

資料 4 Questionnaire

QUESTIONNAIRE
FOR
THE TECHNICAL COOPERATION
FOR
THE STUDY
ON
THE STANDARDIZATION
FOR
INTEGRATED RAILWAY NETWORK
OF
METRO MANILA
IN
THE REPUBLIC OF THE PHILIPPINES

JAPAN INTERNATIONAL COOPERATION AGENCY
(JICA)

August ,25,1999

The questionnaire is prepared by the Japanese Preparatory Study Team for the study on the standardization for integrated railway network of Metro Manila so as to obtain basic information and data for the study.

Please answer all the questions in English and attach materials requested in this questionnaire.
Answers need not be too much in detail but should be brief and precise.

- Note:
1. Please mark "Y" for the data /item in the "availability" which is available.
 2. Please mark "N" for the data /item in the "availability" which is not available.

Questionnaire for Facilities of LRT/MRT
LRT/MRT

ITEM	DESCRIPTION	AVAILABILITY		NAME OF MATERIALES
		AVAILA-BILITY	PLACE OF DATA AVAILABLE	
1.Map	(1)Network map(LRT/MRT/NPR/ROAD)	collected		收集資料番号1.11
	(2)Detail map around station scale 1:5,000	N		
2.Inventory of facilities	LRT 1	(1)Station	Y	LRTA
		(2)Track(gauge, weight,etc.)	Y	LRTA
		(3)Machinery	Y	LRTA
		(4)Electrical Equipment(for track and station)	Y	LRTA
		(5)Train(length,weight,capacity of car,etc.)	Y	LRTA
		(6)Track layout	Y	LRTA
	LRT 2	(1)Station	Y	LRTA
		(2)Track(gauge, weight,etc.)	Y	LRTA
		(3)Machinery	Y	LRTA
		(4)Electrical Equipment(for track and station)	Y	LRTA
		(5)Train(length,weight,capacity of car,etc.)	Y	LRTA
		(6)Track layout	Y	LRTA
	LRT 3	(1)Station	Y	LRTA
		(2)Track(gauge, weight,etc.)	Y	LRTA
		(3)Machinery	Y	LRTA
		(4)Electrical Equipment(for track and station)	Y	LRTA
		(5)Train(length,weight,capacity of car,etc.)	Y	LRTA
		(6)Track layout	Y	LRTA
	PNR	(1)Station	collected	收集資料番号1.11
		(2)Track(gauge, weight,etc.)	collected	收集資料番号1.11
		(3)Machinery	N	
		(4)Electrical Equipment(for track and station)	N	
		(5)Train(length,weight,capacity of car,etc.)	collected	收集資料番号3.11
		(6)Track layout	N	
3.Drawing	LRT/MRT	(1)Station	N	
		Cross section	N	
		Longitudinal section	N	
		Layout	N	

Questionnaire for Facilities of LRT/MRT
LRT/MRT

ITEM	DESCRIPTION	AVAILABILITY		NAME OF MATERIALES
		AVAILABILITY	PLACE OF DATA AVAILABLE	
4.Bill of quantity(concrete,rebar,etc.)	(1)Station(LRT/MRT)	N		
			LRTA	
5.Technical standards, regulation, etc.	LRT 1	(1)Civil structure including station	Y	LRTA
		(2)Track	Y	LRTA
		(3)Machinery	Y	LRTA
		(4)Electrical Equipment	Y	LRTA
	LRT 2	(1)Civil structure including station	Y	LRTA
		(2)Track	Y	LRTA
		(3)Machinery	Y	LRTA
		(4)Electrical Equipment	Y	LRTA
	LRT3	(1)Civil structure including station	Y	LRTA
		(2)Track	Y	LRTA
		(3)Machinery	Y	LRTA
		(4)Electrical Equipment	Y	LRTA
	PNR	(1)Civil structure including station	N	
		(2)Track	N	
		(3)Machinery	N	
		(4)Electrical Equipment	N	
6.Passenger traffic	LRT/MRT	(1)Number of passenger by stations	N	
		(2)Transfer traffic volume between LRT/MRT stations and bus	N	
		(3)Transfer traffic volume between LRT/MRT stations and jeepney	N	
		(4)Inter stational OD matrices	N	
		(5)Hourly and daily fluctuation of passengers	N	

Questionnaire for Facilities of LRT/MRT
ROAD

ITEM	DESCRIPTION	AVAILABILITY		NAME OF MATERIALES
		AVAILA- BILITY	PLACE OF DATA AVAILABLE	
1.Conditions of road	(1)Road network maps including future network plan	N		
	(2)Road inventories	N		
	(class,length,surface type,lane, width,etc.)	N		
	(3)Proposed /committed road development plan	N		
2.Road traffic	(1)Traffic volume around station by vehicle type	N		
3.Present condition of bus and jeepney network	(1)Route and frequency of bus service(time table)	N		
	by route and bus company	N		
4.Urban development plan and land use plan ,and their maps	(1)Existing land use map	N		
	(2)Future land use map	N		
	(3)Shopping mall or other building around station	N		

Note : All the items abovementioned are limited within 1 km from the stations.

Questionnaire for Facilities of LRT/MRT
CONSULTANTS AND SURVEYORS

ITEM	DESCRIPTION	AVAILABILITY		NAME OF MATERIALES
		AVAILA-BILITY	PLACE OF DATA AVAILABLE	
1.List of local consultants and brochures	(1)Capability of consulting service			
	①Drawing preparation	collected		収集資料番号1.13~1.18
	②Structural calculation	collected		収集資料番号1.13~1.18
	③City planning	collected		収集資料番号1.13~1.18
	④Architectural design	collected		収集資料番号1.13~1.18
	⑤Mechanical and electrical design	collected		収集資料番号1.13~1.18
	⑥Collection of data	collected		収集資料番号1.13~1.18
	⑦Planning of operation /management of LRT/MRT	collected		収集資料番号1.13~1.18
	(2)Facility and equipment	collected		収集資料番号1.13~1.18
	(Personal computer, Printer, CAD, Scanner, etc.)			
	(3)Number of staff	collected		収集資料番号1.13~1.18
	(4)Job experience	collected		収集資料番号1.13~1.18
2.Fee for consultants	(1)Standard price list and/or typical example of cost	N		
	for drawing preparation, structural calculation,			
	city planning, architectural design,mechanical			
	and electrical design, collection of data			
	and planning of operation /management of			
	LRT/MRT			

Questionnaire for Operation/Management of LRT/MRT

ITEM	DESCRIPTION	AVAILABILITY		NAME OF MATERIALES
		AVAILA-BILITY	PLACE OF DATA AVAILABLE	
1.Law and Regulation	(1)Railway business	N		
	(2)LRTA	N		
	(3)Agreement with PNR	N		
	(4)Agreement with MMDA/PEA/LGU for land use	N		
	(5)Agreement for BOT Project(LINE 3,MRTC)	Y	LRTA	
	(6)Agreement for LINE 4,Consortium(Sofrail)	N		
	(7)Agreement for LINE 6,North Rail,etc.	N		
	(8)Tariff rate	Y	LRTA	
	(9)LTFRB	Y		
2.Organization and Staffing	(1)DOTC(Transportation and Communications)	Y	DOTC	
	(2)LRTA(Light Rail Transit Authority)	Y	LRTA	
	(3)METRO Inc.(Meralco Transit Organization Inc.)	Y	METRO	
	(4)PNR(Philippine National Railways)	collected		收集資料番号3.6
	(5)MRTC(Metro Manila Transit Corp.)	Y	MRTC	
	(6)Rilnet(Rail Network Authority),if established ?	N		
3.Fare and ticket System	LRT 1	(1)Passenger fare	Y	
		(2)Common ticket rate	N	
		(3)Discount Ticket Rate(Commuters,Students,etc.)	N	
		(4)Freight cargo rate	N	
	LRT 2	(1)Passenger fare	N	
		(2)Common ticket rate	N	
		(3)Discount Ticket Rate(Commuters,Students,etc.)	N	
		(4)Freight cargo rate	N	
	LRT 3	(1)Passenger fare	N	
		(2)Common ticket rate	N	
		(3)Discount Ticket Rate(Commuters,Students,etc.)	N	
		(4)Freight cargo rate	N	
	PNR	(1)Passenger fare	collected	收集資料番号3.3
		(2)Common ticket rate	collected	收集資料番号3.3
		(3)Discount Ticket Rate(Commuters,Students,etc.)	N	
		(4)Freight cargo rate	N	

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Questionnaire for Operation/Management of LRT/MRT

ITEM	DESCRIPTION	AVAILABILITY		NAME OF MATERIALES
		AVAILA-BILITY	PLACE OF DATA AVAILABLE	
6.Operation	LRT 1	(1)Progress of USTDA(United States Technical Development Assistance)	Y	DOTC
		(2)Estimated profit in F/S for LINE 1(before construction)	N	
		(3)Fund of operation cost (repayment/interest)	Y	LRTA
		(4)Train operational regulations	Y	LRTA
		(5)Train operational plan	Y	LRTA
		(6)Train diagram and time table	Y	LRTA
		(7)Imformation transmitting mannaer	Y	LRTA
		(8)Staffing by station and rotation system	Y	LRTA
		(9)Staff training	Y	LRTA
		(10)The number of train accidents by type	Y	LRTA
		(11)Countermeasures for accidents	Y	LRTA
		(12)Labor unions and the members	Y	LRTA
	LRT 2	(3)Fund of operation cost (repayment/interest)	N	
		(4)Train operational regulations	N	
		(5)Train operational plan	N	
		(6)Train diagram and time table	N	
		(7)Imformation transmitting mannaer	N	
		(8)Staffing by station and rotation system	N	
		(9)Staff training	N	
		(10)The number of train accidents by type	N	
		(11)Countermeasures for accidents	N	
		(12)Labor unions and the members	N	
	LRT 3	(3)Fund of operation cost (repayment/interest)	N	
		(4)Train operational regulations	N	
		(5)Train operational plan	N	
		(6)Train diagram and time table	N	
		(7)Imformation transmitting mannaer	N	
		(8)Staffing by station and rotation system	N	
		(9)Staff training	N	
		(10)The number of train accidents by type	N	
		(11)Countermeasures for accidents	N	
		(12)Labor unions and the members	N	

Questionnaire for Operation/Management of LRT/MRT

ITEM	DESCRIPTION	AVAILABILITY		NAME OF MATERIALES
		AVAILA-BILITY	PLACE OF DATA AVAILABLE	
6.Operation(continued)	PNR	(3)Fund of operation cost (repayment/interest)	N	
		(4)Train operational regulations	collected	收集資料番号3.8
		(5)Train operational plan	collected	收集資料番号3.8
		(6)Train diagram and time table	collected	收集資料番号3.9
		(7)Imformation transmitting mannaer	N	
		(8)Staffing by station and rotation system	N	
		(9)Staff training	N	
		(10)The number of train accidents by type	N	
		(11)Countermeasures for accidents	N	
		(12)Labor unions and the members	N	
7.Facilities	LRT 1	(1)Standards for safety maintenance facility	Y	LRTA
		(2)Rolling stocks inspection standards	Y	LRTA
		(3)Electric power supply	Y	LRTA
		(4)Signaling system	Y	LRTA
		(5)Communication system	Y	LRTA
		(6)The number of rolling stocks by type	Y	LRTA
		(7)Depot,marshaling,freight terminal	Y	LRTA
		(8)The number of level crossings	Y	LRTA
		(9)Utilization of rolling stocks	Y	LRTA
		(10)Maintenance,rehabilitation,improvement plan	Y	LRTA
	LRT 2	(1)Standards for safety maintenance facility	N	
		(2)Rolling stocks inspection standards	N	
		(3)Electric power supply	N	
		(4)Signaling system	N	
		(5)Communication system	N	
		(6)The number of rolling stocks by type	N	
		(7)Depot,marshaling,freight terminal	N	
		(8)The number of level crossings	N	
		(9)Utilization of rolling stocks	N	
		(10)Maintenance,rehabilitation,improvement plan	N	

Questionnaire for Operation/Management of LRT/MRT

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資料5 収集資料リスト

様式第1号

平成11年9月2日作成

資料リスト（収集資料）

主管部長	文書管理 課 長	主管課長	情報管理 課 長	技術情報 課 長

地域	東南アジア	調査団名又は 専門 家 氏 名	鉄道利用促進に関する LRT ネットワ ークインテグレーション標準化調査	調査の種類又 は 指 導 科 目	事前調査	作 成 部 課	社会開発調査部社会 開発調査第一課
国名	フィリピン	配属機関名		現地調査期間 又は派遣期間	99年8月18日～99年9月1日	担当者氏名	柴山一行

番号	資 料 の 名 称	版型	ページ数	オリジナル コピーの別	部数	収集先名称又は 発 行 機 関	寄贈・購入 (価格)の別	取扱区分	利用表示
1.1	Metro Manila Urban Transportation Improvement Project , Volume 1	A4	330	コピー	1	DPWH	寄贈		
1.2	Metro Manila Urban Transportation Improvement Project , Volume 2	A4	400	コピー	1	DPWH	寄贈		
1.3	Housing and Urban Planning in the Philippines	A4	400	オリジナル	1	The Study Group on Urban Planning in the Philippines	寄贈		
1.4	Metro Manila Rail Transit Integration Study: Extensive Review	A3	43	コピー	1	DOTC	寄贈		
1.5	Metro Manila Rail Transit Integration Study: Legal and Institutional Evaluation (APPENDICES)	A4	100	コピー	1	DOTC	寄贈		
1.6	Metro Manila Rail Transit Integration Study: Legal and Institutional Evaluation	A4	33	コピー	1	DOTC	寄贈		
1.7	Ticketing Integration Specifications	A4	40	コピー	1	DOTC	寄贈		
1.8	Metro Manila -3, Fare Study for EDSA MRT Project	A4	56	コピー	1	DOTC	寄贈		
1.9	Presentation Paper on The Basic Concept of An Integrated Fare System for LRT/MRT Network in Metro Manila	A4	16	コピー	1	DOTC	寄贈		
1.10	Organization Chart (DOTC, LRTA, PNR)	A4	4	コピー	1	DOTC	寄贈		
1.11	フィリピン共和国における鉄道プロジェクトの評価及 び今後の方向について	A4	139	コピー	1	JICA 伊藤専門家	寄贈		
1.12	マニラ首都圏における鉄道整備の現状と評価及び今後の 課題	A4	37	コピー	1	JICA 伊藤専門家	寄贈		

番号	資料の名称	版型	ページ数	オリジナル コピーの別	部数	収集先名称又は 発行機関	寄贈・購入 (価格)の別	取扱区分	利用表示
1.13	現地コンサルタント会社案内 PKII ENGINEERS	A4	30	判じ本	1	PKII ENGINEERS	寄贈		
1.14	現地コンサルタント会社案内 PROCONSULT, Inc.	A4	40	判じ本	1	PROCONSULT, Inc	寄贈		
1.15	現地コンサルタント会社案内 TCGI ENGINEERS (2分冊)	A4	115	判じ本	1	TCGI ENGINEERS	寄贈		
1.16	現地コンサルタント会社案内 ENGINEERING AND DEVELOPMENT CORPORATION OF THE PHILIPPINES	A4	7	判じ本	1	ENGINEERING AND DEVELOPMENT CORPORATION OF THE PHILIPPINES	寄贈		
1.17	現地コンサルタント会社案内 FILIPINAS DRAVO CORPORATION	A4	41	判じ本	1	FILIPINAS DRAVO CORPORATION	寄贈		
1.18	現地コンサルタント会社案内 DCCD ENGINEERING CORPORATION (2分冊)	A4	71	判じ本	1	DCCD ENGINEERING CORPORATION	寄贈		
1.19	LIST OF CONSULTANT	A4	2	コピー	1	DOTC	寄贈		
1.20	マニラ首都圏の現状及び都市計画の歴史等	A4	21	コピー	1	雨宮専門家	寄贈		
1.21	ROAD HANDBOOK IN THE PHILIPPINES 1998	A4	37	判じ本	1	JICA	寄贈		
1.22	Billing Rate For Local Personnel	A4	1	コピー	1	KEI/LRTA	寄贈		

番号	資料の名称	版型	ページ数	オリジナル コピーの別	部数	収集先名称又は 発行機関	寄贈・購入 (価格)の別	取扱区分	利用表示
2.1	LRT LINE 1 PROJECT OUTLINE	A4	9	コピー	1	DOTC	寄贈		
2.2	LRT LINE 1 Fare Rate	A4	2	コピー	1	DOTC	寄贈		
2.3	LRT LINE 1 AND 2 REPORT ON RIDERSHIP ANALYSIS VOLUME 1	A4	125	コピー	1	LRTA	寄贈		
2.4	PROJECT PROFILE LINE 1 EXPANSION PROJECT	A4	2	コピー	1	DOTC	寄贈		
2.5	LRT LINE 1 ROLLING STOCK QUANTITY	A4	2	コピー	1	DOTC	寄贈		
2.6	MRT LINE 2 PROJECT BROCHURE	A4	2	オリジナル	1	MRT LINE 2 PROJECT MANAGEMENT OFFICE	寄贈		
2.7	MRT LINE 2 PROJECT RUN CURVE	A4	6	コピー	1	MRT LINE 2 PROJECT MANAGEMENT OFFICE	寄贈		
2.8	MRT LINE 2 PROJECT COVER PAGE OF STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES	A4	2	コピー	1	MRT LINE 2 PROJECT MANAGEMENT OFFICE	寄贈		
2.9	PROJECT PROFILE LINE 2	A4	2	コピー	1	DOTC	寄贈		
2.10	LRT LINE 3 PROJECT BROCHURE	A4	2	オリジナル	1	MRT LINE 3 PROJECT MANAGEMENT OFFICE	寄贈		
2.11	LRT LINE 3 PROJECT OUTLINE	A4	30	コピー	1	METRO	寄贈		
2.12	LRT LINE 3 LIGHT RAIL VEHICLE TECHNICAL SPECIFICATION	A4	26	コピー	1	DOTC	寄贈		
2.13	LRTA COMPARATIVE BALANCE SHEET	A4	2	コピー	1	DOTC	寄贈		
2.14	LRTA COMPARATIVE INCOME STATEMENT	A4	2	コピー	1	DOTC	寄贈		
2.15	LRTA の 1997、1998 比較財務諸表	A4	1	コピー	1	DOTC	寄贈		
2.16	PROJECT PROFILE AUTOMATED FARE COLLECTION SYSTEM	A4	1	コピー	1	DOTC	寄贈		
2.17	LRTA ANNUAL REPORT 1996,1997	A4	55	コピー	1	DOTC	寄贈		
2.18	LRTA ANNUAL REPORT 1993,1994,1995	A4	43	コピー	1	DOTC	寄贈		
2.19	EXECUTIVE ORDER No.603(LRTA)	A4	10	コピー	1	DOTC	寄贈		

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