

THE REPUBLIC OF INDONESIA

Study on Urban Renewal Housing Project

FINAL REPORT EXECUTIVE SUMMARY

DECEMBER, 1983

JAPAN INTERNATIONAL COOPERATION AGENCY





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THE REPUBLIC OF INDONESIA

Study on Urban Renewal Housing Project in Jakarta

FINAL REPORT

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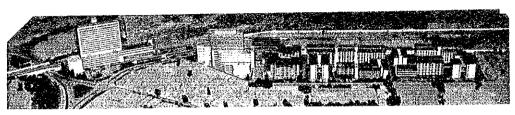
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BEFORE RENEWAL

A EXISTING MODEL OF SITE AREA

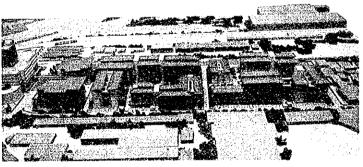
AFTER RENEWAL

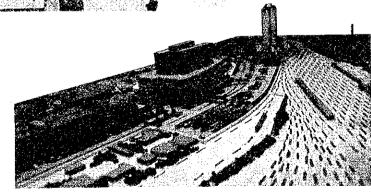


A PLANNING MODEL OF TOTAL SITE AREA



▲ PHOTO OF EXISTING CONDITION



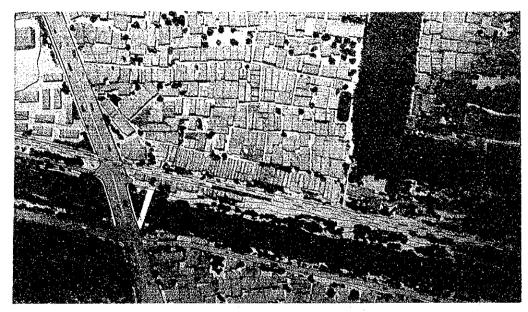


A MODEL OF COMMERCIAL/BUSINESS BLOCK

MODEL OF BEFORE & AFTER RENEWAL - MANGGARAI

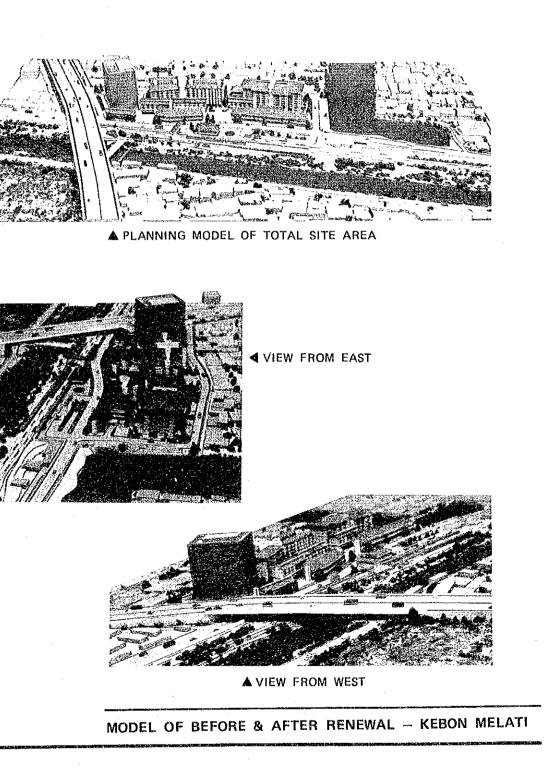
◀ MODEL OF HOUSING BLOCK

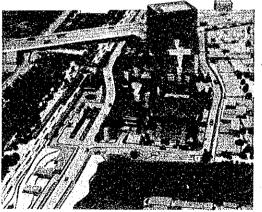
BEFORE RENEWAL



A EXISTING MODEL OF SITE AREA

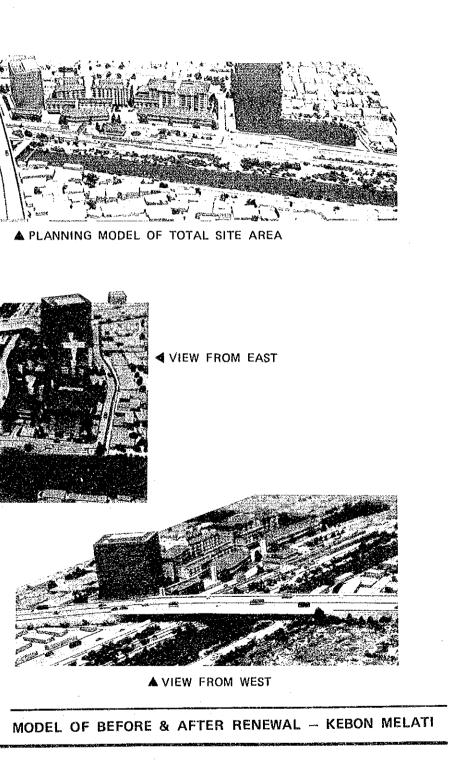
AFTER RENEWAL







A PHOTO OF EXISTING CONDITION



STUDY ON URBAN RENEWAL HOUSING PROJECT IN JAKARTA

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FINAL REPORT

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PREFACE

It is with great pleasure that I present to the Government of the Republic of Indonesia this report entitled "STUDY ON URBAN RENEWAL HOUSING PROJECT IN JAKARTA".

This report embodies the result of the study which was carried out in the Kebon Melati and Manggarai areas of JAKARTA from July 1982 to February 1983 (Stage I) and from June to September 1983 (Stage II) by the Japanese study team commissioned by the Japan International Cooperation Agency following the request of the Government of the Republic of Indonesia to the Government of Japan.

The study team, headed by Mr. Itaru MAE, Pacific Consultants International, had a series of discussions on the Project with the officials concerned of the Government of Indonesia and conducted a wide scope of field survey and data analyses.

I hope that this report will be useful as a basic reference for development of the Project and contribute to the promotion of friendly relations between our two countries.

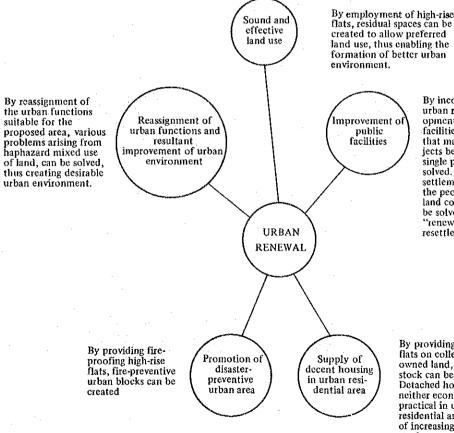
I wish to express my deep appreciation to the officials concerned of the Government of the Republic of Indonesia for their close cooperation extended to the Japanese team.

December, 1983

Keisuke Arita President Japan International Cooperation Agency

AIMS AND EFFECTS OF URBAN RENEWAL

- Urban renewal must be comprehensively planned and intensively implemented with inclusion of the following projects, to achieve maximum "multiple effects" of the project.
 - (a) Improvement of poor standard housing and living environment chiefly from the standpoint of social welfare;
- (b) Development or improvement of urban infrastructures; and
- (c) Improvement and reassignment of urban functions to reflect the city planning in terms of preferred land use.
- Following the government's guidelines, urban renewal must be oriented to cater for the low-income group constituting the majority of urban population, and at the same time be in principle self-financing or financially independent from the government development funding.
- The sites that necessitate urban renewal in Jakarta, may have different "faces", but in general, the aims and effects of the urban renewal in Jakarta can be summarised as shown below.



By incorporating into the urban renewal the development projects for public facilities, various problems that may arise if such projects be dealt with as a single project, can be solved. For example, resettlement problem of the people affected by land condemnation, can be solved by providing "renewal housing" for resettlers.

By providing high-rise flats on collectivelyowned land, more housing stock can be produced. Detached housing is neither economical nor practical in urban residential areas in terms of increasing housing stock.

OBJECTIVES OF THE STUDY

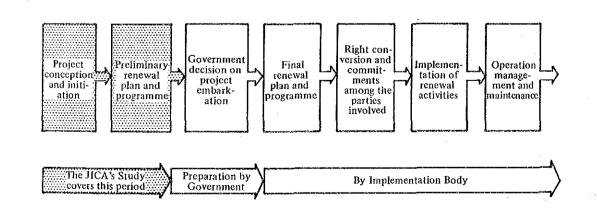
LOCATION MAP OF THE PROJECT SITES

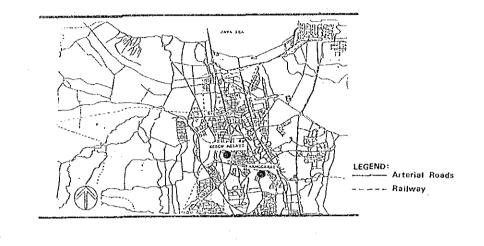
- The scope of work agreed upon on February 27, 1982 between the Directorate General Cipta Karya, Ministry of Public Works, Indonesia and JICA, stipulates the objectives of the Study as follows:
 - (a) To propose basic concepts for implementing urban renewal projects in Jakarta, in general, and in particular, selected study areas in Jakarta (Kebon Melati and Manggarai) in Stage I;
 - (b) To perform feasibility studies for the urban renewal projects to be initiated at the project sites selected in the study areas in Stage II; and
 - (c) To perform technology transfer to Indonesian counterpart personnel in the course of the Study.

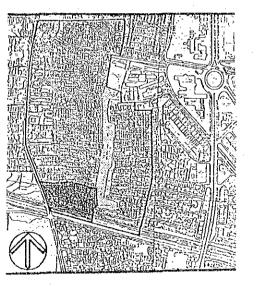
More specifically, the ultimate objective of the Study is to provide a "Preliminary Urban Renewal Plan" to the selected project sites which may serve as the sound basis for the Governmental decision making process prior to embarking the urban renewal projects.

The Preliminary Urban Renewal Plan shall include fairly accurate plans and programmes on land acquisition system, right conversion system, cash-flow analysis, physical planning, project scheduling, project organization, etc., yet it still needs to be elaborated through more accurate physical inventory survey (e.g. real estate measurements) and marketing research (e.g. feasibility of commercial developments). This is also true when considering the circumstantial changes of the sites which may occur by the time of actualization of the project.

The following is a work flow which may be followed by the project and the position of the Study relative to the series of works.





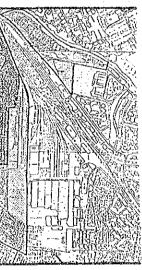


PROJECT SITE IN KEBON MELATI (3.6 ha.)

PROJECT SITE IN MANGGARAI (7.6 ha.)



LEGEND



- The urban renewal is a project that belongs to the city planning pursuing civil benefits, and in this context the government's non-involvement in financial terms appears to be neither realistic nor reasonable. The point is how the government can effectively and efficiently support the projects at the least possible cost. and the subsidy and financial defrayment should be considered along this line.
- Legal, institutional and organizational adjustments are needed. However, the commencement of the proposed project could not wait until everything becomes ready. Nor could it be wise in that such adjustments would become more realistic and substantial through experiencing real problems in implementing the project which may be regarded as a "pilot" project.
- B Organizations for urban renewal can be structured in various ways, e.g. local or central government, or public corporations or civil associations. However, urban renewal projects in Jakarta need to include intensive development of infrastructures, and most of these developments are financially and technically controlled by the central government agencies. Under the circumstances, particularly in consideration of the character of the project as the pilot one with fairly large scale, it is recommended that Cipta Karya will be best suited as the implementation agency and the actual execution assumed by PERUM PERUMNAS.
- A concept of "cross-subsidization" is essential to comply with the government's guidelines on project financing. The cross-subsidization appears to be synonymous with the "redistribution of income" between the socio-economical "dual structure" which predominantly exists in Indonesia. More specifically, the cross-subsidization becomes more substantial if urbane, modern (westernized) and wealthy structure be incorporated in the urban renewal in the form of "revenue-producing projects". Furthermore, to allow this, sites need to be advantageously located to assure the marketabilities of such revenue-producing projects.
- Because of the existence of Kampungs that characterise the city of Jakarta in both qualitative and quantitative terms, the urban renewal should be primarily focussed on the improvement of Kampungs to attain sound and effective land use in a way consistent with the city planning. The improvement, however, always creates a serious problem as to how the socially weak and economically poor people can be safeguarded without being exploited by the project. Planning policy should be directed to rehouse as many inhabitants as possible, providing with decent houses in their original place of living. To allow this, considerable help of the Government may be inevitable in light of their low economical capabilities.
- The urban renewal should be oriented to induce the people's efforts to acquire better life with reasonable financial obligations for purchasing new houses or maintaining their own community facilities. The citizen have to learn that the city life costs them not only moral but also economical accountability.

- Han urban renewal project should be comprehensively planned and intensively implemented to achieve maximum multiple effects and equitable distribution of development benefits accrued by the project.
- The urban renewal can be implemented by civic associations (housing cooperative) in the future when the urban renewal has become more familiar to the citizen and convincible of its merits. The government's support and guide are essential to foster the urban renewal projects by civic associations.
- Unlike infrastructure developments, economical appraisal of urban renewal projects may face the difficulty that effects and benefits are by and large of the nature not quantifiable in money terms and have "intangible" merits which will defy quantification. However, it should be borne in mind that this would never lessen the feasibility of the projects.
- The urban renewal per se will never present a definite panacea against the city problems which are largely attributable to many other "fundamentals", but will be an effective and versatile tool to improve existing urban structures which are outmoded to cope with current problems and needs.
- In place of the conventional purchase-of-land method, the right conversion method should be encouraged to minimise initial investment and to maximise resettlement rate, thus mitigating project cash flow and achieving the objective to improve the living environments of the people.
- In financial terms, the financial burden to be borne by the Government is for the subsidy applicable to the selected cost items and the defrayed costs for improvements to the public facilities involved, which accounts for about 30 percent of the total implementation cost. This is a very important character inherent to urban renewal projects, distinct from ordinary infrastructure development projects. In other words, the Government or the implementation body can initiate an urban renewal project with arrangement of the budget of about 30 percent of the total cost plus operational funds which will be normally recoverable from revenue-producing projects.

RECOMMENDATIONS 3

IMPLEMENTATION METHODS 4

Three Alternative Methods of Urban Renewal Project

(a) Purchase-of-land method

This is the conventional method to acquire the necessary land for public projects. In a built-up urban area, particularly where densely populated, over-crowded urban residential areas like Kampungs, this method appears to be less workable due to difficulties in evaluating the piecemeal rights of the people on the fragmentary land ownership before renewal.

(b) Right conversion method

To avoid the disadvantages of the purchase-of-land method as above mentioned, this method was developed originally from the method of "land readiustment" (KUKAKU-SEIRI). In this method, the rights to the land and buildings before renewal are converted to the new rights after renewal. The supreme objective of this method is to make the best possible effort to form an agreement on the urban renewal project amongst the inhabitants involved, thus aiming at maximising the resettlement rate.

(c) Reserved right-conversion method

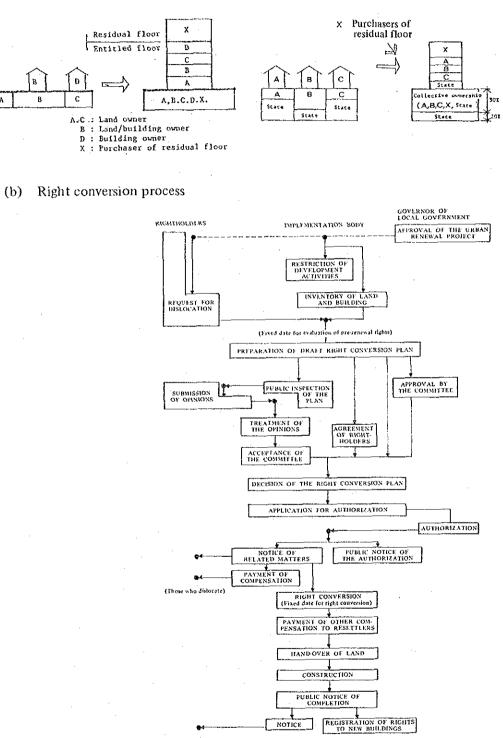
This is a variation of the right conversion method by introducing the merits of the purchase-of-land method. In this method, the rights before renewal are once purchased and the payments are deposited until requested by the rightholders to withdraw the amount for dislocation. For those who request to be resettled in new houses, the rights after renewal will be provided in the same manner as the ordinary right conversion method.

In this report, the right conversion method (b) is recommended as best suited for the proposed projects in that the method would maximise the resettlement rate and thus minimise the financial burden of the implementation body.

Right Conversion Method

(a) Principle of the method

In accordance with the right conversion system, the rights before renewal will be converted to the rights after renewal as shown below. According to this method, the land ownership of the State can also be converted to the part of the entitled floor in proportion to its rights before renewal. This Government's entitled floor can be allocated for use of public facilities or for supply of housing to the low-income people to serve as social welfare.

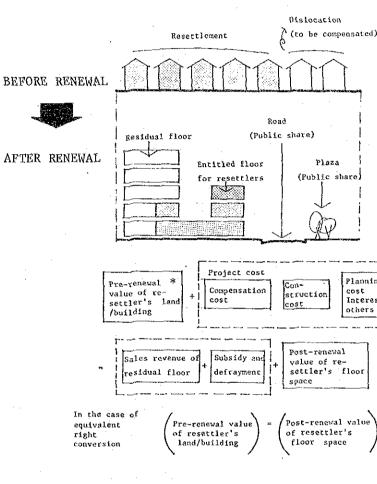




OUTLINE OF PROJECT FINANCE 5

- The expenses to be incurred by the implementation body are as follows:
 - (a) Compensation for the land and buildings, to be paid to the rightholders who will dislocate to other places without being resettled.
 - (b) Compensation for any loss or damage incurred by the rightholders during the course of construction, such as compensation for suspension of trading, temporary housing, etc.
 - (c) Implementation expenses for planning and design, construction of public facilities and housing/buildings, interests against loan, etc.
- The revenues that shall be recovered by the implementation body, are as follows:
 - (a) Revenue from lease or sales of the residual floor or land which are normally developed for commercial or business use in expectation of higher productivity.
 - (b) Susbidy^{*} from the government which covers part of the compensations of the first two above, and part of the implementation expenses of the above.
 - (c) Defrayments from the management agencies responsible for public facilities, the maximum amount of which is estimated on the assumption that the improvement would be done as an independent project by the "purchase-ofland" method.

Relation between "project" and "finance"



- * The Government's subsidy may be granted for the following reasons.
- Encouragement of urban renewal projects.
- Compensation for the loss or damage suffered by the people due to the projects (suspension of trading, temporary housing, etc.).
- Compensation for extra costs needed to develop built-up area (planning and design of the right conversion, land preparation, etc.)
- Financial share for the costs paid for the construction of the facilities for public use (open space, corridor, elevator, staircase, utilities, public hall, etc.).

* Relief to poor rightholders

In planning the right conversion, the following countermeasures should be considered to the persons who cannot obtain reasonably adequate floor area.

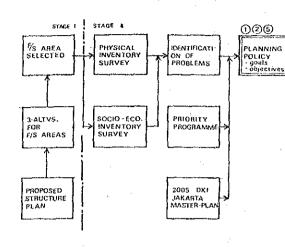
- Sell or rent the necessary additional floor to such inhabitants by reallocating the state's entitled floor at a subsidized price or rent according to the Government policy. In the Study, financial analysis does not include the possible repayment for the added floor as the revenue of the implementation body.
- To those who wish to dislocate, the implementation body should help them to find their new home such as other low-income housing,

Planning Interest

FLOW CHART OF THE CHOICE OF ALTERNATIVES : PRELIMINARY URBAN RENEWAL PLAN (P.U.R.P)

CONCEPT PLAN

"Macro-setting" (3)



As urban renewal has the nature of improving existing urban structures in a selected limited area in pursuance of the local redevelopment plan (structure plan), choice of alternative planning concepts is normaly narrowed because of the limitations of existing demographic, geographic, socio-economic, planologic, methodologic features and constraints attached to the site.

The above flow chart shows the choice of alternatives, linked to the flow of the Stage-II Study starting from inventory surveys through to the establishment of a preliminary urban renewal plan. Before arriving at the ultimate plan, plans are examined for desirability through the two processes as shown in the figure, one is "macro-setting" for the concept plan and the other is "micro-setting" for the preliminary urban renewal plan.

The table shows the alternatives on the major items chosen in the study process.

		1 A			
. · · ·		ALTERNATIVES CHO	SEN IN THE STUDY PROCESS	C]: Chosen alternatives
1 REGIONAL SETTING	2 CHARACTERISTICS OF URBAN RENEWAL	3 HEIGHT OF BUILDING	4 HOUSING LOT 4 PLANNING	S IMPLEMENTATION METHOD	6 RESETTLEMENT RATE
a. City centre or sub-centre type b. District centre type c. Other functional assignments	 a. Predominantly linked with infrastructure improvements b. Aimed at improving housing and build- ing 	a. High-rise bldg. b. Mid-rise bldg. c. Low-rise bldg.	a. Open-gallery typeb. Single-corridor typec. Staircase typed. Twin-corridor typee. Inner corridor typef. Court type	 a. Porchase-of-land b. Right conversion c. Reserved right conversion 	a. 100% [b. 75%] e. 50%
Manggarai is character- ized as a city sub- centre, whilst Kobon Nelati as an urban residential area	Both project sites need incorporation of infrastructure improve- ments into the proposed urban renewal projects	To realise sound and effective land use, it is essential to exploy high-rise buildings from economic and physical aspects	Open-gallery type is chosen in that it enables dense layout of buildings, preserv- ing existing neigh- bourhood atmosphere	Right conversion mathod is chosen in that it lessens initial investment, raises resortlement rate and enables equitable dis- tribution of develop- ment benefits	Referring to the socio- economic survey data, 75% is employed as a reasonable maximum rate that may likely happen
7 REVENUE-PRODUCING 7 BUILDINGS	8 ECONOMIC FEASIBILITY	9 SUBSIDY SYSTEM	10 DEFRAYMENT	11 RIGHT CONVERSION	12 IMPLEMENTATION ORGANIZATION
a. No b. Yes <u>Commercial</u> <u>Office</u> <u>Hotel</u> Nousing Others	Regarding tangible benefit a. Development benefits by effective land use b. Benefits from infra improvement c. Other benefits	a. Selective subsidy b. Lump sum c. Deficit-pay	a. Yes b. No	Regarding public land a. Converted as a right before renewal b. Not converted	a. PERUSCIAS b. DKI Jakarta c. Quasi-public corporation d. Civil association
Project in Manggaral includes commercial, office and hotel facil- itles to satisfy sub- centre functions. Whilst, project in Kebon Melati includes neighbourhood shops and office buildings	The above two benefits are quantified in monetary terms and other benefits are dealt with as intangi- ble benefits that defy quantification	Subsidy must be selec- tively applied to the items which are parti- cularly required for urban renewal projects, taking into consider- ation the public bene- fits that may be accured by the projects	One of the important aims of the urban re- neval is to improve related Infrastructure simultaneously. This may justify the financial defrayed costs of the respective agencies responsible for the public facility	The value on land before renewal are converted to the right on floor after renewal. The value on land is to be shared by the state against its right, thus the entitled floor after renewal is proporsion- ally shared by the state	a. or b. is preferred in consideration of public purpose. Of a. and b., a. is re- commended because of its experiences in housing development and accountability for urban development

STAGE U

PRELIMINARY URBAN RENEWAL PLAN

"Micro-setting"(46)(8900)

GOVERNMENT

DECISION

SUMMARY-MANGGARAI 7

Environments of the Area

- (a) 2005 Master Plan of DKI Jakarta designates the area as a city subcentre.
- (b) JABOTABEK railway improvement programmes indicate betterment of the Manggarai station.
- (c) The area presents poor living environment with extremely high population density and lacks public facilities.
- (d) About 140 home industries manufacturing "kompor" located in the area are scheduled to move out to the new small industrial complex in Pulo Gadung.

Renewal Plan

The project includes:

- (a) Improvement of public facilities such as station-front plaza, major roads, bus terminals, public utilities, community facilities.
- (b) Realization of effective land use around the station to assign a subcentre function.
- (c) Improvement of living environment such as decent flats, parts, etc.

The implementation is divided into two sections in consideration of the execution scale and priority, and each section can be financially independent.

Implementation Cost and Schedule

The implementat	ion cost	Unit;	Million Rp.
Childreith Anna An Canna Maria an Anna Anna Anna Anna Anna Anna Anna	Section-I (Rp.)	Section-II (Rp.)	Total (Rp.)
Implementa- tion cost	32,500 (100%)	34,300	66,800 (100%)
Subsidy	3,600 (11%)	3,100	6,700 (10%)
Defrayment	5,000 (15%)	2,700	7,700 (12%)
Sales revenue of residual floor	23,900 (74%)	28,500	52,400 (78%)

(b) Floor unit cost

F21	93,300 Rp./m ²	
F26, F36, F54	115,000 Rp./m ²	

(c) Right-convension rate on land and floor area : approximately 1.0

- (d) Added floor against the extremely poor rightholders should be reallocated from the state's entitled floor obtained by the right conversion method.
- (e) Implementation schedule is planned to be,

Section-I : 5 years including urban renewal planning Section I+II : 8 years including urban renewal planning

Financial Analysis

FIRR (Financial Internal Rate of Return): Section I : 7.9% Section II : 9.4%

Financial analysis shows that should the loan with the following conditions be available, the project could produce surplus (profit) at the end of the amortization period and the surplus could offset the financial burden of the Government.

- Foreign soft loan for the portion of : 20-year amortization including 5foreign currenty
- Local loan for the portion of local currency

B Economic Analysis

As a result of economic analysis, the project is feasible and greatly contributes to the national economy.

IRR	(Internal Rate of Return)	: 18%
NPV	(Net Present Value)	: Rp. 7,366 mill

year grace at 5-percent interest

: 20-year amortization including 5year grace at 12-percent interest.

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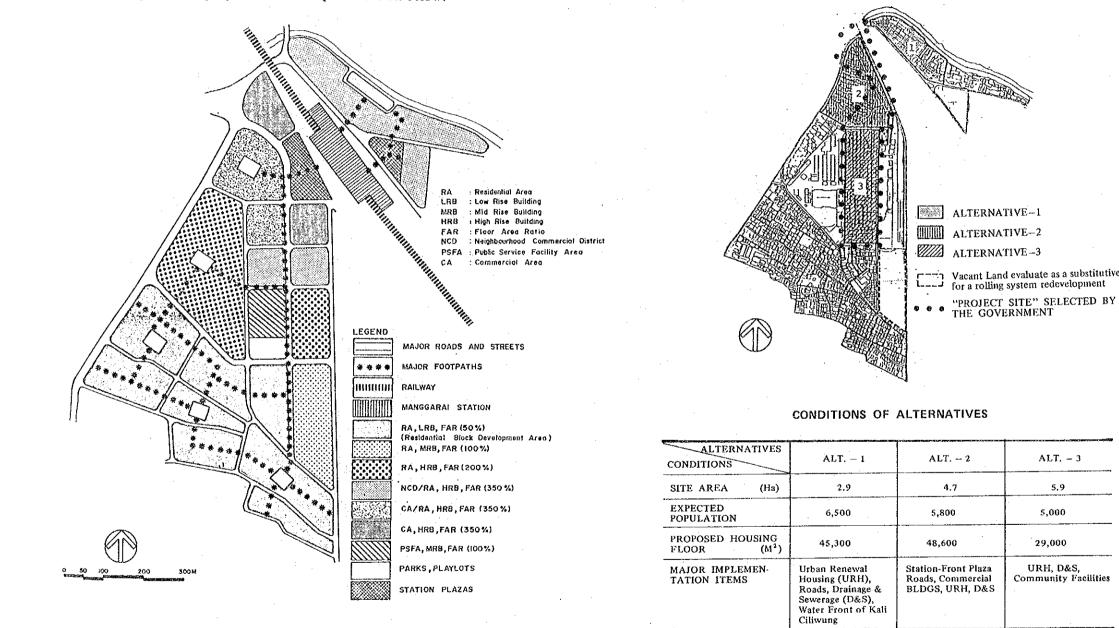
STRUCTURE PLAN & SELECTED PROJECT SITE -MANGGARAI 8

STRUCTURE PLAN

Accoording to the Preliminary DKI Master Plan for the year 2005, Manggarai will be redeveloped in the future as mixed commercial, business and residential areas with sub-centre functions, linked with railway improvement programmes involving a station-front plaza. The proposed structure plan is shown below.

PROJECT SITE SELECTED

Three alternative sites for feasibility studies were recommended, of which the site marked as "Project Site" was ultimately selected by the Government.



PROPOSED STRUCTURE PLAN IN MANGGARAI

Vacant Land evaluate as a substitutive land for a rolling system redevelopment

ALT. - 3

5.9

5,000

29,000

URH, D&S, Community Facilities

DESIGN CONCEPT & LAYOUT PLAN - MANGGARAI 9

Supply of low-cost housing and adequate community facilities

- In general, 8-storey flats are designated.
- In every flat, open galleries are designed to provide community spaces.
- Public open areas are provided for playground, garden and sports field, etc.
- Manggarai mall (a pedestrian road connecting residential area to the Manggarai station) is designated to provide a multi-functional open space.
- Development of station-front plaze
 - Relocation of existing bus terminals to the station-front plaza
 - -- Elevated pedestrian deck which separates the pedestrians from the road services.
- Development of commercial and business facilities in front of the station-front plaza
 - A block

A middle-class hotel of 20 storeys with 300 rooms. The hotel will become a land-mark of the Manggarai area.

-- B block

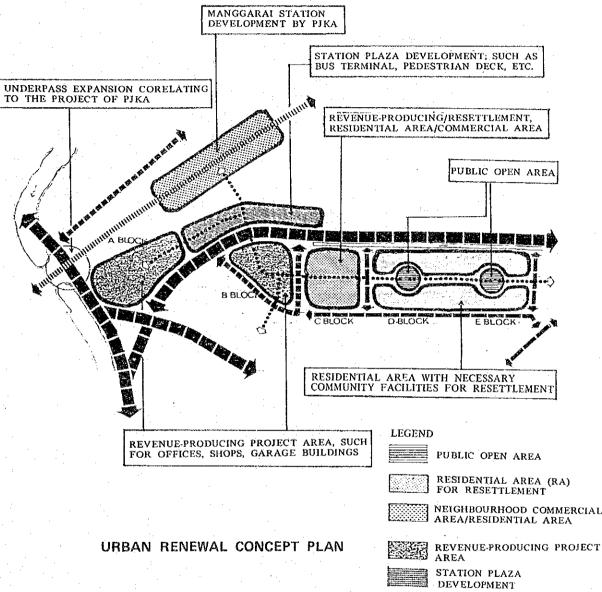
A shopping centre (from 1st floor to 6th flloor) and a office (from 7th floor to 12th floor)

- A and B blocks are connected to the station-front plaza with the elevated pedestrian deck.

25 m wide road

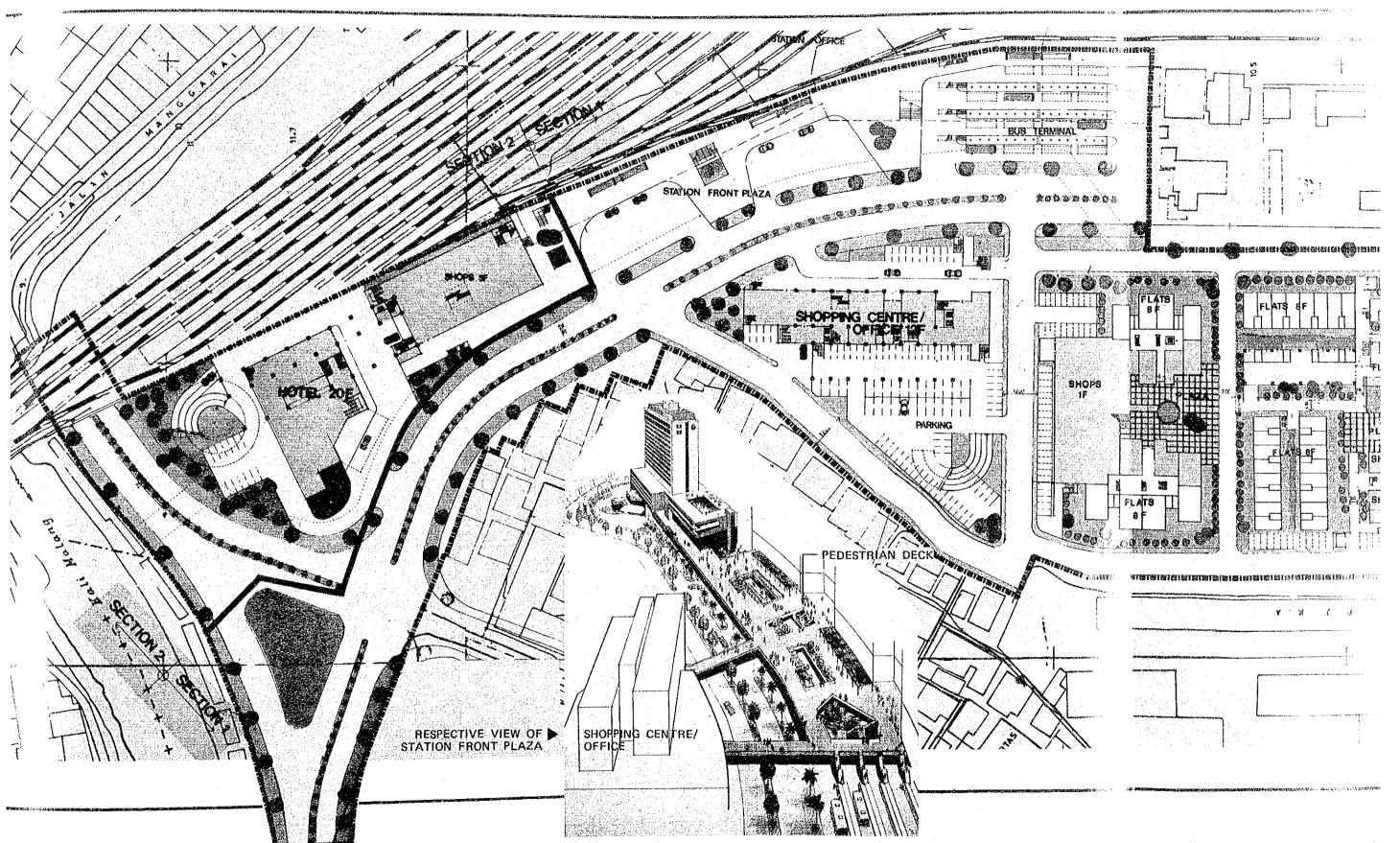
25 m wide road (R.O.W.) is designated for access to the station-front plaza.

25 m wide road will serve as a future main road connecting the north and the south areas of the Manggarai district.

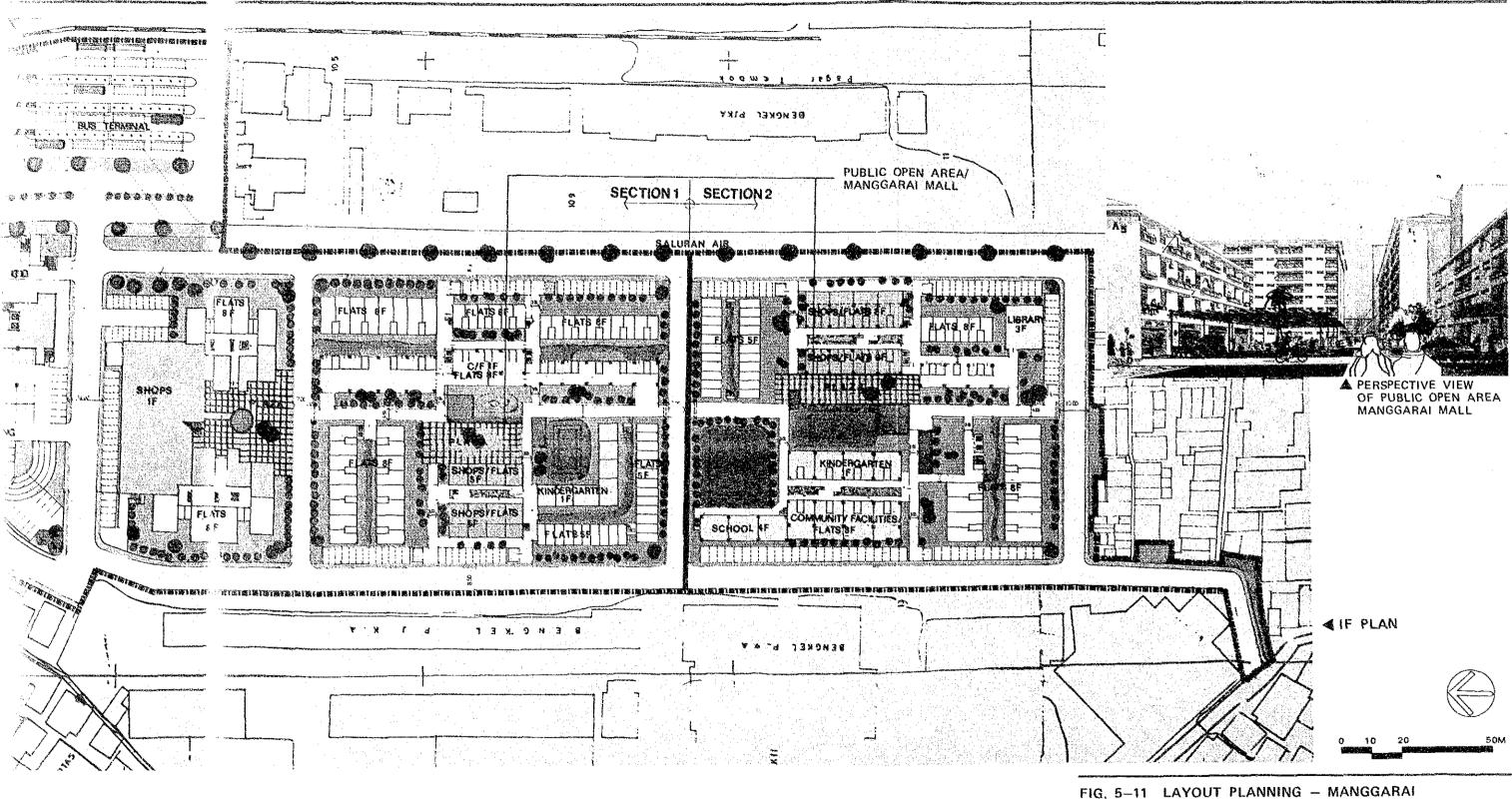


- NEIGHBOURHOOD COMMERCIAL AREA/RESIDENTIAL AREA

- MANGGARAI STATION DEVELOPMENT
- MAJOR ROADS
- ■顧編課 SECOUNDARY ROADS
- NEIGHBOURHOOD ROADS
- **AGGGO MAJOR FOOTPATHS**
- DHIIII RAIL WAY



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MANGGARAI

Section 1

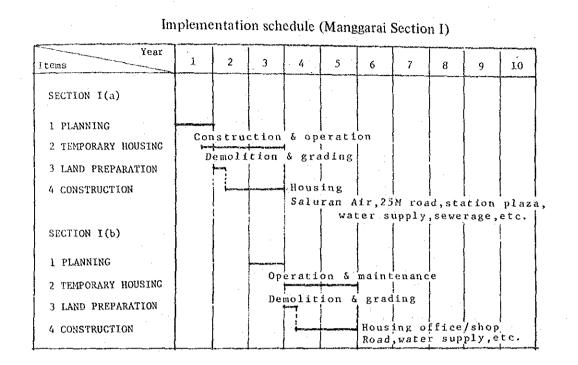
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General	1		Majot r	oad.		1,900			1.6%	1 12	900m ²	4n 24.6	~	Remarks
Condition of Plan		ľ	Neighbo Road		00đ	5,400	~~~~~).8%		600	15.2		
	Land Area		Station plazs	fron	ıt	Bus tern 1,800	ninal		3.6%	6,	900	13.0	<u>r</u> ,	
	tr ç	P ab	River			1,600	1	3	3.2%		0	0	76	
	1		Others			()		0%		0	0	%	
			Sub-tat	8l		10,600		21	.2%	26,	800	53.5	76	
		Bui	ilding lo	t are	а	39,450		78	8.8%	23,	250	46.5	%	
		Pto	oject are	э		50,050	k	2	00%	50,	050	100	χ.	
		Ho	use		-	31,900)			40,	610			Private Floor 32,330
	÷	Sho	<u> </u>			1,000					740			9,370
	1 51	0(. (13,	000			8,220
	2	Ro				C				l	0			0
	Flor	·	rkshop			4,100				ļ	0			0
			park			C		•			450	· · ·		10,450
			blic buil	ding	s	400					570			570
	Ľ	To				37 400			<u> </u>	79.	370	- 74		60,940
	<u>+</u>		area tati			i		5%				<u>5%</u>		
	<u> </u>		ige ratio			<u>-</u>		55				9% >	-	
	<u> </u>		er of ho stion	u 5381			6.0	50			84 6.05			
	[10]							· · · ·	T	L.,	0.05		_	L
ype of housing	Ту		Private Floor a	realo	·······	s lype	Priva Floor	area	of					
	F2	-+	21.0	n²	235	F54		.7m *	12]
	F2.	·	27.4	_	240	F70	76.	.5		50	{			
	F3	6	38.6	<u> </u>	128	F100	105		1.	50				t in the state
fommunity acilities	Kir	nder	rgarten		. 1	Morse	ue	l	·	1			ł	
number)	Me	etin	g hall		1	-		+					1.	
inancial plan	Ì		Reve	กมะ			Expe	ndit	ure		J	tem o	f Su	bsidy
	Sul	osid			,589	Plann		T	1,74	1	Plannin		Ť	1,161
* (Rp.J.000.000)		~	ment	4	,998	Land Prepa	ration		43		Land Prepar	ation		1,073
		resid	Revenue dual	23	,939	Сотр	ensatio	on	62	6	Constr	uction		1,184
		~		<u>ا </u>		Const	ruction	1 2	3,48	1.	Over h	ead, e	tc.	171
	1			ł			enance	-+-	53		ltem o	f Defr	ayn	nent
				1		Overh	ead et	c.	1.52	6	Land C	ost	T	2,916
	1			Į		Conti	ngeney		2,34	8	Constr	uction		1,395
	L					Intere	st		1,83	0.	Сотре	nsatio	m	449
	To	tal		32	,526	Total		3	12,52	6	Overhe	ad, et	c.]	238
'nit floor ost	Ho (F:	use 21)		louse 25-F	(2) 54)	Hous. (F70,F1	(3) 00) S	hop	(1)	Com facili	munity ity	off	ice	Shop (2)
Rp. 1000/m ¹	[93.	.3	11	\$	159.2		207.	3	20	7.3	1,16	1.0	1,672.2
Right-conversion	for	or a rigi der		9 23	7m²	Conve rate (lend	[1.0	Conver rate (land a	- 1		1.0

.

					Se	ctic	'n	11						
							Pr	esent		T			Plan	Remarks
Seneral .		_	Major r	road	i	1	-	0m²	-	5.1%		400		
Condition of		Use	Neighb Road	our	hood	2	,901	0	,	J.3%	<u> </u>	,300	n ³ 13.3% 16.8%	
	and Area	Public U	Station plaza	fre	ont	0			0%		0	0%		
	and	Pu	River			1	.400	0		5.5%		0	0%	1
	"		Others				500	0		1.9%		. 0	0%	1
			Sub-to	tal		.6	.100	0	2	3.8%	7	,700	30.1	
	<u>۲</u>		ilding lo		ea	19	,500	D	7	6.2%	17	,900	69.9%	•
	\square	Project area			25	.600	0	10	0 %	25	600	100%		
		House				12	,090	0]	21	,650		private floor n 17,230
		Sha				ı	,300	D			7	,900		5,140
	Vie V	<u>Ol</u>	ice				(0				0		0
	_	Ho	tel				(0			23	1,530		16,010
	FUO	Wo	rkshop				200	D				0		C
		_	park					0				,330		11,330
	ł . F		lic buil	din	<u>gs</u>		566					1,640		2,640
	–…ւ	Tot				14	.090				67	,050	311%	52,345
	J		area rati						727				_ _	
	<u> </u>	_	ge ratio						55?	ć.			49%	· ·
· · ·		Number of housing uni											\$20	·
	Pop	Population						2.7	50	لمحج			2,750	
ype of housing	Тур	vne Private Numbe					pe	Private Floor ar			mber			
	F21	+	Floor a 21.00		of unit 110	<u> </u>		F100F			6			
	F25		27.4		202		-+		-		·			
:	F36	-	38.6		115	_1	-†	<u> </u>						
ommunity cilities	Fler	mer	ltary	<u> </u>	 	Me	etin	g hall	Γ		1	Libra	it.	. 1
umber)	<u> </u>	-	garten		1		squ				1			
								<u>ا</u>						
nancial plan	<u> </u>		Reve	· ~ ~	3,118		nsii	Expe	na t	1,85	-	Flanı	Item of S	1,258
	Sub	110	<u>y</u>		· · · · ·	La			-+			Land		
(Rp.1,000,000)	Defi	ray	ment		2.657			ation		16	2		aration	505
	Sale of r floo	esic	levenue Iusi	2	8,495	Co	npe	nsətid	n	35	3	Cons	truction	1,207
		<u>.</u>				Co	astr	uction	,	25,45	4	Over	head, etc.	148
						<u>}</u>		nance	+	24		·	of Defray	L
			ļ		· .			ad etc	-+	1,65			Cost	288
								gency		2,54			truction	2,200
	÷.,		.	[·	eres	_		1,97)	Com	pensation	42
	Tot	81		ļ		To	al			34,27	5	Over	head, etc.	127
it floor	Hov	se			e (2)	Shop	(I) (I)		oni scili	munit iv	M	etal.	Shop (2)	Car parkin
Rp. 1000/m ²	(F2 92	1) 1.7			-F54)	15-	-		208		$\frac{1}{1}$	87.0	1.750.3	43.3
ight-conversion	92.7 114.0 Floor area for right 13,358m ²			rate		rea)		0.9		rate	ersion area)	1.3		

Section I + II

	TT			T	P	esent				PI	ian	Rer	narks
General	ĺĺ	Majo	TOA	1	3,100)n1 ¹		4.1%	1	5,700m	120.8%		
Condition of plan		Neigh		rhoud	8,30)	1	1.0%	י	1,910	15.7%	ļ	
	and Area	Stati plaza River		ont	1,80)		2.4%		6,900	9.1%		
	P	River			3,008	<u> </u>		4.0%	1	0	0%		
	13	Othe			50			0.7%		0	0%		
		Sub-	otal		16,70)	2	2.1%	3	4,500	45.6%		
		Building	lot a	rea	58,95	,	7	7.9%	4	1,150	54.4%		
	10	Project	ires		76,60)		100%	7	5,600	100%		
	Π	House			43,99	3			6	2,260	.•	Prival	e floo
		Shop			2,300)			2	2.640			
1	Arca	Office			()			}	3,000		<u> </u>	
		Hotel		· .	(2	9,530		5 of	5
	1501	Worksho	<u> </u>]	4,300				ļ	0		Ref. Tables of	section
	1 6	Car park							L	1,780		Ë	ž.—
	4 F	Public b	uildir	1gs	900	<u> </u>			<u>i – i</u>	3,210		- Rei	cach
	<u>-1</u>	Total			51,490		7%		14	5,420	<i>a</i>		
		or area r					0%			302			
	·	erage ra nber of		na voit			078		<u> </u>	1,363			
	-	ulation				8,800				8,800			
	1			<u></u>	~~~			<u>Ty</u>	<u></u>			<u></u>	
Type of housing	Typ	Priva Floo		Number of units	Type	Priva Floo		Num a of ur					
	F 21			345	F54	52	.7m	2 21	6				
	F25		1	442	F70	76	.5	6	0				
	F36	38.	; 	240	F100	105		6	0			_	
Community facilities	Eler	mentary		1	Meeti	ng hali			2	Librar	у		1
(number)	<u> </u>	dergarte	n	2	Mosa	ue	1		2				
Financial plan	╉┈╍	<u>р</u> .	<u>. L</u> venu		+	Exp	<u>ihne</u>	ture		1	item of S	ubsidy	
r manotal pton	Sub	sidy	T	6,707	Plann		- T	3,67	8	Pianni			,419
	h	rayment		7,655	Land	ration		60	- 1	Land Prepar			,578
* (Rp.1,000,000)		esidual	ue	52.343	Comp	ensati	on	 97	9	Constr	uction	2	,392
	1		-+-	<u>.</u>	Const	ructio	n	48,93	5	Over h	ead, etc.		320
	1				Maint	enanc	e	78	0	Item o	of Defray	ment	
	1		1		Overb	ead et	c.	3,18	1	Land	Cost	3	,204
	1				Conti	ngene	y [4,89	3	Const	ruction	_ :	1,595
	L				Intere	st	Ì	3,80	0	Comp	ensation	1	491
	Tot	al		66,796	Fotal		l.	66,79	16	Overh	ead, etc.		365
Unit floor	1								_				
Cost Rp. 1000/m ¹	 			 . }		-1					1		·
Right-conversion		or area				ersion	Ī			Conve	rsion		
•	for	right der	1		rate (land		Į			rate {land.			



Financial Schedule in Manggarai - Section I

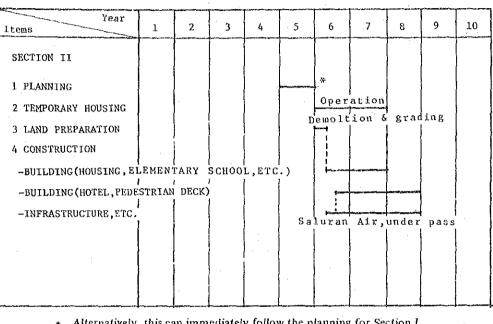
~	Year	Ţ	COL	NSTRUCT	ION		1	ĺ.	1	1
		1	į 2	3	4	5	6-24			Total
ĺ	Equity	0	U	0	0	0	0			ر ا
	Share Defrayment	1,325	0	341	2,650	0.	682	 1		4,998
pur l	Subsidy	895	709	1,160	490	336	0			3,590
0.0	Revenue from Rental Floor	0	0	0	135	135	65,493		<u> </u>	65,763
Sour	Foreign Loan	611	1,643	2,086	3,510	4,589	0			12,439
50	Domestic Loan	0	689	1,344	3,142	8,924	0			14,09
	Total	2,831	3,041	4,931	9,927	13,984	66,175	{		100,88
	Implementation Cost	1,610	4,035	4,470	8,913	11,670	0		Τ	30,69
	Interest of Foreign Loan ¹¹)	31	113	217	393	622	7,291			8.64
- 190	Interest of Domestic Loan **)	0	83	244	621	1,692	22,768		T	25,40
5	Repayment of Foreign Loan	0	0	0	0	0	12,439		T	12,43
ŝ	Repayment of Domestic Loan	0	0	0	0	0	14,099	 1	T	14,09
	Total	1,641	4,231	4,931	9,927	13,984	56,577	 		91,29

> 8,588 = 4,998 + 3,590 ÷ 9,598

Share Defrayment + Subsidy -

*1) : 5% *1) : 12%

Implementation schedule (Manggarai Section II)



* Alternatively, this can immediately follow the planning for Section I.

Financial Schedule in Manggarai – Section II

Year			- 1			CONSTR	IDCHON	_
Items	1	2	3	4	5	6	7	8
Equity	0	` 0 '	0	0	• 0	0	0	
Share Defrayment	0	0	0	0	886	0	0	
Subsidy	<u>o</u>	0	0	0	1,543	788	788	
Revenue from Rental Floor	0	0	0	0	0	0	0	1
Foreign Loan	0	0	0	0	1,533	3,086	5,359	3,6
Domestic Loan	0	0	0	0	0	2,956	8,815	8,3
Total	0	0	0	Ů	3,962	6,830	14,962	12,2
Implementation Cost	D	0	0	0	2,575	7,554	13,050	9,1
Interest of Foreign Loan *1 }	0	0	0	0	11	231	499	6
Interest of Domestic Loan *2)	0	0	0	0	.0	355	1,413	2,4
Repayment of Foreign Loan	0	. 0	0	0	0	0	0	
Repayment of Domestic Loan	0	0	0	0	. 0	0 . I	0	
Total	0	0	0	0	2,652	8,140	14,962	12,2
= 5,806	111,897	5,776	.,		nt + Subsi	dy		
	Equity Share Defrayment Subsidy Revenue from Rental Floor Foreign Loan Domestic Loan Total Interest of Foreign Loan *1) Interest of Domestic Loan *2) Repayment of Foreign Loan Repayment of Domestic Loan Total Final Cash Balance = 117,703 - = 5,806 *1) : 5%	Share Defrayment 0 Subsidy 0 Subsidy 0 Revenue from Rental Floor 0 Foreign Loan 0 Domestic Loan 0 Total 0 Interest of Foreign Loan 0 Interest of Foreign Loan 0 Repayment of Foreign Loan 0 Repayment of Foreign Loan 0 Final Cash Balance 117,703 - 111,897 = 5,806	Share Defrayment 0 0 Share Defrayment 0 0 Subsidy 0 0 Subsidy 0 0 Revenue from Rental Floor 0 0 Foreign Loan 0 0 Domestic Loan 0 0 Interest of Foreign Loan *1) 0 0 Interest of Foreign Loan *1) 0 0 Repayment of Foreign Loan 0 0 Repayment of Domestic Loan 0 0 Total 0 0 Final Cash Balance = 117,703 - 111.897 = 5,806 > 5,776	Share Defrayment00Share Defrayment00Subsidy00Subsidy00Revenue from Rental Floor00Foreign Loan00Domestic Loan00Domestic Loan00Total00Interest of Foreign Loan00Interest of Foreign Loan00Repayment of Foreign Loan00Repayment of Domestic Loan00Total00Final Cash Balance117,703 - 111.897 = $5,806$ $5,776$ $= 2,657$ = Share	Share Defrayment 0 0 0 0 Share Defrayment 0 0 0 0 0 Subsidy 0 0 0 0 0 0 Subsidy 0 0 0 0 0 0 0 Revenue from Rental Floor 0 0 0 0 0 0 0 Foreign Loan 0 0 0 0 0 0 0 Domestic Loan 0 0 0 0 0 0 0 Interest of Foreign Loan *1 0 0 0 0 0 0 Interest of Domestic Loan *2 0 0 0 0 0 0 Repayment of Foreign Loan 0 0 0 0 0 0 0 Repayment of Domestic Loan 0 0 0 0 0 0 0 Total 0 0 0 0 0 0 0 0 = 5,806 > 5,776 =	Share Defrayment 0 0 0 0 886 Subsidy 0 0 0 0 1,543 Revenue from Rental Floor 0 0 0 0 0 0 Foreign Loan 0 0 0 0 0 1,533 Domestic Loan 0 0 0 0 0 0 0 Total 0 0 0 0 0 3,962 Interest of Foreign Loan *1) 0 0 0 0 0 2,575 Interest of Foreign Loan *1) 0 0 0 0 77 Interest of Domestic Loan *2) 0 0 0 0 0 0 Repayment of Foreign Loan 0 0 0 0 0 0 Total 0 0 0 0 0 0 0 Repayment of Domestic Loan 0 0 0 0 0 0 Total 0 0 0 0 0 0 0 0	Share Defrayment 0 0 0 0 0 886 0 Subsidy 0 0 0 0 0 0 0 1,543 788 Revenue from Rental Floor 0 0 0 0 0 0 0 0 0 0 Foreign Loan 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Share Defrayment 0 0 0 0 886 0 Share Defrayment 0 0 0 0 0 886 0 0 Subsidy 0 0 0 0 0 0 1,543 788 788 Revenue from Rental Floor 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <t< td=""></t<>

Unit: Rp.1.000.000					
	9-27	Total			
0	0	0			
0	1,771	2,657			
0	0	3,119			
62	77,957	78,119			
97	0	13,675			
62	0	20,133			
21	79,728	117,703			
21	0	32,300			
84	8,020	9,511			
16	32,112	36,296			
0	13,657	13,657			
0	20,133	20,133			
21	73,922	111,897			

A sensitivity analysis was made to the financial schedule which will be greatly affected by fluctuations of the foreign portion and interest rates of domestic loan. The analysis was made to the entire project (Section I + Section II) and the cases analysed are as shown below.

Interest rate of domes- tic loan Foreign Portion	12%	14%	16%	18%
40%	Case 1 (Basic Case)	Case 2	Case 3	Case 4
50%	Case 5	Case 6	Case 7	Case 8

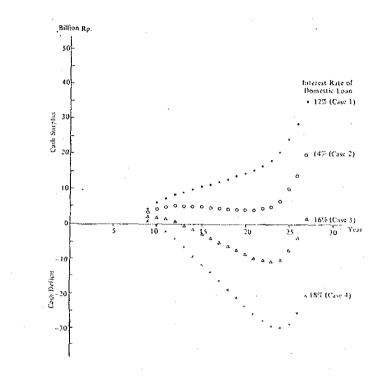
The following table shows the amount of the foreign portion respective to the foreign cost component involved in the building construction being 40% and 50%.

•		(Million Rp.)
Foreign Portion	40%	50%
l st year	611	611
2nd year	1,643	2,095
3rd year	2,086	2,456
4th year	3,510	4,408
5th year	6,122	7,318
6th year	3,086	3,818
7th year	5,359	6,627
8th year	3,697	4,568
Total	26,114	31,901
مربع بن المربع من ال مربع المربع المربع من		

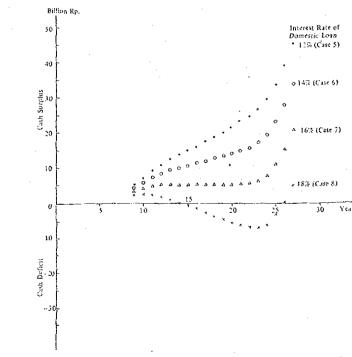
The amount of cumulative cash surplus or deficit is shown each for the cases of 40% and 50%. In the case of 40%, cash flow becomes deficit at the interest rate of 16% per annum, in the 5th year after completion of the construction. Whereas, in the case of 50%, cash flow becomes deficit at the interest rate of 18% per annum, in the 6th year after completion of the construction.

In order to assure the sound financial status of the project, it is very much essential that the implementation body makes efforts to arrange as low-interest loan as possible and to raise an occupancy rate of the residual floor.

FINANCIAL SENSITIVITY ANALYSIS-MANGGARAI 12



CUMULATIVE CASH SURPLUS AND DEFICIT - FOREIGN PORTION: 40%



CUMULATIVE CASH SURPLUS AND DEFICIT - FOREIGN PORTION: 50%

SUMMARY-KEBON MELATI 13

Environments of the Area

- (a) The Master Plan describes the area as urban residential area in need of environmental improvement.
- (b) The area presents poor living environment with high population density and lacks public facilities.
- (c) JABOTABEK railway improvement programmes indicate the betterment of the Western Line including the New Karet station project in the south of the area.

Renewal Plan

The project includes:

- (a) Improvement of public facilities such as major roads, station-front plaza, public utilities, community facilities, etc.
- (b) Improvement of living environment such as decent flats, water-front park in the Melati Pond, etc.
- (c) Development of neighbourhood commercial function along the major roads.

Implementation Cost and Schedule

The implementation cost	Unit:	Million Rp
The implementation cost	Rp.20,500	(100%)
The subsidy ,	Rp. 2,100	(10%)
The defrayment	Rp. 3,400	(17%)
Sales revenue of residual floor	Rp,15,000	(73%)

- (b) Floor unit cost: F21, 25, 36, 54 112,300 Rp./m²
- (c) Right-conversion rate and added floor : Same as Manggarai
- (d) Implementation schedule is planned to be 3.5 years including the urban renewal planning.

Financial Analysis

FIRR: 7.6%

Fiancial analysis shows that should the loan with the same conditions as in Manggarai be available, the project could produce surplus (profit) at the end of the amortization period, and the surplus could offset 97 percent of the financial burden of the Government.

Economic Analysis

As a result of economic analysis, the project is less feasible. However, as discussed previously, the result merely based on the quantifiable benefits should not defy the importance of the project.

IRR : 11.7%

NPV: yRp.4,106 Million (negative NPV)

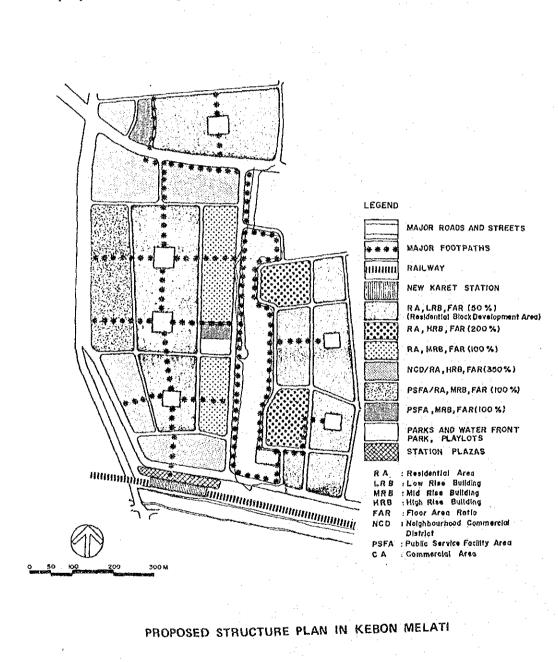
The project may be implemented by a housing cooperative. To foster the urban renewal projects by cooperative, legal and institutional adjustments concerning the Government's subsidy and defrayment should be made. Furthermore, it should be controlled that cooperatives may carry out urban renewal projects only at sites designated by the city planning.

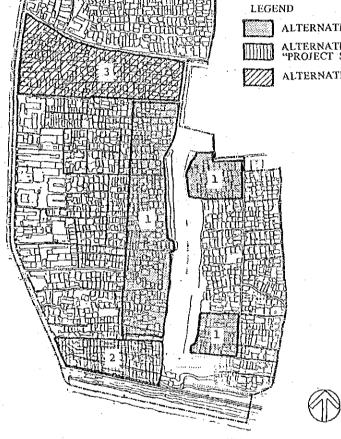
STRUCTURE PLAN

According to the Preliminary DKI Master Plan for the year 2005, Kebon Melati will be developed in the future as an attractive urban residential area together with neighbourhood commercial functions, linked with improvements of infrastructure. The proposed structure plan is shown below.

PROJECT SITE SELECTED

Three alternative sites for feasibility studies were recommended, and Alternative -2was ultimately selected as "Project Site" by the Government.





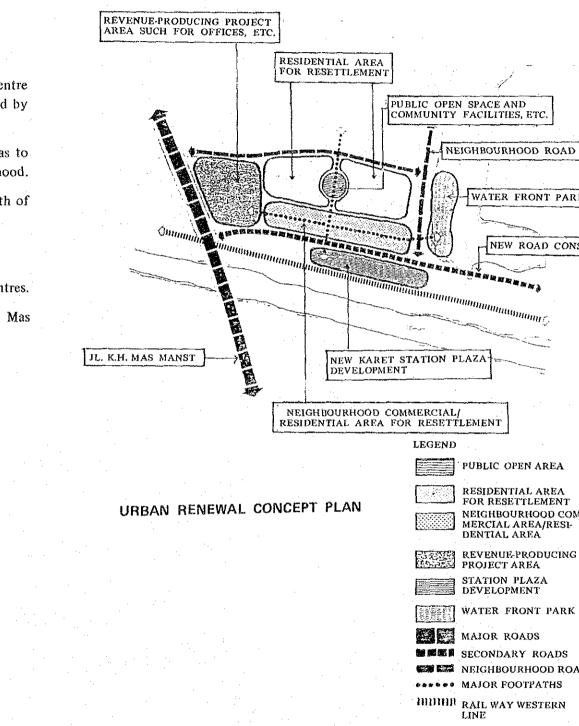
CONDITIONS OF ALTERNATIVES

1			
ALTERNATIVES	ALT 1	ALT 2	ALT. – 3
SITE AREA (Ha)	9.2	2.2	5.1
EXPECTED POPULATION	6,300	2,200	14,000
PROPOSED HOUSING FLOOR (M ²)	66,000	25,400	92,500
MAJOR IMPLEMEN- TATION ITEMS	Urban Renewai Housing (URH), Roads, Drainage & Sewerage (D&S); Water Front Park	URH, Roads, Station-Front Plaza, Neighbourhood Commercial District (NCD)	URH, Roads D&S, NCD

14

LEGEND					
	ALTERNATIVE-1				
	ALTERNATIVE-2 "PROJECT SITE"				
	ALTERNATIVE-3				

DESIGN CONCEPT & LAYOUT PLAN-KEBON MELATI 15



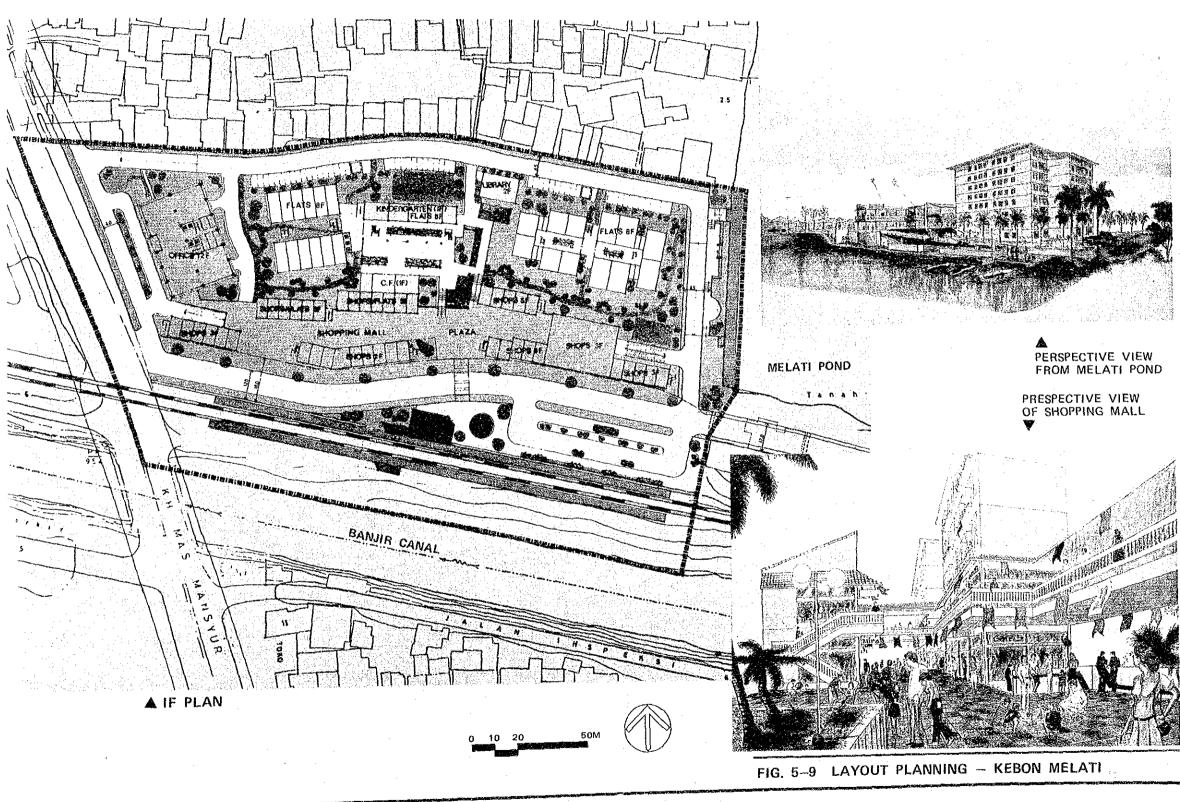
Supply of low-cost housing and adequate community facilities

- Together with low-cost housing, a public open space is designed in the centre of the project site, taking into consideration the existing roads improved by KIP.
- Around the public open space, community facilities are allocated so as to serve for the inhabitants living in the site as well as in the neighbourhood.
- The public open space is also planned so that the inhabitants living north of the site can be easily accessible to the station.
- Development of commercial and business facilities
- 2-storey shopping malls are designed as neighbourhood shopping centres.
- A 12-storey office building is designed in the lot adjacent to Jl. H.H. Mas Mansyur (Main road).
- Development of a station-front plaza at the proposed Karet railway station
- New connection road between JI, K.H.Mas Mansyur and JI. Jend. Sudirman
- Improvement of the water front of the Meltari Pond
 - Water-front park is designed to provide the amenity for the inhabitants.

NEIGHBOURHOOD ROAD WATER FRONT PARK NEW ROAD CONSTRUCTION *********

RESIDENTIAL AREA FOR RESETTLEMENT NEIGHBOURHOOD COM-MERCIAL AREA/RESI-DENTIAL AREA

NEIGHBOURHOOD ROADS



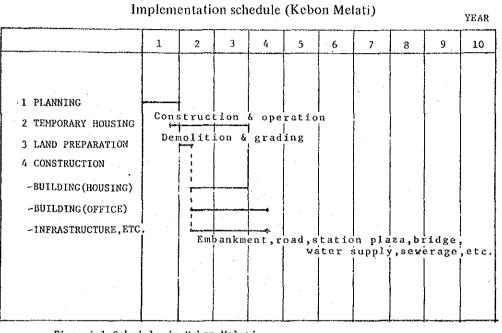
1

KEBON MELATI

PROJECT DATA, IMPLEMENTATION SCHEDULE & FINANCIAL PLAN-KEBON MELATI 16

<u>I har ya 1997 ya</u> ku Martin ku Martin Yangi ya ku ya Y						Pi	ese	nt		T	P	зл	Remarks
General	ĺĺ		Major .	roa	đ	1,700) m	<u>،</u> ۱	4.4%	7	,100 m ³	18.7%	
Condition of plan	and Area	ÿ	Neighbourhood Road		rhood	2,080)		5.4%	T	100	10.6%	
		Public Use	Station plaza	s fi	ont	: ()		0%	2	,000	5.2%	
	put	Put	Park			. ()		0%	1,	,700	4.4%	
			Others			8,650)	2	2.4%		,000	20.7%	
			Sub-to	tal		12,47)	3	2.3%	22	900	59.3%	
		Bui	ilding l	ot a	srea	26,130	•	6	7.7%	15	,700	40.7%	
		Pro	ject are	a		38,600)	10	0%		,600	100%	: 1
		ilo	use			17,930	}			23	.880		private floo 18,830
		She	op			600).			3	310		2,300
	Area	0ľ	fice .			. ()			14	,350		10,720
	5	Ho)				0		Q
	1.5		rkshop			1.200)				0.1		0
			park)			4	800		4,800
			die bui	ldi	ngs	400					900		900
		To			···· }	20,130				47	238		37,550.
-	Number area					77%			270%				
	h	Coverage satio			70%		-	42%					
	<u> </u>		tion	housing unit		1.850		1	368		ļ		
······································	rot	TTT	ution				<u> </u>	·	<u>منام</u>	<u>i</u>	1,85	<u> </u>	
Type of housing	Type Private Numb Floor area of uni		Numbe a of units										
	F21		21.0	m	2 56	F54	1	53.8 1	n² ·	96	}		
	F25	5	28.0		56	F70		76.5		48			
	F3(5	39.2	1	28	F100	10	5		48			
Community facilities	Kin	der	garten		1	Morse	ve.		1				
(number)	Mee	etin	g hall	_	1	Libra	Y		1	:			
Financial plan			Rev	 enเ	je -		E	cpend	iture		1	tern of Su	ibsidy
	Sut	osid		T	2,097	Plann				065	Flanni	ng	724
* (Rp.1,000,000)		-	ment	Ť	3,420	Land Prepa		on .		235	Land Prepar	ation	504
(40.1,000,000)	Sales R				14,953	Comp	éns	ation	. .	744	Constr	uction	752
				1-		Const	ruci	ion	14.	639	Over h	ead, etc.	99
						Maint	ena	nce		172 .	Item o	f Defrayr	nent
						Overh	ead	etc.		952	Land (Jost	2,086
				Í		Conti	ngei	ncy .	1,	464	Constr	uction	870
						Intere	št		1,	162		nsation	301
	Tot	al		1	20,452	Total			20	452	August 100 - 2017	ad, etc.	163
Unit Roor cost					use (2) 10,F100)	House (F368)	(3)	Sho	p (1)	Con facil	nnunity ity	Office	Shop (2)
Rp. 1000/m ²		112	.3	. 1	147.4	135.	7	21	5.3	2	15.3	1,123.9	1,636.5
Right-conversion	Flo for hol	rig		19	.501 m ¹	Conve rate (land		÷	. 1.0)	Conver rate (land a	·	1.3

Project Summary (Kebon Melati)



Financial Schedule in Kebon Melati

Financial Schedule in Kebon Melati

	Year		CONSTR	UCTION				
	Items	1	2	3	4	5-23		
	Équity	0	0	0	0	0		
	Share Defrayment	1,140	0	Ð	2,281	0		
of Fund	Subsidy	1,175	456	462	0	0		
c of 1	Revenue from Rental Floor	0	.0	0	330	40,907		
Source	Foreign Loan	951	2,549	3,400	818	0		
•1	Domestic Loan	0	3,119	6,065	90	. 0		
1	Total	3,265	6,124	9,927	3,519	40,907		
	Implementation Cost	2,259	6,534	8,480	2,020	0		
_	Interest of Foreign Loan *1)	48	175	345	386	4,414		
Func	Interest of Domestic Loan *3)	.0	. 374	1,102	1,113	14,132		
Use of Fund	Repayment of Foreign Loan	0	0	0	0	7,718	-	
2	Repayment of Domestic Loan	0	· · 0	. 0	0	9,274		
	Total	2,307	7,083	9,927	3,519	35,538		

Final Cash Balance = 63,743 - 58,374= 5,369 = $0.97 \times (3,421 + 2,093)$

	Unit: Rp.	1,000,000
		Total
		0
		3,421
		2,093
		41,237
		7,718
		9,274
		63,743
		19,293
	·	5,368
 		16,721
 -		7,718
		9,274
		58,374

^{•1) ; 5%} •1) ; 5% •1) : 12%

FINANCIAL SENSITIVITY ANALYSIS-KEBON MELATI 17

A sensitivity analysis was made to the financial schedule which will be greatly affected by fluctuations of the foreign portion and interest rates of domestic loan. The analysis was made to the cases as shown below.

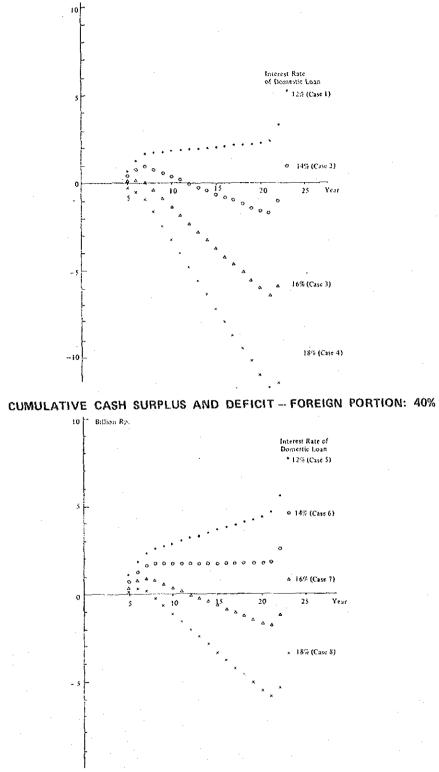
Interest rate of domestic Foreign portion loan	12%	14%	16%	18%
40%	Case 1 (Basic Case)	Case 2	Case 3	Case 4
50%	Case 5	Case 6	Case 7	Case 8

The following table shows the amount of the foreign portion respective to the forign cost component involved in the building construction being 40% and 50%.

	• · · · · · · · · · · · · · · · · · · ·	(Million Rp.)
Foreign Portion	40%	50%
lst year	951	951
2nd year	2,549	3,255
3rd year	3,400	4,340
4th year	818	982
Total	7,718	9,528
		· · · · · · · · · · · · · · · · · · ·

The amount of cumulative cash surplus or deficit is shown each for the cases of 40% and 50%. In the case of 40%, cash flow becomes deficit at the interest rate of 16% per annum, in the 5th year after completion of the construction. Whereas, in the case of 50%, cash flow becomes deficit at the interest rate of 18% per annum, in the 6th year after completion of the construction.

In order to assure the sound financial status of the project, it is very much essential that the implementation body makes efforts to arrange as low-interest loan as possible and to raise an occupancy rate of the residual floor.



CUMULATIVE CASH SURPLUS AND DEFICIT - FOREIGN PORTION: 50%

