



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 anser 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

			AVA	LABILITY	
.Map .Inventory of facilities LRT 1		DESCRIPTION	AVAILA-	PLACE OF DATA	NAME OF MATERIALES
			BILITY	AVAILABLE	
1.Map		(1)Network map(LRT/MRT/NPR/ROAD)	collected		収集資料番号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.)	Υ	LRTA	
		(3)Machinery	Y	LRTA	
		(4)Electrical Equipment(for track and station)	Y	LRTA	
		(5)Train(length,weight,capacity of car,etc.)	Υ	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.)	Υ	LRTA	
		(6)Track layout	Y	LRTA	
	PNR	(1)Station	collected		収集資料番号1.11
		(2)Track(gauge, weight,etc.)	collected		収集資料番号1.11
		(3)Machinery	N		
		(4)Electrical Equipment(for track and station)	N		
		(5)Train(length,weight,capacity of car,etc.)	collected		収集資料番号3.11
		(6)Track layout	N		
3.Drawing	I DT/MDT	(1)Station	N		
3.Drawing	LIV 17 IVIIV I	Cross section	N		
		Longitudinal section	N N		
		Layout	T N		
		Layuut	111		

Questionnaire for Facilities of LRT/MRT LRT/MRT

			AVA	ILABILITY	
ITEM 4.Bill of quantity(concrete,rebar,etc.)		DESCRIPTION	AVAILA-	PLACE OF DATA	NAME OF MATERIALES
			BILITY	AVAILABLE	
		(1)Station(LRT/MRT)	N		
				LRTA	
5.Technical standards,	LRT 1	(1)Civil structure including station	Υ	LRTA	
regulation, etc.		(2)Track	Υ	LRTA	
		(3)Machinery	Υ	LRTA	
		(4)Electrical Equipment	Υ	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	Υ	LRTA	
		(3)Machinery	Y	LRTA	General and the second
		(4)Electrical Equipment	Υ	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	N		
		and bus			
		(3)Transfer traffic volume between LRT/MRT stations	N		
		and jeepney			
		(4)Inter stational OD matrics	N		
		(5)Hourly and daily fluctuation of passengers	N		
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Questionnaire for Facilities of LRT/MRT ROAD

		AVA	JLABILITY	NAME OF MATERIALES	
ITEM	DESCRIPTION	AVAILA-	PLACE OF DATA		
		BILITY	AVAILABLE		
.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		Special section of the section of th	
2.Road traffic	(1)Traffic volume around station by vehicle type	N			
B.Present condition of bus and jeepney	(1)Route and frequency of bus service(time table)	N		ATTO-MENON HANDING AVOID	
network	by route and bus company	N			
.Urban development plan and land use	(1)Existing land use map	N			
plan ,and their maps	(2)Future land use map	N			
	(3)Shopping mall or other building around station	N			
					

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

Questionnaire for Facilities of LRT/MRT CONSULTANTS AND SURVEYORS

CONSULTANTS AND SURVEYORS		AVA	ILABILITY			
ITEM	DESCRIPTION		PLACE OF DATA	NAME OF MATERIALES		
		BILITY	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		
	Architectural design	collected		収集資料番号1.13~1.18		
į	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		
	Planning 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	ļ				
	and planning of operation /management of					
	LRT/MRT					
		 				
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Questionnaire for Operation/			AVA	ILABILITY	
ITEM		DESCRIPTION		PLACE OF DATA	NAME OF MATERIALES
			BILITY	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)	Υ	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		収集資料番号3.6
		(5)MRTC(Metro Manila Transit Corp.)	Υ	MRTC	
		(6)Rilnet(Rail Network Authority), if established?	N		
					Doc
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		収集資料番号3.3
		(2)Common ticket rate	collected		収集資料番号3.3
		(3)Discount Ticket Rate(Commuters, Students, etc.)	N		
		(4)Freight cargo rate	N		
					X

			ILABILITY	
ITEM	DESCRIPTION	AVAILA-	PLACE OF DATA	NAME OF MATERIALES
		BILITY	AVAILABLE	
Financial Conditions of LRTA	(1)Financial statemtete,(B/S,P/L,Cash Flow	Υ	LRTA	
	Statement from 1995)			
	(2)Financial forecast after LINE No.3 operation	N		
	from MRTC			
	(3)Accounting system between LRTA and METRO	Υ	LRTA	
	(4)Other income(freight cargo etc.)	Υ	LRTA	
	(5)Saraly and wage system	Υ	LRTA	
	(6)Depreciation for fixed assets(rolling stock ,etc.)	Υ	LRTA	
	(7)Cargo collection and delivery system	N		
Project Cost and Financial Resources	(1)LRT LINE 1 Capacity Expansion Project	Y	DOTC/LRTA	
-	(2)LRT LINE 1 Spur to NAIA	Υ	DOTC/LRTA	
	(3)Construction of MRT LINE 2	Υ	DOTC/LRTA	
	(4)MRT LINE 2 Extension(East)	Y	DOTC/LRTA	
	(5)MRT LINE 2 Extension(West)	Y	DOTC/LRTA	
	(6)EDSA LRT Project(LRT LINE 3)	Y	DOTC/LRTA	
	(7)Construction of LRT LINE 4	Y	DOTC/LRTA	
	(8)Construction of LRT LINE 6	Y	DOTC/LRTA	
	(9)Improvement and modernization of Commuter Line	Y	DOTC/LRTA	
	South Project			
	(10)PNR"Pabahay Sa Riles" and Tollway Project	Y	DOTC/LRTA	
	(11)Silangan Railway Express 2000(Manilaque	Y	DOTC/LRTA	
	Railway Project)			
	(12)Manila - Clark Rapid Railway System	Y	DOTC/LRTA	
	(Northrail Phase 1)			
	Posturate China Ch			
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				ILABILITY	
ITEM		DESCRIPTION	8	PLACE OF DATA	NAME OF MATERIALES
			BILITY	AVAILABLE_	
Deration		(1)Progress of USTDA(United States Technical	Y	DOTC	
		Development Assistance)			
		(2)Estimated profit in F/S for LINE 1(before	N		
		construction)			
	LRT 1	(3)Fund of operation cost (repayment/interest)	Υ	LRTA	
		(4)Train operational regulations	Y	LRTA	
		(5)Train operational plan	Υ	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	T N		
	LRT 3	(3)Fund of operation cost (repayment/interest)	N		
	L	(4)Train operational regulations	N	 	
		(5)Train operational plan	N		
		(6)Train diagram and time table	N		
		(7)Imformation transmitting mannaer	T 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	T N	 	
		(12)Labor unions and the members	T N	 	
		(12/Labor dillons and the members			

				ILABILITY	
ITEM		DESCRIPTION	AVAILA-	PLACE OF DATA	NAME OF MATERIALES
			BILITY	AVAILABLE	
3.Operation(continued) PNR		(3)Fund of operation cost (repayment/interest)	N		
		(4)Train operational regulations	collected		収集資料番号3.8
		(5)Train operational plan	collected		収集資料番号3.8
		(6)Train diagram and time table	collected		収集資料番号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		
.Facilities	LRT 1	(1)Standards for safety maintenance facility	Y	LRTA	
		(2)Rolling stocks inspection standards	Ý	LRTA	
		(3)Electric power supply	Ÿ	LRTA	
		(4)Signaling system	Ý	LRTA	- Colin - Anny Addition - Colin - Coli
		(5)Communication system	Ϋ́	LRTA	
		(6)The number of rolling stocks by type	Ý	LRTA	
		(7)Depot,marshaling,freight terminal	Ý	LRTA	
		(8)The number of level crossings	Ý	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		Section 100
		(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		
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ITEM		DESCRIPTION		PLACE OF DATA AVAILABLE	NAME OF MATERIALES
.Facilities(continued) LRT 3		(1)Standards for safety maintenance facility	N	7.4741274322	
		(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		O'Podi do
		(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		
	PNR	(1)Standards for safety maintenance facility	N		
		(2)Rolling stocks inspection standards	N		
		(3)Electric power supply	N		
		(4)Signaling system	collected		収集資料番号1.11
		(5)Communication system	collected		収集資料番号1.11
		(6)The number of rolling stocks by type	collected		収集資料番号3.4
		(7)Depot,marshaling,freight terminal	N		以未及行曲 170.1
		(8)The number of level crossings	N		
		(9)Utilization of rolling stocks	collected		収集資料番号3.4
		(10)Maintenance,rehabilitation,improvement plan	N		以来交往(量寸5.1
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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 提 長	主管課長	情報管理 課 長	技術情報 課 長
			-	

地域	東南アジア		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	33 0	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	A 4	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	Α4	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	Α4	3 7	コピー	1	JICA 伊藤専門家	寄贈		

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1.13	現地コンサルタント会社案内 PKII ENGINEERS	A4	3 0	利ジ が	1	PKII ENGINEERS	寄贈		
1.14	現地コンサルタント会社案内 PROCONSULT, Inc.	A4	4 0	利ジナル	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	オリジナル	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	利ジ ナル	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	4.1	オリジ ナル	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)	A 4	7 1	オリジナル	1	DCCD ENGINERING 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	オリジ ナル	1	JICA	寄贈		
1.22	Billing Rate For Local Personnel	A4	1	コピー	1	KEI/LRTA	寄贈		
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2.1	LRT LINE 1 PROJECT OUTLINE	A 4	9	コピー	1	DOTC	寄贈		
2.2	LRT LINE 1 Fare Rate	A 4	2	コピー	1	DOTC	寄贈		
2.3	LRT LINE 1 AND 2 REPORT ON RIDERSHIP ANALYSIS VOLUME 1	A 4	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	체ジ 채	1	MRT LINE 3 PROJECT MANAGEMENT OFFICE	寄贈		
2.11	LRT LINE 3 PROJECT OUTLINE	A 4	30	コピー	1	METRO	寄贈		
2.12	LRT LINE 3 LIGHT RAIL VEHICLE TECHNICAL SPECIFICATION	A.4	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	A 4	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	PROJECTPROFILEAUTOMATEDFARE COLLECTION SYSTEM	A 4	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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2.20	METRO RAIL TRANSIT DEVELOPMENT CORPORATION BROCHIRE	A4	4	コピー	1	MRTDC	寄贈		
2.21	COMPLETE REPORT ABOUT LRT1&THE METRO ORGANIZATION	A4	52	コピー	1	DOTC	寄贈		
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