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Lampung

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DEVELOPMENT OF RAILWAYS SYSTEM IN LAMPUNG

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Abstract

of railway networks as a whole in Lampung (Comprehensive Railway Network) with regard the regional development. In general, it developed to accommodate passenger and freight result of potential products in this province. The main problem is the damage of road pavements reloaded such as coal. In addition, the railway network in Lampung has not connected well with this study is aimed to analyze the potential for the transport of goods in Lampung Province and development plans to accommodate the movement of people and goods in this province. One of the street expansion of such entire railway network connected with the location in the coal unloading the results obtained from this study that the railway development plan in Lampung can accommodate passenger and freight services and Trans Sumatra Railway Master plans.

Railway Network, Freight Transport, Expansion

INTRODUCTION

Background

of Lampung province by increasing the potential advantages of regional transportation infrastructure needed to ensure distribution of passengers and

for freight transportation, train is a major infrastructure to ensure good of resources towards commodities processing, marketing the area as well as transfer points such as airports, port terminals and piers. Scale flagship marketing of Lampung province such as cocoa, rubber, palm oil, shrimp, fish, petroleum potential, geothermal, renewable energy and tourism sectors that memational scale requires the development of the railway system that can support members potential.

development of urban economic mobility is also necessary for the provision of the provision

and its trend in the future. We realize that overloading causes the damage of the pavement at exponential rate of average power fourth. 10% overloaded truck can pavement greater than 40% comparing to the same load limited truck. In this could be coal truck which is through Lampung Road Network.

of railway networks in Sumatra diverse, but tend to be low:

- of railway networks in Sumatra, approximately 1860 km railway line in Sumatra is only about 1348 km (72.47%) are operational;
- year is one of Indonesia's most populous path and this path became the main some of income for the PT. KAI (Persero)
- on the railway in Sumatra (except in South Sumatra) generally only use 10-30% of installed capacity;
- The role of the railway mode in Sumatra for passenger transportation is still very which is only about 1.71% and for goods is only about 0.62%.

Lampung province, only one railways system existing, namely Bandar Palembang majors are also a legacy of Dutch colonizers 62 years ago. This track developed until recently, was part of a network of railway lines in South which crosses one city and five districts in Lampung province. Average volume transport services over the last five years to reach 354,898 people / year, and goods to reach 581,203 tons/ year. Especially for coal transport, cargo transport services over the last five years to reach 354,898 people / year, and goods to reach 581,203 tons/ year. Especially for coal transport, cargo transport services over the last five years to reach 354,898 people / year, and goods to reach 581,203 tons/ year. Especially for coal transport, cargo transport services over the last five years to reach 354,898 people / year, and goods to reach 581,203 tons/ year. Especially for coal transport, cargo transport services over the last five years to reach 354,898 people / year, and goods to reach 581,203 tons/ year. Especially for coal transport, cargo transport services over the last five years to reach 354,898 people / year, and goods to reach 581,203 tons/ year. Especially for coal transport, cargo transport services over the last five years to reach 354,898 people / year, and goods to reach 581,203 tons/ year. Especially for coal transport, cargo transport services over the last five years to reach 354,898 people / year, and goods to reach 581,203 tons/ year.

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plans in the province of Lampung which include the development of railway and train service opportunities. Preparation of planning frameworks rail megrated with other transport systems such as the mode of road transport, sea and air freight, synergistic and integrated with the framework of national and mesoportation system.

EXECUTION OF LAMPUNG PROVINCE

cocoa, black pepper, coffee, corn, sugar cane, etc.. And in some coastal such as shrimp farm commodities more prominent, even for the national level. In addition to agricultural produce, Lampung is also a port city, southern gate to the other area of Sumatra. Many industries area such as in Natar, Tanjung Bintang and Bandar Jaya. This province is rich with sources potential, both renewable and non-renewable (mining and minerals).

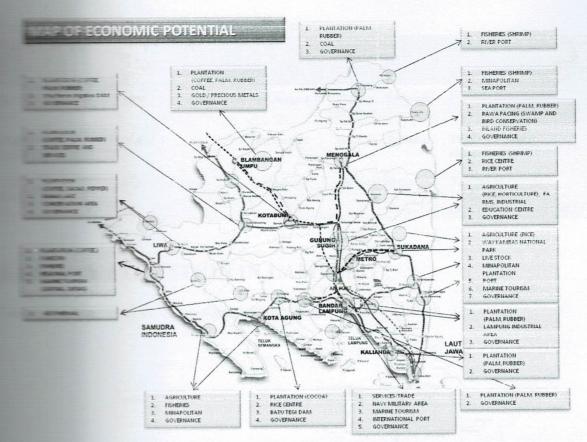


Figure 1. Map of Economic Potential

Provincial Government's efforts to maintain its status as one of the barns in showed satisfactory results. Some commodities as an indicator of the success of the production sector showed a growth trend continues to rise.

Table 1. Potential Commodities in Lampung

CONTROLLES	PRODUCTION (TON)	SUMATERA	NATIONAL	INTER NATIONAL
10.2	2,976,933	The second largest	The seventh largest	•
CORS	1,921,326	The first largest	The third largest	
COSSATA	9,017,137	The first largest	The first largest	The first largest
388312	44,167	The first largest	The second largest	Largest export to America
SUTTO	712,428	Largest supplier of Sumatra and Jabotabek	13,981,477	•
SEIGHE CANE	991,880	The first largest	37% National product	

Lampung (continous)

POWERTHS	PRODUCTION (TON)	SUMATERA	NATIONAL	INTER NATIONAL	
BLACK PEPPER	21,905	The first largest	27.58% National product	-	
MINISTA COMPLE	150,424	The first largest	26.15% National product	The third largest eksporter	
CHINED	265,000 ton/year	The first largest	The first largest	The third Eksporter (26 % the world needs)	

RAILWAY CONDITION IN LAMPUNG

The state of Lampung is as shown below

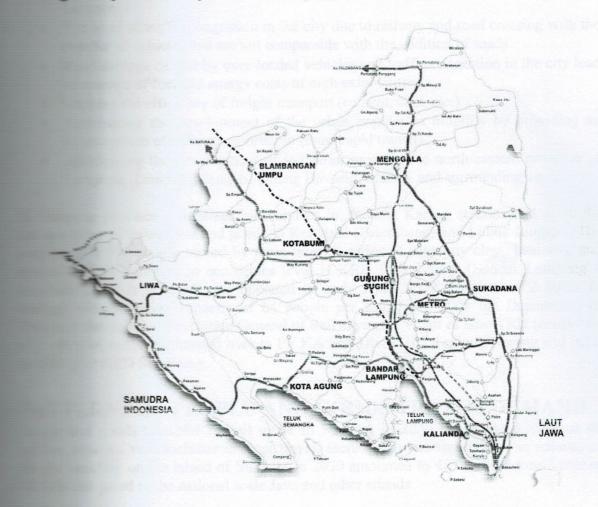


Figure 2. Railway existing in Lampung

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area of Palembang and South Sumatra to the port in Lampung. Some of the of goods transported include coal, cement, fuel oil, wood pulp, paper products the products. The main railway system by the construction of a single track passenger and freight transport, but the system in place is dominated by the coal from Tanjung Enim (PTBA) to Tarahan (shipping facilities from rail to along 412 km. Freight traffic flows is an essential part of a series of coal and the passenger for Java.

the sport is one answer to meet the needs of mass transit of passengers and goods. The things that underlie the need for rail transport infrastructure developed are:

- American of the Sunda Strait Bridge Construction and Highways
- American of Sumatera's rapid economic growth and preparation for the free market (Asean-China (ACFTA 2010), Asia Pacific etc)
- Support the realization of the Trans ASEAN Railways & Sumatra Rail Ways
- Existing railway lines connecting coal port still through city center (Bandar Lampung)
- The level of traffic congestion in the city due to railway and road crossing with the number of vehicles that are not comparable with the addition of roads
- damage caused by over-loaded vehicles and traffic congestion in the city lead to wastage of fuel and energy costs of high externalities
- Improve the efficiency of freight transport (cement, coal, etc.)
- American the development of the urban population mobility by providing an infrastructure of mass transportation (mass rapid transit)
- Ameripating the development of industrial areas in the north-eastern province of Lampung (Lampung Tengah, Tulang Bawang, Mesuji, and surrounding areas)

province centralized rail services in Tanjung Karang stations that serve the passengers and goods to Kertapati (Palembang) and Lubuk Linggau. The 970 people served by three trains a series of economy class, business, and transport in economics level is KRD Ruwai Jurai (Bandar Lampung – which is starting to operated in early April 2007, consists of 2 series of a seating capacity of 64 people per wagon. In 2008 the Department of trough the Directorate General of Railways give 1 unit of new KRD (consisting carriages) handed over to PT KA Sub Divre III.2 Tanjung Karang and next, KRD Seminung.

TERNS OF PEOPLE AND GOODS TRAVEL DEMAND

year includes internal travel, including urban transport. The amount of meeting on the island of Sumatra in 2030 amounted to 403 million tons / year or to the national scale Java and other islands.

patients of both passengers and goods movement on the island of Sumatra in be seen that the trip generation is quite high in Lampung Province.

Passenger Origin-Destination Matrix in 2030

WING YEARS

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	Eliza	25.000	8.000	25.000	9.668	39.000	1000	25.000	8000	1.666	BILLIB
-	3.00	32 100	64,900	69,600	2.000	18.000	25.000	₩.000	N.000	9.000	- Kalunia
	800	19.000	225.000	05.000	34,000	9.000	€.000	90,000	1.000	25 000	775,000
	B III	2755.000	2331.000	1035.000	31.000	807.000	376.000	430,000	75.000	333.000	9344000
	42 000	59.000	774,000	357.000	27.000	1297.000	82,000	\$2,000	■.000	13.000	4.471.000
	1833	Hall	145.000	87.565	97,555	3577.000	E2.000	7357.000	€7.005	254,050	1/2/11
-	MIII	484,000	71,000	38.000	WL000	227.000	244,000	-86,000	77.000	€.000	3673.000
	ZIII	1437,000	34,500	374,000	409.000	2485.000	453 000	205000	220,000	20.000	9.254.000
	100	E .000	2 0.000	\$7.000	\$5.000	65.000	57.000	E8000	44,000	2.000	1292.000
	20000	335 000	48 ,000	Z8.000	82,000	Z6.000	45,000	#1000	22.000	87.000	1745.000
	element.	EESTIM	7.062.000	3.3 E.000	26700	1.8 E. 000	22/500	8.7ELDTO	L041.000	962.000	48.M0.M0

Table 3 Freight Origin-Destination Matrix in 2030

	M		Sales .			· ·	Berglish		Babal		1
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	339 330	252555	3	820.000	1973 050	2282.000	237.000	1990,000	¥0.000	1322 000	34.488.000
	294,000	2742000	30.338.000	0	1741.000	3.34,000	2254 000	1723,000	84,000	3083.000	75.16.000
and .	170,000	47E.000	8790.000	1984,000	0	#550.000	1,57,000	2800.000	59,000	842,000	30.532.000
	134.55	514.000	\$ 822.000	739.005	8.854.800	8	167.000	850,000	528.000	T6.000	E THER
-	40.00	172.000	7278.000	74.000	3 4000	855,000	8	103.000	3.000	83.000	8235.000
	SPIN	IS\$3.000	9.58.000	2732.000	3938 000	20800000	\$121,000	Ū	657,000	227 .000	65.88.008
-	35.000	1200,000	990.000	28,000	258,000	3898,000	33.000	999,0000	5	74 000	7.830.000
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	2222200	28.23.00	75.532.000	31.388.000	77.547.000	55.801.000	77.784.000	23.277.000	3.370.000	B.452.000	403.000.000

9 254 million people / year, while the other provinces of Lampung to the total million people / year. Trip generation of freight transportation from the provinces to the other provinces in Sumatra Island is 65.818 million tons / year and from total to the other provinces towards Lampung totaled 23.217 million tons / year.

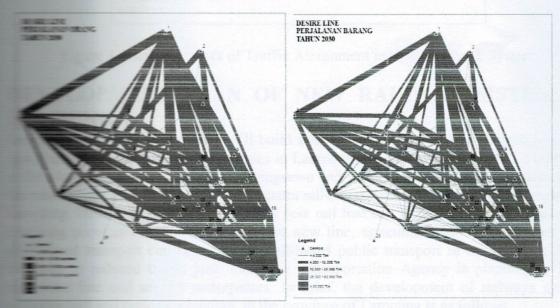


Figure 3. Passenger and Freight Distribution per Year in Lampung 2030

movement patterns showed a pattern of significant movement of people from the of Bengkulu - Java, and the movement from South Sumatra - Java. This shows movement of movement is a through traffic, while the inter-zone movement has not been the movement of the external zone to the internal zone is of considerable South Bengkulu and Java to the center of Bandar Lampung. Movement between zones are also large enough is Liwa- Mesuji, Bakauheni-Sukadana and Labuan - Bakauheni. The average movement from all internal zone - Bakauheni is also



Figure 4. Analysis Result of Traffic Assignment in Road Network System

DEVELOPMENT PLAN OF NEW RAILWAY SISTEM IN

Provincial Government will build a new railway line along 62 kilometers. The connect a number of cities in Lampung. New railway lines will be built that Terbanggi, Tegineneng-Pringsewu and Kotabumi-Menggala. Construction of provinces is part of the Sumatra railway construction along 200 kilometers in Development construction of a new rail line can generate economic growth of provinces in Sumatra. With that new line, agricultural centers that have been transport can be resolved. Rail-based public transport in the city is a major reduced traffic jam. Lampung Transportation Agency is planning to build the and several underpasses. In brief, the development of railways system, and regional planning in the province of Lampung is as follows

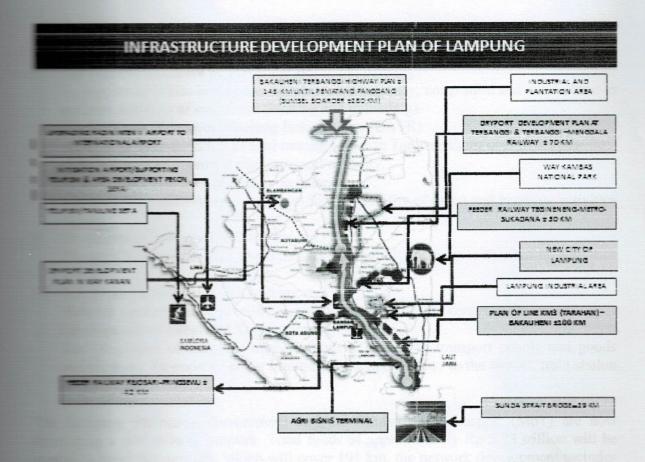


Figure 5. Infrastructure Development Plan of Lampung

Development Plan is describe as follows:

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- Trace (km3) Bandar Lampung Bakauheni, 100km

 Trace (km3) Bandar Lampung Bandar Lamp
- Technical Metro Trace (next to Sukadana) 18km

 The development of economic mobility of Metro is necessary for the development of messager rail infrastructure (commuter line). It is important to stretching the momic level of Metro and hinterland areas in Lampung.
- Pringsewu Rejosari Tj. Karang Trace, 42 km
 Connecting Pringsewu district to downtown because the highway is very crowded,
 and Pringsewu is a district which is rapid economic growth and supported by a
 mineral region such as Tanggamus and Pesawaran.
- The aim of this project is to reduce the rate of accidents caused by crossings and reduce congestion, also to improve the efficiency of coal transportation.
- Terbanggi Besar Unit 2 Menggala, 76 km

 To improve the efficiency of freight transport both in the mining sector, agriculture, partiation and other sectors. Potential of Lampung, especially Northern Central part is

- very large but has not been supported by adequate infrastructure. It is important to reduce road damage caused by overload.
- 6. Dry Port Development in Terbanggi Besar and Panjang
 To support activities in seaports which are getting busy, congestion and a long time to
 perform activities of containers (loading and unloading).
- 7. Double Track Srengsem -Tanjung Enim 300km (BATR)

 To improve transportation of coal mining center in Tanjung Enim coal to the new Port
 of Srengsem and improved coal transport capacity.
- 8. Double Track Bandar Lampung Sebalang
 The need for a railway line to the port for the mobility of cargo and handling activities at port
- Development Railway Track to Panjang Port
 The need for a railway line to the port for the mobility of cargo and handling activities at port
- Development Railway Track to Airport
 Network development and train services connecting the city center to the arrow
- 11. Development of Integrated Terminal at Rejosari
 The integration of transport modes affects of access to transport people mobilization. To improve better intermodal transport from / to the airport or port.

The Lampung Provincial Government and the Ministry of Transport developing a new railway network. Total funds of approximately Rp 5.23 needed to build this network, which will cover 191 km. the network development the Rejosari-Lampung Airport-Bakauheni rail line (100 km) as part railway program. It also includes the development of an outer loop railway freight line covering 26 km, the Tembagi Besar-Unit 2 Menganan Mesuji railway freight line (100 km), and an urban commuter rail line (65 km)

Stepping up the development of railways in Lampung is sorely needed service quality of the roads as a means of transport continues to decline large number of vehicles, which has not been matched by an increase in roads. The funds needed for the railway development could reach Rp 30—of railway. Meanwhile, in 2012 total budget for the MoT's Direction.

In addition to the government, a private investor is also developing. Lampung. In November 2012, China Development Bank (CDB) framework agreement to arrange the financing scheme to fund a coal transpung Enim in South Sumatra to Bandar Lampung. This Chinese coordinator for the bank financing and is prepared to fund the project in 1.3 billion (Rp 11.69 trillion).

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The coal rail line will cover 300 km and will travel across municipality in two provinces on the island of Sumatra. They're reproject to the tune of US\$ 1.3 billion, with a debt-to-equity ratio of Group and PT BA have formed a joint venture named BATR to

project is now at the land acquisition stage. The railway construction is part of the PT Bukit Asam Banko coal mine project, which is a joint venture between PT BA and PT Rajawali Asia Resources. The signing of the framework agreement provides certainty over the funding sources for this railway infrastructure project. This project is part of the Masterplan for the Acceleration and Expansion of Economic Development in Indonesia (MP3EI). The project will integrate coal mining, railway transport infrastructure, and port logistics. The railway and port infrastructure will be built and operated by BATR.

Table 4. MP3EI Railway Projects Open to Private Sector

No.	Project Name	Value (Rp trillions)		
1	Tanjung Enim-Tanjung Carat Railway 270 km	17.00		
2	Tanjung Enim-Lampung Railway 300 km	15.30		
3	MRT East-West	30.00		
4	Semarang-Bojonegoro-Surabaya Double Track Railway and facilities	9.50		
5	Soekarno-Hatta Airport Railway	2.27		
6	Pekalongan-Semarang Double Track Railway 87.9 km	1.80		
7	Puruk Cahu-Tanjung Isuy Railway 203 km	20.30		
8	Puruk Cahu-Bangkuang Railway 185 km	15.00		
	Total	111.11		

CONCLUSION

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Lampung province has potential in agriculture, plantations and mining that requires a more efficient mode [of transport]. Railway development is also needed to anticipate plans to construct the Sunda Strait Bridge (JSS), toll roads, new towns, and to develop industrial zones in Lampung. For a special purpose railway to be established between a point of production (for example, a mine) and a point on the public railway system, and for the trains operated on the special purpose railway to continue along the public railway to a port or other destination. The MP3EI project has identified a number of projects open to the private sector. In fact, the main spirit of the Law No. 23/2007 on the Railways is to eliminate the monopoly of PT KAI. Efforts to eliminate this monopoly are expected to give birth to a healthy climate of competition. If there is competition among several operators in enhancing railway transport services, the community will likely benefit from it.

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