

해외출장복명서

기 간: 2016. 4. 6 ~ 2016. 4. 11

출장지: 스리랑카, 콜롬보시

출장자: 오성호 연구위원

I. 출장개요

1. 출 장 지 : 스리랑카 콜롬보시
2. 출장기간 : 2016. 4. 6 ~ 4. 11(3박 6일_기내 2박)
3. 출 장 자 : 총 1명

소속	직급	성명
국토인프라연구본부	연구위원	오성호

4. 출장 목적

- 시범대상국인 스리랑카 교통 유관기관의 담당자 면담을 통해 사전에 조사했던 STDQ 교통데이터 재확인 및 추가 항목 조사
- 5월 초청연수 프로그램 소개 및 참석 예정자 미팅

5. 주요 수행 내용

- 코디네이터 업무협의를 통한 추가 자료 확보
- RDA(Road Development Authority;도로부) 업무협의
- MOT(Ministry of Transportation;교통부) 업무협의
- 경찰청 및 항만부 업무협의

II. 출장일정

날짜	출발지	도착지	방문기관/ 장소	주요 수행업무	관계자
4.6 (수)	인천			출발	
4.7 (목)		콜롬보		도착	
	콜롬보		RDA	현지코디네이터 협의	- Mr. Janitha
4.8 (금)	콜롬보		MOT	교통부 관계자 업무협의	- Mr. Thilakarathna Banda
			RDA	도로부 관계자 업무협의	- Mr. Ilankoon Mudiyanselage Jagath
			경찰청 및 항만부	경찰청 및 항만부 관계자 업무협의	
4.9 (토)	콜롬보		콜롬보	콜롬보 대중교통 현장조사	-
4.10 (일)	콜롬보			출발	
4.11 (월)		인천		도착	

III. 수행사항

1. 코디네이터 업무협의

- 일시 및 장소: 2016. 4. 7(목) 14:00 도로부
- 참석자
 - 국토연구원 : 오성호 연구위원
 - 현지코디네이터 : Mr. Janitha(RDA, Traffic Management Unit, Highway Designs Division)
- 주요사항
 - 스리랑카 교통 DB 조사 관련한 보완사항 최종 점검
 - 보완 사항 및 추가 수집 자료 정리
 - 2차 출장 당시 신규로 발굴한 교통 DB 조사 항목에 대한 자료 수집
 - 중앙정부 및 지방정부 개발계획, 부문별(도로, 철도, 항공, 항만) 개발계획
 - 초청연수 참석 예정자 미팅 일정 조율
 - 도로부 3인, 교통부 1인 총 4인



▲ 코디네이터 업무협의



Sri Lanka 2011 – 2030 National Physical Plan And Project Proposals

Arch./Plnr. Veranjan Kurukulasuriya (Director/Research)
National Physical Planning Department
Ministry of Construction, Engineering Services, Housing & Common Amenities
Sethsiripaya, Battaramulla
2012 March 3

Mahinda Chintana Plan -2010

–I will take action to develop our country as a five-fold center by using its unique geographical location, and connecting west and east by Navigation, Aviation, Trade and Commerce, Energy and Knowledge”

The main objective of the National Physical Plan is to locate the implementation of this goal identified by Mahinda Chintana.



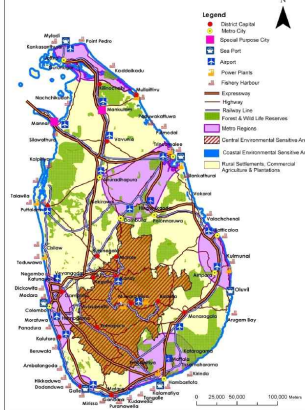
▲ 추가자료 1

National Physical Plan - 2030

Legend

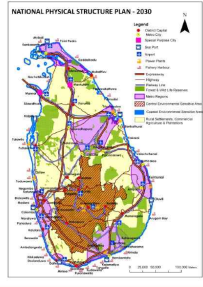
- District Capital
- Metro City
- Special Purpose City
- Sea Port
- Airport
- Power Plants
- Fishery Harbour
- Expressway
- Highway
- Railway Line
- Forest & Wild Life Reserves
- Metro Regions
- Central Environmental Sensitive Area
- Coastal Environmental Sensitive Area
- Rural Settlements, Commercial Agriculture & Plantations

NATIONAL PHYSICAL STRUCTURE PLAN - 2030

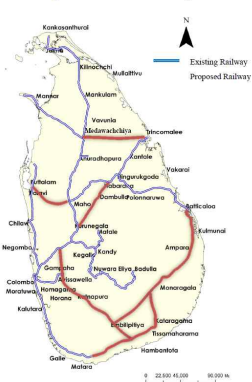


▲ 추가자료 2

National Physical Plan - 2030



Proposed Railways



Proposed Railway Development
 - Matara - Battaclos (via Hambantota, Mousangala, Ampara Othiri)
 - Koneswala - Habruwa - via Dambulla
 - Palani - Malo
 - Mousangala - Embilipitiya
 Length of the Existing Railways: 142 Km
 Length of Proposed Railways: 712 Km - This 50% increase.

▲ 추가자료 3

APPENDIX II

INVESTMENT PROPOSALS 2015 - 2020

Priority Axis 1 : Upgrading and Purchasing Rolling Stock

Project / Programs	Level of Priority	Cost Estimate (Rs. Mn)	Status	Justification and Remarks
Procurement of DMUs 6 DMU each having 2 power cars and 12 coaches, and 12 DMU each having one power car, one dummy and six coaches	High	7800 6000	Last purchase were from China (S12) and India (S11), and it is recommended that priority be assigned to use any balances available to procure DMUs. Expected by 2016	To increase the inter-city passenger market of railways, long-distance express train service has to be expanded To secure greater railway modal share of commuter service, an exclusive DMU based operation is desired
Procurement of passenger Coaches (160 Nos)	High	8000	Any balance in Chinese or Indian credit lines may be used for this purpose. Expected by 2016	To replace the existing old carriage stock, and to expand the night train services and mixed operations.
Repair and up grading of French built M9 Locomotives	High	200	Current availability is less than 30%. Waste to keep the others inoperable. Execution by 2016	This is a heavy haul locomotive, and it is possible to increase the availability to 80% with marginal investment
Procurement of oil tanks (30 Nos)	High	520.0	Any balance in Chinese or Indian credit lines may be used for this purpose. Expected by 2017	To increase the railway modal share of petroleum bulk transport to 70% by 2020.
Construction of new loco workshop and carriage workshop at Ratmalana	High	75.0	To be ready by 2017 (But, no action is in place yet)	To alleviate congestion at RML workshops.
Extension of Miligawatta yard lines to and within Sathosa siding to improve rolling stock maintenance	High	260.0	Railway land leased out to CWE to be re-acquired. Process has already commenced	Negotiation with Sathosa under way.
Re establishment of carriage building workshop at DMA	High	5.0	Request has already been made from the Army (present occupant) to release the premises	Plant was set up in 2009, but was never functional. This could be made operational with marginal investment

▲ 추가자료 5

▲ 추가자료 4

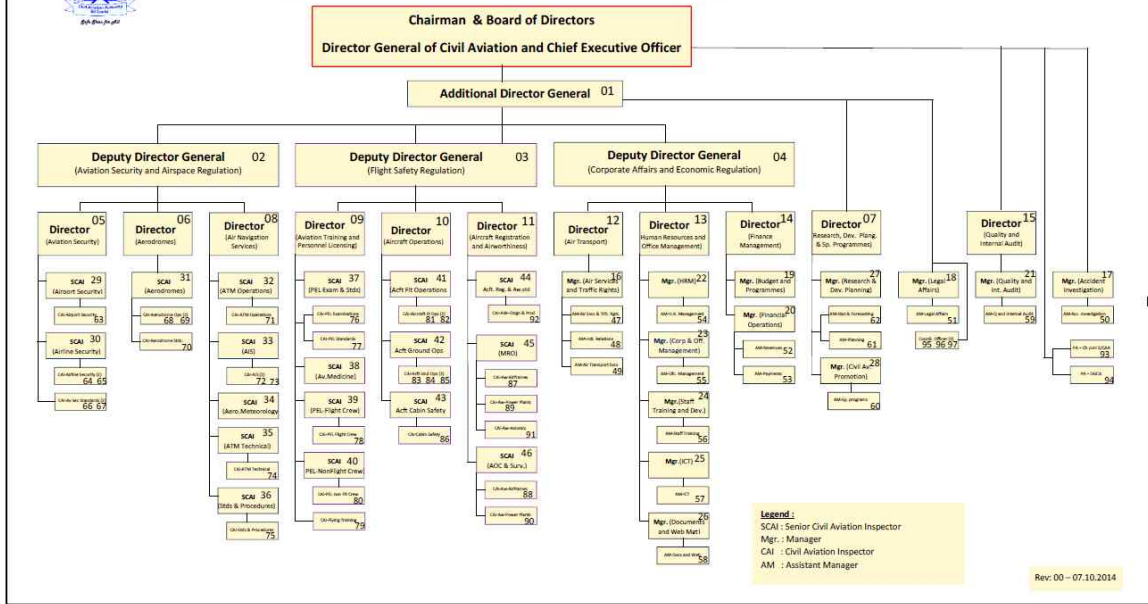
Improvement for existing railway network

Project / Programs	Priority Level	Cost Estimate (Approx) Rs. Mn	Status	Remarks
Construction of Double track between Payagala South to Aluthgama [Length 10.4 Km]	High	2,080.0	Under way as last leg of the project launched in 1997	Undertaken by SLR. Completion expected by 2016
Construction of Double track between Peradeniya- Kandy [Length 5.9 Km]	High	1,200.0 (incl bridge)	Under way. Trace cleared from Kandy to Gopillawa gate	Undertaken by SLR. Completion of first stage expected by end 2015. A credit line to be used to procure material and the two bridges.
Construction of Double track between Polgahawela - Kurunegala [Length 21.5 km]	High	3,225.0	Was in priority list for some time	Material to be imported using a credit line and to be constructed locally, either by SLR or through local tender
Construction of Double track between Katusayake- Kochchikade [Length 12.6 km]	High	2,000.0	Was in priority list for some time	Material to be imported using a credit line and construction to be done locally, either by SLR or through local tender
Construction of Double track between Peradeniya - Gampola [Length 12.1 km]	High	1,815.0	Part of Kandy urban railway dev project started in 2008.	Material to be imported using a credit line and construction to be done locally, either by SLR or through local tender
Construction of Double track between Peradeniya - Kadugannawa [Length 9.3 km]	High	1,860.0	Part of Kandy urban railway dev project started in 2008.	Material to be imported using a credit line and construction to be done locally, either by SLR or through local tender
Strengthening of third line from Maradana to Ragama [Length 13.6 Km]	High	1,414.4	Soft soil improvement to be done.	To be undertaken by SLR, and completed by end 2016
Up grading / double tracking of IV line [Total length 61.2 km]	High	Estimate not yet available	Up grading is needed for the entire line. Double tracking up to Makandura suggested in the first stage.	Land acquisition is necessary, and could involve significant costs. Foreign financial assistance, preferably multi-lateral credit, may be solicited

▲ 추가자료 6



Civil Aviation Authority of Sri Lanka Organizational Structure - Management Staff



▲ 항공부 조직도 1

		Director General of Civil Aviation
1.	OS1-HM22-ADG	Additional Director General
2.	OS2-HM21-DG-1	Deputy Director General (Airspace and Security Regulation)
3.	OS2-HM21-DG-2	Deputy Director General (Flight Safety Regulation)
4.	OS2-HM21-DG-3	Deputy Director General (Corporate Affairs and Economic Regulation)
5.	OS3-HM11-D-1	Director (Aviation Security)
6.	OS3-HM11-D-2	Director (Aerodromes)
7.	OS3-HM11-D-3	Director (Research, Development Planning and Special Programs)
8.	OS3-HM11-D-4	Director (Air Navigation Services)
9.	OS3-HM11-D-5	Director (Aviation Training and Personnel Licensing)
10.	OS3-HM11-D-6	Director (Aircraft Operations)
11.	OS3-HM11-D-7	Director (Aircraft Registration and Airworthiness)
12.	OS3-HM11-D-8	Director (Air Transport)
13.	OS3-HM11-D-9	Director (Human Resources and Office Management)
14.	OS3-HM11-D-10	Director (Finance Management)
15.	OS3-HM11-D-11	Director (Quality and Internal Audit)
16.	OS4-MM11-AT-1	Manager (Air Services and Traffic Rights)
17.	OS4-MM11-DM-1	Manager (Aircraft Accident / Incident Investigations)
18.	OS4-MM11-DM-2	Manager (Legal Affairs)
19.	OS4-MM11-FM-1	Manager (Budgets and Programs)
20.	OS4-MM11-FM-2	Manager (Financial Operations)
21.	OS4-MM11-IA-1	Manager (Internal Audit and Quality Survey)
22.	OS4-MM11-HR-1	Manager (Human Resources Management)
23.	OS4-MM11-HR-2	Manager (Corporate Planning & Office Management)
24.	OS4-MM11-HR-3	Manager (Staff Training and Development)
25.	OS4-MM11-HR-4	Manager (Information and Communication Technology)
26.	OS4-MM11-HR-5	Manager (Documents and Web Management)
27.	OS4-MM11-SP-1	Manager (Research & Development Planning)
28.	OS4-MM11-SP-2	Manager (Civil Aviation Promotion)
29.	OS4-MM11-AS-1	Senior Civil Aviation Inspector (Airport Security)
30.	OS4-MM11-AS-2	Senior Civil Aviation Inspector (Airline Security)
31.	OS4-MM11-AD-1	Senior Civil Aviation Inspector (Aerodromes)
32.	OS4-MM11-AN-1	Senior Civil Aviation Inspector (Air Traffic Management-Operations)
33.	OS4-MM11-AN-2	Senior Civil Aviation Inspector (Aeronautical Information Service)
34.	OS4-MM11-AN-3	Senior Civil Aviation Inspector (Aeronautical Meteorology)
35.	OS4-MM11-AN-4	Senior Civil Aviation Inspector (Air Traffic Management-Technical)
36.	OS4-MM11-AN-5	Senior Civil Aviation Inspector (ATM & Standards and Procedures)
37.	OS4-MM11-PL-1	Senior Civil Aviation Inspector (Personnel Licensing Examinations & Standards)
38.	OS4-MM11-PL-2	Senior Civil Aviation Inspector (Aviation Medicine)
39.	OS4-MM11-PL-3	Senior Civil Aviation Inspector (Personnel Licensing-Flight Crew)

▲ 항공부 조직도 2

40.	OS4-MM11-PL-4	Senior Civil Aviation Inspector (Personnel Licensing-Non -Flight Crew)
41.	OS4-MM11-OP-1	Senior Civil Aviation Inspector (Aircraft Flight Operations)
42.	OS4-MM11-OP-2	Senior Civil Aviation Inspector (Aircraft Ground Operations)
43.	OS4-MM11-OP-3	Senior Civil Aviation Inspector (Aircraft Cabin Safety)
44.	OS4-MM11-AW-1	Senior Civil Aviation Inspector (Aircraft Registration and Airworthiness Standards)
45.	OS4-MM11-AW-2	Senior Civil Aviation Inspector (Maintenance & Repair Organizations)
46.	OS4-MM11-AW-3	Senior Civil Aviation Inspector (Air Operator Certification & Surveillance)
47.	OS5-MA53-AT-1	Assistant Manager (Air Services & Traffic Rights)
48.	OS5-MA53-AT-2	Assistant Manager (International Relations)
49.	OS5-MA53-AT-3	Assistant Manager (Air Transport Services)
50.	OS5-MA53-DM-1	Assistant Manager (Aircraft Accident / Incident Investigations)
51.	OS5-MA53-DM-2	Assistant Manager (Legal Affairs)
52.	OS5-MA53-FM-1	Assistant Manager (Revenues)
53.	OS5-MA53-FM-2	Assistant Manager (Payments)
54.	OS5-MA53-HR-1	Assistant Manager (Human Resource Management)
55.	OS5-MA53-HR-2	Assistant Manager (Office Management)
56.	OS5-MA53-HR-3	Assistant Manager (Training)
57.	OS5-MA53-HR-4	Assistant Manager (Information and Communication Technology)
58.	OS5-MA53-HR-5	Assistant Manager (Document and Web Management)
59.	OS5-MA53-IA-1	Assistant Manager (Internal Audit and Quality Survey)
60.	OS5-MA53-SP-1	Assistant Manager (Special Programmes)
61.	OS5-MA53-SP-2	Assistant Manager (Planning)
62.	OS5-MA53-SP-3	Assistant Manager (Statistics & Forecasting)
63.	OS5-MA53-AS-1	Civil Aviation Inspector (Airport Security)
64.	OS5-MA53-AS-2-1	Civil Aviation Inspector (Airline Security)
65.	OS5-MA53-AS-2-2	Civil Aviation Inspector (Airline Security)
66.	OS5-MA53-AS-3-1	Civil Aviation Inspector (Security Standards)
67.	OS5-MA53-AS-3-2	Civil Aviation Inspector (Security Standards)
68.	OS5-MA53-AD-1-1	Civil Aviation Inspector (Aerodrome Operations)
69.	OS5-MA53-AD-1-2	Civil Aviation Inspector (Aerodrome Operations)
70.	OS5-MA53-AD-2	Civil Aviation Inspector (Aerodrome Standards)
71.	OS5-MA53-AN-1	Civil Aviation Inspector (Air Traffic Management-Operations)
72.	OS5-MA53-AN-2-1	Civil Aviation Inspector (Aeronautical Information Service)
73.	OS5-MA53-AN-2-2	Civil Aviation Inspector (Aeronautical Information Service)
74.	OS5-MA53-AN-3	Civil Aviation Inspector (Air Traffic Management-Technical)
75.	OS5-MA53-AN-4	Civil Aviation Inspector (ATM & Standards and Procedures)
76.	OS5-MA53-PL-1	Civil Aviation Inspector (Personnel Licensing Examinations)
77.	OS5-MA53-PL-2	Civil Aviation Inspector (Personnel Licensing Standards)
78.	OS5-MA53-PL-3	Civil Aviation Inspector (Personnel Licensing-Flight Crew)
79.	OS5-MA53-PL-4	Civil Aviation Inspector (Flying Training)

▲ 항공부 조직도 3

2. 교통부(MOT) 업무협의

□ 일시 및 장소: 2016. 4. 8(금) 10:00 교통부

□ 참석자

- 국토연구원 : 오성호 연구위원

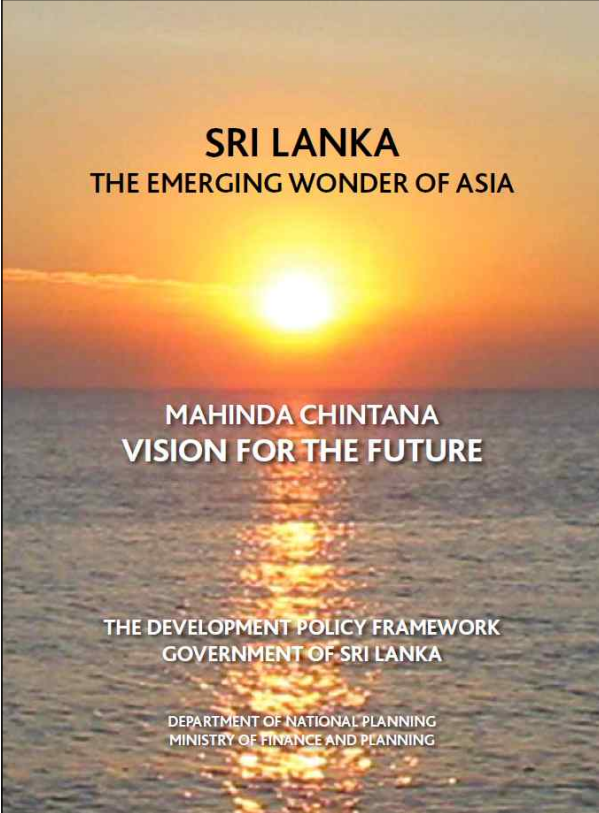
- 스리랑카 교통부 : Mr. Thilakarathna Banda(MOT, Planning)

□ 주요사항

○ (교통DB) 사전 조사한 STDQ의 MOT 수집 자료 재확인, 추가 자료 확보

○ (역량강화) 역량강화 프로그램 소개 및 일정 논의

- 2016년 5월 9일 역량강화 프로그램 설명



▲ MOT 추가자료 1

4.1 Towards a Modern Road Network

My intention is to provide a satisfactory transport service to the people of our country
(Mahinda Chintana 2005, p 65)

Overview

Roads are the dominant mode of transport in Sri Lanka and have evolved over more than one century. About 90 percent of passengers and 96 percent of freight are carried by the road. The road network is dense and well laid-out providing basic spatial coverage to the country's population and centres of economic activity. The network's density is among the highest in Asia, as the ratio of road kilometers to population exceeds the related indicators in the neighboring countries.


Table 4.1.1 Comparative Transport Network Indicators, 2009

Country	Population Density	Road Density	
		km/1000 people	km ² of land
Sri Lanka	311	5.50	1.71
India	361	3.00	1.12
Bangladesh	1125	2.00	1.79
Pakistan	212	1.69	0.32

The road network of the country consists of 112,997kms. Roads are divided into National, Provincial, Rural and other roads in terms of the responsibility.

Table 4.1.2 Classification of Roads

Category	Class	Length (km)	% Paved
National Roads	A & B	11,922	99
Provincial Roads	C & D	15,975	70
LA Roads	E	80,600	13
Other Roads	Not Classified	4,500	-
Total		112,997	



The continual increase in investments in the road sector will ensure that the road network will be planned, maintained, constructed and developed to:

- Meet current and expected future demand in the transport of passengers and freight and ensure utilization of resources.

▲ MOT 추가자료 2

3. 도로부(RDA) 업무협의

□ 일시 및 장소: 2016. 4. 8(금) 14:00 도로부

□ 참석자

- 국토연구원 : 오성호 연구위원
- 스리랑카 도로부 : Mr. Ilankoon Mudiyansele Jagath(RDA, Planning Division II Planning Division)

□ 주요사항

- (교통DB) 사전 조사한 STDQ의 RDA 수집 자료 재확인, 추가 자료 확보
- (역량강화) 역량강화 프로그램 소개 및 일정 논의
 - 2016년 5월 9일 역량강화 프로그램 설명



▲ 도로부 안내도

▲ 도로부 관계자 업무협의회 1



▲ 도로부 관계자 업무협의회 2



Introduction to RDA



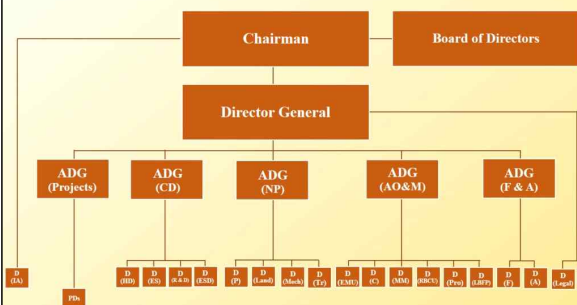
Strategies for Development of National Road Network

- Rehabilitation of the existing network
- Major Improvements including realignment and deviation to existing trunk roads including enhancing capacity in terms of volume and load
- Construction of system of Ring Roads / Bypass to city , Fly – Overs, Major Towns and Urban Centres
- Bridge development
- Construction of Expressways / Highways as alternative to supplement the trunk roads

▲ 추가자료 1

▲ 추가자료 2

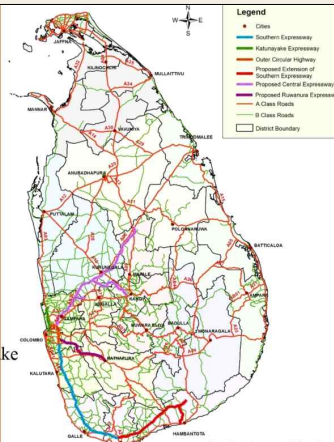
Organization Chart of RDA



Colombo – Katunayake Expressway



Funding : China
Length : 25.80 km
Section: Peliyagoda – Katunayake
Contractor : MCC

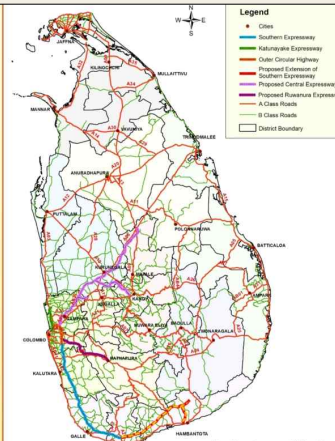


▲ 추가자료 3

▲ 추가자료 4

Extension of STDP

Length: 96 km
Section: Godagama – Mattala - Hambantota
No. of Packages : 4
 I. Godagama – Beliatta
 II. Beliatta – Wetiya
 III. Wetiya – Andarawewa
 IV. Mattala – Hambantota
Present Status:
 Construction commenced for package I



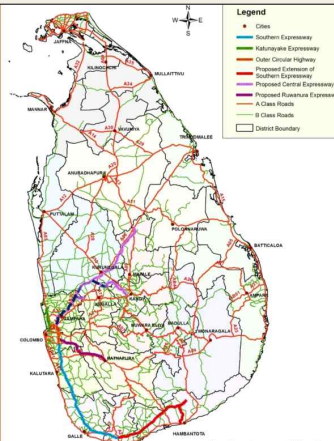
Central Expressway

Section: Kadawatha to Dambulla & Kandy

Length : 197.30 km

Section	Name
1	Kadawatha - Mirigama
2	Mirigama - Kurunegala
3	Pothuhera - Galagedara

Present Status: Section 1 awarded



▲ 추가자료 5

▲ 추가자료 6

4. 경찰청 및 항만부 업무협의

□ 일시 및 장소: 2016. 4. 8(금) 16:00

□ 참석자

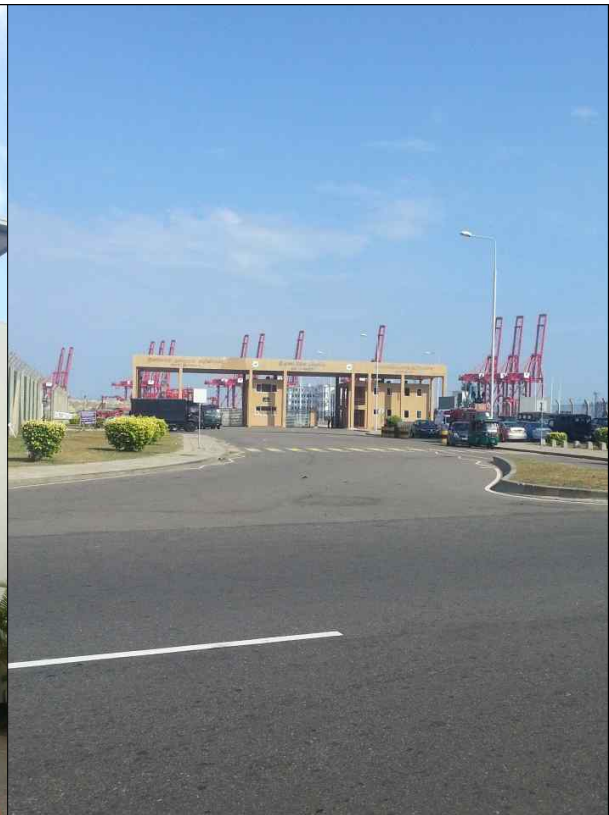
- 국토연구원 : 오성호 연구위원
- 스리랑카 경찰청 및 항만부 관계자

□ 주요사항

- (교통DB) 사전 조사한 STDQ의 경찰청 및 항만 수집 자료 재확인



▲ 스리랑카 경찰청



▲ 스리랑카 항만

5. 현장조사

□ 일시 및 장소: 2016. 4. 9(토) 11:00 콜롬보 일대

□ 참석자

- 국토연구원 : 오성호 연구위원

- 스리랑카의 대중교통으로는 기차, 버스, 툽툽(삼륜차)가 있음
- 기차는 콜롬보의 포트역을 중심으로 방사형 형태로 철도가 뻗어있음
 - 도시 이동간에 기차 이용을 많이 하여, 짐칸 및 문에 매달려서 가는 경우도 있음
- 버스노선은 콜롬보에서 스리랑카의 대부분의 지역으로 노선이 비교적 잘 구축되어 있음
 - 스리랑카 버스는 차장이 존재하여, 차장에게 요금 지불함
 - 시내버스 대부분 에어컨이 미설치 되어 있으며, 앞뒤 버스 문을 열고 운행함
- 툽툽은 대중적인 현지 이동 교통수단으로 근거리 이동시 많이 이용하는 수단임



▲ 현장조사 1

▲ 현장조사 2

▲ 현장조사 3

▲ 현장조사 4

VI. 부록

□ 스리랑카 STDQ

Status of Sri Lanka's Transport Data

I. Transportation Data Index

I-1. Transportation Facilities

Type 1	Type 2	Data Collected? (Y/N)	Who collected? (organization)	from when, latest, collection cycle			How to Access Data? (Web address or organization)	Can you get it in USB?	English? (Y/N)	comments	
				From when (year)	Latest (year)	Cycle (Year/2year)					
Road	Current Status of Expressways	Length(km)	Yes	Road Development Authority		2014	Per year	Road Development Authority	Yes	Yes	Please open file NO 01
		Pavement Rate (%)	No								
	Current Status of Arterials	Length(km)	Yes	RDA(They are responsible for Expressway and National road (A,B))		2014	Per year	Road Development Authority	Yes	Yes	Please open file NO 07 and NO 02 As well as file NO 13 Central bank report 2014 (page 122 to 128)
		Pavement Rate (%)	No								
	Other roads	Length(km)	Yes	PRDA (PTDA responsible for C,D class roads only)			Not exact cycle time	PRDA	Yes	Yes	As well as file NO 13 Central bank report 2014 (page 122 to 128)
		Pavement Rate (%)	No								
Rail	Current Status of Railroad Routes	Length of Railroad(km)	Yes	Sri lanka railway		2014	Per year	Sri lanka railway	Yes	Yes	Refer file NO 03
Aviation	Current Status of Facilities and Capacity in Major Airport	Number of Domestic Land Airports	Yes	Civil aviation Authority of Sri Lanka		2014	Per year	Civil aviation Authority of Sri Lanka http://web.archive.org/	Yes	Yes	
		Number of International Airports	Yes	Civil aviation Authority of Sri Lanka		2014	Per year	Civil aviation Authority of Sri Lanka http://web.archive.org/	Yes	Yes	
		Runway(m)	Yes	Civil aviation Authority of Sri Lanka		2014	Per year	Civil aviation Authority of Sri Lanka http://web.archive.org/	Yes	Yes	
		Mooring Area(m ²)	Yes	Civil aviation Authority of Sri Lanka		2014	Per year	Civil aviation Authority of Sri Lanka http://web.archive.org/	Yes	Yes	
		Terminal Area(m ²)	Yes	Civil aviation Authority of Sri Lanka		2014	Per year	Civil aviation Authority of Sri Lanka http://web.archive.org/	Yes	Yes	Refer file NO 04 and file NO 13 Central bank report 2014 (page 122 to 128)
		Parking Lot Area(m ²)	Yes	Civil aviation Authority of Sri Lanka		2014	Per year	Civil aviation Authority of Sri Lanka http://web.archive.org/	Yes	Yes	

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Type 1	Type 2	Data Collected? (Y/N)	Who collected? (organization)	from when, latest, collection cycle			How to Access Data? (Web address or organization)	Can you get it in USB?	English? (Y/N)	comments	
				From when (year)	Latest (year)	Cycle (Year/2year)					
Maritime	Current Status of Port Facilities and Loading and Unloading Capacity	No. of Flights(Thousand)	Yes	Civil aviation Authority of Sri Lanka		2014	Per year	Civil aviation Authority of Sri Lanka http://web.archive.org/	Yes	Yes	Refer file NO 04 and file NO 13 Central bank report 2014 (page 122 to 128)
		Passenger Handling (10K Passengers)	NO								
	Freight Handling (10K tons)	NO									
	Current Status of Port Facilities and Loading and Unloading Capacity	Number of port	Yes	Sri Lanka port Authority		2012		Sri Lanka port Authority	Yes	Yes	File NO 14 annual report 2012
		Quay(m)	Yes	Sri Lanka port Authority		2012		Sri Lanka port Authority	Yes	Yes	File NO 14 annual report 2012
		Seawall(m)	Yes	Sri Lanka port Authority		2012		Sri Lanka port Authority	Yes	Yes	File NO 14 annual report 2012
		Lighters Wharf(m)	Yes	Sri Lanka port Authority		2012		Sri Lanka port Authority	Yes	Yes	File NO 14 annual report 2012
		Pier(Counts)	Yes	Sri Lanka port Authority		2012		Sri Lanka port Authority	Yes	Yes	File NO 14 annual report 2012
		Berthing Capacity(Counts)	Yes	Sri Lanka port Authority		2012		Sri Lanka port Authority	Yes	Yes	File NO 14 annual report 2012
		Shed(Counts)	Yes	Sri Lanka port Authority		2012		Sri Lanka port Authority	Yes	Yes	File NO 14 annual report 2012
	Current Status of Facilities at Container-only Harbor	Storage(Counts)	Yes	Sri Lanka port Authority		2012		Sri Lanka port Authority	Yes	Yes	File NO 14 annual report 2012
		Loading and Unloading Capacity (Thousand Tons)	NO								
		Loading and Unloading Capacity	NO								
		Berthing Capacity	NO								

- 1) The organizations of which the applying data conducts the survey by themselves
2) Websites if available at online or releasing organizations only if available at offline

I-2. Transport Mode Possession

Type 1	Type 2	Data Collected? (Y/N)	Who collected? (organization)	from when, latest, collection cycle			How to Access Data? (Web address or organization)	Can you get it in USB?	English? (Y/N)	comments	
				Initial	Latest (year)	Cycle					
Road	Vehicle Registration	Registration(vb)	Yes	Department of Motor Traffic	-	2014 December	Monthly	Department of Motor Traffic	Yes	Yes	Please refer file NO 05 and file NO 13 Central bank report 2014 (page 122 to 128)
	No. of Registered Trucking Vehicles by Types	Registration(vb)	Yes	Department of Motor Traffic	-	2014 December	Monthly	Department of Motor Traffic	Yes	Yes	Please refer file NO 05 and file NO 13 Central bank report 2014 (page 122 to 128)
Rail	No. of Holding Vehicles by Types of Trains	Holding Vehicle(vb)	Yes	Sri lanka railway		2014	Per year	Sri lanka railway	Yes	Yes	Refer file NO 03

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Aviation	No. of Holding Vehicles by Types of Aircrafts	Holding Vehicle(s)(vh)	Yes	Civil aviation Authority of Sri Lanka	2014	Per year	Civil Aviation Authority of Sri Lanka http://web.archive.org/	Yes	Yes	Refer file NO 04
	No. of Flights by Airports	Flights(Count)	Yes	Civil aviation Authority of Sri Lanka	2014	Per year	Civil Aviation Authority of Sri Lanka http://web.archive.org/	Yes	Yes	Refer file NO 04 annual report 2014 (page nu.50 to 52), as well you can get Days of Operations and Number of Movements on each day at BIA from file NO 08
Maritime	Current of Ships	No. of Ships (Count)	Yes	Sri Lanka port Authority	2012		Sri Lanka port Authority	Yes	Yes	File NO 14 annual report 2012
		Gross Tonnage of Ships(Thousand GT)	Yes	Sri Lanka port Authority	2012		Sri Lanka port Authority	Yes	Yes	File NO 14 annual report 2012

I-3. Operated transport Records

1. Transported Records between Nodes by Bus/Rail and Transported Records on Road

Type 1	Type 2	Data Collected? (Y/N)	Who collected?	from when, latest, collection cycle			How to Access Data? (Web address or organization)	Can you get it in USB?	English? (y/n)	comments	
				Initial	Latest	Cycle					
Transported Records between Nodes by Bus/Rail	Current Status of Services and Passengers between Terminals by Express Bus Monthly	Distance(km)	Yes	Sri Lanka Transport Board	2014	Per year	Sri Lanka Transport Board	Yes	Yes	General information you can get file NO 06	
		Operation Frequency (Times)	Yes	Sri Lanka Transport Board	2014	Per year	Sri Lanka Transport Board	Yes	Yes	General information you can get file NO 06	
		Passengers	Yes	Sri Lanka Transport Board	2014	Per year	Sri Lanka Transport Board	Yes	Yes	General information you can get file NO 06	
		No. of Seats(Count)	No								
	Monthly Freight between Stations by Rail	Transported Records (Passenger-km)	Usage Rate(%)	No							
			Ton	Yes	Sri Lanka Railway	2014	Per year	Sri Lanka Railway	Yes	Yes	Refer file NO 03
			Ton-km	Yes	Sri Lanka Railway	2014	Per year	Sri Lanka Railway	Yes	Yes	Refer file NO 03
		Monthly Passengers between Stations by Rail	Distance between Stations(km)	Yes	Sri Lanka Railway	2014	Per year	Sri Lanka Railway	Yes	Yes	Refer file NO 03
			No. of Locomotives (Count)	Yes	Sri Lanka Railway	2014	Per year	Sri Lanka Railway	Yes	Yes	Refer file NO 03
			Passengers	Yes	Sri Lanka Railway	2014	Per year	Sri Lanka Railway	Yes	Yes	Refer file NO 03
Road	Traffic Volumes on Highway	Passenger-100m	No								
		Traffic Volume (veh/day)	Yes	Road Development Authority	2014	Per year	www.rda.gov.lk	Yes	Yes	Refer file NO 07 (Annual report of 2014 RDA)	
	Composition Rates(%)	Yes	Road Development Authority	2014	Per year	Road Development Authority	2014	Per year	31 03 2016 additional data(ADT MCC February 2016)		
	Identification Factor(%)	Yes	Road Development Authority	2014	Per year	Road Development Authority	2014	Per year	31 03 2016 additional data(ADT MCC February 2016)		
Traffic Volumes by types	Traffic Volume (veh/day)	Yes	Road Development Authority	2014	Per year	www.rda.gov.lk	Yes	Yes	Refer file NO 07 (Annual report of 2014 RDA)		
	Composition Rates(%)	Yes	Road Development Authority	2014	Per year	Road Development Authority	2014	Per year	31 03 2016 additional data(ADT MCC February 2016)		
	Identification Factor(%)	Yes	Road Development Authority	2014	Per year	Road Development Authority	2014	Per year	31 03 2016 additional data(ADT MCC February 2016)		

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2. Transported Records by Rail/Aviation/Maritime

Type 1	Type 2	Data Collected? (Y/N)	Who collected?	from when, latest, collection cycle			How to Access Data? (Web address or organization)	Can you get it in USB?	English? (y/n)	comments
				Initial	Latest	Cycle				
Rail	No. of Operations	Operation Frequency(Times)	Yes	Sri Lanka Railway	2014	Per year	Sri Lanka Railway	Yes	Yes	Refer file NO 03
	Transported Records of Passengers by Railroad in Each Type of Rail	Thousand Passengers	Yes	Sri Lanka Railway	2014	Per year	Sri Lanka Railway	Yes	Yes	Refer file NO 03
		Million Passenger-km	Yes	Sri Lanka Railway	2014	Per year	Sri Lanka Railway	Yes	Yes	Refer file NO 03
	Transported Records of Freight by Railroad in Each Type of Items	Tons	Yes	Sri Lanka Railway	2014	Per year	Sri Lanka Railway	Yes	Yes	Refer file NO 03
Ton-km		Yes	Sri Lanka Railway	2014	Per year	Sri Lanka Railway	Yes	Yes	Refer file NO 03	
Aviation	Annual Transported Records of Passenger	Passengers	Yes	Sri Lanka Tourism Development Authority and Civil Aviation Authority of Sri Lanka	2014	Per year	Sri Lanka Tourism Development Authority and Civil Aviation Authority of Sri Lanka	Yes	Yes	File NO 04 (Annual report page 49 to 52) File NO 15(Annual report page 37 to 40) file NO 13 Central bank report 2014 (page 122 to 128)
	Annual Transported Records of Freight	Tons	Yes	Civil aviation Authority of Sri Lanka	2014	Per year	Civil Aviation Authority of Sri Lanka	Yes	Yes	Refer file NO 04
Maritime	Current Status of Handling Containers by Each Port	Amount of Handling Containers (Thousand TEU)	Yes	Central bank	2014	Per year	Central bank	Yes	Yes	file NO 13 Central bank report 2014 (page 122 to 128)
		Tonnage in Freight (Thousand RT)	Yes	Central bank	2014	Per year	Central bank	Yes	Yes	file NO 13 Central bank report 2014 (page 122 to 128)
	Transported Records of Freight at Port	Thousand RT	Yes	Central bank	2014	Per year	Central bank	Yes	Yes	file NO 13 Central bank report 2014 (page 122 to 128)
		Thousand Passengers	Yes	Sri Lanka Tourism Development Authority	2014	Per year	Sri Lanka Tourism Development Authority	Yes	Yes	File NO 15 (Page 37 to 40)
	Transported Records of Liners	Thousand RT	No							
		Thousand Passengers	No							
	Transported Records of Coastal Manner Freight	RT	No							No coast shipping
Records of Freight Arrival and Departure by Each Ports	Thousand RT	Yes	Central bank	2014	Per year	Central bank	Yes	Yes	file NO 13 Central bank report 2014 (page 122 to 128)	

I-4. Transportation Accidents

Type 1	Type 2	Data Collected? (Y/N)	Who collected?	from when, latest, collection cycle			How to Access Data? (Web address or organization)	Can you get it in USB?	English? (y/n)	comments
				Initial	Latest	Cycle				
Road	No. of Traffic Accidents and Fatalities	Accidents(Count)	Yes	Sri Lanka Police, MOT, Department of Census and Statistics	2014	Per year	Sri Lanka Police, MOT, Department of Census and Statistics	Yes	Yes	File NO 08 (MOT Data)
		Fatalities(People)	Yes	Sri Lanka Police, MOT, Department of Census and Statistics	2014	Per year	Sri Lanka Police, MOT, Department of Census and Statistics	Yes	Yes	File NO 08 (MOT Data)
		Injuries(People)	Yes	Sri Lanka Police, MOT, Department of Census and Statistics	2014	Per year	Sri Lanka Police, MOT, Department of Census and Statistics	Yes	Yes	File NO 08 (MOT Data)
Rail	Current Status of Accidents at Railroad	Accidents(Count)	Yes	Sri Lanka Railway	2014	Per year	Sri Lanka Railway	Yes	Yes	Refer file NO 03
		Casualties(People)	Yes	Sri Lanka Railway	2014	Per year	Sri Lanka Railway	Yes	Yes	Refer file NO 03

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Aviation	Current Status of Accidents by Aircraft	Accidents(Count)	Yes	Civil aviation Authority of Sri Lanka	2014	Per year	Civil Aviation Authority of Sri Lanka http://web.archive.org/	Yes	Yes	No that much of Accident, But Bird strike data analysis report you can see file NO 04, As well refer file NO 08
		Fatalities(People)	Yes	Civil aviation Authority of Sri Lanka	2014	Per year	Civil Aviation Authority of Sri Lanka http://web.archive.org/	Yes	Yes	Refer file NO 04
		Amount of Losses (Million USD)	Yes	Civil aviation Authority of Sri Lanka	2014	Per year	Civil Aviation Authority of Sri Lanka http://web.archive.org/	Yes	Yes	Refer file NO 04
Maritime	Current Status of Accidents	Ship(ships)	Yes	Sri Lanka port Authority	2012		Sri Lanka port Authority	Yes	Yes	File NO 14 annual report 2012

II. Basic Data for Transportation Demand Estimation

II – 1. O/D(Household Travel Survey)

Type 1	Type 2	Data Collected? (Y/N)	Who collected?	from when, latest, collection cycle			How to Access Data? (Web address or organization)	Can you get it in USB?	English? (Y/N)	comments
				Initial	Latest	Cycle				
Passenger O/D Survey	National Household Travel Survey	Yes	Ministry of Transport		2014	Per 10 year	Ministry of Transport	Yes	Yes	
	National Travel Survey at Weekends	Yes	Ministry of Transport		2014	Per 10 year	Ministry of Transport	Yes	Yes	
	Other Survey	Yes	Ministry of Transport		2014	Per 10 year	Ministry of Transport	Yes	Yes	
Freight O/D Survey	Logistics Structure Survey	No								
	Travel Survey for Trucking	No								
	Hub Logistics Survey	No								
Raw Unit Survey for Trip Generation	Facility Management Survey	No								
	User Activity Behavior Survey	No								

II – 2. Socio – economic Data

1. Land & Population and Industry & Economy Index

Type 1	Type 2	Data Collected? (Y/N)	Who collected?	from when, latest, collection cycle			How to Access Data? (Web address or organization)	Can you get it in USB?	English? (Y/N)	comments	
				Initial	Latest	Cycle					
Land & Population	Land Area	is'	Department of Census and Statistic		2012	Per 10 year	Department of Census and Statistic	Yes	Yes	Please refer file NO 09	
	Current Status of Land Use	is'	Department of Census and Statistic		2012	Per 10 year	Department of Census and Statistic	Yes	Yes	Please refer file NO 09	
	Total Floor Area of Building by Land Use	No. of Buildings per each range or m'	Yes	Department of Census and Statistic		2012	Per 10 year	Department of Census and Statistic	Yes	Yes	Please refer file NO 09
	No. of Administrative District	No. of Districts	Yes	Department of Census and Statistic		2012	Per 10 year	Department of Census and Statistic	Yes	Yes	Please refer file NO 09
	Population and No. of Household	People	Yes	Department of Census and Statistic		2012	Per 10 year	Department of Census and Statistic	Yes	Yes	Please refer file NO 09
		Household	Yes	Department of Census and Statistic		2012	Per 10 year	Department of Census and Statistic	Yes	Yes	Please refer file NO 09
	Resident-registered Population and Resident-registered No. of Households	People	Yes	Department of Census and Statistic		2012	Per 10 year	Department of Census and Statistic	Yes	Yes	Please refer file NO 09
		No. of Households	Yes	Department of Census and Statistic		2012	Per 10 year	Department of Census and Statistic	Yes	Yes	Please refer file NO 09
		People-Household	Yes	Department of Census and Statistic		2012	Per 10 year	Department of Census and Statistic	Yes	Yes	Please refer file NO 09
	No. of Accommodating Students	No. of Schools (Counts)	Yes	Ministry of Education Sri Lanka		2013	Per year	Ministry of Education Sri Lanka	Yes	Yes	Please refer file NO 10

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Type 1	Type 2	Data Collected? (Y/N)	Who collected?	from when, latest, collection cycle			How to Access Data? (Web address or organization)	Can you get it in USB?	English? (Y/N)	comments	
				Initial	Latest	Cycle					
Employed Populations	No. of Classrooms (Counts)	Yes	Ministry of Education Sri Lanka		2013	Per year	Ministry of Education Sri Lanka	Yes	Yes	Please refer file NO 10	
	No. of Students (People)	Yes	Ministry of Education Sri Lanka		2013	Per year	Ministry of Education Sri Lanka	Yes	Yes	Please refer file NO 10	
	(Un)Employed Populations (Thousand People)	Yes	Department of Census and Statistic, Central Bank		2013	Per year	Department of Census and Statistic, Central Bank	Yes	Yes	Please refer file NO 11 and 13	
	Population Density	People/m'	Yes	Department of Census and Statistic		2012	Per 10 year	Department of Census and Statistic	Yes	Yes	Please refer file NO 09
	Estimated Population	People	No								
No. of People with Driver's License	People	Yes	Department of Motor Traffic		2015 December	Per month	Department of Motor Traffic	Yes	Yes	Please refer NO 05	
No. of Companies and Workers by Industry	No. of Companies (Count)	Yes	Department of Census and Statistic, Central Bank		2012	Per 10 year	Department of Census and Statistic, Central Bank	Yes	Yes	Please refer file NO 12 and 13	
	No. of Workers (People)	Yes	Department of Census and Statistic, Central Bank		2012	Per 10 year	Department of Census and Statistic, Central Bank	Yes	Yes	Please refer file NO 12 and 13	
	Current Status of Trucking Service	No. of Companies (Count) No. of Workers (People) Money(USD) No. of Equipment (Count)	No No No No								
Industry & Economy	Gross Regional Domestic Product	Billion USD	Yes	Central Bank of Sri Lanka and Department of Census and Statistic		2015 2 nd quarter	Per quarter	Central Bank of Sri Lanka and Department of Census and Statistic	Yes	Yes	Please refer file NO 13
	Gross Domestic Product	Billion USD	Yes	Central Bank of Sri Lanka and Department of Census and Statistic		2015 2 nd quarter	Per quarter	Central Bank of Sri Lanka and Department of Census and Statistic	Yes	Yes	Please refer file NO 13
	Gross National Income	Billion USD	Yes	Central Bank of Sri Lanka and Department of Census and Statistic		2015 2 nd quarter	Per quarter	Central Bank of Sri Lanka and Department of Census and Statistic	Yes	Yes	Please refer file NO 13
	Current Status of Import/Export	Thousand USD	Yes	Central Bank of Sri Lanka and Department of Census and Statistic		2015 2 nd quarter	Per quarter	Central Bank of Sri Lanka and Department of Census and Statistic	Yes	Yes	Please refer file NO 13

Note) USD means United States Dollars. If the different currency (e.g. the currency in your country) is used, please put comments at 'others'.

2. Transportation Cost & Budget and Consumption & Fee Index

Type 1	Type 2	Data Collected? (Y/N)	Who collected?	from when, latest, collection cycle			How to Access Data? (Web address or organization)	Can you get it in USB?	English? (Y/N)	comments	
				Initial	Latest	Cycle					
Transportation Cost and Budget	Construction and Transportation Budget	Billion USD	Yes	Ministry of Finance & Planning		2014	Per year	Ministry of Finance & Planning	Yes	Yes	
	Bus Fee	USD	Yes	Sri Lanka Transport Board				Sri Lanka Transport Board	Yes	No	Please refer file NO 06
	Taxi Fee	USD	Yes	Sri Lanka Railway				Sri Lanka Railway	Yes	Yes	Self-regulation of Market
	Railroad Fee between Regions	USD	No								No subway in Sri Lanka
Consumption & Fee	Subway Fee	USD	No								No subway in Sri Lanka
	Aviation Fee	USD	Yes	Civil aviation Authority of Sri Lanka				http://www.airport.lk	Yes	Yes	
	Trucking Fee	USD	No								
Highway Toll Fee by Vehicle Type	Highway Toll Fee by Vehicle Type	USD	Yes	Road Development Authority				Road Development Authority	Yes	Yes	Please refer file NO 01
	Usage Fee for Aviation Facilities	Thousand USD	Yes	Civil aviation Authority of Sri Lanka		2015	Per year	http://www.airport.lk	Yes	Yes	

Note) USD means United States Dollars. If the different currency (e.g. the currency in your country) is used, please put comments at 'others'.

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II –3. Development Plan

Type 1	Type 2	Planning? (Y/N)	Who Planned?	from whom, latest, collection cycle			How to Access Data? (Web address or organization)	Can you get it in USB?	English? (Y/N)	comments
				Initial	Latest	Cycle				
National Development Plans	-	Yes	National Physical Planning Department		2012		National Physical Planning Department	Yes	Yes	
Local Development Plans	-	Yes	National Physical Planning Department		2012		National Physical Planning Department	Yes	Yes	

II –4. Transportation Plan

Type 1	Type 2	Planning? (Y/N)	Who Planned?	from whom, latest, collection cycle			How to Access Data? (Web address or organization)	Can you get it in USB?	English? (Y/N)	comments
				Initial	Latest	Cycle				
Plan for a Road (Official Plan)	Expressways	Yes	Road development authority		2012		National Physical Planning Department	Yes	Yes	
	Arterials	Yes			2012		National Physical Planning Department	Yes	Yes	
	Other roads	Yes			2012		National Physical Planning Department	Yes	Yes	
Plan for a Railroad (Official Plan)	-	Yes	Sri Lanka Railway		2012		National Physical Planning Department	Yes	Yes	
Plan for an Aviation (Official Plan)	-	Yes	Civil aviation Authority		2012		National Physical Planning Department	Yes	Yes	
Plan for a Port (Official Plan)	-	Yes	Sri Lanka Ports Authority		2012		National Physical Planning Department	Yes	Yes	
Or Comprehensive Plan(Official Plan)	-	Yes	National Physical Planning Department		2012		National Physical Planning Department	Yes	Yes	

III. Any special Data in your Country

Type 1	Type 2	Data Collected? (Y/N)	Who collected?	from whom, latest, collection cycle			How to Access Data? (Web address or organization)	Can you get it in USB?	English? (Y/N)	comments	
				Initial	Latest	Cycle					
Current Status of Facilities and Major Airport	Capacity in	Number of Domestic Water Aerodromes	Yes	Civil aviation Authority of Sri Lanka		2014	Per year	Civil aviation Authority of Sri Lanka http://web.archive.org/	Yes	Yes	

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Note:--

Please refer File NO X, (CoMTrans Final Report) which is the report done by Japanese expert two years before. It will be helpful for you collecting more information about Sri Lanka

As well as Fill NO Y include 'Central Bank of Sri Lanka Annual Report 2014'

Name of Organization

Web Address

Road Development Authority (RDA)

www.rda.gov.lk

Expressway Operation Maintenance and Management Division

www.exway.rda.gov.lk

Ministry of Transport and Civil Aviation Sri Lanka (MOT)

www.transport.gov.lk

Department of Census and Statistics Sri Lanka

www.statistics.gov.lk

Sri Lanka Port Authority

www.slpa.lk

Sri Lanka Police

www.police.lk

Sri Lanka Railway

www.railway.gov.lk

Department of Motor Traffic

www.mototraffic.gov.lk

Sri Lanka Transport Board

www.slta.lk

Central Bank of Sri Lanka

www.cbsl.gov.lk

Sri Lanka Tourism Development Authority

www.sltda.gov.lk

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