Ministry of Physical Planning and Works	AGENDA
Windstry of Physical Plaining and works Department of Roads Data Collection Survey on Traffic Improvement in Kathmandu Valley <u>2ND</u> WORKSHOP Agenda for Workshop 27nd July, 2012 JICA Survey Team	 Greeting & Explanation of DFR (JICA Survey Team : Mr. Shinkai) Explanation of Draft Final Report by JICA Survey Team (part-1) Road Development Plans & Present Road Condition (Mr. Toriu) Traffic Movement and Issues (Mr. Ohwaki) Future Traffic Demand Forecast (Mr. Nakaseko) 1st Discussions Tea Break Explanation of Draft Final Report by JICA Survey Team (part-2) Present Land-use Development and Issues (Mr. Odake) Road Network and Issues & Recommendation to the future M/P (Mr. Shinkai) 2nd Discussions Closing Remarks by Representative of DOR
Data Collection Survey on Traffic Improvement in Kathmandu Valley	Objectives of the Survey
 Greeting & Explanation of DFR Objectives of the Survey Survey Area Schedule and Progress of the Survey Counterpart Agency 	 Terms of Reference of the Survey Is: (1) Review of the exiting information, studies, plans and projects (2) Basic data collection of urban plan (3) Traffic survey and road inventory survey (4) Future traffic demand forecast (5) Identification of major traffic related issues and problems in Kathmandu Valley (6) Recommendations to the future M/P (7) Counterpart training in Japan
Survey Area	Schedule and Progress of the Survey
RATHMAND RATHMAND DISTRICT HITARING HITARI	Calendar Month PY 2011 PY 2012 Work Item PY 2011 S PY 2012 [1] Preparatory Works and Data collection PY 2012 S P [2] Traffic Survey & Data Processing P P P P [3] Interim Report P P P P P [4] Analysis of Survey Results P P P P P [5] Identification of Major Traffic Issues Progress of this phase P P P [6] Draft Final Report P P P P P 1 Madda Instruction (1) Single (1) Finals) P P P P 2 Tatle Survey P P P P P 1 Tatle Survey P P P P P 2 Tatle Survey P P P P P 3 Tatle Survey P P P P P P 3 Tatle Survey P P P P P P P 3 Tatle Survey P P P P P P P 3 Tatle Survey (1) placon P <

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Counterpart Agency

- Technical Committee was set up under the chair of Director General of DOR:
 - (1) Department of Roads (DOR)
 - (2) Department of Urban Development and Building Construction (DUDBC)
 - (3) Department of Transport Management (DOTM)
 - (4) Metropolitan Traffic Police (MTP)
 - (5) Kathmandu Metropolitan City (KMC)
 - (6) Lalitpur Sub-Metropolitan City (LSMC)
 - (7) Bakhtapur Metropolitan City (BMC)

CONTENTS

1. Road Development Plans

- 1.1 Development Concept of the previous M/P (in 1993)
- 1.2 Implemented Projects after the previous M/P (in 1993)
- 1.3 On-going Major Road Improvement Projects

2. Present Road Condition

- 2.1 Outline of Road Inventory Survey
- 2.2 Target Route of the Survey
- 2.3 Survey Results





7

9

Ministry of Physical Planning, Works and Transport Management, Department of Roads



Data Collection Survey on Traffic Improvement in Kathmandu Valley

2ND WORKSHOP

Road Development Plans Present Road Condition

27th July, 2012 M. Toriu / JICA Survey Team

1.1 Development Concept of the previous M/P (in 1993)



1.3 On-going Major Road Improvement Projects

- <u>Bhaktapur Dhulikel Road Widening Project</u> Widening to 4-lane section designed in 2011 by DOR finance
 Kathmandu Sustainable Urban Transport Project (KSUTP)
- To Rationalize existing fleet of public transport vehicles, pilot routes for public bus operation, Improvement BLR junctions etc proposed by ADB and financed by ADB, GON and GEF (Global Environment Facility) 3. Ring Road Improvement Project
- <u>Ring Road Improvement Project</u> KVTDC (KVDA) has initiated and studied the Ring Road Improvement Project comprising widening to 4-lane, improvement of service road, conservation and management of green belts etc in 2003. China is under implementation for re-design works and construction for Ring Road.
- 4. <u>Outer Ring Road Development Project</u> Prefeasibility study of Outer Ring Road was conducted by NEPECON in 2000. The proposed alignment of 66 km was evaluated and changed to a new alignment of about 72 km (This is latest alignment) in accordance with the nodal points decided by the cabinet.
- Grade Separated Intersections at Five Major Junctions in Kathmandu DOR has planned to develop five major intersections: Old Baneshwor, New Baneshwor, Thapathali, Tripureshwor and Kalimati
- 6. <u>Kathmandu Valley Road Widening Projects</u>
 - The actual progress till the end of June 2012 has been reached to 35 km approximately, and another 30 km will be demolished aftertime by KVTDC (KVDA) cooperated with Municipality, MTP and DOR De cilcures and Marker Devel accurate Devices.
- Railway and Metro Development Project
 Feasibility Study of Mass Rapid Transit (Underground and Elevated Railway) Systems in Kathmandu Valley on December 28, 2011 by Department of Railways cooperated with consortium of Chungsuk Engineering. Co. Ltd., Korea, Transport Institute, Korea, Korea Rail Network Authority, Korea, ERMC (P) Ltd, Nepal, BDA (P) Ltd., Nepal

2.1 **Outline of Road Inventory Survey**

2.1.1 **Road Inventory Survey**

Road Inventory Survey on major arterial roads, constituting the frame of Kathmandu Valley which includes National Highways, Feeder Roads and Urban Roads, was conducted by JICA Survey Team during December, 2011 to April, 2012 to identify the existing characteristics, problems and issues on the traffic and road network in Kathmandu Valley.

2.1.2 **Roadside Condition Survey**

Roadside Condition Survey was conducted on National Highways, Feeder Roads and Major River Corridors to clarify the possibility of improvement for future road widening in terms of the difficulty of land acquisition.

2.2 **Target Route of the Survey**



2.3 **Survey Results**







2. Vehicle Movement

(1) Comparison between 2011 and 1991

Largest increase is Motorcycle (19.8 times) and Minibus, Micro bus (10.6 times).



(3) Traffic Volume Max. Traffic Volume: 94,689 vehicles/24h (Thapathali) 33



31

(2) Vehicle Trip Desire Line

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(4) Movement with Outside



and miscellaneous. 78% of outbound truck carries no luggage.

Type of Truck Cargo at Thankot Agriculture II Oil

Vehicle Movement with Outside < 7,510 15,420 Eastern Outside - 10.0 Type of Truck Cargo at Nagkhel Agriculture II Oil Minera Machinan Chemicals Construction Material Miscellaneous

Bus operation in Kathmandu valley

107

2 220

Number of Operation Route 21 913 7,749 90 2,036 14,120

2,036 320

5.295

7,749 14,120

9,822 1,140

32,835

Kathmandu N.P. attracts

peripheral area.

movement as the center, and

also function as the center of

Lalitpur and Bhaktapur N.P.

3. Bus Operation and Movement

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(1) Bus Operation

- Around 5,300 buses are •
 - operating on 220 routes.
- Total operation is 32,800. . Among them, 12,900 are • operating from Kathmandu city
- center

Minibus Large Bus Total Bus operation from terminal

	Large Bus	Minibus	Micro Bus	Tempo	Total
Old Bus Park	110	1,115	1,086	0	2,311
Ratnapark	45	288	3,438	1,025	4,796
NAC	0	367	2,042	2,444	4,853
Sahidgate	0	69	833	0	902
(Kathmandu center total)	155	1,839	7,399	3,469	12,862
Lagankhel	80	1,324	2,584	1,200	5,144
Gongabun Bus Park	169	605	230	0	1,004

Tempo Micro Bus

32







AP 6-30



AP 6-31







75











74

1.2 Issues

150p/ha



1.2 Issues

(1) Land use and urban development issues

- i) Necessity of Land Use Plan for outside of the Ring Road: Existing land use definition outside of the Ring Road is just identifying urban VDCs as "Urban Expansion Zone" only. Detailed Land Use Plan is required.
- ii) Need guideline for Land pooling project: Some of LP projects in the Valley are not contributing much to strengthen road network.
- **iii) Necessity of environmental protection measure**: Land use zoning outside the Ring Road is quite rough zoning to control urbanization expansion. Mountain slope, river banks and agricultural fields should be clearly defined as protection or conservation zone.
- iv) Need of cargo terminals and passenger terminals: In Kathmandu Valley there are no planned cargo terminals. Cargo trucks come from outside of the Valley use road side of the Ring Road as a transshipment yard. This causes traffic congestion along the Ring Road.

Land-Use and Urban Development

79

1.2 Issues

(3) Regulation and Institutional issues

- i) Necessity of any comprehensive guiding framework: Because of unstable government, Kathmandu Valley does not have a clear comprehensive guiding framework of urban development for all ongoing and proposed future development.
- ii) Need strong urban development management in KV: KVDA was established as a upgraded institute from TVTDC. However, there are still unclear demarcation.
- iii) Need manpower for building control: The system is not effective to private individual building.
- iv) Need capacity building for public servants: Continuous training for governmental staffs is not enough to keep certain level of knowledge to implement projects appropriately.

Land-Use and Urban Development

81

2. Recommendation on Urban Sector





Land-Use and Urban Development

1.2 Issues

(2) Population issues

- i) Necessity of Population density plan: Northern and southern part of outside of the Ring Road showed higher growth rate during this decade. Gothatar, Kapan, Manmaiju, and IchangNarayan reached 12% growth rate, while Dhapasi, Gonggabu, Mahankai, and Chapali Bharakali VDC of KTM, Sainbu and Imadoi VDC of Lalitpur over 8%. It is necessary to designate population density plan together with Land Use Plan.
- ii) Necessity of urbanization control: Built-up area expansion trend until around year 2000 was linearly happened mainly along existing feeder roads. After 2000, built-up area spread over a large area of outside the Ring Road without certain road network expansion. KVBB 2007 has regulation of access road for new development, however this rule does not contribute to strengthen road network in the Valley.

Land-Use and Urban Development

1.2 Issues

(4) Private sector issues

i) Necessity of appropriate control of realty market: After the earthquake and policy change of housing loan, the realty market was cooled down. But investment from private sector is vital engine of economic growth. Appropriate measure is necessary to guide investment in urban development.

(5) Housing Issues

i) Need sufficient supply of housing units and planned housing land: Although population in the KV has been rapidly increasing, supply of housing unit and planned housing land is not sufficient. Public sector has to have responsibility of housing for disadvantaged people. DUDBC do their effort on this issue, but cannot meet the required target because of manpower and its budget.

Land-Use and Urban Development

82

80

2. Recommendation on Urban Sector

(1) For the future Master Plan Study

- i) Determine Urban Development Scenario in the KV:
- It is necessary to discuss and determine future development vision of the KV among the related stakeholders of the government. The scenarios should consider the result of case study of future traffic assignment and population distribution by population density planning.
- The future Master Plan should be planned based on the discussed scenario.
- ii) Determine Concept of the KV Land Use and Zoning Plan :
- It is necessary to review, discuss and determine direction and outline of revision of KV Land Use and Zoning Plan the Plan. Detailed revision of the Land Use Zoning will be next phase.

iii) Guideline for Urban Development to Strengthen Road Network :

 It is necessary to draw-up guideline for large scale urban development to strengthen feeder road and ladder road network by utilizing Land Pooling or other urban development scheme.

Land-Use and Urban Development

2. Recommendation on Urban Sector

(1) For the future Master Plan Study-cont.

iv) Plan Passenger Terminals :

- There are two bus terminals developed, which planned in 1993 Master Plan. However spreading out of bus stops shows necessity for more space of planned transportation terminals in the Valley.
- Although it is needed to secure certain land for terminals to develop transportation terminal, it is difficult to find open space for the terminals. It is necessary to develop surrounding area with the terminals. Urban redevelopment scheme should be introduced.

v) Plan Logistic Center and Industrial park :

 Logistic Centers and logistic centers are necessary and should be determined its location, function and size in the Master Plan to encourage economic and social development. Industrial park also considered in the Master Plan together with cargo terminals.

Land-Use and Urban Development

85

2. Recommendation on Urban Sector

(2) Besides Transportation Master Plan Study-cont.

- iii) <u>Prepare a Comprehensive Development Plan for the KV including</u> <u>update the Land Use, Zoning Plan, Development Control</u> <u>Regulations & Building Byelaws</u>:
- It is necessary to draw-up guideline for large scale urban development to strengthen feeder road and ladder road network by utilizing Land Pooling or other urban development scheme.

Land-Use and Urban Development

87

CONTENTS

1 Road Network and Issues

1-1 Overall Observation of the Existing Road Network

- 1-2 Specific Issues of Existing Road Network
- 1-3 Issues on Road Structure and Design
- 2 Recommendations to the future M/P

2. Recommendation on Urban Sector

(2) Besides Transportation Master Plan Study

- i) Institutional Strengthening, Capacity Building & Training :
- It is necessary to enhancement of Planning Skills for young staffs of DUDBC, KVDA and Municipalities.
- OJT type technical cooperation through on-going project such as Land Pooling project and Outer Ring Road project is necessary to strengthen knowledge and experience of younger staffs.
- ii) <u>Formulate Draft Rule and Regulation on Urban Development to</u> Strengthen Road Network :
- There is not enough guidance or instruction to draw appropriate development plan.
- It is necessary to draw-up guideline for large scale urban development to strengthen feeder road and ladder road network by utilizing Land Pooling or other urban development scheme.

Land-Use and Urban Development



Ministry of Physical Planning, Works and Transport Management, Department of Roads



86

Data Collection Survey on Traffic Improvement in Kathmandu Valley



Road Network and Issues

Recommendation to the future M/P

27th July, 2012 H. Shinkai / JICA Survey Team

1-1 Overall Observation of the Existing Road Network (1/5)

(1) Need of road network reinforcement

Kathmandu Valley is fairly well provided with road network.

However, problem is the quality of those roads.

Most of roads, except some major roads, do not meet the requirement of increasing traffic demand due to low substandard geometry and lack of the connector roads



Road Network System in Kathmandu valley

90

1-1 Overall Observation of the Existing Road Network (2/5)

(2) Need of the Connector Road like Outer Ring Road

- At the moment, there is no connector road linking feeder roads radiating from the Ring Road.
- As the result, driver is forced into the excessive driving which one of the causes of traffic jam on the existing Ring Road.
- The construction of ORR will contribute not only to reduce the traffic flow on the existing Ring Road but also to facilitate the urban expansion and guide the development of landuse
- It should be discussed in the future M/P giving a high priority.



1-1 Overall Observation of the Existing Road Network (4/5)

(4) Low standard of feeder roads:

- Although the feeder road network is fairly developed, the quality of feeder road is still far below standard as shown in the figure.
- Since the feeder roads are an important infrastructure supporting the social and economic activities in the rural areas, future M/P should discuss the improvement measures for those feeder roads.



93

91

1-2 Specific issues of the Existing Road Network (1/7)

(1) Issue of Tribuban National Highway

- The Tribuban Highway is gateway to the Kathmandu Valley and one of the most important roads carrying large traffic .
- Widening of Kathmandu Thankhot is necessary however, it would be difficult due to the location of many buildings encroaching on the ROW.
- Many alternative route studies for the Kathmandu-Naubise were conducted in the past including JICA study.
- The survey team recognized the need of alternative route and earlier implementation is expected.

Various alternative plans between Kathmandu and Naubise

95

1-1 Overall Observation of the Existing Road Network (3/5)

(3) Necessity of additional links between Kathmandu - Bhaktapur Corridor

Since the current urban expansion continues along the Kathmandu Bhaktapur corridor, the city of Bhaktapur would be integrated into the scarf of Kathmandu and Laritpur cities in the near future

Future M/P should examine the necessity of those additional links as shown in the figure to enhance the development of the areas between Kathmandu and Bhaktapur taking into consideration the impact of the new road K-B road completed last vear.



Additional Links between Kathmandu and Bhakutapur Corridor

92

1-1 Overall Observation of the Existing Road Network (5/5)

(5)Weakness of north-south axis inside the Ring Road

- Traffic survey revealed that north-south axis consisting of Kanthipass (F025) and Pulchouk (F103)) is one of the most busy roads inside the Ring Road carrying daily traffic of 50,000 - 94,000.
- However, the traffic capacities of this axis, particularly north and south sections, is extremely short because of narrow road having only two lanes
- KVTDC is currently undertaking the widening of ROW for those road therefore, the road will be upgraded to be 4 lane-road in near future .





94

96

1-2 Specific issues of the Existing Road Network (2/7)

(2) Need of upgrading Bhaktapur - Dhulikhel (Arniko Highway)

- Since Banepa and Dhulikhel are located within the influence area of Kathmandu Valley, traffic demand in between Kathmandu and Dhulikhel will increase rapidly in the future, especially after full opening of Sindhuli Road.
- The survey team identified the need of upgrading Bhaktapur-Dhulikhel road applying the same standard of Kathmandu-Bhakutapur Road,







AP 6-38

1-3 Issues on Road Structure and Design Recommendation to the future M/P (1/4) 2. The following is the issues on road structure and design: 2-1 Necessity of future Master Plan Study (M/P) (1) Need of excessive use lane for increasing motorcycle As the result of data collection survey, it became clear that there is a serious The motorcycle becomes the main means of commuting to the people traffic problem with the Katumandu Valley as follows : nowadays, therefore, the provision of exclusive use motorcycle lane should Traffic congestion occurs everywhere on major roads and becomes chronic be standardized for the development of urban road. condition in the Kathmandu Valley (2) Need of bicycle lane and bicycle road. Public transport services is not sufficient and cannot support the increase of The provision of bicycle lane or bicycle road will contribute to the traffic demand improvement of air pollution as well as to the development of tourism in the Valley. M/P should discuss the development of bicycle road. Urbanization is proceeding disorderly due to lack of proper land-use policy and road network. (3) Need of safety measure for the Pedestrian Based on the above, the survey team concluded that the future traffic M/P is The walking is still main means of the commuting in Kathmandu Valley. MP indispensable for the Kathmandu Valley and should be implemented as soon as should discuss the safety measures, such as standardization of sidewalk on possible. the urban road, pedestrian bridge, etc. 103 104 Recommendation to the future M/P (2/4) 2. 2. Recommendation to the future M/P (3/4) Issues to be considered in the future M/P 2-2 (6) To conduct the following four (4) supplemental road and traffic surveys in the future M/P: Re-survey on urban roads where KVTDC is now performing the (1) To establish the balanced M/P unifying with road development, traffic 1) widening of ROW management and public transport including the introduction of mass transit Parking survey at the central area of Kathmandu to clarify the parking 2) (2) To consider the "Greater Kathmandu" covering Banepa and Dhulikhel condition. Preference survey (PS) to capture the factor for promotion of 3) (3) To keep close coordination with the study on mass transit system of BRT, envisaged traffic mode from existing bus service to BLT or LRT LRT or Metro which is under implementation by Department of Railway 4) Survey for goods movement between survey area and outside to (4) To study evacuation system to the inhabitants living in the core area of the identify proper location of cargo terminal and logistic center city assuming an earthquake which might hit to the Kathmandu Valley in the (7) To review the role and function of Bhaktapur city from the view point of landnear future. use and urban planning in order to encourage the economic activities on (5) To examine the utilization of river bed for the road construction inside the those areas considering the impact of K-B road project completed last year. Ring Road, particularly along the Dhobhi Khola, However, it is necessary to receive a check of the Nepalese River Act about the use of river bed for road (8) To review the direction and outline of existing Kathmandu Valley Land Use and Zoning Plan (2007) from the view point of urban planning paying construction and environment impact assessment as well. attention to the location of residential, commercial, industrial areas, etc. 105 106 Recommendation to the future M/P (4/4) 2. (9) To discuss the development of new bus and cargo terminals in the future M/P to enhance the social and economic activities of Kathmandu Valley. The End (10) To conduct the study of traffic management considering the following measures - Engineering measures (provision of traffic signal, pedestrian bridge and Thank You for Your Attention crossing, etc) - Physical measures (more parking space, zebra crossing, safety fence, etc) Legal measurers (traffic regulation, penalty system, etc) Administrative measures (one-way system, parking control, etc) Educational measures (awareness program to better driving, TV, etc) (11) To conduct the environment and social consideration in the future M/P in accordance with the regulation of JICA Guideline 107 108

DATA COLLECTION SURVEY ON TRAFFIC IMPROVEMENT IN KATHMANDU VALLEY 2ND WORKSHOP DRAFT FINAL REPORT

ATENDANCE LIST

Date : July 27th, 2012

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Time : 13:30 – 16:30 (3 hours)

Venue : Everest Hotel (1st Floor)

No,	NAME	ORGANIZATION	POSITION	SIGNATURE
1	M& Jas Maliku	Cons.	D'7]_	A.L
2	Ravi Rana	Nepal Police	SSP	R.J. Rana
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7	NIRAJ SHEARMA	KSUTP	D-PD	Ah
8	Hisashi Hoshino	EOT	Sectedary	展野
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12	P.S. Joshi	UN-Habitat	FIPM	Ky -
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88	Akio ODAKE	l(Town Planner	1.71	

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APPENDIX7 COUNTERPART TRAINING IN JAPAN

Technical Tour of Data Collection Survey on Traffic Improvement in Kathmandu Valley

13-May	~		Departure TKM 13:30 - BKK 18:15/TG320			
14-May	~		BKK 00:05 - NGO 08:00/TG644	Nagoya		JICA Chubu International
Mon	13:30 ~ 17:00		Breafing		Mr. Goro Goto	JICA Chubu
	17:30 ~ 18:30		Course orientation		Mr. Akio Odake	Nippon Koei
	~					JICA CIC
15-May	10:00 ~ 12:30	Lecture	Outline fo urban traffic and transport	Nagoya	Prof. Katautaahi Ohta	Prof. emeritus of Univ. of
			Issues on urban traffic and transport		Kalsulosiii Uila	TORYO & DIFECTOR OF TIRE
Tue	13:30 ~ 16:30		policy, and urban planning in Kathmandu		Participants	
	~		Valley			
	~		History of urban plannning and urban		Mr Masao	
16-May	$10:00 \sim 12:00$	Lecture	development in Nagoya	Nagoya	Sugiyama	Nagoya Urban Institute
Wed	12:00 ~ 12:30		Tour at Nagoya Urban Center			Nagoya Urban Institute
	13:30 ~ 14:00		Iour at Asunaru Kanayama at Kanayama Station			
	$14.30 \sim 16.00$	Lecture	Tour at Sasashima Live 24 area (Land		Mr. Noboru	
	14.00 10.00	Looturo	Readjustment Project site)		Inagaki	
	~		Traffic infrastructure and transportation		Ms Satomi	Dept of Housing and Urban
1/-May	$10:00 \sim 10:45$	Lecture	policy in Nagoya	Nagoya	Shioya	Nagoya City LG
Thu	10:45 ~ 11:30	Lecture	Current Status and Issues of bus		Mr. Yu Xoobimuro	Dept of Traffic
	12:20 - 12:50	Tour	Tour at Guidaway bug station at Ozona		TUSTTIIIUTa	Dept of Housing and Urban,
	$13.30 \sim 13.30$	Tour				Nagoya City LG
	13:50 ~ 14:10	Tour	lour ride on Guideway bus Background and history of introduction of		Mr Ryosuke	
	14:10 ~ 14:40	Lecture	Guideway bus system		Okumiya	Nagoya Guideway Bus Co Ltd.
	14:40 ~ 15:10	Tour	Tour at operation room for the Guideway			ditto
	15:10 ~ 15:40	Iour	Tour of guide mevhanism of the Guideway			αιττο
	16:10 ~ 17:00	lour	line) and town development along the			
	17:00 ~ 17:30		Return to JICA CIC			
┣───	~		Iransportation challenge in provincial			JICA CIC Head of Research Dont
18-May	9:00 ~ 11:00	Lecture	city and activities of Toyota	Toyota	Mr. Ryosuke	Toyoya Transportation
· ·			Transportetion Institute		ANUU	Research Institute
Fri	11:00 ~ 11:20	Tour	Systems) Information Center			
	13:30 ~ 14:45	Lecture	Traffic safety education and the facility		Mr. Keisuke	Toyota City Traffic Safety
	10.00 11.40	Lootaro	construction by PFI		Takada	Learning Center
	14:45 ~ 15:30	Tour	Learning Center			
	~		move to Sakae			
	1/:00 ~ 18:00 ~	lour	Sakae, City Center of Nagoya Mosting with Mr. Isbibashi and sthors			
	~		meeting with mi. Isinbashi and others			JICA CIC
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19-May	~		Uff			
19-May Sat	~ ~					
19-May Sat	~ ~ ~					JICA CIC
19-May Sat 20-May	~ ~ ~	Taur	UTT Nagoya -> Takayama Tour at historical building conservation	Tekeyeme		JICA CIC
19-May Sat 20-May Sun	~ ~ ~	Tour	Nagoya -> Takayama Tour at historical building conservation area in Takayama	Takayama		JICA CIC
19-May Sat 20-May Sun	~ ~ ~ ~ ~ ~	Tour	Nagoya -> Takayama Tour at historical building conservation area in Takayama Takayama -> Furukawa Sight yisit for "Wichi no eki"	Takayama		JICA CIC
19-May Sat 20-May Sun	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	Tour Tour	Nagoya -> Takayama Tour at historical building conservation area in Takayama Takayama -> Furukawa Sight visit for "Michi no eki" Furukawa -> Tovama	Takayama		JICA CIC
19-May Sat 20-May Sun	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	Tour Tour	Nagoya -> Takayama Tour at historical building conservation area in Takayama Takayama -> Furukawa Sight visit for "Michi no eki" Furukawa -> Toyama	Takayama		JICA CIC Hotel at Toyama city
19-May Sat 20-May Sun	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	Tour Tour	Nagoya -> Takayama Tour at historical building conservation area in Takayama Takayama -> Furukawa Sight visit for "Michi no eki" Furukawa -> Toyama	Takayama	Mr. Nagahito	JICA CIC Hotel at Toyama city
19-May Sat 20-May Sun 21-May	~ ~ ~ ~ 9:30 ~ 11:30	Tour Tour Lecture	Nagoya -> Takayama Tour at historical building conservation area in Takayama Takayama -> Furukawa Sight visit for "Michi no eki" Furukawa -> Toyama Environmental frendly urban planning and public transport in Toyama	Takayama Toyama	Mr. Nagahito Takamori and Mr. Masaharu	JICA CIC Hotel at Toyama city Toyama City LG
19-May Sat 20-May Sun 21-May	~ ~ ~ ~ 9:30 ~ 11:30	Tour Tour Lecture	Nagoya -> Takayama Tour at historical building conservation area in Takayama Takayama -> Furukawa Sight visit for "Michi no eki" Furukawa -> Toyama Environmental frendly urban planning and public transport in Toyama	Takayama Toyama	Mr. Nagahito Takamori and Mr. Masaharu Nishinaka	JICA CIC Hotel at Toyama city Toyama City LG
19-May Sat 20-May Sun 21-May Mon	~ ~ ~ ~ 9:30 ~ 11:30 11:45 ~ 12:09	Tour Tour Lecture Tour	Nagoya -> Takayama Tour at historical building conservation area in Takayama Takayama -> Furukawa Sight visit for "Michi no eki" Furukawa -> Toyama Environmental frendly urban planning and public transport in Toyama Toyama LRT (Toyama station north→ lwasehama)	Takayama Takayama Toyama	Mr. Nagahito Takamori and Mr. Masaharu Nishinaka	JICA CIC Hotel at Toyama city Toyama City LG
19-May Sat 20-May Sun 21-May Mon	~ ~ ~ ~ 9:30 ~ 11:30 11:45 ~ 12:09 12:09 ~ 12:14	Tour Tour Lecture Tour Tour	Nagoya -> Takayama Tour at historical building conservation area in Takayama Takayama -> Furukawa Sight visit for "Michi no eki" Furukawa -> Toyama Environmental frendly urban planning and public transport in Toyama Toyama LRT (Toyama station north→ Iwasehama) Observetion of Feader route bus	Takayama Takayama Toyama	Mr. Nagahito Takamori and Mr. Masaharu Nishinaka	JICA CIC Hotel at Toyama city Toyama City LG
19-May Sat 20-May Sun 21-May Mon	~ ~ ~ ~ 9:30 ~ 11:30 11:45 ~ 12:09 12:09 ~ 12:14 12:19 ~ 12:44	Tour Tour Lecture Tour Tour Tour	Nagoya -> Takayama Tour at historical building conservation area in Takayama Takayama -> Furukawa Sight visit for "Michi no eki" Furukawa -> Toyama Environmental frendly urban planning and public transport in Toyama Toyama LRT (Toyama station north→ Iwasehama) Observetion of Feader route bus Tour at Iwase-Omachi street historical Londoarpo control	Takayama Takayama Toyama	Mr. Nagahito Takamori and Mr. Masaharu Nishinaka	JICA CIC Hotel at Toyama city Toyama City LG
19-May Sat 20-May Sun 21-May Mon	$\begin{array}{c} \sim \\ \end{array}$ 9:30 ~ 11:30 11:45 ~ 12:09 12:09 ~ 12:14 12:19 ~ 12:44 13:09 ~ 13:19	Tour Tour Lecture Tour Tour Tour	Nagoya -> Takayama Tour at historical building conservation area in Takayama Takayama -> Furukawa Sight visit for "Michi no eki" Furukawa -> Toyama Environmental frendly urban planning and public transport in Toyama Toyama LRT (Toyama station north→ lwasehama) Observetion of Feader route bus Tour at lwase-Omachi street historical landscape control Tour on bicycle share system	Takayama Takayama Toyama	Mr. Nagahito Takamori and Mr. Masaharu Nishinaka	JICA CIC Hotel at Toyama city Toyama City LG
19-May Sat 20-May Sun 21-May Mon	$\begin{array}{c} \sim \\ \sim \\ \sim \\ \sim \\ \sim \\ \sim \\ \end{array}$ 9:30 ~ 11:30 11:45 ~ 12:09 12:09 ~ 12:14 12:19 ~ 12:44 13:09 ~ 13:19 14:19 ~ 18:05	Tour Tour Lecture Tour Tour Tour Tour	Nagoya -> Takayama Tour at historical building conservation area in Takayama Takayama -> Furukawa Sight visit for "Michi no eki" Furukawa -> Toyama Environmental frendly urban planning and public transport in Toyama Toyama LRT (Toyama station north→ Iwasehama) Observetion of Feader route bus Tour at Iwase-Omachi street historical landscape control Tour on bicycle share system Toyama -> Nara	Takayama Takayama Toyama	Mr. Nagahito Takamori and Mr. Masaharu Nishinaka	JICA CIC Hotel at Toyama city Toyama City LG
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19-May Sat 20-May Sun 21-May Mon 22-May	$\begin{array}{c} \sim \\ \end{array}$ 9:30 ~ 11:30 11:45 ~ 12:09 12:09 ~ 12:14 12:19 ~ 12:44 13:09 ~ 13:19 14:19 ~ 18:05 $\begin{array}{c} \sim \\ \sim \\ \sim \\ \sim \\ \end{array}$ 10:00 ~ 12:00	Tour Tour Lecture Tour Tour Tour Tour Lecture	Nagoya -> Takayama Tour at historical building conservation area in Takayama Takayama -> Furukawa Sight visit for "Michi no eki" Furukawa -> Toyama Environmental frendly urban planning and public transport in Toyama Toyama LRT (Toyama station north→ Iwasehama) Observetion of Feader route bus Tour at Iwase-Omachi street historical landscape control Tour on bicycle share system Toyama -> Nara Tourism city development and transportation plan in Nare	Takayama Takayama Toyama Nara	Mr. Nagahito Takamori and Mr. Masaharu Nishinaka Mr. Hiroshi	JICA CIC JICA CIC Hotel at Toyama city Toyama City LG Hotel at Nara city Tourism strategy Dept., Nara City LG
19-May Sat 20-May Sun 21-May Mon 22-May	$\begin{array}{c} \sim \\ \end{array}$ 9:30 ~ 11:30 11:45 ~ 12:09 12:09 ~ 12:14 12:19 ~ 12:44 13:09 ~ 13:19 14:19 ~ 18:05 $\begin{array}{c} \sim \\ \sim \\ \sim \\ \sim \\ \end{array}$ 10:00 ~ 12:00 13:00 ~ 15:00	Tour Tour Lecture Tour Tour Tour Lecture	Nagoya -> Takayama Tour at historical building conservation area in Takayama Takayama -> Furukawa Sight visit for "Michi no eki" Furukawa -> Toyama Environmental frendly urban planning and public transport in Toyama Toyama LRT (Toyama station north→ Iwasehama) Observetion of Feader route bus Tour at Iwase-Omachi street historical landscape control Toyama -> Nara Tourism city development and transportation plan in Nara Tour on historical building conservation	Takayama Takayama Toyama Nara	Mr. Nagahito Takamori and Mr. Masaharu Nishinaka Mr. Hiroshi Kiuchi	JICA CIC JICA CIC Hotel at Toyama city Toyama City LG Hotel at Nara city Tourism strategy Dept,, Nara City LG
19-May Sat 20-May Sun 21-May Mon 22-May Tue	$\begin{array}{c} \sim \\ \end{array}$ 9:30 ~ 11:30 11:45 ~ 12:09 12:09 ~ 12:14 12:19 ~ 12:44 13:09 ~ 13:19 14:19 ~ 18:05 ~ \\ \sim \\ 10:00 ~ 12:00 13:00 ~ 15:00 \end{array}	Tour Tour Lecture Tour Tour Tour Tour Lecture Tour	Nagoya -> Takayama Tour at historical building conservation area in Takayama Takayama -> Furukawa Sight visit for "Michi no eki" Furukawa -> Toyama Environmental frendly urban planning and public transport in Toyama Toyama LRT (Toyama station north→ Iwasehama) Observetion of Feader route bus Tour at Iwase-Omachi street historical landscape control Toyama -> Nara Toyama -> Nara Tour on historical building conservation activities	Takayama Toyama Nara	Mr. Nagahito Takamori and Mr. Masaharu Nishinaka Mr. Hiroshi Kiuchi	JICA CIC Hotel at Toyama city Toyama City LG Hotel at Nara city Tourism strategy Dept,, Nara City LG
19-May Sat 20-May Sun 21-May Mon 22-May Tue	$\begin{array}{c} \sim \\ \sim \\ \sim \\ \sim \\ \sim \\ \sim \\ \end{array}$ 9:30 ~ 11:30 11:45 ~ 12:09 12:09 ~ 12:14 12:19 ~ 12:44 13:09 ~ 13:19 14:19 ~ 13:05 ~ \\ \sim \\ 10:00 ~ 12:00 13:00 ~ 15:00 ~ \\ \sim \\ \end{array}	Tour Tour Lecture Tour Tour Tour Tour Lecture Tour	Nagoya -> Takayama Tour at historical building conservation area in Takayama Takayama -> Furukawa Sight visit for "Michi no eki" Furukawa -> Toyama Environmental frendly urban planning and public transport in Toyama Toyama LRT (Toyama station north→ Iwasehama) Observetion of Feader route bus Tour at Iwase-Omachi street historical landscape control Toyama -> Nara Toyrism city development and transportation plan in Nara Tour on historical building conservation activities Nara -> Hiroshima	Takayama Toyama Nara	Mr. Nagahito Takamori and Mr. Masaharu Nishinaka Mr. Hiroshi Kiuchi	JICA CIC JICA CIC Hotel at Toyama city Toyama City LG Hotel at Nara city Tourism strategy Dept,, Nara City LG Hotel at Hiroshima city
19-May Sat 20-May Sun 21-May Mon 22-May Tue 22-May	$\begin{array}{c} \sim \\ \sim \\ \sim \\ \sim \\ \sim \\ \sim \\ \end{array}$ 9:30 ~ 11:30 11:45 ~ 12:09 12:09 ~ 12:14 12:19 ~ 12:44 13:09 ~ 13:19 14:19 ~ 13:05 ~ \\ \sim \\ 10:00 ~ 12:00 ~ \\ 10:00 ~ 12:30 \end{array}	Tour Tour Lecture Tour Tour Tour Tour Lecture Tour Lecture	Nagoya -> Takayama Tour at historical building conservation area in Takayama Takayama -> Furukawa Sight visit for "Michi no eki" Furukawa -> Toyama Environmental frendly urban planning and public transport in Toyama Toyama LRT (Toyama station north→ Iwasehama) Observetion of Feader route bus Tour at Iwase-Omachi street historical landscape control Toyama -> Nara Toyrism city development and transportation plan in Nara Tour on historical building conservation activities Nara -> Hiroshima Urban development strategy and urban transportation policy in Hiroshima	Takayama Toyama Nara Hiroshim	Mr. Nagahito Takamori and Mr. Masaharu Nishinaka Mr. Hiroshi Kiuchi Mr. Akihiko Fujita	JICA CIC JICA CIC Hotel at Toyama city Toyama City LG Hotel at Nara city Tourism strategy Dept,, Nara City LG Hotel at Hiroshima city Hiroshima City LG
19-May Sat 20-May Sun 21-May Mon 22-May Tue 23-May Wed	$\begin{array}{c} \sim \\ \end{array}$ 9:30 ~ 11:30 11:45 ~ 12:09 12:09 ~ 12:14 12:19 ~ 12:44 13:09 ~ 13:19 14:19 ~ 13:05 ~ \\ 10:00 ~ 12:00 13:00 ~ 15:00 ~ \\ \sim \\ 10:00 ~ 12:30 13:45 ~ 14:30 \end{array}	Tour Tour Lecture Tour Tour Tour Tour Tour Lecture Lecture Lecture	Nagoya -> Takayama Tour at historical building conservation area in Takayama Takayama -> Furukawa Sight visit for "Michi no eki" Furukawa -> Toyama Environmental frendly urban planning and public transport in Toyama Toyama LRT (Toyama station north→ Iwasehama) Observetion of Feader route bus Tour at Iwase-Omachi street historical landscape control Tour on bicycle share system Toyama -> Nara Tour ism city development and transportation plan in Nara Tour on historical building conservation activities Nara -> Hiroshima Urban development strategy and urban transportation policy in Hiroshima Tour on Astramline and town development	Takayama Tayama Toyama Nara Hiroshim a	Mr. Nagahito Takamori and Mr. Masaharu Nishinaka Mr. Hiroshi Kiuchi Mr. Akihiko Fujita Mr. toshihiko Nakamura	JICA CIC JICA CIC Hotel at Toyama city Toyama City LG Hotel at Nara city Tourism strategy Dept,, Nara City LG Hotel at Hiroshima city Hiroshima City LG
19-May Sat 20-May Sun 21-May Mon 22-May Tue 23-May Wed	$\begin{array}{c} \sim \\ \end{array}$ 9:30 ~ 11:30 11:45 ~ 12:09 12:09 ~ 12:14 12:19 ~ 12:44 13:09 ~ 13:19 14:19 ~ 13:05 ~ \\ 10:00 ~ 12:00 13:00 ~ 15:00 ~ \\ \sim \\ 10:00 ~ 12:30 13:45 ~ 14:30 14:20 ~ 15:00	Tour Tour Lecture Tour Tour Tour Tour Lecture Lecture Lecture & Tour	Nagoya -> Takayama Tour at historical building conservation area in Takayama Takayama -> Furukawa Sight visit for "Michi no eki" Furukawa -> Toyama Environmental frendly urban planning and public transport in Toyama Toyama LRT (Toyama station north→ Iwasehama) Observetion of Feader route bus Tour at Iwase-Omachi street historical landscape control Toyama -> Nara Toyrism city development and transportation plan in Nara Tour on historical building conservation activities Nara -> Hiroshima Urban development strategy and urban transportation policy in Hiroshima Tour on Astramline and town development along the line Tour at Hiroshima city transportation	Takayama Takayama Toyama Nara Hiroshim a	Mr. Nagahito Takamori and Mr. Masaharu Nishinaka Mr. Hiroshi Kiuchi Mr. Akihiko Fujita Mr. toshihiko Nakamura	JICA CIC JICA CIC Hotel at Toyama city Toyama City LG Hotel at Nara city Tourism strategy Dept,, Nara City LG Hotel at Hiroshima city Hiroshima City LG
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19-May Sat 20-May Sun 21-May Mon 22-May Tue 23-May Wed 23-May	$\begin{array}{c} \sim \\ \end{array}$ 9:30 ~ 11:30 11:45 ~ 12:09 12:09 ~ 12:14 12:19 ~ 12:44 13:09 ~ 13:19 14:19 ~ 13:05 ~ \\ 10:00 ~ 12:00 13:00 ~ 15:00 ~ \\ 10:00 ~ 12:30 13:45 ~ 14:30 14:30 ~ 15:00 ~ \\ \sim \\ 10:20 ~ 11:15 \end{array}	Tour Tour Lecture Tour Tour Tour Tour Tour Lecture Lecture Lecture & Tour Lecture	Nagoya -> Takayama Tour at historical building conservation area in Takayama Takayama -> Furukawa Sight visit for "Michi no eki" Furukawa -> Toyama Environmental frendly urban planning and public transport in Toyama Toyama LRT (Toyama station north→ Iwasehama) Observetion of Feader route bus Tour at lwase-Omachi street historical landscape control Tour on bicycle share system Toyama -> Nara Tour on historical building conservation activities Nara -> Hiroshima Urban development strategy and urban transportation policy in Hiroshima Tour on Astramline and town development along the line Tour on World Heritage Sea Route between The atomic bomb memorial dome and	Takayama Takayama Toyama Nara Hiroshim a	Mr. Nagahito Takamori and Mr. Masaharu Nishinaka Mr. Hiroshi Kiuchi Mr. Akihiko Fujita Mr. toshihiko Nakamura	JICA CIC JICA CIC Hotel at Toyama city Toyama City LG Hotel at Nara city Tourism strategy Dept,, Nara City LG Hotel at Hiroshima city Hiroshima City LG Hotel at Hiroshima city
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