

Appendix 1-1 Minutes of Meeting on the Inception Report

MINUTES OF MEETING ON THE INCEPTION REPORT

JICA Study Team for the "Study on Integrated Transportation System Improvement by Railway and Feeder Service in JABOTABEK Area (hereinafter referred to as "the Study") submitted and explained the Inception Report to the Ministry of Communication (MOC). MOC, considering the major points included in the Report, accepted it in principle.

The points of discussion between MOC and JICA Study Team are as follows:

- 1. The followings have been agreed between MOC and JICA Study Team.
 - (1) One Steering Committee and one counterpart team will be set up so that effective coordination could be realized between the Study of Transport Network Planning and Regulation by 1BRD (hereinafter referred to as "IBRD Study") and JICA Study.

 Considering that one counterpart team must work for two study teams sometimes concurrently, MOC should organize the counterpart team effectively so as to ensure the smooth implementation of the Study.
 - (2) In addition to the conventional railway system, studies on other types of guided transit system should be taken into consideration in carrying out the Study.
 - (3) Investment schedule for Master Plan for integrated transportation system should be prepared taking into consideration the time framework of National 5 Years Development Plans of Government of Indonesia.

S.K

(4) Preconditions necessary for demand forecast including the preliminary proposal as shown in Annex for improvement cases for railway and road at 2005 to form alternative patterns for Master Plan, should be discussed and finalized within one month from the date of signing of the Minutes, so that the Study could be implemented effectively according to the time schedule included in the Inception Report.

June 1. M. For the Samuel of that is gifted

- (5) The reports to be reviewed and referred to should include the followings in addition to those mentioned in the Inception Report.
 - (a) Traffic Hanagement and Road Network Development Study (Buchanan and Associates, 1983)
 - (b) Jakarta Urban Transport Project (Pamintori 1987)

okultuva ka 1964 ili 1964 ili

- (6) The beginning of the time frame for the Study should be 1990.
- 2. The following has been requested by MOC to JICA Study Team. However, this is considered to be out of Scope of Work agreed upon between MOC and JICA on February 2, 1988. JICA Study Team will convey this request to the Government of Japan.

Instead of implementation status of Railway Master Program at 1992 described in the item 7 of Minutes of Meeting on the Study signed by MOC and JICA Preliminary Study Team on February 2, 1988, the following two options for implementation status for railway projects at 1992 should be considered and the evaluation of the two options should be carried out including the necessary demand forecast.

R. K.

In this case, after the evaluation of these two options, further study should be carried out based on the only one selected option.

- (a) The first option should represent a do-minimum situation in which only committed and on-going expenditures including domestic currency portions would be considered for JABOTABEK Railway Project.
- (b) The second option should consider the implementation status of JABOTABEK Railway Project in which the minimum investment necessary for achieving the service level of 6 minutes train interval on Central Line, 10 minutes train interval on extended Loop Line, 15 minutes on Serpong Line, 20 minutes on Tangerang Line, 20 minutes on Tanjung Priok Line would be considered.

This investment would include the minimum expenditures necessary for ground facilities which are indicated in the Rational Execution Plan and the expenditures for the minimum number of rolling stok necessary for achieving the above service level.

In Jakarta, Indonesia

December 5, 1988

Ir. Giri S. Hadihardjono MSE
Director General of Land
Transport and Inland Waterways
Ministry of Communication

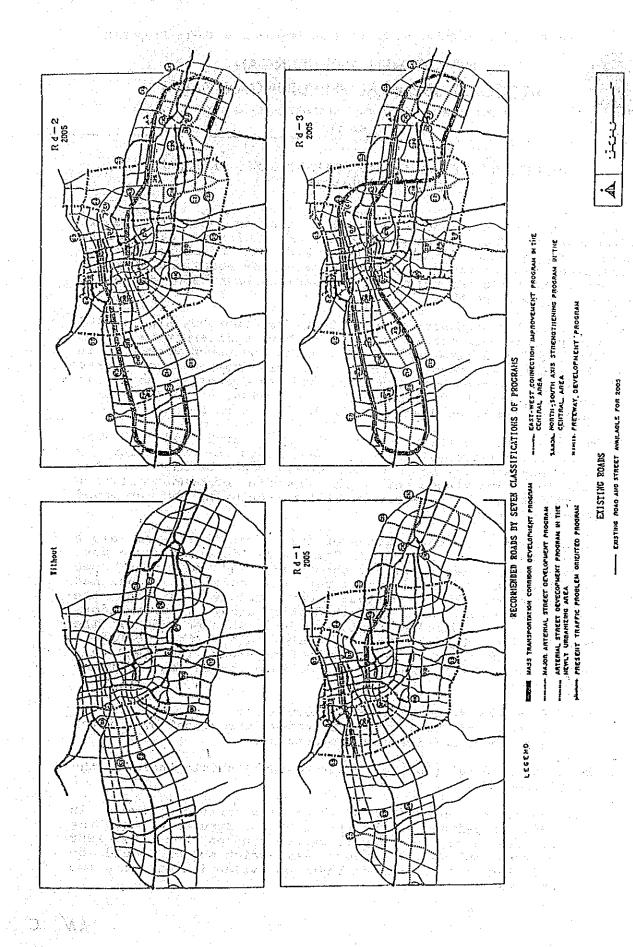
Asthacom

Dr. Misao Sugawara Leader of JICA Study Team

S.K.

Preliminary Proposal for improvement Cases for Ralimey and Road at 2005 by Form Alternative Patterns

	ent ent trade, the could wroat	the found growth and the Control		
Road Co. T. Co.	1. Completion of the urban free-ray network. i.e. the inner Ring Road, Outer Ring Road and Imbour Road. 2. Improvement of the road/street network within the Duter Ring Road to solve the present traffic problems. 3. Construction of two roades of Rass Transit. Corridor from the city-center to the Outer Ring Road to provide the direct access from the East/Rest Jakaria to the Contral Area. Rass Transit Corridor Will provide exclusive busneys and arterial streets in a joint right of new proposent of street system within the East/Rest Jakaria and within the Tangereng/Bekasi Core-cities	The improvements to be added to Rd I are: 1. Extention of Mass Transil: Corridors to provide the direct access from the Tangerans/Bekass Core-Citicas to the Contral Ares. 2. Provision of the road/street systems sithin the southerst/southwest subjects.	The Improvements to added to Rd 2 are: 1. Gevelopment of the reasining routes of Mass. Transit Corridors to provide the direct access for aboveramishmed areas; as a result, all the Mastransportation developed will be connected and be a loop taisted 2. Strengthening the North-South Axis within the DMI area.	
laproyeaent Case	Rd Complete the highest priority programs propused by ARSDS to street network within the Out- er Ring-Road; the interest systems within the future urban arcas, of Innecrand, Bekasi Core-Cities, But only the existing freet awas/arterial roads will be avas/arterial roads will be available for the direct access from Innerang/Bekasi arcas to the Central Area.	Rd 2 In addition to Rd 1 complete the high priority program proposed by ARSDS to improve: (a) the direct access from fancernag/Bakasi Core-Cities to the Central Ares; (b) the southenst/southrest areas out- side of the Outer Ring Road	Rd 3 Complete the full-scale development of the afterial road by ARSUS. Additional works will improved aginty-(a) direct access from the south-cast scale west southwest suburbs to the Central Area. (b) North-South Axes between the Central Area and the South Jakarie.	
Railmay	1. Improvement of track on Tangerang Line 2. Improvement of track on Merak Line (Tanahabang-Serpong) 3. Grade separation at Manggarai Station 4. Irack elevation of CL (Kolor-Kauggarai) 5. Automatic signalling on EL 6. Automatic signalling on EL 7. Installment of AIS 8. Improvement of passenger handling facilities (Jatinegara, Paser Senen, Tanahaban, Duri, Kemayoran) 9. Improvement of passenger handling facilities at other st.) 10. Improvement of passenger handling facilities at other st.) 11. Improvement of Assenger Bandon Station 12. Improvement of Track of Tanihangeriok Line 13. Construction of new station 14. Investment on Manggarai Morkshop (Znil step) 15. Construction of new station 16. Construction of Sub-Depot (Merak Line, Bakasi-Line) 16. Construction of Sub-Depot (Merak Line, Bakasi-Line) 17. Establishment of Train operating system (Manggarai st.) 17. Increase of necessary number of rolling stock	In addition to the completion of the facilities of Ryl, the following facilities will be completed. Relocation of Kola-Station Construction of car-decol in relation to Kola-Station Double tracking and electrification of C/L Track elevation of E/L (Kola-Gaussentions) Fivover on M/L Construction of passenger handling facilities Reprovement of feeder service (station plaza, bus bay, a provement of feeder service (station plaza, bus bay, a provement of feeder service (station plaza, bus bay, a place from and automatic signalling on Tangerang Line Rectrification and automatic signalling on Merak Line II. Increase of necessary number of rolling stock	In addition to the completion of the facilities of Ry2, the following will be completed. I. Tangerang Line Extension (Inngerang-Karawael). 2. New line construction (Sudirean-Thamrin-Kota).	In addition to the completion of the facilities of Ry3, the following will be completed. 1. Construction of Clitical Line 2. Rew line construction (fanniaban-Gambir-Pager Senen) 3. New line construction between sirrort and Mil
Improvement Case	Ry 1 Complete the minimum facill- ties necessary for achieving the service of 6 minutes interval on C/L, 10 minutes interval on circular line, and invers on Merak inc and 20 minutes on Tangering line	Ry 2 Complete the necessary faci- lities for achieving the service level of 3 minutes interval on C/L, 6 whutes on Circular Line, 10 winutes on Merak Line, 15 minutes on Tangerang Line,	Ry 3 Complete the facilities anecessary for achieving 3 aintes interval on CLL, 6 aintes on Circular Line, 10 ainutes on Rerak Line, 15 ainutes on Tangerang Line	Beyond 2005



Improvement Case for Road

Δ...



DEPARTEMEN PERHUBUNGAN DIREKTORAT JENDERAL PERHUBUNGAN DARAT

JL. JEN. SUDIRMAN NO. 77 TEL. (021) 582747 KODE POS 12190

JAKARTA

MINUTES OF MEETING ON IMPROVEMENT CASES PROPOSAL (January - February 1989)

Subsequent to the agreed Minutes of Meeting on Inception Report (December 5, 1988) a series of formal and informal discussions were made between JICA Study Team and the Counterpart Team regarding the proposed alternative cases for road and railway network. The following points of discussions have been raised and accepted by both parties.

- (1) In formulating Master Plan at 2005 for Jabotabek Area, JICA Study Team will carry out evaluation of 6 alternative cases in stead of 9 alternative cases which have been proposed in the Inception Report. The 6 cases are composed of three railway improvement options and two base cases as shown in the Appendix 1, 2(1) and 2(2). The evaluation method of 6 cases should be as described in the Inception Report.
- (2) The proposed levels of service for Ry-1, Ry-2 and Ry-3 are accepted as reasonable alternative targets for evaluation by the counterparts. But some assessment would be made on the relative importance of each separate component (which constitutes each services levels) in achieving the proposed service levels.
- (3) With respect to construction of Mass Transit System along major corridors, JICA Study Team will forecast transport demand along the corridors concerned, and recommend some suitable Mass Transit System for the corridors concerned depending on the forcasted demand volume. In case the construction of Mass Transit System along the corridors concerned is judged as urgent project, whether F/S of the construction of Mass Transit System along the corridors concerned should be carried out by both study, TNPR (*1) and JICA Study (*2), should be decided based on further discussion.
 - (*1) Transport Network Planning Regulation.
 - (*2) Intergrated Transportation System Improvement by Railway and feeder Service in Jabotabek Area.
- (4) Base case BC-00 ('without improvement') should include the completion of:
 - (a) One of the two options of the railway services levels in 1992, as defined in the item 2 of the Minutes of Meeting on the Inception Report agreed upon on Dec. 5, 1988 between MOC and JICA Study Team. Which option should be selected will be decided based on evaluation of these two options.

- (b) On-going and committed road construction projects; and
- (c) traffic management and parking policy implementation project, improved level of services of bus transport system, and the development of Mass Transit System on Blok M - Sudirman - Thamrin - Kota corridor. The on-going and committed projects should be defined through further discussion with related agencies, and examination of the current status of projects development within Jabotabek
- (5) Both parties agreed to the importance of justifying the assumptions that are incorporated in the transport demand model formula, and likely implications of the assumptions on the result of their evaluation, and of the sensitivity of the evaluation to different assumptions and future scenarios. However, JICA Study Team, within the time frame of time schedule described in the Inception Report, which WAS accepted through Minutes of Meeting Agreed upon on Dec. 5, 1988, between MOC and JICA Study Team, will carry out the demand forecast in the standard way, through working papers necessary for discussions with the Counterpart Team based on the premises which include basic soscio-economic conditions and fundamental transport service levels. These premises for demand forescast should be agreed upon between MOC and JICA Study Team.

JICA Study Team will also carry out suitable sensitivity analysis with respect to economic evaluation of the proposed

plans.

Jakarta, February 15, 1989

Formal m

Ir. Giri S. Hadihardjono, MSE

Director General of Land Transport and Inland Waterways Ministry of Communication

K. Namipawa

Kunitaka Namikawa

Acting leader of JICA Study Team

Duly of h

Ir. Mulyadi Hadikusumo

Coordinator of Counterpart

RAILWAY IMPROVEMENT CASES

																											· · · · · · · · · · · · · · · · · · ·								1000年					
REMARKS		(8)	On-soing and committed	projects								3		rrejects for retional	ממסתרומט בינים																									
PROJECT ITEM	(a) or (b) items to be taken up from the below	1. Track elevation and Automatic signalling of C.L. Octa - Pri)	2. Futantle signalling on El.		4. Electrification and Automatic atomatifue on Sarpora Line, (including Sec Sub-Dapot)	5. Electrification and externatio signaliling on Balasi Line, (including Bos, Sub-Depot)			O Transaction of Contract Cont		10 TUBURAN DESIGNATION	11. Kollung stook (Etc. ad Cars)	12. Grado Separation at ranguarati Scatton.	15. MICHOELE SIGNETING ON PROPERTY LIPS, LIPS (MICHOELE) 19. MICHOELE SIGNETING ON PARTY OF THE STREET	14. Improvement of passenger infairing securities, many as pierous energical era signification from the fact that	to thousesture	15. Condition of Depok Depok.	17. Increase of necessary meters of rolling stock.	13. Laproversity of leader services (Statisty piezz, this bay, approach etc.)	28. Increase of recessary number of rolling stock.	In addition to the completion of the facilities of Ry 1, the	following facilities will be completed.		1. Relecation of kots-Station.	2. Construction of car-dapol in relation to Kota-Station.	3. Track elevation of EA. Wote-Garpsontiangl		5. laprovenant of passenger handling facilities.	6. Construction of non-station.	7. Improvement of feeder service (station plaza, bus bay, approach road, etc)	9. Electrification on Tangerang Line.	9. Double Tracking of Serpong Line;	18. Increase of necessary mester of rolling stock.		Solioning will be completed.		1. Seprendent of other Technical Each sections.	Construction of Lightness Limbs and	of the Property Comment of Colling Stocks.	
IMPROVEMENT CASE	Ry O (to be included in 90-62)	١.		Complete the minimum facilities	most of achieving the	Service of 6 minutes interval	20 18 00 18	Friends I'm I'm 15 storter of (5) (5)	•	מל ליינו ביו ביו ביו ביו ביו ביו ביו ביו ביו בי	ישניטפניפות היונים.										86.8		Complete the necessary facilities for	achieving the service level of 3 minutes	interval on C.Y., 8 similes on Extended	Loop Line. 18 wirutes on Serpong Line.	15 minutes on Tangerary Line.							6.78°		Paintain the some levels of	service as My Z for increased	74330144		

Base Cases

BC-00 (1992)

1. Ry 0

2. Completion of the traffic management program and parking policy implementation project, and improved level of service for bus transport system.

3. Completion of the on-going and committed road construction project within Jabotabek Region (JUTP, JUDP-1 and Toll roads), and the development of mass transit system on Blok M-Sudirman-Thamrin-Kota corridor.

BC-01 (2005)

BC-00 with the additional improvements of

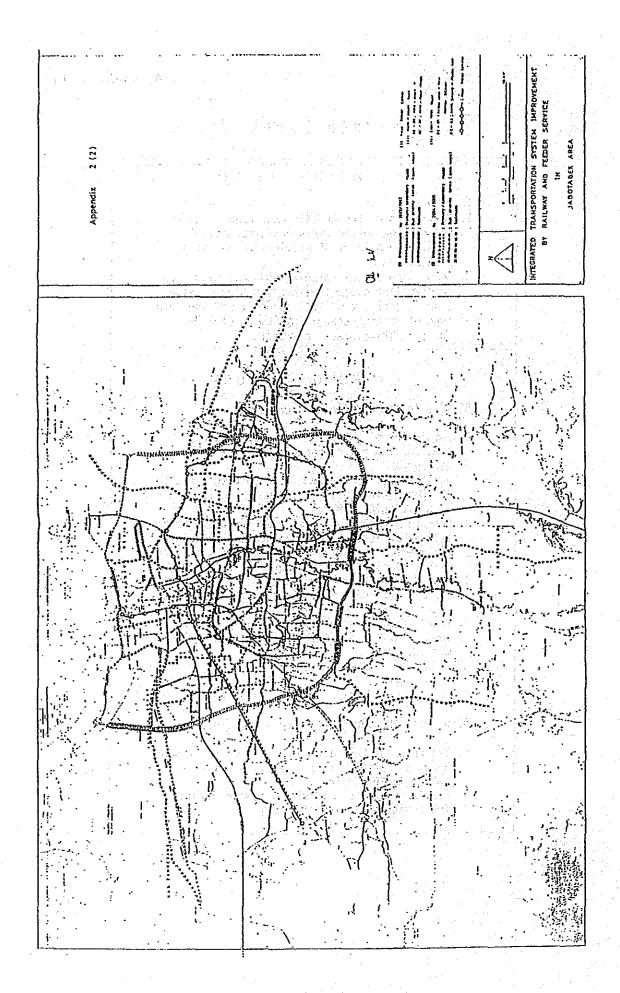
- Completion of the urban free-way network, i.e. the Inner Ring Road, Outer Ring Road and Harbour Road.
- 2. Further traffic management improvements within the Outer Ring Road, including extension of area licensing scheme.
- 3. Construction of East/West Mass Transit Corridor from Kebon Jeruk, via Tanah Abang, Gambir, Pasar Senen and Pulo Gadung to new interchange with railway between Klender Baru and Cakung.
- 4. Upgrading of Blok M-Sudirman-Thamrin-Kota Mass Transit Corridor, and extension from Blok M to Pasar Minggu.
- Development of street system within the East/ West Jakarta and within the Tangerang/ Bekasi Core-Cities.

BC-02 (2005)

BC-01 with the additional improvements of

- Extension of Mass Transit Corridor from Kebon-Jeruk to North Serpong from new station near Cakung to Pondok Gede.
- 2. Provision of the road/street system within the southeast/southwest suburs.

K.N



JICA Study Team for the "Study on Integrated Transportation System Improvement by Railway and Feeder Service in Jabotabek Area (hereinafter referred to as "the Study") submitted and explained the Interim Report I to the DGLT, Ministry of Communication. DGLT, considering the major points included in the Report, accepted it in principle.

The followings have been agreed upon between DGLT and JICA Study Team.

- 1. With respect to railway improvement level at 1992, "b" option as defined in the Report has been selected.
- With respect to alternative patterns for Naster Plan, combination of Ry2 and BCOl, namely 052 case, has been selected as the optimal alternative pattern.
- With respect to urgent projects for feasibility studies, the following three projects have been selected:
 - (a) Feeder service improvement
 - (b) Station facilities improvement
 - (c) Grade separation of Eastern Line
- With respect to the feasibility study on construction of Mass Rapid Transit System along the major corridors, it will not be carried out in the Study, However, recognizing the importance of the study as mentioned in the Interim Report I, DGLT expressed the eagerness that it should be executed just following the completion of the Study. JICA Study Team promised to convey the desire of DGLT to the Government of Japan.
- 5. JICA Study Team, in carrying out the Study, would try to work in close contact with TNPR and should consider, as necessary, input from TNPR and Studies for Land and Public Transport Development in Jabotabek to be financed by the World Bank under the direction and coordination of the Steering Committee, in case the same is set up for the Study and TNPR.



8 K

6. DGLT requested the JICA Study Team to submit the pertinent supporting data of the Study. JICA Study Team would try to submit such pertinent data as far as they are feasible and available within the limited time frame with respect to specific items requested by the Counterparts.

Jakarta, September 19, 1989

Am & Mandon

Ir. GIRI S. HADIHARDJONO, MSE Director General of Land Transport and Inland Waterway Ministry of Communication

Dr. MISAO SUGAWARA Leader of JICA Study Team

Appendix 4-1 Scale of Station Plaza Calculated from the Number of Passengers

	200,000/day@N	8,000 m ²	Jakarta Kota, <u>Gambir,</u> <u>Manggarai,</u> Depok Baru 2 stations			(Dukub), Jatinegara 1 station	Paser Senen 1 station		Total 4 stations (1) Jakarta Kota 1s according to the redevelopment project. (2) Dukuh is bridged and has no space for expansion.
	100,000/day≦N<200,000/day	5,000 m ²	Duren Kalibata, Tanjung Barat #Kebon Pedes, 1 station			Tanah Abang 1 station	New Kanpungbandan, Kemayoran, (Tanjung Priok) 1 station	Klender, Klender Baru, Cakung <u>Kranji</u> , Bekasi 2 stations	Total 5 stations (1) Tanjung Priok has a matured(1) urban area and so has no space for expansion. (2) #Kebon Pedes has the station plaza installed by the city side.
rassengers	20,000/day≦\≦100,000/day	3,000 m	(Tebet), (Cawang), (North minggu), Lenteng Agung, Depok Pondokterong, Citayam*, New Station (2)*, Bojonggdeh*, Cilebut*, (Bogor)	<pre>Grogol Pesing, New Station(2)*, Bojongindah*, Rawabuaya, Kalideres*, Poris*, Batuceper*, Tangerang 10 stations</pre>	Palmerah*, New Station(2)*, Kebayoran, Pondok Bitung*, Bintaro, Jurangmangu*, Sudimara*, Rewabuntu Serpong* 10 stations	New Station(2)*, Angke, Duri, (Mampang) 4 stations	Rajawari, Gang Sentiong, Kramat, Pondok Jati 4 stations	New Station	Total 36 stations (1) Underlined stations are "On going project." (2) Parenthesized stations have no space available for expansion. (3) Asterisked stations have not much passengers, but installation of the station plaza should be considered in view of the present condition and the development project contemplated in the vicinity.
	Number of Passengers	Scale	Central Line	Tangerang Line	Serpong Line	Western Line	Bastern Line	Bekasi Line	Remarks

Appendix 4-2 Improvement of Feeder Services

Î		2.52	Ry-3	8			છ		ಣ		မ	က	က		ıs		8		တ	
	tes)	2005	Ry-2	က			ၒ		က		ယ	ന	w		ဇ		3		9	
	e (minutes)		Ry-1	8			8		က		မ	3	ಣ		5		2		. 9	
	sfer Time	92	ę	10			8		က		ю	က	3		7		7		8	
	Transfer	2661	ಸ	10			8		က		8	7	5		7		_ L		&	
		1000	1988	01			9		12		တ	7	9		21		8		6	
			Pedestrian deck														Ry-2(27)			
		ities	Steps, etc.				144							Ry-1(19)						
		Road Facilities	Road Width																	
	rvices	g.	Pedestrian F Bridge		Ry-1(19)	Ry-1(19)	Ry-1(19)	Ry-1(19)				A TO STREET				1.0				
	Feeder Services	Improvement	Signal F	RV-IK(19)							Ry-1(19)		Ry-1(19)			Ry-1(19)	84-1(19)		Ry-1(19)	
	ement of		Bus Bay		Ry-1(19)	(61)1-A	Ry-1(19)	Ry-1(19)	a (1)	a (1)	Ry-1(19) F		(61)1-A			Ry-1(19) I	(61)1-A		Ry-1(19)	
	Improv	n Plaza	Small 1					<u> </u>				- :							8 (8) B	
		of Static	Medium												Ry-1(19)			a (8)		
7.7.		Improvement of Station Plaza	Large	Ry-2(21)					a (1)		: - - - 1	b (12)			14		5		1 (2) 2 (2) 3 (3) 4 (3) 4 (4)	
		Stations		Jakarta Kota	Jayakarta (New Station)	Manggabesar (New Station)	Sawah Besar	Juanda (New Station)	Gambir	Gondangdia (New Station)	Cikini	Manggaral	Tebet	Cawang (New Station)	Duren Kalibata	North Minggu (New Station)	Pasar Minggu	Tanjung Barat (Revived)	Lenteng Agung	Remarks
								;			əu	rı ty	zgue	כי						

1. Kota-Ciking and Tebet-Depok have the transfer time reduced with completion of the

[&]quot;on going" railway improvement project (a).

2. Manggarai Station has the transfer time reduced with completion of the railway

improvement project (b) up to 1992.

^{3.} The values of the transfer time shown are those used for estimation of the demand.

					T	T	Γ	,	· .	Γ.		1	T	T	T	<u> </u>				e a comment de	.	
(*) 6 2			Ry-3	L				8							8	:			: .			
	es)	2005	Ry-2	7				~						:	65						X Vive	:
	Time (minutes)		Ry-1	7				ς,							. 60	-						
			, q	6				ro		2 - 1 - 1 2 - 1 - 1 4 - 1 - 1												
	Transfer	1992	rd.	6				us								<u></u>		٠.				
† †			288	10				မ		1												
													:							<i>:</i>		
			c. Pedestrian							•						i:						
÷		lities	Steps, etc.							\$ \$ \$:					
.*		Road Facilities	Road Width Extension				Ry-1(19)	Ry-1(19)											demand.			
1	ses	of.	Pedestrian Ros Bridge Ext					22										the city side.	of the			•
	Services	Improvement																the cit	ation			
	of Feeder	Impr	Signal	Ry-1(19)			Ry-1(19)	Ry-1(19)										fund of				
			Bus Bay	Ry-1(19)										÷								
	Improvement	Plaza	Small B	.	•			Ry-1(19)	Ry-1(19)	Ry-1(19)	Ry-1(19)	Ry-1(19)	Ry-1(19)	Ry-1(19)			e.	roved b	lded. Te those		:	
, ,		ation]		:				Ry-	Ry-	Ry-	Ry-1	- RV	Ry-	Ry-		i.		be im	provi	4	•	
		nt of St	Medium		. :										Ry-1(19)			S Will	time sk			
: !		Improvement of Station Plaza	Large				Ry-1(19)										·	sbon Pede	e a bus t		i.	
		<u> </u>					- - .		-								*.	1 Of Ke	ll have the			
		Stations		Uni.Pancasila	Uni.Indonesia	Pondok Cina	Depokbaru	Depok	Pondokterong (Revived)	Citayam	New Station	Bojonggedeh	New Station	Cilebut	Kebon Pedes (Revived)	Bogor	Remarks	Station plaza of Kebon Pedes will be improved by the	Depokbaru will have a bus terminal provided. The values of the transfer time shown are those used			
3 · · · · · · · · · · · · · · · · · · ·		ζ		ដ	5	Й	Δ	Δ		1 Ls.			Ż	U	⊼C.	80	Rem	H	, w			

			5.								1 14	ta yez						13 11	 4		272.456			
		Ry-3	9	9			es .	8	4			ဗ										The second of the second of	and Safety	
rtes)	2005	Ry-2	8	ဗ		1 · · · · · · · · · · · · · · · · · · ·	8	٣	7			8		et .										
Time (minutes)		Ry-1	7	7			4	4	ιņ			2												
Transfer Ti	1992	Q	10	6	٠.		7		2	-		က												
Tran	19	ю.	2	െ			43	4	ιo			တ										Secretary Secretary		
	60	1988	10	6			4	4	ß			6:						· ·					-	
		Pedestrian deck																<i>i</i>		: : .				
	Facilities	steps, etc.												:	eu eu							A CONTRACTOR OF		
	Road Faci	Road Width Extension		Ry-1(19)	Ry-1(19)	Ry-1(19)						Ry-1(19)			ic signalling on Tangerang Line" will be considered along with	s Hugh	· · · · · · · · · · · · · · · · · · ·	demand.						
rvices	30	Pedestrian Bridge	Ry-1(19)											1	g on Tang idered al	ָּאָר וְשִּלָּ מְיֵיהַ הַשְּׁרָ	,							
Feeder Services	Improvement	Signal		Ry-1(19)								Ry-1(19)			ic signalling on Tangerang Li will be considered along with	1.0.4.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	<u> </u>	estimation of					• • •	
Improvement of		Bus Bay	Ry-1(19)	Ry-1(19)											utomatic plaza wil	າດການີ້ໃນດ	5	used for						
Improv	n Plaza	Small	Ry-2(27)	Ry-2(27)	Ry-2(27)	Ry-2(27)	Ry-2(27)	Ry-2(27)	Ry-2(27)	Ry-2(27)	Ry-2(27)	Ry-2(27)			er the "A	dered a		ire those				Western C. In		
	of Static	Medium	<u> </u>		g.e.	145					,			1	alled und it of the	inder Ry2))	e shown						
	Improvement of Station Plaza	Large								1-	:				l be inst. Improvemen	building .		ansfer ti						
	Stations		Grogol	Pesing	New Station	Bojongindah	Rawabuaya	Kalideres	Poris	Batuceper	New Station	Tangerang	Remarks		The new stations will be installed under the "Automat" (b option), but the improvement of the station plaza			- 4, - 1				And the second of the second of the second of the second of		
								əu	tl p	lezsu	Tang		Ren		.			์				and the second		

• .

Transfer Time (minutes)	1992 2005	s see See See Sky 1 - Ry 2 - Ry - 3	8 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		10 10 8 3 3	10 8 3 3	5 5 5		5 4 3			8 8				-				
		Steps, etc. Pedestrian 1988	01) 32 (2000) 2000 (2000) (2000)		01	01			2			w.		ົວບ				:		
Services	ent of Road Facilities	Pedestrian Road Width Step Bridge Extension			RAHEKUSI	RYHIGIBD		88-1(18)	RVHICTIST		COLUMN	(61)/1-Kt			plaza will be	talled design of	on of the demand.	*nan		
t of Feeder	Improvement	Bus Bay Signal Be	RY-IKITSY RWHICISY		RY-INCIRED RESTRICTED IN	RY-IK(IB)) RY-IK(IB)								Electrification and	ent or the station p Iding under Ry2.	according to the detailed design	se used for estimation of			
Improvemen	Improvement of Station Plaza	Medium Small	Ry-2(27)	Ry-2(27)	Ry-2(27)	Ry-2(27)	Ry-2(27)	Ry-2(27)	Ry-2(27)	Ry-2(27)	Ry-2(27)	Ry-2(27)		The new stations will be installed under the "Elect	considered along with that of the station building under	Small scale station plazas will be considered accor France	The values of the transfer time shown are those used for est The shadowed is applicable only to the level of improvement	13.07 377 37 57 57		
	Improvemen	Large					on)			on)				ations will be in	along with that	e station plazas	of the transfer			
是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	Stations		Palmerah	New Station	Kebayoran	Pondok Bitung	e Bintaro (Signal Station)	g G	Sudimara	New Station (Signal Station)	Rawabuntu	Serpong	Remarks	1. The new sta		2. Small scale France	3. The values			

Transfer Time (minutes)		Steps, etc. Pedestrian 1908 a b Ry-1 Ry-2 Ry-3	10 10 8 3 3			φ σ		Ry-2(27) 8 8 8 6 3		Ry-1(19)		7 7 3 3 3	Ry-2(27) 9 9 8 3 3	Ry-2(27) 16 9 8 3 3	8 8 8 910		5 4 4 3 3 3		8			
1		E)	10						1	ဖ			1									
	1	Pedestrian deck						Ry-2(27)					Ry-2(27)	<u> </u>								
1	Facilities	Steps, etc.								Ry-1(19)												Ġ.
	Road	Road Width Extension							Ry-1(19)							Station upon Petition					oing"	estimation of the demand.
Feeder Services	Improvement of	Pedestrian Bridge								-						tion upor	1 12				the "on going"	ation of
of Feeder	Impro	Signal	N ((19)			N-1(19)		Ny-1(19)					(61)) I-A	Ry-1(19)	Ry-1(19)	Sta		Ry-1(19)	Ry-1(19)		etion of	for estin
Improvement o		Bus Bay		-		RV		RV-1(19)	Ry-1(19)				Ry-1(19)	Ry-1(19)	Ry-1(19)			Ry-1(19)			rith compl	pesn eson
Impi	ion Plaza	Small		Ry-2(27)	Ry-2(27)	Ry-2(27)	Ry-2(27)														reduced w	wn are th
	Improvement of Station Plaza	Medium	-				٠.	Ry-2(27)				. : ,		a (5)	(g) g		(81)1-kg	(६) ह	Ry-1(19)		sfer time	time sho
	Improveme	Large	Ry-2(21)									(21) 9	Ry-2(27)			,					the trans	connection
	Stations		Jakarta Kota	New Station	Angke	Duri	New Station	Tanah Abang	Karet	Dukuh	Mampang	Manggarai	Jatinegara	Klender	Klenderbaru	New Station	Calrung	Kranji	Bekasi	Remarks		The values of the connection time shown are those used for estimation
· ·							əuŢ	l uz	eare	4						purq	tse:	(- 88		器	ı-İ	2

		Ry-3	က		%	es	8				8	P**********		***************************************	*C& E #86************************************	paramentalia kiriki	
(sa.	2005	Ry-2	60	371	8		8	1 3 - 1	. Ny k	. i ;	€	·/	·· -:			:	
e (minutes)	:	Ry-1	80		6	8	8				ဗ	14.7					
sfer Time	1992	Q	10		11	10	10			21 A1	8	31.		ű,	1 : 3	. :	:
Transfer	61	e	01		11	01	01	3 y 3 3			8			1.			
	-	1988	01		11	10	01				8			; ;	- 1 ⁷		
		Pedestrian deck										1				1,4	
	ties	Steps, etc.													. +1		
	Road Facilities	Road Width St Extension	41.					:					c n	nementalia.			
Services	of	Pedestrian Ro Bridge Ex	de Genta								Ry-1(19)			concerned.		. *	
Feeder Ser	Improvement	Signal Br	87-17(19)		Ry-1(19)	101) J. 148	NV-II(19)				R			estimati ent conce			
οĘ		s Bay	36		Ry-1(19) Ry-	RV-IKIBS RV	RV-IK(193) RV					Ry-2(27)	# C 2 .	improvement			
Improvement	laza	æ				Ry	R)	(22)	(22)	(22)		Ry-	4	evel of			
	ation PJ	Small			Ry-2(27)			Ry-2(27)	Ry-2(27)	Ry-2(27)				o the 1			
	nt of St	Medium		a (8)		Ry-2(27)						,	Q \$ 1	only t			
	Improvement of Station Plaza	Large	Ry-2(21)				Ry-2(27)						+ + + 5 + 6 + 6 + 6	applicable			
	Stations		Jakarta Kota	New Kampugbandan	Rajawali	Kemayoran	Paser Senen	Gang Sentiong	Kramat	Pondok Jati	Tanjung Priok	Ancol	Remarks	2. The shadowed is applicable only to the level of			
· · · · ·						əu	rg u	rəţsı	₽	·						·	

Appendix 8-1 Cost Sharing of the Railway Facilities Related to Urban Facilities (In the Case of Japan)

Where the railway facilities and the urban facilities such as road are planned through mutual agreement, it is reasonable that the railway and city sides bear respectively the cost according to the benefits. In Japan, rules are determined for sharing the costs of grade separation of railway and road, establishment of a station plaza, provision of a through passage in an over-track station, etc., as shown in the following table.

			Cost Sharing		
:	Benefits on Railway Side	Former National Railway	Japan Railway	Private Railway	Remarks
Continuous track elevation	Benefit from lease of the space under the elevated track Benefit from elimination of railway crossing accidents Benefit from resolution of railway crossing accidents	10%	Under consideration	78	
Flyover	Benefit from elimination of railway crossings Benefit from resolution of railway crossing accidents	1/3	Cost equivalent to benefits under regulation	Cost equivalent to bene- fits in principle	
Station plaza		1/4	1/6	According to negoti- ation	
Over-track station		Cost of	station facilitie	s	All but cost relative to free passage to be borne by city side

