116	
6.	Thanintharyi Region	480	109	
7.	Bago Region	588	8	
8.	Magwe Region	119	1	
9.	Mandalay Region	959	6	
10.	Mon State	366	-	
11.	Rakhine State	620	24	
12.	Yangon Region	226	3	
13.	Shan State	2440	55	
14.	Ayeyarwady	185	-	
	Total	11072	379	

DEPARTMENT OF BRIDGE

## Thaketa Bridge in Yangon Region





### DEPARTMENT OF BRIDGE

## Thaketa Bridge







## Conclusion

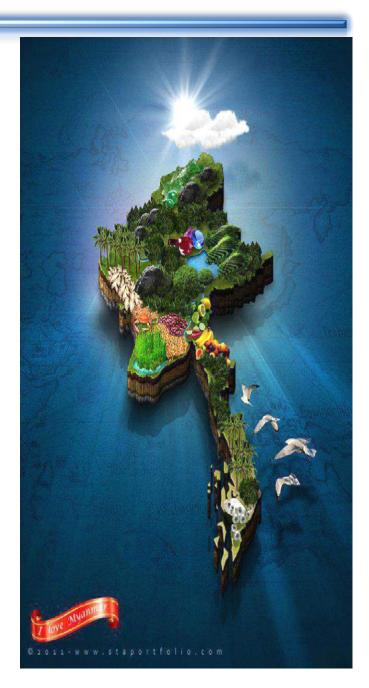


The investment in the basic transport infrastructure such as roads and bridges are the main pillar for the development of Political and Socioeconomic welfare of the nation

To gain the momentum on systematic development, **Ministry of Construction** 



set the policy as the first priority



www.ministryofconstruction.org

## **THANK YOU FOR YOUR KIND ATTENTION**

**Contact Address:** 

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