

Annex 1:

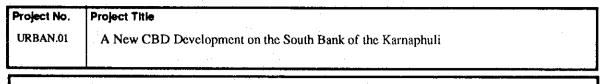
PROPOSED PROJECT PROFILE

I.

	(CHITTA)		DEVELOPMENT	PLAN)	(1/2)	
Project No.:	Project Title:				Sector:	
URBAN.01	A New CBD Dev	elopment on the So	th Bank of the	Karnaphuli	Urban Development	
Project Locat	lon:	Project Priority:	Duration:		ype of Project:	
South Bar	nk of Karnaphuli	Short-term	1996-2010		Hardware" Type Sollware" Type	
Objectives and Description of Project: • To support and cater for Cittagong Special Economic zone and future industrial development activities on the South Bank of the River and aims to be a "self-contained "sub-centre"			Beneficiaries:			
			Every busines Citizens on the	s on the South Ba e South Bank of t	ank of the Karunaphuli the Karnaphuli	
• To supplement the existing Central Business District in Chittagong City			Expected Ben	•	es on the south bank	
			• Establ.ishment	of Support servi	ces to business and citizen	
Major Comp	onests:		Specific Issue	es Related:		
 Commercial facilities development project, including major producers services like banking service, law, management, insurance, and realters, and other business support services. Infrastructure development project (gas, water, power, roads, telecommunication) 		 New development body must be set up for this purpose by the national governemnt. Needed is an integrated plan of redevelopment of the existing CBD project (Urban. 02) considering the complementalities in roles and functions of the two CBDs. 				
_	elopment project it of Liason offices of nec	essary governmental	Chittagong Special Economic Zone Development project			
• Other amenit	y facility like parks proje	Cts -				
				· · ·		
	eject Cost (in 1995 pric	ces): Mil.Tk		Financial Ass	Istance	
Annual Recurren	iementation Cost nt Expenditure for	Mit Tk	Technical Asst. Financial Asst.	⊠ Required □ Grant	Not required	
Ministry in Ci	haroe :		Development I	Dedu .	· · · · · · · · · · · · · · · · · · ·	
			New Developr	•	· · · ·	
Section:			Operation Body:			
Relevant Age	ncies to be Coordinat	led:	Private Sector Related buisn			

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Verifiable indicators / Information / Drawings URBAN DEVELOPMENT CONCEPTS AND SEZ DEVELOMENT Ctg Univ. Maduraghat breaking Kalurghal Kadurkhil Nasirabad-Sholashar Fourd Redevelopment of the Existing CBD Sikalbaha Panchari New CDB Development Patiya ĆEI Chầ S 7 ndustrial Area Anowara Legend Urban developmeni Existing Industrial Area Selected New industrial Area Proposed Special Economic Zone (tentative)

Necessary Inputs/Arrangement

National Government Involvement X

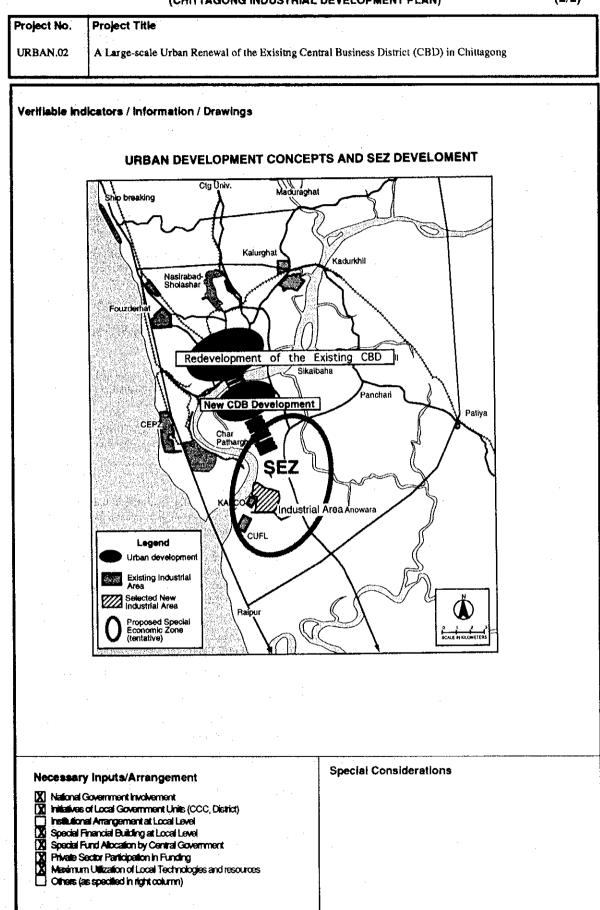
- Initiatives of Local Government Units (CCC, District) Y
- Institutional Arrangement at Local Level
- X Special Financial Building at Local Level
- Special Fund Allocation by Central Government
- Private Sector Participation in Funding
- **KKK** Maximum Ulization of Local Technologies and resources
- Others (as specified in right column)

Special Considerations

To develop the new CBD, a development body or local governemnt must be newly set up or designated. And the organisation will take initiatives, make a development plan, and implement the development project. The area for the new CBD development must be delineated and designated by the national government, the local government or whatever has the authority.

Project No.: Project Title: Sector: A Large-scale Urban Renewal of the Existing Central Business District (CBD) in URBAN.02 Urban Development Chittagong Project Location: Type of Project: **Project Priority:** Duration: Chittagong City Central Business Shortterm W "Hardware" Type 1996-2010 District (Mainly Chaktai/Sadarghat Medium-term Sofware Type and Agrabad Areas) 🗆 Long-term Beneficiaries: **Objectives and Description of Project:** · City dwellers This project is to redevelop, improve, and revitalise All visitors the existing central business district (CBD) mainly Related governmental agencies comprising prestigious coornercial areas of Private businesses Chaktai/Sadarghat and Agrabad, so that the CBD should turn to the urban apace of amenity, efficient **Expected Benefits:** business environment as a gateway fo "BIPP." · Amenity in the city · Better living nd working environment Efficient business performance More business chances · More visitors attractions Major Componests: Specific issues Related: · Mixed development including high-rise office buildings, • The project lies across various sectors and requires commercial centre, jhotels, housing, parks, etc. well-coordinated efforts among the related agencies and bodies both public and private. The following projects are closely related to the above and need to be ctaken into account: · Land-owners' consent, including Nationa Railway, is prerequisite. · Slum/squatter improvement programs Improvement of city roads and traffic congestion · It should be taken into consideration that the new · Improvement of utilities supply development of Chittagong Special Economic Zone, Telecommunication upgrading and Industrial Estate and EPZ in it, as well as the new · Chaktai and Sadarghat Coomercial area redevelopment CBD construction on the South Bank of the project Karnaphuli. Agrabad Commercial Area Development consideraing CCCI's "World Trade Centre development project " and • The twin-City-Centres must be complent to each "Exhibition Center project." other, and becaome integrated in the long-run. · CCC's New City Hall and a 5-star hotel development projects . This redevelopment project must be based on the Market place improvement urban development plan in the CDA's structure plan. Estimated Project Cost (in 1995 prices): **Technical and Financial Assistance** _ MiLTk Total Project implementation Cost Not required Technical Asst. X Required Annual Recurrent Expenditure for Grant K Loan Mil Tk Financial Asst. O&Mt Ministry in Charge : **Development Body:** CCC, CDA and Various agencies CCC, CDA and Various agencies Section: **Operation Body:** Various agencies **Relevant Agencies to be Coordinated:** Private Sector Participation: Chittagong Chamber of Commerce and Industries (CCCI) Various agencies and other private businesses

Note: 1 US\$=40.0 Taka Source: JICA Study Team (1/2)



	(CHITTAG	IONG INDUST HIAI	DEVELOPMENT PLAN)	(1/2)		
Project No.: IND 01	Project Title: CLUSTER DEVELO (SCIs)	PMENT OF SMALL	AND COTTAGE INDUSTRIES	Sector: Industrial Sector		
Project Location:		Project Priority:	Duration:	Type of Project:		
Chittagong Dis	trict	X Short-term X Medium-term Long-term	around the year 1996-2010	X "Hardware" Type X "Software" Type		
 Objectives and Description of Project: The existing industries in Chittagong District comprise mostly SCIs, which have many internal problems and are more sensitive to external constraints. This project aims at the formation of a production centre with specific products and high productivity by structu- ing integrated division of workes in a cluster through SCI's specialisation. Major Components: Establish cooperatives as a receiver of public support measures Carry on bulk buying of raw materials, marketing, selling, capital raising, technology development, manpower training, relevant office/documentation works etc. Accommodate common service facilities such as some of storing/production process, pollution control, employee welfare-related etc. Develop the Expert System specific to a specified cluster for skills development and bringing up successors 			 Support measures for industries in Bangladesh has attached too much importance to the public sector, the manufacturing public corporations (MPCs). 			
Relevant Agend Ministry of Inc	cles to be Coordinat lustry	ed:	Private Sector Participation This programme is to assist the			

Project No.:	Project Title:	
-	CLUSTER DEVELOPMENT OF	SMALL AND COTTAGE INDUSTRIES (SCIs)
IND 01		,
· · · · · · · · · · · · · · · · · · ·		
Verifiable Inc	licators / Information / Drawings	
		stries Corporation (BSCIC) is organised and comprehensively for development of
	SCIs as shown below.	and comprehensivery for development of
1) Sourcing	and Marketing	
 Recommer 	dation of import entitlement for importation	n of raw materials
 Marketing 	assistance of products	
	vey and market feasibility studies	
•	of feasibility studies and project profile	
-	tial, growth potential and subsectoral studie	
	of sub-contracting linkage among small, m	edium and large industries
-	ent of fair and exhibition for SCI products	
	Information etc.	
	and arrangement of credit	
	n and monitoring of credit utilization nformation system service	
	er and Start-up	
-	training and skill development	
	nd identification of entrepreneurs	
-	gy upgrading	
	process development and extension service	
Developm	ent and distribution of new and innovative of	esigns and prototypes
Adoption a	and transfer of new technology	
	ntrol and improvement	
	y promotion and development	
	ation, Investment Promotion and Location	
	n of Investment Schedules	
-	ost- investment counselling	
	ndation for duty exemption and tax holiday	
•	ent of Industrial Estate	
	tion of sick industries	aing modernisation contacoment and association
	or establishment of new industries and data	cing, modernisation, replacement and expansion
	on, Procedures etc.	
	on of enterprises	· · · · · · · · · · · · · · · · · · ·
-	ndation for preparing regulated list of indus	ries.
Necessarv	nputs/Arrangement	Special Considerations
	······································	
	overnment involvement	1. Combined development with tourism
	f Local Government Units (CCC, District) Arrangement at Local Level	2. Mobilisation of NGOs active in Bangladesh for
🔄 🔲 Special Fin	ancial Building at Local Level	the successful development of SCI cluster
X Special Fue	nd Allocation by National Government	
	tor Participation in Funding Itilisation of Local Technologies and Resources	
	specified in right column)	
		· · · · · · · · · · · · · · · · · · ·

	AL DEVELOPMENT PLAN) (1/2)
Project No.: Project Title: IND 02 SPECIAL MODERNISATION PROGRAM	MME FOR SPECIFIC INDUSTRIES Industrial Sector
Project Location: Project Priority:	Duration: Type of Project:
Chittagong SEZ and other areas Short-term X Medium-term Long]term	around the year 2001-2010 [X] "Hardware" Type [X] "Software" Type
Objectives and Description of Project:	Beneficiarles:
 Obsolete production facilities and lack of economies of scale in production are the sreious internal problems faced by many industries in Chittagong. 	• Existing industries such as edible salt refinery and other industries with a strong need for modernisation and relocation
 This programme aims to mobilise strong support measures for industries for which both, modernisation of production facilities and relocation of factory are imperative to survive. 	Expected Benefits: 1. Increase in productivity through ensuring economies of scale in production
	2. Rational land use of urbanised area wherein the bene- ficiaries located before
Major Components:	Specific Issues Related:
 Identify and organise the beneficiaries with a strong need for modernisation and relocation Establish cooperatives of the beneficiaries assigned to build up the modernisation plan Develop the relocation sites within CSEZ and other areas Establish an incentive package containing public loan at low interest rate, compensation for scraped facilities in place of large scale production, reduction in taxes on income to be generated from site conversion for reloca- tion 	 Support measures for industries in Bangladesh has attached too much importance to the public sector, the manufacturing public corporations (MPCs). This tendency is not yet significantly changed in the 1994-96 Three Year Rolling Investment Programme wherein investments to MPCs accounts for about 80% of the total budget. The World Bank reported that 78.5% of industrial investments in Bangladesh (1990-91) was originated from the private sector. Such inequity between the national budget allocation and industrial investments deeply discourages private enterprises, and therefore the emphasis is to be placed on their development/modernisation.
Estimated Project Cost (in 1995 prices)	Technical and Financial Assistance:
Total Project Implementation Cost Mil. Tk Annual Recurrent Expenditure for Mil. Tk O & M	
Ministry in Charge: Board of Investment (BOI) Bangladesh Small and Cottage Industires Corporation (BSCIC) Section:	Development Body: Chittagong Development Company (CDC) Operation Body:
Relevant Agencies to be Coordinated:	Private Sector Participation:
Chittagong Development Authority (CDA) Chittagong City Corporation (CCC)	This programme is to assist the private sector's self-reliance.

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Project No.:	Project Title:				
IND 02	SPECIAL MODERNISATION	PROGRAMME	FOR SPECIFIC	INDUSTRIES	
Verifiable Ind	cators / Information / Drawings	· · · · · · · · · · · · · · · · · · ·			
Мо	dernisation of production process has strate	egic importance	for the surviv	al of the	
exi	sting enterprises in Chittagong District. A	questionnaire su	rvey conducte	d by the	
	dy Team reveals that a 76.5% of the respond y be closely related to the fact that obsolete				
	ical internal problems in the existing industri	-			
Basic S	trategies for Business Managemen (excluding EPZ enterprises, mult				
	Increase in production amount/sales		///////////////////////////////////////		6
Ргос	duction of high-value added products	32.4		Ba	asic
	******	****			
	Modernization of production process	······································	*****	202 76.5	
Recycle and co	Substitution of raw materials	13.8		Product	ion
Cost de	own by bulk-buying of raw materials		42.5	Control de	
	Cost down of energy cost		5.8	Cost de	own
Cos	t down of transportation/storage cost	<u> </u>	ł		
· ·	Manpower development		51.8	Oth	ners
T Ta	Cutting of unprofitable sector	34	39.7 °	01	
	Restructuring of management system	18.6	.0		
	Other 1.2				
	No answer 5.	7		k	
Sou	rce: Survey by the Study Team (SST) 0	20 40	60	80	1009
· .					
Necessary Ir	iputs/Arrangement	Special Consi	derations		
	vernment Involvement				
X Institutional	Local Government Units (CCC, District) Arrangement at Local Level				
Special Fun	ancial Building at Local Level d Allocation by National Government				
🕱 Maximum U	tor Participation in Funding tilisation of Local Technologies and Resources				
Others (as s	specified in right column)	· ·			
		2000 - C. 1990 -			e de la

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Project No.: IND 03	Project Title:	CSEZ MANPOWER TECHNOLOGY EXTE (CMTTH	NSION CENTRE	Sector: Industrial Sector		
Project Location:		Project Priority:	Duration: T	ype of Project:		
Chittagong SI	Z	Short-term Medium-term Long-term		X "Hardware" Type X "Software" Type		
site area of 750ha comprising 90,70	vith three sites and will have around 0 for EPZ and 36	oject: d their totaled factory 127,200 workers 500 for GIE in 2010. npower training and	Beneficiaries: Locators at CSEZ and manufac Chittagong District	turing enterprises in		
technology exten-	sion centre as a lin EZ and for upgra	hk of investment ding or transfer of	Expected Benefits: 1. Promotion of investment in (starting-up of factory operation)			
			 Efficient technology upgradition to high productivity and sust industries 			
 Major Components: Provide assistance for the training of workers including potential or candidate workers whom the locators at the CSEZ, especially the EPZ will employ Provide indigenous industries including ones located or relocated at the GIE with consultancy and testing services for product and production technology together with dissemination of the information related to R & D The CMTTEC should be staffed with appropriate trainers and advisors, and equipped with appropriate testing facilities. 			 Specific Issues Related: 1. Apart from on the job training, manpower training is undertaken by organisations such as BSCIC, training centres and industrial associations like one for garments. However, it is pointed that public training is not need-oriented. 2. On the other hand, lack of R & D staffs is one of the most critical problems in Chittagong's industries partly reflecting weak support from the public sector. 3. Therefore, strong public support for manpower training and technology development is needed. 			
Total Project Imp Annual Recurrer O & M			Technical Asst. 🛛 Required	X Loan		
Ministry in Charg	je:	. ·	Development Body: Chittagong Development Company (CDC)			
Section:			Operation Body: Chittagong Development Com	pany (CDC)		
Relevant Agenci Board of Investmen Ministry of Industry Bangladesh Small a	t (BOI)	Inated: tires Corporation (BSCIC)	Private Sector Participation):		

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Project No.:

IND 03

CSEZ MANPOWER TRAINING & TECHNOLOGY EXTENSION CENTRE (CMTTEC)

Verifiable Indicators / Information / Drawings

Project Title:

The areas of manpower training undertaken by BITAC and TTC do not match partly to the need of industries to be located at EPZ within the CSEZ. In order to address this situation, one way is to establish need-oriented courses by the existing training organisations, the other to establish a new centre like CMTTEC assigned to training specific to expected new locators at the EPZ.

The CMITEC is an organisation integrating supports for manpower training and technology development while there is no such organisation in Chittagong District except for BSCIC responsible exclusively for development of small and cottage industries.

Overview of Main Existing Organisations for Manpower Training, R & D and Testing

BITAC/CTG: Bangladesh Industrial and Tecnical Assistance Centre, Chittagong

TTC/CTG: Technical Training Centre, Chittagong

BMDC/CTG: Bangladesh Management Development Centre, Chittagong

BCSIR/CTG: Bangladesh Council for Scientific and Industrial Research, Chittagong

BSTI/CTG: Bangladeh Standard and Testing Institute, Chittagong

	Manpower Training		R & D Testing		
	BITAC	TIC	BMDC	BCSIR	BSTI
	<u>ACTG</u>	<u>ACIG</u>	/CTG	/CTG	/CTG
1. Year Established	1972	1962	1980	1965	1966
2. Number of Staff: Total	172	91	14	182	9
Training staff	147	53	3	108	
3. Budget in 1994-95 (Taka)	22.6 Mil	3.2 Mil.	1.2 Mil.	15.2 Mil.	0.55 Mil.
4. Building Floor (m2)	3,974	7,577	508	9,814	19
			1		(Rented)
5. Facilities or Equipment	0	~			
Auditorium/Class room	· O	ğ	8		
Library		ğ		1	
Workshops	. 0	0000			
Others	1001	· ·	0		
6. Number of Trainees/Students	120/year	350/year			
7. Courses/Areas	(capacity)	(capacity)	-	1	
Training:	0	0		1	
Mechanical	Q Q	0			
Industrial spares	Q Q				
Fabrication of machines & system	<u> </u>				
Engineering	Ŭ Ŭ	~			
Electrical	0000000	0			
Electro-plating	Q				
Heat-treatment	Q Q				
Foundry	0	~			
Drafting		000		·	
Welding		Q			
Automechanics		Ö			
Industrial Sewing		. U		Į	
		der consideration) [
Others	0	Q			
Management			0		
			(10 courses)		
Consultancy	0				~
Inspection & supervision					0
Research for indigenous medical				0	
iolants Source: Interview Survey by the Study Te	l				

Necessary Inputs/Arrangement

National Government Involvement

 Initiatives of Local Government Units (CCC, District)
 Institutional Arrangement at Local Level
 Special Financial Building at Local Level
 Special Fund Allocation by National Government
 Private Sector Participation in Funding
 Maximum Utilisation of Local Technologies and Resources
 Others (as specified in right column)

Special Considerations

	(CHITTAGONG	INDUSTRIA	L DEVELOPMENT PLAN)	(1/2)	
Project No.: IND 04	Project Title: ESTABLISHMENT OF CI	HITTAGONG	MERCHANDISE MART (CMM)	Sector: Industrial Sector	
Project Location	roje	ct Priority:	Duration: Type	e of Project:	
Chittagong S	121 X M	hort-term edium-term ong-term		"Hardware" Type "Software" Type	
Objectives and I	Description of Project:	t.	Beneficiaries:		
trade centre (Th	e transshipment hub and process IPTC) in Bangladesh facilitatec phical location and port condition	i by	Not specified but small enterprises big ones since they will be able to p		
 Chittagong will be the THPTC in South Asia through the expansion of economic exchange or transaction with SAARC countries (India, Pakistan, Sri Lanka, Nepal, Bhutan and Maldives other than Bangladesh). 			Expected Benefits: 1. Activation and vitalisation of Ch through increase in borderless fl capital, information etc.		
	is to establish the CMM as the c of the THPTC in South Asia.	ore or	2. Channel and streamline of busin	ess activities	
Major Compone	ents:	•	Specific Issues Related:		
	feasibility study		 There is a lot of business chance informal business is prevailing. 	in Chittagong but	
 Establish the and private p 	development corporation with partnership	the public	 Informal business distorts normal flow of capital and discourages investment in manufacturing. 		
consisting of	opping (including wholesaling) [mart, showrooms, antenna sho e offices and other business sur	ps,	 In order to address this situation, informal business should be formalised through establishing "Free Trade" like Hongkong and Singapore under strong control. 		
environment convention/r	e CMM complex with good bus comprising five star hotels, exi necting facilities, amusement fa guard system.	hibition/			
	,			· ·	
Estimated Proj	ect Cost (in 1995 prices)		Technical and Financial Assis	tance:	
-	nplementation Cost	Mil. Tk	Technical Asst. Required [Not required	
Annual Recurre	ent Expenditure for	Mil. Tk	Financial Asst. 🗍 Grant [X) Loan	
Ministry in Cha	irge:		Development Body: CMM corporation		
Section:			Operation Body: CMM corporation		
Relevant Agen	cies to be Coordinated:	······	Private Sector Participation:		
Ministry of Co Ministry of Fi Export Promot	mmerce nance/Customs Department		The Chittagong Chamber of Comm take initiative and organise enterpri		
Note: 1 US\$=4		<u> </u>		e e steret e e steret e	

Project No.:	Project Title:
IND 04	ESTABLISHMENT OF CHITTAGONG MERCHANDISE MART (CMM)

Verifiable Indicators / Information / Drawings

Chittagong is designated to be "Commercial Capital" in Bangladesh and the World Trade Centre (WTC) will be constructed both in Dhaka and Chittagong.

Construction cost of Chittagong's WTC will be shared by local enterprises. On the other hand this CMM is positioned as one of the core facilities in CSEZ and the scale is larger than the WTC.

Merchandise mart functions will give larger merit to small enterprises as well known by the examples in foreign countries. Manufacturing enterprises in Bangladesh are heavily dependent on wholesalers in procuring their raw materials and marketing. However, merchandise mart as well as strengthening capability of wholesalers is needed strongly to establish the export-oriented industrial clusters.

Necessary Inputs/Arrangement

National Government Involvement
 Initiatives of Local Government Units (CCC, District)
 Institutional Arrangement at Local Level
 Special Financial Building at Local Level
 Special Fund Allocation by National Government
 Private Sector Participation in Funding
 Maximum Utilisation of Local Technologies and Resources
 Others (as specified in right column)

Special Considerations

Cordination between already planned Chittagong WTC and the CMM

	L DEVELOPMENT PLAN) (1/2)
Project No.: Project Title: CSEZ MANPOWER IND 05 TECHNOLOGY EXTI (CMTT	ENSION CENTRE Industrial Sector
Project Location: Project Priority:	Duration: Type of Project:
Chittagong SEZ Short-term Medium-term Long-term	around the year 2001-2010 X "Hardware" Type X "Software" Type
Objectives and Description of Project:	Beneficiaries:
• Chittagong SEZ with three sites and their totaled factory site area of 750ha will have around 127,200 workers comprising 90,700 for EPZ and 36,500 for GIE in 2010.	Locators at CSEZ and manufacturing enterprises in Chittagong District
• This project aims to establish a manpower training and technology extension centre as a link of investment promotion for CSEZ and for upgrading or transfer of technology in Chittagong District.	Expected Benefits: 1. Promotion of investment in CSEZ and smooth starting-up of factory operation
Major Components:	 Efficient technology upgrading and trasfer conducive to high productivity and sustainable growth of industries
	Specific Issues Related:
 Provide assistance for the training of workers including potential or candidate workers whom the locators at the CSEZ, especially the EPZ will employ Provide indigenous industries including ones located or relocated at the GIE with consultancy and testing services for product and production technology together with dissemination of the information related to R & D The CMTTEC should be staffed with appropriate trainers and advisors, and equipped with appropriate testing facilities. 	 Apart from on the job training, manpower training is undertaken by organisations such as BSCIC, training centres and industrial associations like one for gar- ments. However, it is pointed that public training is not need-oriented. On the other hand, lack of R & D staffs is one of the most critical problems in Chittagong's industries partly reflecting weak support from the public sector. Therefore, strong public support for manpower train- ing and technology development is needed.
Estimated Project Cost (In 1995 prices) Total Project Implementation Cost Mil. Tk	Technical and Financial Assistance:
Annual Recurrent Expenditure for Mil. Tk O & M	Technical Asst. 🛛 Required 🗍 Not required
Ministry in Charge:	Development Body: Chittagong Development Company (CDC)
Section:	Operation Body: Chittagong Development Company (CDC)
Relevant Agencies to be Coordinated: Board of Investment (BOI) Ministry of Industry Bangladesh Small and Cottage Industires Corporation (BSCIC)	Private Sector Participation:

Project No.:	Project Title:
IND 05	CSEZ MANPOWER TRAINING & TECHNOLOGY EXTENSION CENTRE (CMTTEC)

Verifiable Indicators / Information / Drawings

The areas of manpower training undertaken by BITAC and TTC do not match partly to the need of industries to be located at EPZ within the CSEZ. In order to address this situation, one way is to establish need-oriented courses by the existing training organisations, the other to establish a new centre like CMTTEC assigned to training specific to expected new locators at the EPZ.

The CMTTEC is an organisation integrating supports for manpower training and technology development while there is no such organisation in Chittagong District except for BSCIC responsible exclusively for development of small and cottage industries.

Overview of Main Existing Organisations for Manpower Training, R & D and Testing

BITAC/CTG: Bangladesh Industrial and Tecnical Assistance Centre, Chittagong

TTC/CTG: Technical Training Centre, Chittagong

BMDC/CTG: Bangladesh Management Development Centre, Chittagong

BCSIR/CTG: Bangladesh Council for Scientific and Industrial Research, Chittagong

BSTI/CTG: Bangladeh Standard and Testing Institute, Chittagong

2	Manpower Training			R & D Testing		
	BITAC	TTC	BMDC	BCSIR	BSTI	
	/CIG	/CIG	/CTG	<u> </u>	<u>/CTG</u>	
1. Year Established	1972	1962	1980	1965	1966	
Number of Staff: Total	172	91	14	182		
Training staff	147	53	3	108		
3. Budget in 1994-95 (Taka)	22.6 Mil	3.2 Mil.	1.2 Mil.	15.2 Mil.	0.55 Mil.	
4. Building Floor (m2)	3,974	7,577	508	9,814	19	
				· 1	(Rented)	
5. Facilities or Equipment				1	. ,	
Auditorium/Class room	0	0	0			
Library	-	Õ	0			
Workshops	O	ŏ	- T			
Others		0000	0			
6. Number of Trainces/Students	120/year	350/year	Ŭ I			
7. Courses/Areas	(capacity)	(capacity)				
Training:	Cobacity	(capacity)		1		
Mechanical	0	0				
Industrial spares	ΙĂ	U U				
	0000000					
Fabrication of machines & system	X					
Engineering		0				
Electrical	N N	0				
Electro-plating	N N					
Heat-treatment	N N			1		
Foundry	0	~				
Drafting		000				
Welding		Ŏ				
Automechanics		Q				
Industrial Sewing				ŀ		
		der consideration	1)			
Others	0	0	0			
Management			0			
			(10 courses)			
Consultancy	0			1	-	
Inspection & supervision					0	
Research for indigenous medical	Į			0		
olants	l				•	
Source: Interview Survey by the Study Te	eam					
		Specia	al Considerat	ions		
cessary Inputs/Arrangement		Specia	al Considerat	ions		
cessary Inputs/Arrangement		Specia	al Considerat	ions		
cessary Inputs/Arrangement	CCC District	Specia	al Considerat	ions		
cessary Inputs/Arrangement National Government Involvement Initiatives of Local Government Units (CCC, District)	Specia	al Considerat	ions		
cessary Inputs/Arrangement National Government Involvement Initiatives of Local Government Units (Institutional Arrangement at Local Leve	el la	Specia	al Considerat	ions		
cessary Inputs/Arrangement National Government Involvement Initiatives of Local Government Units (Institutional Arrangement at Local Leve Special Financial Building at Local Lev	el el	Specia	al Considerat	ions		
cessary Inputs/Arrangement National Government Involvement Initiatives of Local Government Units (Institutional Arrangement at Local Leve Special Financial Building at Local Leve Special Fund Allocation by National Go	el el overnment	Specia	al Considerat	ions		
cessary Inputs/Arrangement National Government Involvement Initiatives of Local Government Units (Institutional Arrangement at Local Leve Special Financial Building at Local Lev	el el overnment	Specia	al Considerat	lons		
cessary Inputs/Arrangement National Government Involvement Initiatives of Local Government Units (Institutional Arrangement at Local Leve Special Financial Building at Local Leve Special Fund Allocation by National Go	el overnment		al Considerat	ions	·	

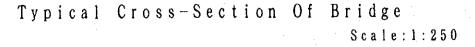
PROPOSED PROJECT PROFILE

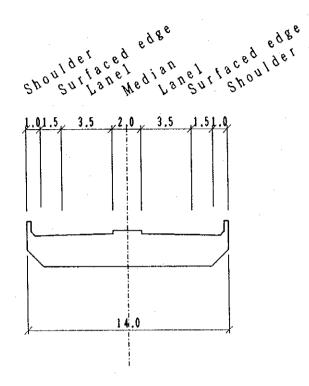
(CHITTAGONG INDUSTRIAL DEVELOPMENT PLAN)

(1/2)

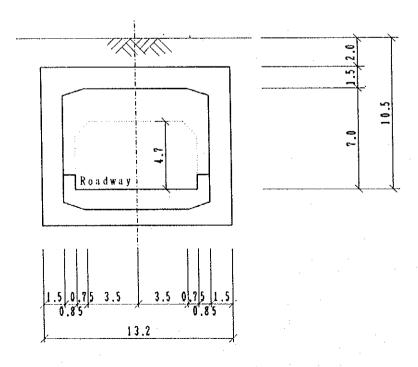
Project No.:	Project Title:				Sector:	
TRANS.01	CONSTRUCTION C	OF NEW CROSSIN	G OVER THE KAR	G OVER THE KARNAPHULI Transpo		
Project Locati	on:	Project Priority:	Duration:	Туј	pe of Project:	
Chittagong Me	etropolitan area, SEZ	XX Short-term XX Medium-term XX Long-term	1996-2020		"Hardware" Type "Software" Type	
Objectives an	nd Description of Proje	ct:	Beneficiaries:			
 To facilitate : Economic Ze 	access to the proposed Chit one (CSEZ)	ttagong Special	 Road users Local area with SI 	Z potential		
	ure urban and industrial de the Karnaphuli	evelopments on	Expected Benefits:	······································		
	to develop sound moderni etropolitan area	ization of the	 shortening travel tir mitigating traffic co increasing investment 	ne ongestion		
	he traffic to be generated f clopments on the South ba		 developing business 			
Major Comp	onents:		Specific Issues Re	elated:		
River 2. The projects first. <main if<br="" study="">1) determinati Road Netw 2) structural (3) geometric of 4) approach a 5) construction 6) Cost Benef</main>	ion of crossing location wit ork ype (Bridge and immersed configuration	ve feasibility study at th consideration of tunnel system) st efit)	 road right-of-way sl 2. Making bridge at de difficult. 1) making high bridge large marine ver monsoon tide is 2) very high bridge Patenga air por communication station 3. Upstream location i 	hould be prepa winstream or dge to allow s ssels to sail ur extremely ex e is a hazard to t and a hindra t between airc s inadequate f southern Ban	port area in extremely ufficient clearance for klerneath during high pensive o aircraft approaching	
Estimated Pro	ject Cost (in 1995 price	es):	Technical and Fina	ancial Assis	tance	
Total Project I	mplementation Cost $\frac{Br}{Tn}$	1.=.2.6 km 11,400 Mil. TK 1.= 1.8 km 13,000	Technical Asst.	Required	Not required	
Annual Recur O & M:	rent Expenditure for	Mil, Tk note; at location NO.2] Grant	🗴 Loan	
Ministry in C	-		Development Body : Roads and Highways Department			
Ministry of Co Division	mmunications, Roads and	Road Transportation				
Section: Roads and Hig	thways Department		Operation Body: Roads and Highways Department			
Relevant Age	ncies to be Coordinate	ed:	Private Sector Parl	icipation:		
UNDP, Chittagong	Development Authority, Port Authority Water Development Boar	d				

Project No. **Project Title** CONSTRUCTION OF NEW CROSSING OVER THE KARNAPHULI TRANS.01 Verifiable Indicators / Information / Drawings 3 BIERHAR POWER Pullicie 3 LUXIO 7145 (3)MODACRI labhya (2)340ACRES ESPORT PROCES ZONE Juidha (4) (4) 1000ÅCRE stle VENDAR ANTEN (5) Candidate location of New crossing over the Karnaphuli (l)~(j) **Special Considerations Necessary Inputs/Arrangement** $1_{\rm c}$ Area 50 yards from the river bank are belonging to National Government Involvement Initiatives of Local Government Units (CCC, District) the chittagong Port Authority. Institutional Arrangement at Local Level Special Financial Building at Local Level 2. Pieces of the immersed tunnel are prefabricated like m Special Fund Allocation by Central Government large concrete pipes. Private Sector Participation in Funding Maximum Utilization of Local Technologies and resources Others (as specified in right column)

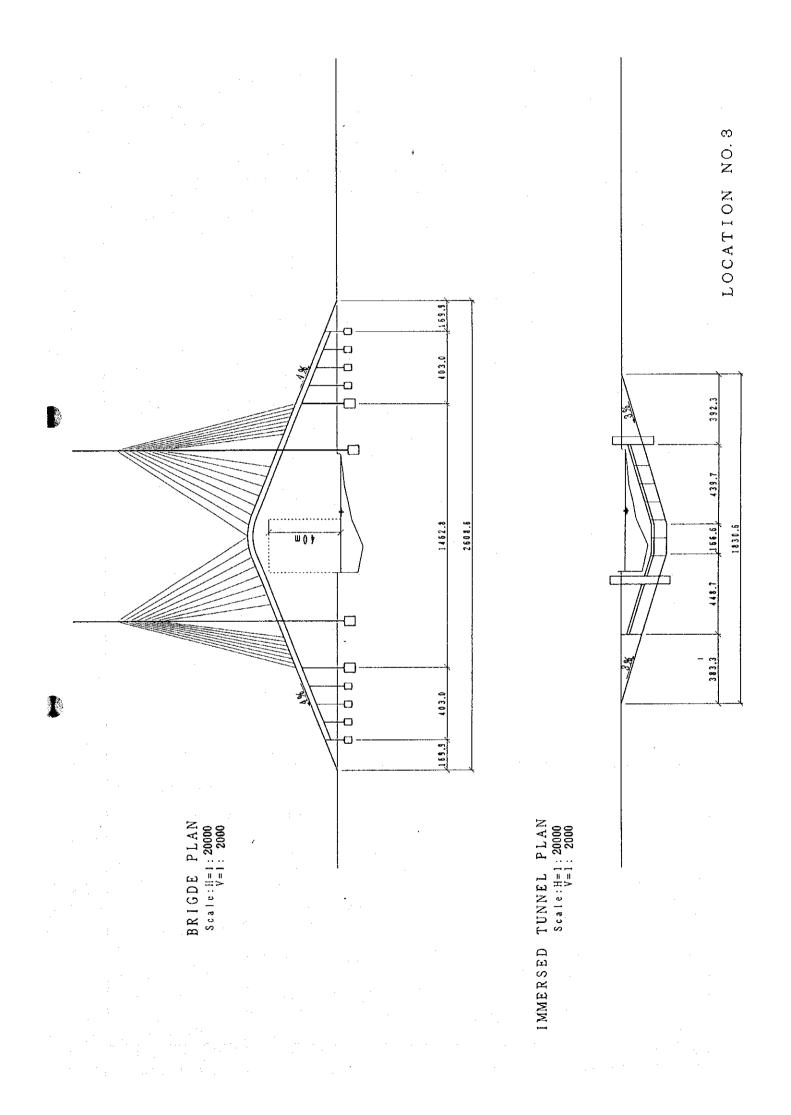




Typical Cross-Section Of Tunnel Scale:1:250



LOCATION NO. 3

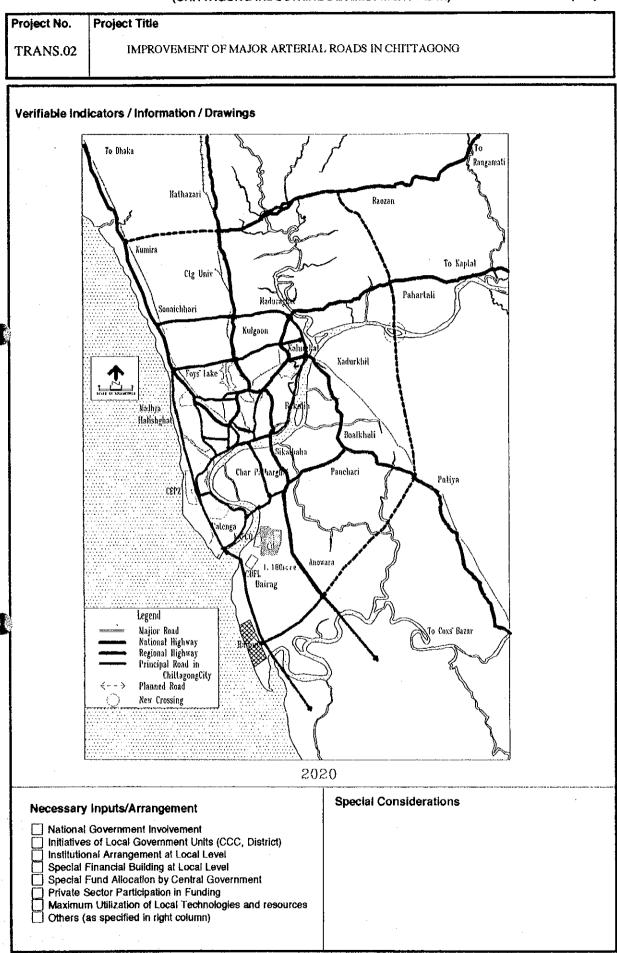


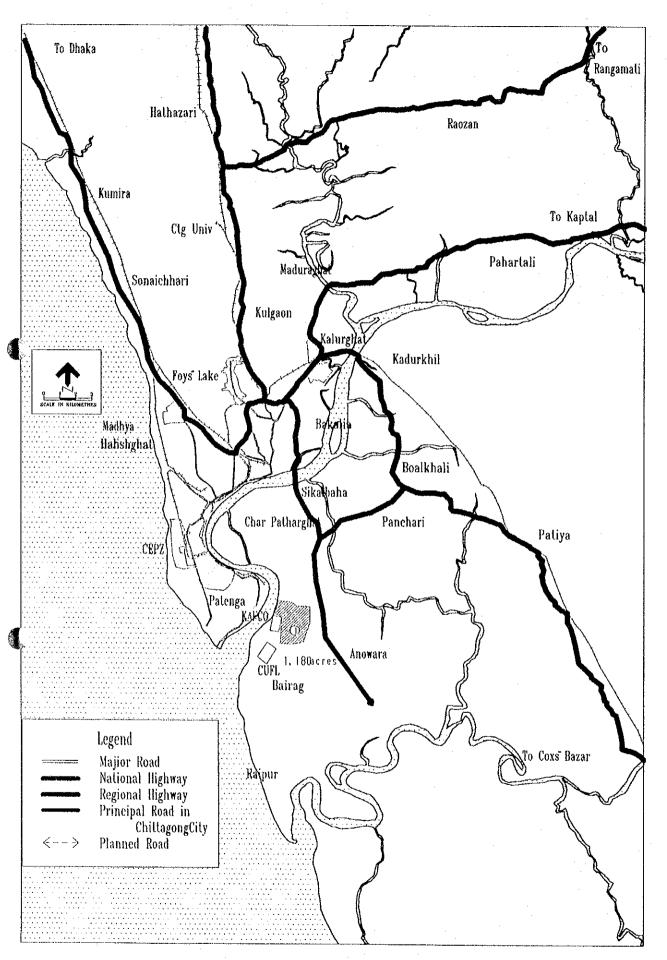
(1/2)

Project No.:	Project Title:			Sector:
TRANS.02	IMPROVEMENT OF N	AJOR ARTERIAL R	DADS IN CHITTAGONG	Transportation
Project Locati	on:	Project Priority:	Duration:	Type of Project:
Whole Chitt	agong district	Short-term Medium-term Long-term	1996-2020	"Hardware" Type "Software" Type
Objectives a	nd Description of Proje	ct:	Beneficiaries:	,
activities) in C functionality of roads (inner, i - To cope with - To promote traffic - To climinate	bund city activities (especial Chittagong, it's necessary to of road transportation netwo middle, outer) and Highway h increasing traffic demand divided introduction of inco transit traffic "bottle-necks" to traffic	improve the orks such as ring /s	 Road users Greater Chittagong Expected Benefits: shortening travel time mitigating traffic cong creating a balanced urt dispersing introduction eliminate transit traffic 	estion ban environment a of traffic
 space, encour the growth ce 1 Ist Syear plat (1)Road imponsoluti road) 2 2nd Syear plat (1)Inner rin 3rd Syear plat (1)Middle r 4th Syear plat (1)Regional 5th Syear plat (1)Establish system 	er use of the existing road N age the development of fee nters outside the city. n (1996-2000) provement in existing urbar on of bottle-necks (strength an (2001-2005) g with a new crossing in (2006-2010) ing with a new crossing n (2011-2015) highway linkage (outering	der Roads to serve nized area focusing ien existing inner ring)	the structure plan ("Loi Strategy for Traffic and Chittagong") undertake 2. Prioritization of road d	plan should be integrated with ng-Term Development d Transportation in en by CDA. evelopment and road should be undertaken in close
Total Project I	ront Evenenditure for	s): 36,000 Mil. Tk Mil. Tk	Technical and Financ Technical Asst. 🔀 Re Financial Asst. 🗍 G	equired D Not required
O & M:	· · · · · · · · · · · · · · · · · · ·	MIH. TK		
Ministry In Co Ministry of Con Ministry of Loo	nmunications Roads and Re	ood Transport Division	Development Body : Roads and Highways D CDA, CCC	Department
Section: Roads and Hig CDA, CCC	hways Department		Operation Body: Roads and Highways D CDA, CCC	epartment
Relevant Age	encies to be Coordinate	d:	Private Sector Particip	pation:
	P, CPA, CCC, ngladesh Water Developme	nt Board)		

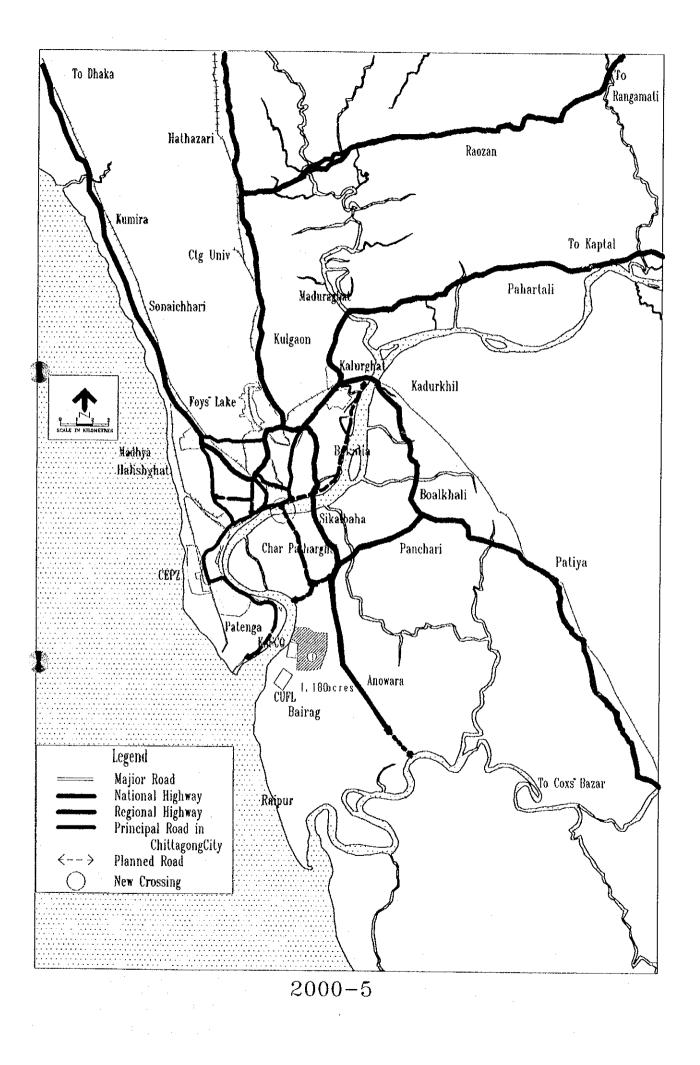
PROPOSED PROJECT PROFILE

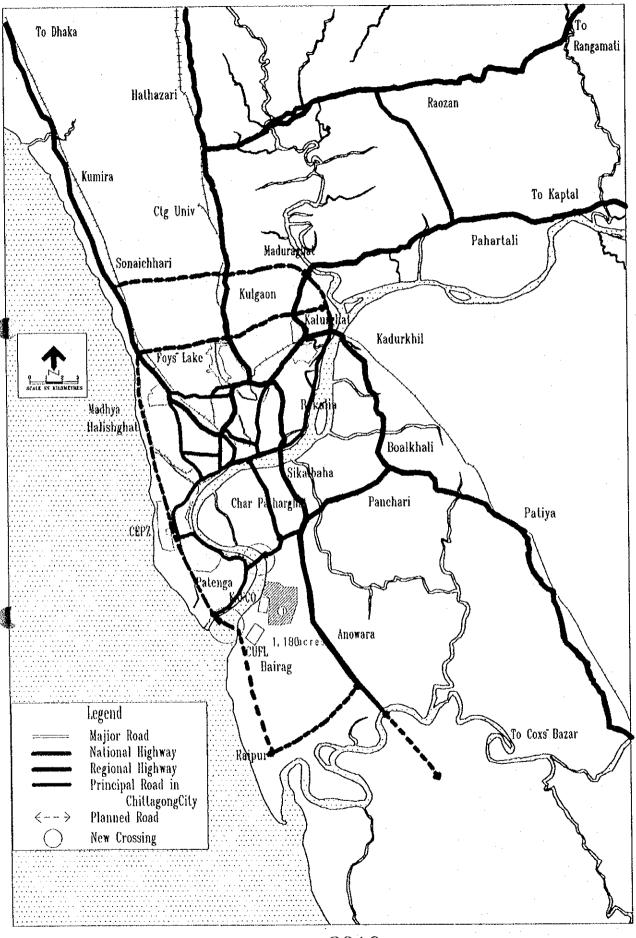
(CHITTAGONG INDUSTRIAL DEVELOPMENT PLAN)

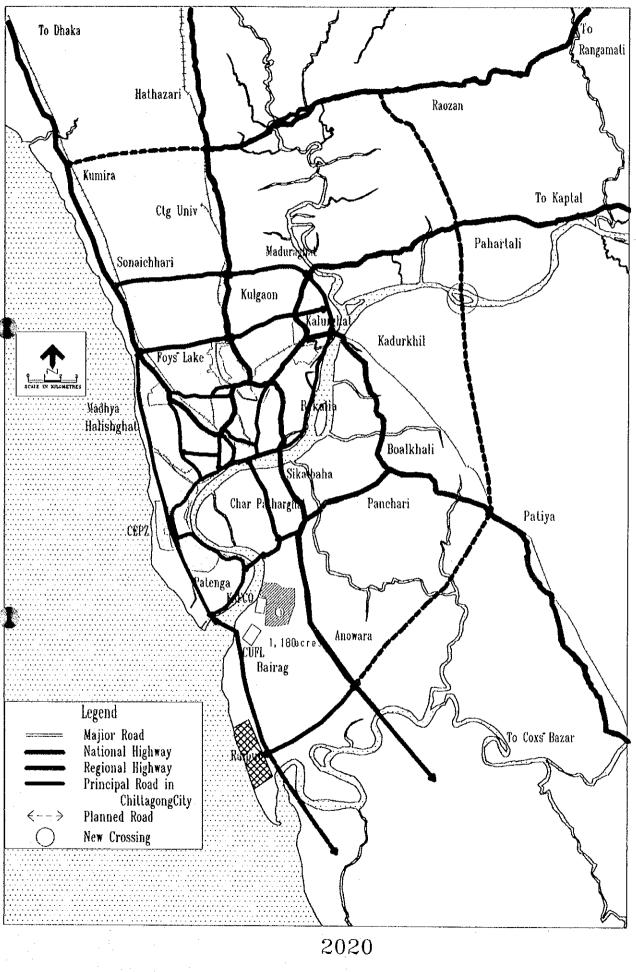


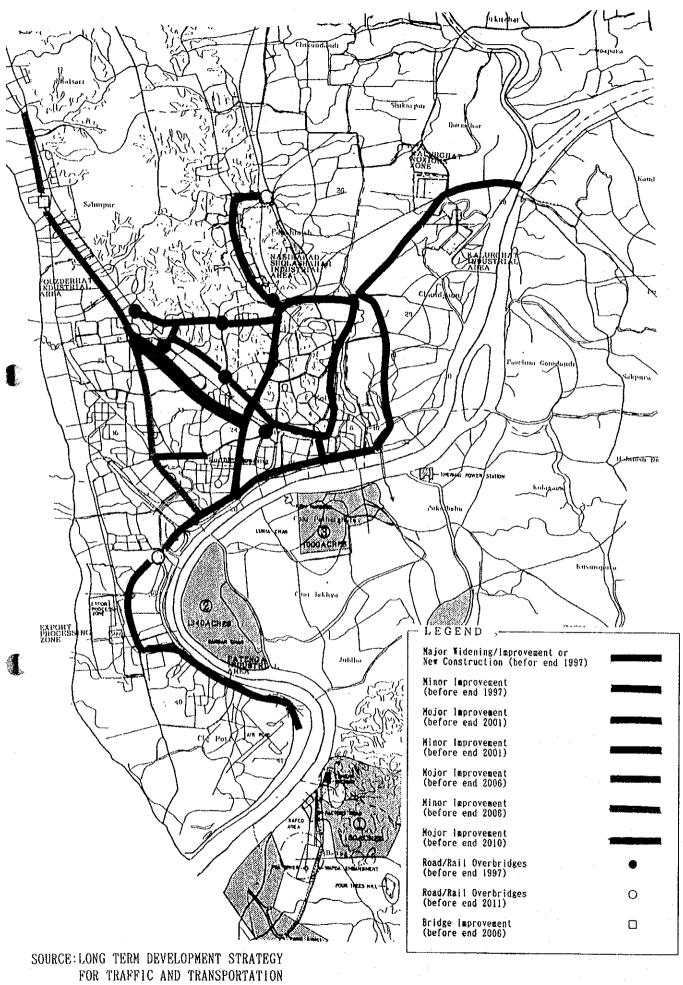


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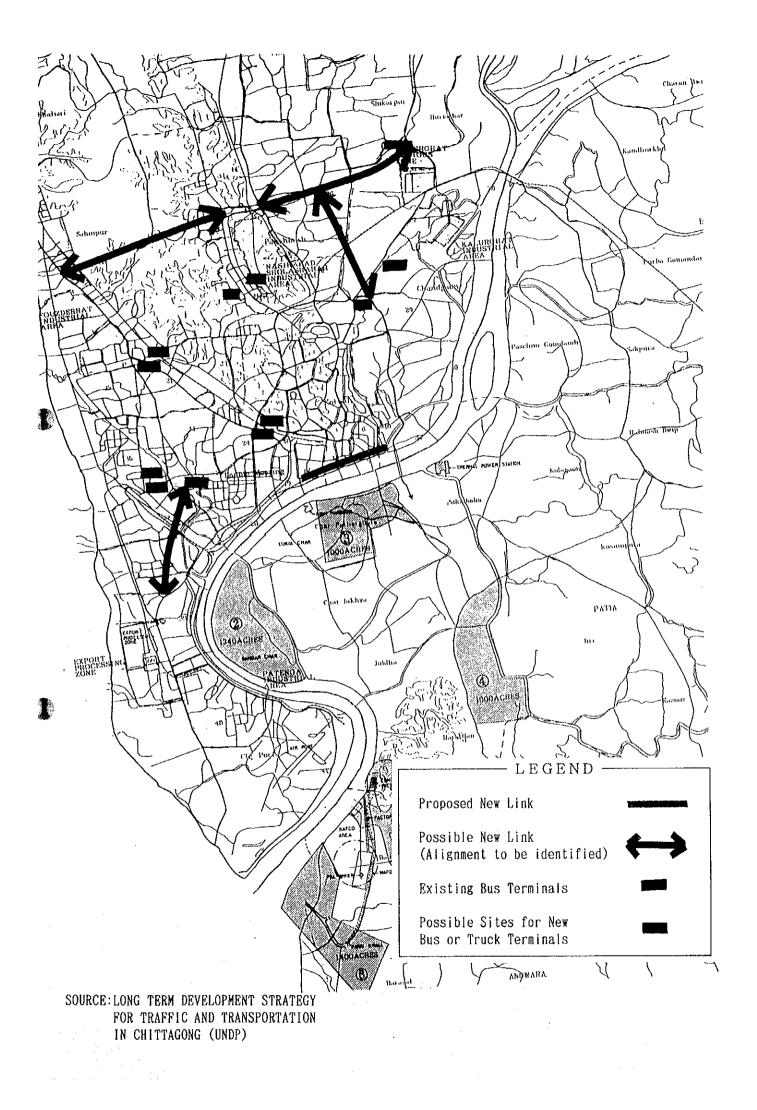








IN CHITTAGONG (UNDP)



TRANS 02 - FUTURE DEMAND OF ROAD TRANSPORT IN BANGLADESH

According to the Road Master Plan Project (1991, July, ADB), the future road traffic volume are estimated by trend of annual growth rate.

1) ROLE OF ROAD TRANSPORT

Ω.

1

According to the estimate of Bangladesh Road Master Plan (BRMP) Study in 1990-91, road transport accounts for about 66% of ton-km by mechanised transport (5 billion) and about 73% of passenger-km by mechanised transport (37 billion). For developing industry of the chittagong region, with the expansion of road network and increase of vehicular traffic on roads, road transport has turned out to be the dominant mode in carriage of freight and passenger traffic.

2) GROWTH OF FREIGHT AND PASSENGER TRAFFIC

BRMP Study estimated that in recent years the overall growth of both freight and passenger transport seems to have been 5-6% a year. The study emphasized that the rate of growth of water transport.

After examination of national economic parameters and historical traffic growth, Bangladesh Road Materials and Standards Study (BRMSS) made in 1990-92 estimated that annual average growth rates of traffic on roads for the period 1992-2000 would be as follows:

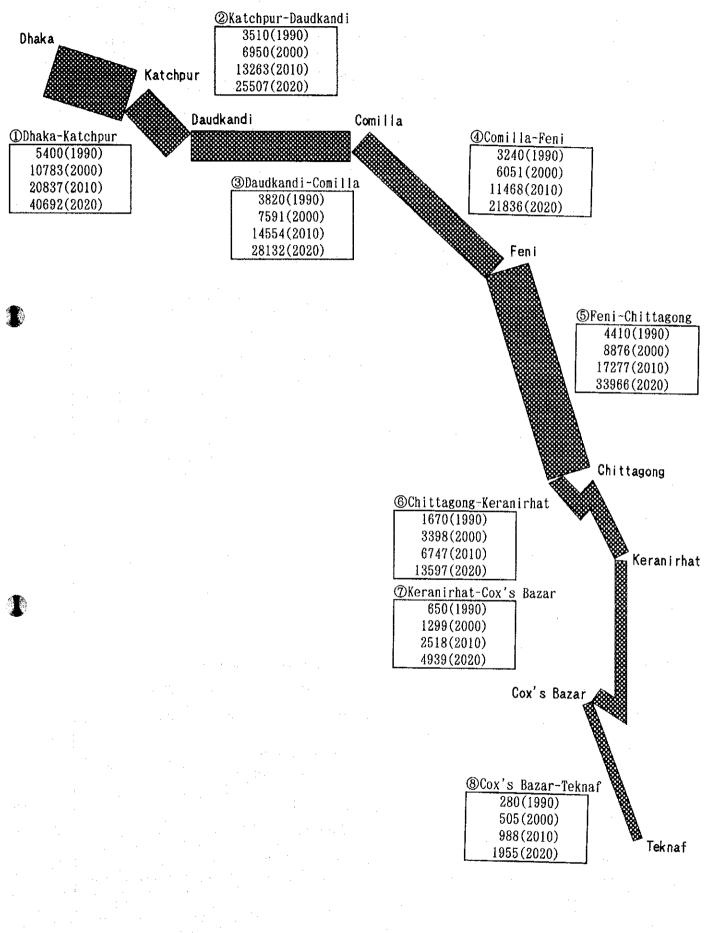
a) Freight Traffic 7.7%

b) Passenger Traffic 8.3%

The forecasted annual growth rates for the different categories of motorised vehicles are given in below table.

	1990-2000	over 2000
Truck	7.0	6,5
Bus	6.5	6.0
Utility	9.0	8.5
Car	9.0	9.0
Motorcycle	9.0	9.0
Autorickshaw	/s 6.5	6.0
Rickshaws	5.0	5.0
Bicycles	5.0	5.0
Carts	3.0	3.0

					Pickup	Car/Taxi	Auto-	Motor	Total	Total	F	I OCAPACITY/LANE
CE VALUE		Truck	Bus	Minibus	уал		rickshaw	cycle	Moterized	4 Wheels	0.09	1870
	PCE RATIO	3.0	3.0	3.0	1.0		1.0	1.0			PCE/h	Number of lane
Dhaka~Katchpur	1990	7, 170	. 51	. 88	320	560	0	300	. 24	4,4	. 30	2
	2000	14,103	6, 588	5,406	758		939	2	29,830	=	2, 536	2
	2010	26.472	19	9 6	1,714	3, 139	90	1, 681	16	2 8	12	
	2020	9.6	1, 12	с. С	3, 875			98	9	4.6	95	9
Katchpur-Daudkandi	1990	6, 00	2,160	<u>م</u> ا	110	260	20	30	84	9.79	88	2
	2000	_	ŝ	<u> </u>	260	616	38	71	9, 20	60 6		2
	2010	22, 155	7,263	4.233	588	1,458	68	168	35, 933	ιœ,	3, 213	2
	2020	1	0	S.	1, 329		122	398	7.47	6,95	0	4
Daudkandi-Comilla	1990	. 84	- net	660	110	330	63	130	0, 77	5	952	2
	2000	45	6	1.239	260	781	118	308	1, 11	ŝ	<i>.</i>	2
	2010	ŝ	8,874	2.220	588	∞	211	729	39, 728	~ ~		2
	2020	47,412	68.	3, 975	1, 329	4, 377	378	1.726	5,0	72,984	6,569	7
Comilla-Feni		90	. 68	420	60	180	65	60	39	2	l ~	2
		57	2.610	654	110	\sim	\circ	165	۶Ŷ,	~	Ľ,	2
	2010	25,476		1.170	249	6779	181	391	32,920	32, 348	2, 911	5
		82	, 37	2.094	563	-	(C)	926	ൗ	цю.	1	4
Feni-Chittagong	1990	7.620	LCD .	810	290	v	550	290	2	5	0	2
	2000	4,99	4,788	1, 521	687	1,089	1,032	687	24, 795	23,076	2.077	2
<u> </u>	2010	-	i	2.724	1.553	5.02	ത	ι Φ	2	3	က	•
	2020	2.8	. 35	4.878		٦.	3, 309	3, 849	82	2.6		*
Chittagong-Keranirhat	1990			2,040	170	300	190	300	56	0	366	2
	2000	e 1		82	402	-	357	710	9,03	5	; 1	2
	2010	4.101	1.515	6,855		1, 681	639	ဆ	∞	15,061	٣.	2
	2020	69	, 71	. 27	2,055	6.	1, 144	3, 980	3, 84	8.1	ဆ	2
eranirhat-Cox's Bazar	1990	840	330	LO:	20	90	100	50	. 88	-	l CO	2
	2000	ч. Т	618	-	47	213	188	118	. 68	3	:0	2
	2010	3,102	2	1, 515	106	504	337	279	6,950	6, 334	570	2
	2020	ω.	I, 983	-	240	1,193	604	660	21	6	<u>ا</u> م	2
Cox's Bazar-Teknaf	1990	390	270	0		50	100	80	006			2
· · · · · · · · · · · · · · · · · · ·	2000	768	420	0		တ	ŝ	-	ŝ	~		2
	2010		753	0	41	215	278	346	3, 076	2,452	221	2
	2020		1 250	 C		ic	;c	÷.,	ic	; `	;.	

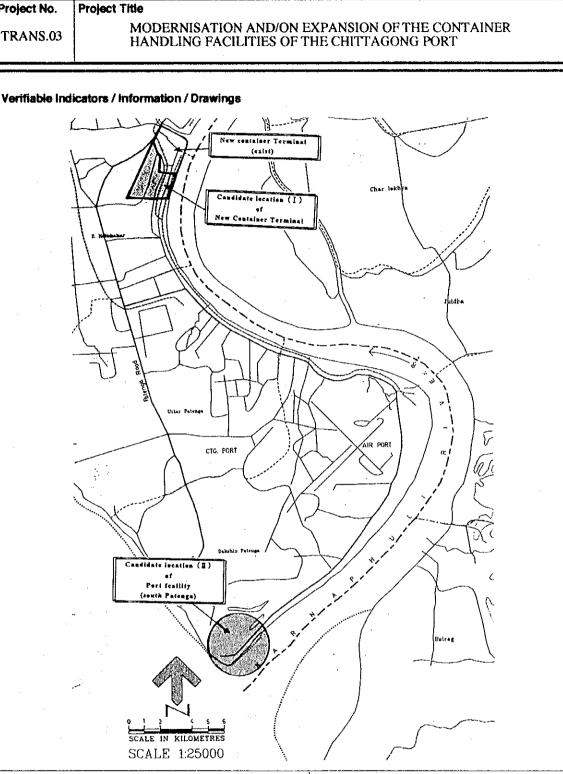


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Project No.: Project Title: TRANS.03 MODERNISATION HANDLING FACIL		ISION OF THE CONTAIN HITTAGONG PORT	NER Sector: Transportation
 Project Location: Chittagong district, SEZ Objectives and Description of Projec 1. The container handling Capacity and faci Chittagong Port are lacking behind to sup increasing of container traffic. 2. The existing container handling capacity improved and expanded according to the prepared by the Chittagong Port Authority Major Components: To construct a multi-purpose berth with ad Procurement of cargo handling equipment Feasibility study of the location of the faci handling Procedure the improvement of Dhaka ICD Developing a port management informatic training staff for its operation 	Project Priority: Short-term Medium-term Long-term t. lity at the port the rapid should be urgently plans and programs y. lequate facilities. lity new container 0 expansion plan	Duration: 1996-2010 Beneficiaries: - container user - port user Expected Benefits: - shortening travel time - shortening waiting time for - increasing volume of han Specific Issues Related: 1. The proposed network plan structure plan ("Long-Term	dling container n should be integrated with the n Development Strategy for in Chittagong") undertaken CD is very much needed for
Estimated Project Cost (in 1995 prices Total Project Implementation Cost Annual Recurrent Expenditure for O & M: Ministry in Charge : Ministry of shipping Section: Chittagong Port Authority Relevant Agencies to be Coordinated Chittagong Development Authority Chittagong Port Authority	Mil. Tk	Technical and Financial Technical Asst. Technical Asst. Financial Asst. Gran Development Body : Chittagong Port Authority Operation Body: Chittagong Port Authority Operation Body: Chittagong Port Authority Private Sector Participate Consideration should be given ICDS around chittagong Port	ired Not required t I Loan ion: n for establishing private sector





Special Considerations

Necessary Inputs/Arrangement

National Government involvement Initiatives of Local Government Units (CCC, District) Institutional Arrangement at Local Level

- Special Financial Building at Local Level
- Special Fund Allocation by Central Government
- Private Sector Participation in Funding

Maximum Utilization of Local Technologies and resources Others (as specified in right column)

STATEMENT OF FORCASTED TONNAGE (*) AND LOADED TEUS (IMPORT AND EXPORT) AND EMPTY TEUS

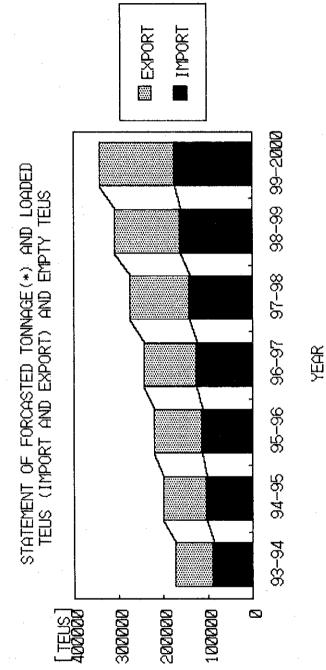
	IMP	ORT	EXP	ORT	EM	PTY	TOTAL	TEUS	
YEAR	TON	TEUS	TON	TEUS	IMPORT	EXPORT	IMPORT	EXPORT	THROUGHPUT
93-94	1005045	77366	621430	65613	11830	19948	89196	85561	174757
94-95	1155182	88928	671960	70957	11276	25780	104204	99538	203742
95-96	1279863	98526	748198	79007	16925	28705	115451	107712	226300
96-97	1422057	109473	833852	88052	18805	31992	128278	120044	248322
97-98	1580599	121678	929155	98116	20905	35648	142580	133764	276344
98-99	1798340	138440	1038500	109662	23782	39843	162222	149505	311727
99-2000	1959402	150839	1160481	122543	25911	44523	176750	167060	343816

*AVERAGE TONNAGE PER TEUS HAS BEEN TAKEN TO BE 11.42 TON.

FORECAST OF IMPORT CONTAINER CARGO ON THE BASIS OF GROTH RATE & PENITRATION RATE AND FORECASTING OF EXPORT CARGO ON THE BASIS OF GROWTH RATE

	IMP	ORT	EXPORT
	PROBABLE TONNAGE ON	FORECASTED TONNAGE WITH	FORECASTED TONNAGE ON
YEAR	GROWTH RATE	PENITRATION RATE (4%)	GROWTH RATE
93-94	10, 05, 045	-	6, 21, 430
94-95	11, 14, 080	11, 55, 182	6, 71, 960
95-96	12, 35, 264	12, 79, 863	7, 48, 198
96-97	13, 72, 647	14, 22, 057	8, 33, 852
97-98	15, 25, 694	15, 80, 599	9, 29, 155
98-99	17, 37, 313	17, 98, 340	10, 38, 500
99-2000	18, 89, 910	19, 59, 402	11, 60, 481

NOTE: IT IS APPRENHENDED THAT THERE WILL BE NO FURTHUR PENITRATION OF CARGO FROM BREAK-BULK TO CONTAINER IN CASE OF EXPORT IN FUTURE. HENCE, PENI-TRATION RATE HAS BEEN APPLIED ONLY IN CASE OF IMPORT CARGO. J



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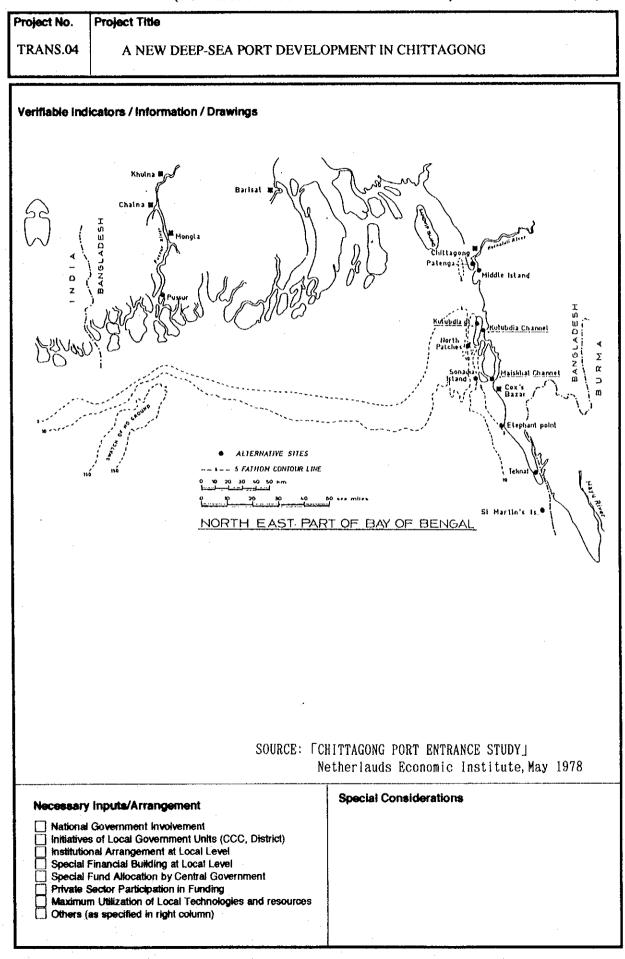
PROPOSED PROJECT PROFILE

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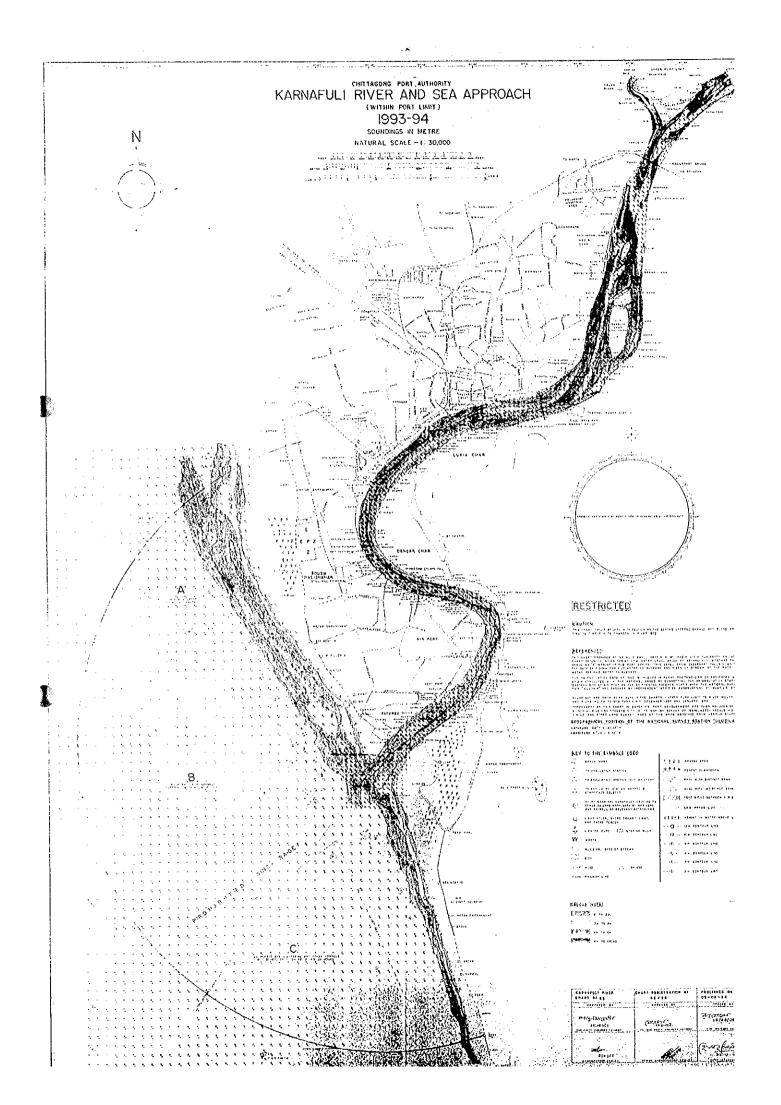
(CHITTAGONG INDUSTRIAL DEVELOPMENT PLAN)

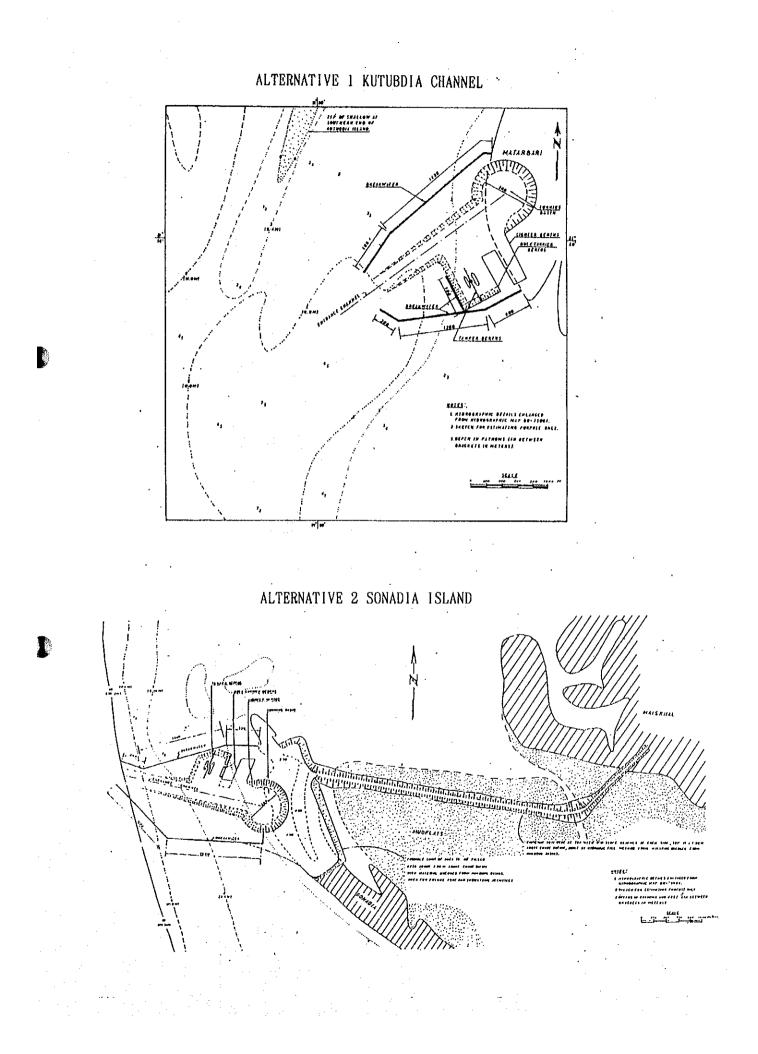
Project No.: TRANS.04	Project Title: A NEW DEEP-SE	A PORT DEVELO	PMENT IN CHIT	FAGONG	Sector: Transportation
Project Locati	on:	Project Priority:	Duration:	Tvr	e of Project:
-	g district, SEZ	Short-term	2000-2010	50	"Hardware" Type "Software" Type
Objectives ar	nd Description of Proje	ct:	Beneficiaries:		
	of the existing port of chitt ansion. (river port)	agong has a limit for	• Container user • Port user		
	t can handle vessels of up t ral cargo and container.	to 9.1 meter draft			
- To require dr	astic of port operations whi	ich would he even	Expected Benefit	\$:	· .
accelerated if transshipment	Chittagong should play a r t hub and a transit trading f Bay of Bengal.	role of a regional	 shortening travel increasing of cor reducing the wai 	tainer handling	
Major Comp	opents:	·····	Specific Issues	Rolatod:	
	e new master plan of all con	vered of Chittagong	Opeciaio issues	ngka kolu .	
Port. 2. A Feasibility deep-sea por - Kutubdia (- Sonadia Is	Channel	nous alternatives for a		overed Chittago	l trade facilitation ng Port, Mongla & d development of
 Elephant F St. Martin' Mayu Rive 	Point 's Island er		2. Major problem is regular and costly		ion which requires
 Bay of Tel North Pate Kutubdia I Pussur Riv 	ches				
there are po Karnaphuli. meet require	nical point of view and on tential sites along the coast However, also the vicinity ements for deep sea harbor system, Navigation system, ation.	t and across the y of Cox's Bazaar may developments.			
Estimated Pro	oject Cost (in 1995 price		Technical and F	nancial Assis	tance
	Implementation Cost	•	Technical Asst.	Required	Not required
Annual Recur O & M:	rrent Expenditure for	Mil. Tk	Financial Asst.	Grant	X Loan
Ministry In C	harge :		Development Bo	dy :	
Ministry of	shipping		Chittagong Port /	Authority	
Section:	·		Operation Body	· . · · ·	
Chittagong	Port Authority		Chittagong Port		
Relevant Age	ancies to be Coordinat	ed:			
Chittagong Relevant Age	Port Authority ancies to be Coordinate TA, BIWTC	ed:	Operation Body Chittagong Port Private Sector Pa	Authority	

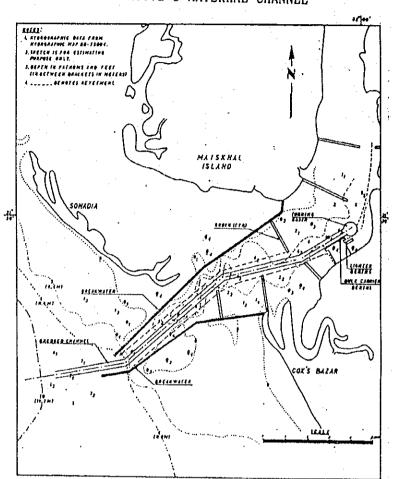


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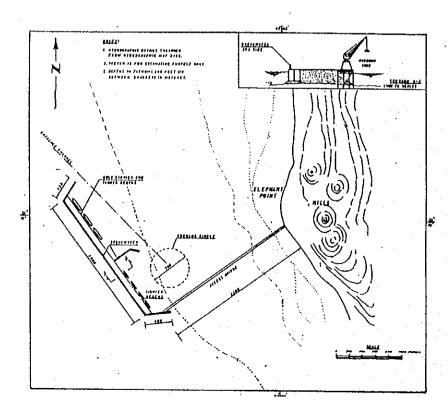


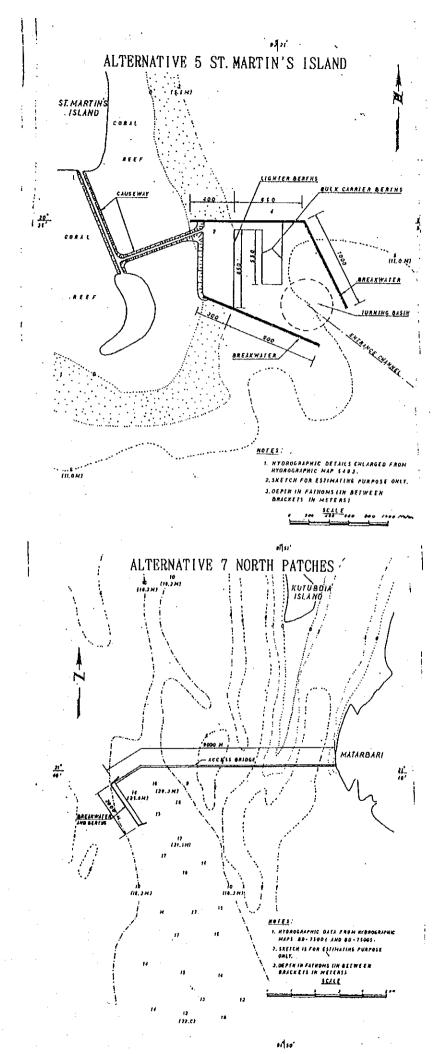




ALTERNATIVE 3 MAISKHAL CHANNEL

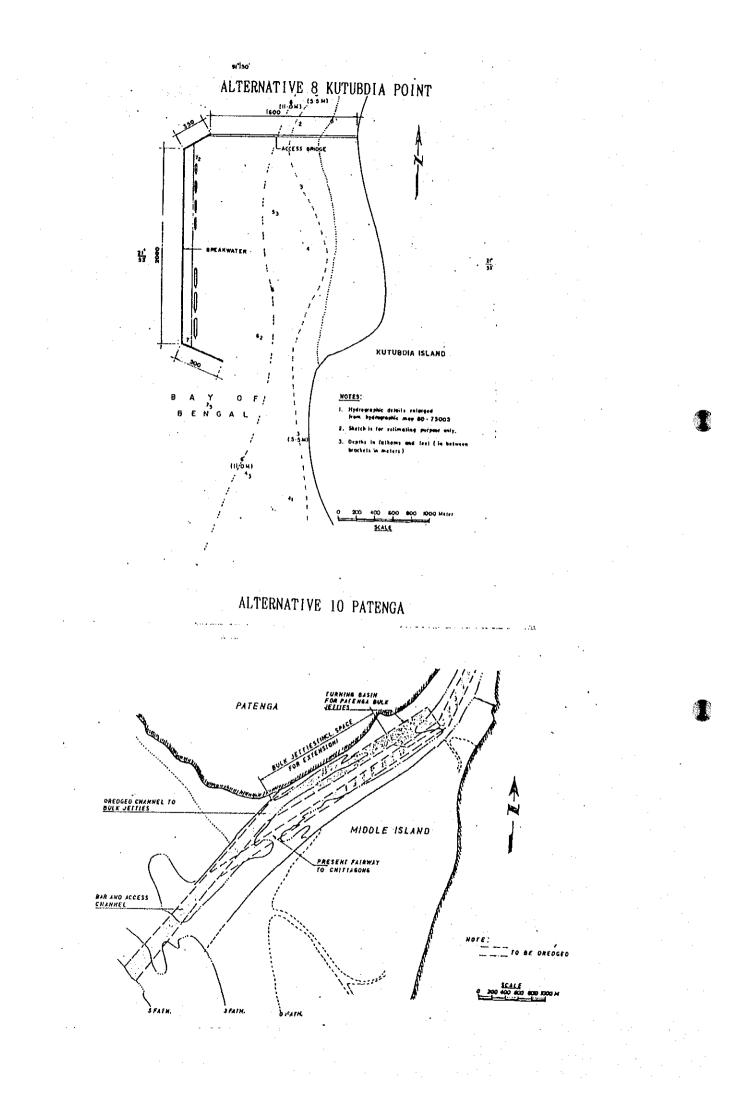
ALTERNATIVE 4 ELEPHANT POINT

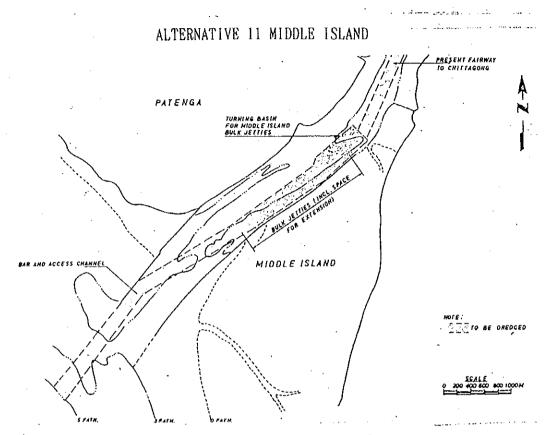






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Homent Submetric Televant North Curractia Pasterio Pasterio Metric M			Total investment and annual operating costs of \$0,000 DWT ports (min \$:1	nd annual op	perating c	COSTS OF 5C	0000 000	iny crind l		arr price)														
	monoment monoment monoment monome m			Kutubdi	_ ,	Sonad		Maiskh	178 7	Elephar	e .	St. Martin Island		Teknaf Rav		North	ру З	tubdia	₹	ssur	Pat	eßua	Midd	
Imate: Mate: Mate: <t< th=""><th></th><th>·</th><th>Vice Inche</th><th>invest-</th><th>1</th><th></th><th>1</th><th></th><th></th><th>51</th><th></th><th></th><th>1</th><th></th><th>inve</th><th></th><th>invest-</th><th></th><th>invest-</th><th>ž</th><th>invest-</th><th>Jag.</th><th>invest-</th><th>ă</th></t<>		·	Vice Inche	invest-	1		1			51			1		inve		invest-		invest-	ž	invest-	Jag.	invest-	ă
189 169 160 163 23 164 60 43 17 144 60 132 154 60 132 160 160	18.6 16.0 16.8 3.2 16.4 6.0 2.3 16.4 6.0 2.3 16.4 6.0 2.3 16.4 6.0 17.3 6.0 17.3 6.0 17.3 6.0 17.3 6.0 17.3 6.0 17.3 6.0 17.3 17.3 17.4 17.4 17.4 17.3	:		menty													ment	year	ment	year	ment	year	ment	Xea
473 11 1146 04 1023 04 - 1426 05 1232 05	4373 17 1146 04 1023 D4 - 142.8 D5 123.2 D5 D5 <thd5< th=""> D5 <thd5< th=""> <thd5< th=""> <thd5< th=""> <</thd5<></thd5<></thd5<></thd5<>		Dredging	18.9	6.0	16,8	3.2	16.4	6.0	2.8	6.0	4.3			Ņ		2.8				11.2	6.0	10.2	6.0
No. 11.8 0.2 12.8 0.3 22.8 0.3	Matrix Explore Constrained Co	-	Port facilities		u ¢	6 361		C 7 C M		9116		5 001	•							,	•	1		
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			equipment	5.5	0.3	5.5	0.3	5.5	0.3	5.5	0.3	5.5									5.0	0.5	5.0	0
546 26 242 26 203 30 119 33 364 17 246 21 165 51 69 10 91 Masterial Elephant St.Martin's Teknaf North Kuttabdia Pussur Patenga Made Orannel Point Island Band Band Pat North Kuttabdia Pussur Patenga Mode Orannel Point Island Band Band Pat North Kuttabdia Pussur Patenga Mode Orannel Point Inest Par Invest Per Invest Per Invest Per North Invest Per Invest Per Invest Per Invest Per Invest Per North Invest Per Invest Per Invest Per Invest Per Invest Per North 133.4 9.2 114.6 <td>546 26 242 26 203 30 119 33 364 17 248 21 165 10 91 Maskbaal Elephart St.Martin's Teknaf Morth Kutubdia Pussur Patenga Mode Channel Point Island Bayd Patenga Point Patenga Mode Teknaf Point Island Bayd Patenga Point Pussur Patenga Mode Teknaf Invest- Peri invest- Peri invest- Peri invest- Peri Mode Mode Teknaf Reint Vasi Mont Vasi Peri invest- Peri Invest- Peri Invest- Peri Invest- Peri Mode 133.4 1.7 114.6 0.4 102.3 0.4 142.8 0.5 150.0 36.0 Invest- Peri Invest- Peri Invest- Peri Invest-</td> <td></td> <td>Transport (channest way)</td> <td>(</td> <td>11.3</td> <td></td> <td>12.9 WT</td> <td>÷</td> <td>13.3 WT</td> <td>ē</td> <td>14.3 VT)</td> <td>ě</td> <td>18.6 (T)</td> <td>.91 (TWI)</td> <td>T, _</td> <td>6.01 (TWI)</td> <td>-</td> <td>9.9 (TWI)</td> <td></td> <td>26.7 (IWT)</td> <td>3.8 (roed</td> <td>1.1 Hpipe)</td> <td>26.6 (road+r</td> <td>ě.</td>	546 26 242 26 203 30 119 33 364 17 248 21 165 10 91 Maskbaal Elephart St.Martin's Teknaf Morth Kutubdia Pussur Patenga Mode Channel Point Island Bayd Patenga Point Patenga Mode Teknaf Point Island Bayd Patenga Point Pussur Patenga Mode Teknaf Invest- Peri invest- Peri invest- Peri invest- Peri Mode Mode Teknaf Reint Vasi Mont Vasi Peri invest- Peri Invest- Peri Invest- Peri Invest- Peri Mode 133.4 1.7 114.6 0.4 102.3 0.4 142.8 0.5 150.0 36.0 Invest- Peri Invest- Peri Invest- Peri Invest-		Transport (channest way)	(11.3		12.9 WT	÷	13.3 WT	ē	14.3 VT)	ě	18.6 (T)	.91 (TWI)	T , _	6.01 (TWI)	-	9.9 (TWI)		26.7 (IWT)	3.8 (roed	1.1 Hpipe)	26.6 (road+r	ě.
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ment year ment year <th< td=""><td>ment year ment year <th< td=""><td></td><td></td><td></td><td>5</td><td></td><td>1</td><td></td><td> _</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>invest-</td><td></td><td>invest-</td><td>jed</td><td>invest-</td><td>Ē</td><td>invest-</td><td>ē.</td></th<></td></th<>	ment year ment year <th< td=""><td></td><td></td><td></td><td>5</td><td></td><td>1</td><td></td><td> _</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>invest-</td><td></td><td>invest-</td><td>jed</td><td>invest-</td><td>Ē</td><td>invest-</td><td>ē.</td></th<>				5		1		_								invest-		invest-	jed	invest-	Ē	invest-	ē.
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28.1 0.4 29.2 0.4 28.1 0.4 28.1 0.4 28.1 0.4 28.1 0.4 25.5 2.6 2.6 2.5 2.6 2.5 2.6 2.5 2.6 2.5 2.6 2.5 2.6 2.5 2.6 2.5 2.6 2.5 2.6 2.5 2.6 2.5 2.6 2.5 2.6 2.5 2.6 2.5 2.6 1	28.1 0.4 29.2 0.4 28.1 0.4 28.1 0.4 28.1 0.4 28.1 0.4 28.1 0.4 28.1 0.4 28.1 0.4 28.1 0.4 28.1 0.4 28.1 0.4 28.1 0.4 28.1 0.4 28.1 0.4 28.1 0.4 28.1 0.4 28.1 0.4 28.1 0.4 28.5 2.6 25.5 2.6 25.5 2.6 25.5 2.6 25.5 2.6 25.5 2.6 25.5 2.6 25.5 2.6 25.5 2.6 26 10 <td></td> <td>Port facilities</td> <td>2 B C F</td> <td>v v</td> <td>125.2</td> <td></td> <td>5 (FA</td> <td></td> <td>114.6</td> <td></td> <td>102.3</td> <td>4 0</td> <td></td> <td>142.</td> <td></td> <td></td> <td></td> <td>. •</td> <td>•</td> <td></td> <td></td> <td></td> <td></td>		Port facilities	2 B C F	v v	125.2		5 (FA		114.6		102.3	4 0		142.				. •	•				
28.1 0.4 29.2 0.4 28.1 0.4 31.3 0.5 28.1 0.4 25.5 2.6 26.5 2.6 7.6	28.1 0.4 29.2 0.4 29.2 0.4 28.1 0.4 31.3 0.5 28.1 0.4 25.5 2.6 25.5 2.6 25.5 2.6 25.5 2.6 25.5 2.6 25.5 2.6 25.5 2.6 25.5 2.6 25.5 2.6 25.5 2.6 11.8 0.2 11.8 0.2 11.8 0.2 11.8 0.2 11.8 0.2 11.7 0.2 13.2 0.2 11.8 0.2 not 10.2 1.0 10.2 1.0 10.2 1.0 10.2 1.0 10.2 1.0 10.2 1.0 10.2 1.0 10.2 1.0 10.2 1.0 10.2 1.0 10.2 1.0 10.2 1.0 10.2 1.0 10.2 1.0 10.2 1.0 10.2 1.0 10.2 1.0 1.0 1.0 1.1 14.5 0.2 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 <		ocean berths	2.27	}	*		2		2							•							
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4.6 0.1 20.4 0.2 applicable 113.4 1.1 14.5 0.2 applicable 10.0 0.2 8.2 0.2 12.4 0.2 10.7 0.2	4.6 0.1 - 20.4 0.2 - applicable 113.4 1.1 14.5 0.2 - applicable - 1.1 12.4 0.2 10.7 0.2 - applicable		- equipment	10.2	1.0	10.2	1.0	10.2	0.1	10.2	0.1	10.2	1.0		10.									
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			sandfill, pavement	'	ı				ı	10.0	0.2	8.2	0.2		12.				1	•				

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Alternative	Kutubdia		Sonadia	Q B	Channel		9 9 9 7	elephant Point	ST, Ma Isla	st, Marcin's Island	Bav	_	Patches		Point	ر د 8	Incon	ž	efilme.		Island	¥ Þ
	inuer.	Į,	invoct-	2	invest-	i i	invest-	8	invest-	ja Ber	invest- c	<u>الا</u>	invest-		invest-		invest-	8	invest-	8	invest-	B
	ment	year	ment		ment	year	ment	year	ment	. 1							ment	year	ment	year	ment	year
Dredging	27.9	6.0	25.5	3.2	33.4	2.6	18.5	6.0	19.6	5.2			3	F	18.5	6.0	160.0	36.0				
Port facilities	128.6	л С	2 2 E E	5.0	437.3	5	114.6	4.0	102.3	40		÷	142.8	0.5	123.2	0.5	. •	•				
ocean berths		5																				
- civil works	28.1	4.0	29.2	0.4	28.1	0.4	29.2	4.0	28.1	4.0			30.2	0.4	31.3	0.5	28.1	4.0				
- equipment	25.5	2.6	25.5	2.6	25.5	2.6	25.5	2.6	25.5	2,6			25.S	2.6	25.5	2.6	25.5	2.6				
lighter berths	;	(((ć	2	ŕ	0 (* 7	ć	:	с С	ţ		7 4 4	, ,	0.00	0	1	0	ţ		į	
- CIVIL WORKS	2	4 4 2 4	2 4	4 ¢		4 9	2 4 4	4 ¢		4 0	2		<u>i</u>	4 4	10	4 ¢	0.01	4 6	2	,	2	
- equipment	10.2	0.1	10.2	0.1	201	<u>.</u>	10.1	2	701	2	1		2 2	2,	2.0	2.4	771	2.		:		2
access bridge	'	1	4.6	0.1	'	•	20.4	0.2	1	•	applicable		13.4	2	14.5	0.2	•	•	applicable	âble	applicable	abe
sandfill, navement	1	,			•	1	10.0	0.2	8.2	0.2			12.4	0.2	10.7	0.2	•	•				
Strate																						
civil works	28.4	0.6	28.4	0.6	28.4	0.6	28.4		28.4	0.6			28.4	0.6	28.4	0.6	28.4	0.6				
equipment	5.5	0.3	5.5	0.3	5.5	0.3	5.5	0.3	5.5	0.3			5.5	0.3	5.5	0.3	5.5	0.3				
Transport (cheapest way)		11.3 (IWT)		12.9 (TWT)		13.3 (IWT)		14.3 (IWT)		18.6 (TWI)			Ð	10.9 (TWI)		9.4 (TWI)		26.7 (IWT)				
Total (unumped)	200	ţ		•						i						ç		ç				

Project No.:	Project Title:		· · · · · · · · · · · · · · · · · · ·	Sector:
TOUR 01	Tourism Develop	ment in Chittago	ng Region	Tourism Development
Project Locatio	n:	Project Priority:	Duration:	Type of Project:
Kaptai Lal and Cox`s Chittagong		☐ Short-term Ø Medium-term □ Long-term	10-15 Years	 "Hardware" Type "Software" Type
-to provide the a for the people o the city -to enhanse the	d Description of Proje amenity for recreation, leis f Chittagong including exp position of Chittagong as a	ure, and tourism partriate residing in attractive area for	Beneficiaries: -whole Chittagong Dis -All Communities adja -Tourism-related privat coach operators	
private investm	ent and tourism developme	ent	Expected Benefits:	- · · · · · · · · · · · · · · · · · · ·
			-Job/revenue for project -New tourist attraction -Incentives for private	for local/regional tourism
Major Comp	onests:		Specific Issues Rel	nted ·
Creation of recr	eational park with guest h		Lack of domestic inv	
_	uitable forsocial group/sun provement for Kaptai Lake		Lack of incentives for	or investment
Provide tourism	support facilities to facilit ring, transport etc.			
Build/provide to area	ourist service amenities wi	th beautification of the		
				· · · · · · · · · · · · · · · · · · ·
Estimated Proj	ject Cost (in 1995 price	es):	Technical and Finar	ncial Assistance
	mplementation Cost		Technical Asst. 🛛 I	Required D Not required
Annual Recurr O & M:	rent Expenditure for		Financial Asst.	Grant 🔼 Loan
Ministry In Ci	harge :		Development Body	· · · · · · · · · · · · · · · · · · ·
Ministry of	Civil Aviation and To	urism		
Section:		·	Operation Body:	· · · · · · · · · · · · · · · · · · ·
Relevant Age	ncies to be Coordinate	ed:	Private Sector Partie	cipation:
Min. of Enviro Min. of Youth Min. of Cultur				

Note: 1 US\$=40.0 Taka Source: JICA Study Team (1/2)

60 B

Project No.	Project Title
TOUR 1	Tourism Development in Chittagong Region
Verifiable In	dicators / Information / Drawings
Nocesser	y inputs/Arrangement Special Considerations
X Nationa	Government involvement
Special X Special X Special	es of Local Government Units (CCC, District) onal Arrangement at Local Level Financial Building at Local Level Fund Allocation by Central Government Sector Participation in Funding
	um Utilization of Local Technologies and resources (as specified in right column)
- [

			DEVELOPMENT PLAN)	(1/2)
Project No.: ENV. 01	Project Title: ENVIRONMENTAL M THE CHITTAGONG C		TER DEVELOPMENT IN	Sector: Environment
Project Locatio	on:	Project Priority:	Duration:	Type of Project:
Chittagong		 ☑ Short-term ☐ Medium-term ☐ Long-term 	1996-1997	 "Hardware" Type "Software" Type
DOE hasn't the DOE can't enfor because they do So,the untreated into the ditches canals and the ri The center shou providing law e	ld take roles for pollution nforcement agencies with ntrol industrial emissions	nonitoring system. on the polluter, ata. discharged directly in gross pollution in control center necessary technical	Beneficiaries: Expected Benefits:	
Chittagong city 2. Building the monitoring and	environmental manageme area. laboratory equipment for analyses.	environmental	Specific Issues Related	1:
4. Transfer the c	data base of monitoring re environmental monitoring al assistance programmes	expertise		
Estimated Proj	ect Cost (in 1995 price		Technical and Financial	Assistance
Total Project In	nplementation Cost		Technical Asst. 🔟 Requ	uired DNot required
Annual Recurr O & M:	ent Expenditure for	Mil. Tk	Financial Asst. 🔲 Grar	nt 🖸 Loan
Ministry in Ch Ministry of Lo Cooperative G Section: Department of	cal Government, Regiona overnment	l Development &	Development Body : Department of Environme Operation Body: Department of Environme	
Relevant Ager	ncies to be Coordinate	ed:	Private Sector Participal	tion:

A. D.

		PROPOSED PRO		(2
Project	No. Project Title	e		
ENV ()I ENVIRC	ONMENTAL MANAGEMENT CE	NTER DEVELOPMENT IN THE	CHITTAGONG CITY
Verifiat	ple Indicators / Info	rmation / Drawings		
Nece	ssary Inputs/Arran	gement	Special Considerations	
	ational Government In	volvement rnment Units (CCC, District)		
	stitutional Arrangemen	nt at Local Level		
I SI SI V PI	pecial Fund Allocation	ng at Local Level by Central Government tion in Funding Local Technologies and resources		
	aximum Utilization of L thers (as specified in r	Local Technologies and resources		
1. A.				

Annex 2:

THE COMPARISON OF FOREIGN DIRECT INVESTMENT IN ASIAN COUNTRIES

64. S

The Comparison of Foreign Direct Investment in Asian Countries (1/8)

			T	China	Viet Nam
Items	Myanmar	Malaysia	Inananu	Cuiua	After adorting "Doi Moi"
General	The Government of	To join in developed	To provide the I has people	China has placed inc inaun	Alter autopung Lot Mou
	Myanmar encourages the	countries by the year of	with more investment	objective of toreign	in 1980, Viel Nam nas
	international connecation	2020. Malavsia has placed	opportunities while	enterprises direct	overcome the hyper
_		her first Drionity on the	nromoting the	investments on the	inflation, and achieved a
	Inrough a direct investment		promotine un Thoiland	technology transfer and	favorable economic
	of foreign capital so as to	challenges lot an	capitalization in ritalianto.	torning of a market and	arouth in 1900s
	introduce advanced	advancement of industries	a toreign enterprise cannot		Fundar in 1270s.
	technologies into her	and for an increase in added	mandatorily establish a	acquisition. Those special	Foreign investment nas
	domestic industries and to	value. The country is	local legal person in the	districts in which loreign	peen increased since me
	increase both productivity	willing to accept	country without getting	enterprises are	foreign investment law
	and competitiveness	investments in the	51% or more of the capital	preferentially treated have	promulgated in 1987 and
	ally compound concert	processing and	stock borne by a Thai	been being gradually	accumulated approved
		monthornais and in	canital It is evaluated that	expanded while China has	amount of capital exceeded
	and exportation of		direct foreign intractmente	been striving to invite the	10 hillion dollars in 1994.
	advanced industnal	KOUD OLEAINZAUVIIS AS WOLL	unter rotagn mecanicus	direct invoctmente A	Although the legislative
	products.	as in her infrastructure	nave occi significanti	erter mycanicuts, ra	and the best
	4	buildup. An sport incentive	contributing to the growth	foreign capital is required	
	A foreign investor	system, in particular, is	of Thai economy.	to have an investment ratio	gradually established to
	company is sutharised to	provided in favor of those	Consequently, the Thai	of 25% or more, which is	encourage foreign
	invict from 25% to 100%	manufacturers who are	Government will take the	allowed to increase up to	investment, investors
		multiple the products to be	hasic policy to promote the	1(0)%, too. A preferential	have sull claimed more
	-	maxing us produce to the	anional development by	treatment level of foreign	improvement of legal and
	Myanmar's policy on	SOLO OF UIC CAPOIL INTIACA		antomicae trans	administrative system and
	forcign investment is an	Those companies which are	continuing to invite the	ciliciplises values il vili	
	important component of	exporting 80% or more of	foreign capital there in the	district to district, from	infrastructure.
	the overall restructuring	their products and 50 thru	future, too.	enterprise type to	OUL BULAOW SI LOW IOCH.
	and development policy of	79% likewise are allowed to	The new investment	enterprise type. from	a new stage to transform
	the Covernment The main	he owned 100% by a	promotion policy	business line to business	state owned enterprises
	are overment are man	foreion canital provided	announced in April 1993	line and/or from business	end to increase the
	components or my points	that they satisfy a rertain	has placed emphasis on the	type to business type.	capacity of capital to
		that they satisfy a column	export-oriented enterprises	Under those circumstances	accelerate industrialisation
	(a) adoption of market	level of requirements.	coport future and interesting	in which the investment	and improvement of
•	oriented system for the	to promote investments in		and which the investment	infractmenture
	allocation of resources.	Borneo Island, Provinces	developments while		
	(b) encouragement of	of Saba and Sarawaku and in	encouraging the regional	loreign enterprises nad not	
	private investment and	the area along the east	difference to be reduced by	been built up yet, the	
	cntrepreneurial activity.	coast of Malay Peninsula. a	transferring factories	Economy Wards was	
	(c) opening of the economy	favorable incentive	locally.	located. Later in the stage	
	for foreign trade and	taxation system has been	As countermeasures to	on which the environments	
	investment	established in her efforts to	prevent a polarized	have been progressively	
	The policy objectives of	reduce the difference	concentration on Capital	built up, the	
	the Foreign Investment.	existing from region to	Bangkok and to reduce	"Economy/Technology	-
	aw are	region. To foster	environmental problems.	Development Ward" was	
	(a) promotion and	supporting industries, the	the Thai Government has	provided. In addition,	
	evianción of evidence	investments at indirect	begun to take such	China has designated the	
	CAPTRICTUM OF CAPTURE				

	Ine Com	Comparison of Foreign Direct Investment III Astan Countries (#10)	A CL THASANICHT III ASIAN		
Generi (contid)	(h) exploitation of natural	exportation are	investment-related policies	"Economy-Liberalized	
	resources which require	mandatorily required, in	as to promote investments	Ward" and the "Special	
	heavy investment.	principle, to be made in a	in local areas and to invite	Economy Wards later. In	
	(c) acquisition of high	joint venture.	knowledge incentive	terms of enterprise	
	technology.		enterprises. To foster	categories. "export type	
	(d) supporting and		supporting industries,	and advanced technology	
	assisting production and		moreover, Thailand has	type enterprises are treated	
	services involving large		bcen expanding a range of	with special preference. In	
	capital.		designated business lines	terms of business line and	
	(e) opening up of more		and incentive measures.	business type, furthermore,	
	employment opportunities.			those types which conform	
	i (f) development of works			to the Chinese industrial	
	which would save energy			policy are treated	-
	consumption.			preferentially.	
	(g) regional development.				
Investment related	Foreign Investment Law	Promotion of Investment	Investment Promotion Act.	China-foreign Capital	- Law on Forcign
Basic Law	(1988)	Act. (1986) Industrial	(1977).	Managed Enterprises Law	Investment in Vietnam
		Coordination Act. (1975)	Alien Business Law (1972),	(1979) China-foreign Joint	(1987).
			Working of Alien Act.	Venture Managed	 Decree Providing
<u>.</u>			(1978)	Enterprises Law (April.	Regulations on Foreign
				1988) and Forcign Capital	Investment in Vict Nam
				Enterprises Law	- Law on Domestic
				(enterprises 100% owned	Investment
				by lorcign capital) (July,	- Statute of export
				1986)	processing zones
					(Oct., 1991)
Investment	Foreign Investment	Malaysia Industrial	Board of Investment (BOI):	Forcign Trade Economy	State Committee for
Application Window	Commission (FIC,	Development Authority:	investments to which a	Joint Venture Dept.; as far	Cooperation and
	organized in 1989): It has	such sectors as processing	certain incentive measure is	as a certain extent of	Investment (SCCI) which
(Responsible	been legally provided that	and manufacturing.	applicable. Registration	investments are concerned.	was established in 1989
Apency):	two vice prime ministers	agriculture, and sight-	Office of Ministry of	however, the authority to	and directly under the
				attent instatted	Drime Minister as a unified

Prime Minister as a unified

approve such investments is entrusted to the foreign

Commerce: investments to which only incentive measure are not applicable

seeing. Foreign Investment other than processing and manufacturing, agriculture Committee: any sectors

and sight-sceing

application sccretariat is the Ministry of National Planning and Economic

Development.

other ministers are to work

assistant chairman while as commission members. And the investment

are to act as chairman and

economy trade committee in each local government.

manage foreign investment in Vict Nam government agency to

The Comparison of Foreign Direct Investment in Asian Countries (2/8)

The Comparison of Foreign Direct Investment in Asian Countries (3/8)

reterred to hereunder)	processing and	reviewed from time to	Fields <main industrial<="" td=""><td>follows)</td></main>	follows)
The industrial sectors in	manufacturing, agriculture,	time>)	sectors>)	- Export oriented industries
which foreign investments	agriculture-related	Business which distributes	such industries as textiles	and import substitutive
are encouraged are	industries. sightseeing-	its operating offices	perrochemicals, chemicals,	industries.
foodstuffs, textiles, general	related industries.	regionally, develops the	pharmaceuticals, plastics,	- Hi-tech industries which
daily merchandise	Malaysian natural resources	industries underlining an	leather products, black skin	employ skilled workers,
manufacturing. leather	utilizing industries, high-	industrial development.	metal refinery and rolling.	development of potential
product manufacturing, and	technology industry and	develops the infrastructure.	glassware, non-ferrous	resources, integrated
such traffic machinery	enterprises conducting	conserves natural resources	metal refinery and rolling,	investment to improve
manufacturing as motor	environment conservation	and/or protects	electric household	efficiency of existing
vehicles, bikes and	activíties	environments against	appliances., industrial	industries.
bicycles, including	(Enterprises to Receive	depletion, and contributes	exclusive equipment, daily	- Labor intensive industries
building material	Incentive Measures	to the substitution of	use machines, construction	which are based on
manufacturing, pulp and	<conditional>) pioneer</conditional>	energy and to the	equipment, motor vehicles,	domestic malerials and
paper making, chemicals	enterprises, export	enhancement of the	ships. electronics. lighting	natural resources.
production.	undertakings, RHC	country's international	fixtures and the like	n Service industries which
pharmaceuticals	(regional headquarters of	trade balance.	(Encouraged Enterprises)	contribute to increase
production, iron and steel	conglomerates). small-	(Industries of Special	export-oriented	foreign exchange reserve.
making, machinery and	sized enterprises and	Importance) basic transport	enterprises, advanced	for instance, improvement
equipment production.	venture capitals	systems, public-benefit	technology companies.	& development of
construction contracting.	-	services, environment	productive type firms, and	infrastructure, tourism,
etc.		conservation and recovery.	undertakings located in	ship repairing, and
		technology development	investment-encouraged	construction of ports &
		and basic industries (with	regions	airports.
		metal molds, forging.		
		castings. etc. designated).		
	The industrial sectors in which foreign investments are encouraged are foodstuffs, textiles, general daily merchandise manufacturing, leather product manufacturing, and such traffic machinery manufacturing as motor vehicles, bikes and bicycles, including building material manufacturing, pulp and picycles, including building material manufacturing, pulp and production, iron and steel making, machinery and cquipment production, construction contracting, etc.	2 g j	 manutacturng, agriculture, agriculture-related industries, sightseeing- related industries, high- related industries, high- technology industry and enterprises conducting environment conservation activities (Enterprises to Receive Incentive Measures <conditional>) pioneer enterprises, export undertakings, RHC (regional headquarters of conglomerates), small- sized enterprises and venture capitals</conditional> 	 manufacturng, agriculture- manufacturng, agriculture- industries, sightseeing- related industries, high- related industries, high- technology industry and enterprises conducting environment conservation activities industrial develops the industrial development, develops the infrastructure, develops the infrastructure, development of conglomerates), small- limportance, basic transport isotronale, development and basic industries (with metal molds, forging.

The Comparison of Foreign Direct Investment in Asian Countries (4/8)

Currention Internationant served by leading the protection and seaved by leading the protection and leading the protectin and leading the protectin and leading the protectin a				(Industrial Figures Citysed to	SUICE IN ICEAL LEEURINIS	TOLOGEN INVESTORS SHOULD
 Takwood, 2. Friestry Takyood Takyood Takarus) Takarus) Takarus) These Receiving The Rasonosi The Rasonosi<!--</td--><td>Participation-</td><td>are the following tweive:</td><td>Capital is not Allowed to Particinate unless 80% or</td><td>Foreigners) Building</td><td>have been expressly</td><td>be approved by the Prime</td>	Participation-	are the following tweive:	Capital is not Allowed to Particinate unless 80% or	Foreigners) Building	have been expressly	be approved by the Prime
 Exported) Expo		teakwood. 2. Forestry	more of its Products are	(Industrial Fields Closed to	on the market in 1988.	fields:
 3.3. condensed milk, cement, Those Receiving of business encouraged, ing and clinker, 1300 thrun 1600c ing and refinery, electric power, and other communication cable, etc. workings, gold and silver restricted, prohibited and other formunication cable, etc. willin (Terms Allowing Foreign (Terms Allowing Foreign, and the silver restricted, prohibited and other communication cable, etc. willin (Terms Allowing Foreign (Terms Allowing Foreign, sold and silver restricted, prohibited and other communication cable, etc. willin (Terms Allowing Foreign (Terms Allowing Foreign (Terms and Silver restricted, prohibited and other communication cable, etc. a (G) (Terms Allowing Foreign (Terms and Silver restricted, prohibited and other communication cable, etc. b (Terms Allowing Foreign (Terma and Silver restricted, prohibited and ansport 100% of its Products, and the contrast processing, and fisherics injection in the processing, and fisherics indention, beer, finit, protessing, and fisherics indention, beer, finit, and fisherics indention, erection of capital is Allowed spins, sold thinks, busit, interprise) and fisherics indention, beer, finit, and fisherics indention, beer, fisherics indention, erection construction, beer, fisherics indention, erection fisherics interprise) and fisherics indention, e		(except for the forests	Exported)	Foreigners other than	defining the specific lines	- production and
ling and current, 1.900 cm 1.000c Investment encouraged restricted or prohibited dotter communication cable, etc. Measures) initiand communication cable, etc. Measures, and initiand communication control for provident on the communication of Capital Stock only when ash, cement, plywood, indication for the products are controls and indication indication construction machines, etc. Indicating production, beer, fruit Foreign Capital Fields in Which hands in the modifying, production, beer, fruit fractions, research, with a Thai and fraction machines, encouraged restricted, production, beer, fruit fractions, research, with a Thai and fraction machines, encouraged restricts, primarity materials, wire hameses packing investor, monothrome CRTs, work indication machines, encouraged controls, fraction machines, encouraged controls, and fraction machines, were builts and fraction machines, indication machines, were builts and fraction machines, encouraged controls, and galasware, ctc. and crafts, and so on.		owned by villagers), 3.	condensed milk, cement,	Those Receiving	of business encouraged,	transaction of explosives
 ting and terimetry election of other valuation cable. within dotter communication cable. etc. within dotter communication cable. etc. workings, gold and silver from participating in such products. Buddhist image from participating in such products. d. Gaptial Stock only wale productor. Subdhist image from participating in such products. moderson 100% of its Products and contexts. etc. moderson 100% of its Products and products. exported) materials. and fisherics injection the and fisherics injection the and fisherics injection the and fisherics independention. construction matching. processed cotton knitting and hisherics. the and fisherics independention. the and fisherics independention.<td></td><td>Mining and reming the oil</td><td>clinker, 1500 thru 1000cc</td><td>Investment encouraged</td><td>restricted, prohibited and</td><td>and toxic substances</td>		Mining and reming the oil	clinker, 1500 thru 1000cc	Investment encouraged	restricted, prohibited and	and toxic substances
di diter within diene di diter within diene d. 6. Capital Stock only when d. 6. Capital Stock only when d. 6. Capital Stock only when d. 6. Capital Stock only when ansport transation do Capital Stock only when ansport exported) E		Collecting producing and	retinent electric nower	Measures) pharmacenticals wood	pennucu. According w	- capiculation of tale and valuable mineral reconred
within (Items Allowing Foreign broducts. Buddhist image from participating in such actanication of Capital to Occupy Majority production. castings. soda mesport Of Capital Stock only when also, rement, plywood. Doccupy Majority products. etc. Confectioneries. chocolate clothes, silk products etc. production, berr, fruit plastics. injection actings, presses, packing to Participate only unless it of production, berr, fruit, plastics. injection are moldings, presses, packing to Participate only unless it of the plastics. injection are materials, wire harnesses materials, wire harnesses and fisheries and fisheries and fisheries investors the plastics in distribution. The plastics in and fisheries and fisheries in distribution, when the plastics in the plastic plastic plastic plastics in the plastics in the plastic plastic plastic plastics in the plastics in the plastic plastic plastic plastics in the plastics in the plastic plastic plastic plastics in the plastics in the plastic plastic plastics in the plastic plastic plastic plastics in the plastic plastic plastics in the plastic plastic plastic plastics in the plastic plastic plastics in the plastic plastic plastic plastics in the plastic plastic plastic plastics in the plastic		exporting pearls and other	communication cable, etc.	workings, gold and silver	restricted or prohibited	- power ceneration and
d. 6. Capital to Occupy Majority production. castings, soda aniscation of Capital Stock only when anison 100% of its Products are clothes, silk products. etc. professing. Sector's as vegetable oil anisonal Fields in Which anison ansport 100% of its Products are clothes, silk products. etc. professing. production. beer, frait 8. Bastics. injection Production. beer, frait 8. Dastics. injection Praticipale only unless it clothes, silk production. beer, frait 7 Exported Competes with a Thai and taxilis, soft drinks. 8. materials. wire harnesses Competes with a Thai and taxilis. Jifts. small investoring materials. wire harnesses 9 moldings. presses. packing only unless it investor. production. machines. 9 moldings. presses. packing investor. production. machines. 9 moldings. presses. packing only unless it investor. production. machines. 10 word investor feed production. construction machines. 112. investore feed production. and taxiles. If its. and so on. 12. investor production. and so on.	• -	jewels. 5. Fishery within	(Items Allowing Forcign	products, Buddhist image	from participating in such	waterworks
mication of Capital Stock only when ash, cement, plywood, ansport 100% of its Products are clothes, slik products, etc. Exported) Reported) Reported) ance moldings, presses, packing clothes, slik production, beer, fruit Plastics, injection ance moldings, presses, packing and fisherics the porting and fisherics the porting the procession, machines, vegetable oil expression, procession, monochrome CRTs, were bulbs and glassware, etc. plastics, and so on, procession, monochrome CRTs, the publs and glassware, etc. procession, monochrome CRTs, publs and glassware, etc. procession, monochrome CRTs, procession, procession, monochrome CRTs, procession, procession, monochrome CRTs, procession, procession, monochrome CRTs, procession, procession, processio	-	the waters surveyed, 6.	Capital to Occupy Majority	production. castings, soda	sectors as vegetable oil	- manufacturing of
100% of its Products arc clothes, silk products, etc. confectioneries, chocolate 8 Exported) Exported) findustrial Fields in Which production, heer, finit 8 participale only unless in production, heer, finit production, heer, finit 8 participale only unless in processed cotton knitting 9 processes, presses, pres		Postal and communication	of Capital Stock only when	ash. cement. plywood.	processing.	communication
 ⁴ Exported) ⁶ Exported) ⁸ Particisen ⁸ production, beer, fruit ⁸ protects, injection ⁸ protects, injection ⁹ processed cotton kuitting ¹⁰ protection ¹¹ processed cotton kuitting ¹¹ protection ¹² processed cotton kuitting ¹¹ processed cotton kuitting ¹¹ processed cotton kuitting ¹¹ processed ¹¹ processed cotton kuitting ¹¹ processed cotton kuitting ¹¹ processed cotton kuitting ¹² processed cotton kuitting ¹³ processed cotton kuitting ¹⁴ processed cotton kuitting ¹⁴ processed cotton kuitting ¹⁵ processed cotton kuitting ¹⁵ processed cotton kuitting ¹⁶ processed cotton kuitting ¹⁷ processed cotton kuitting 		services, 7. Air transport	100% of its Products are	clothes, silk products, etc.	confectioncries, chocolate	equipment, postal &
8. plastics. mjection Foreign Capital is Allowed spirits. solt drinks. and fisherics moldings. presses. packing to Participate only unless it cigarettes. primarily is cigarettes. primarily processed cotton knitting and itsherics and fisherics and fisherics Encreprise) processed cotton knitting and exuites. lifts. small investock feed production, construction machines. were tilt vower tilt construction matchines, monochrome CRTs, monochrome CRTs, and so on. 12. 12. and crafts. and so on.		service and railway	Exported)	(Industrial Fields in Which	production, beer, truit	communication services
testing materials, wire hamesses packing to Participate only unless it cigarettes, primarily feasing materials, wire hamesses (competes with a Thai processed cotton knitting processed cotton knitting processed cotton knitting to the stand fisheries in disheries in the stand fisheries and fisheries in the stand fisheries and fisheries and fisheries in the stand glassware, cut, and so on.		transport service, 8.	plastics. injection	Foreign Capital is Allowed	spirits, soft drinks.	radio & TV broadcasung
Icasung materials, wire hamesses Competes with a Thai processed cotion knitting inness, and fisheries Enterprise) and textiles, lifts, small cporting ef production, construction machines, cporting investock feed production, construction machines, th bibs and glassware, etc. modoum-density ICs, arts und raits, and so on. nud craits, and so on.		Banking and insurance	moldings, presses, packing	to Participate only unless it	cigarettes, primarily	and publishing
timess, and fisherics Enformacy conting and fisherics Enformacy to the construction machines, monochrome CRTs, the construction machines, monochrome CRTs		business, 9. Broadcasung	materials, wire harnesses	Competes with a Thai	processed cotton knitting	- marine and air
sporting Investock feed production, er construction machines, monochrome CRTs, monochrome CRTs, moc		and television pusiness.	and itsnences	Enterprise)	and textules, lifts, small	transportation
12. vegetative on expression, monochrome CKIS, and so on and crafts, and so on and crafts, and so on and crafts. And so on and crafts and so on and crafts and so on and crafts and so on a so	-	10. Mining and exporting		livestock feed production,	construction machines.	- imports and exports
It medium-density ICs, arts ower bulbs and glassware, etc. and so on. 12.		Intretais, 11, Power		vegetable oil expression.	monochrome CKIS.	- international lourism
12. 12. 12. 13. 14. 15. 16. 17. 17. 18. 19. 19. 19. 19. 19. 19. 19. 19		generation. except.		embroidery and knitting.	medium-density ICs, arts	(The share of foreign
		nowever, for the power		bulbs and glassware, etc.	and craits. and so on.	partners in joint venture
<u>2</u>		generated by legally				projects should be more
2		authorized private				than 30 %, but there is no
		enterprises and/or				maximum himit on foreig
Producing military		cooperatives, and 12.				share identified.)
		Producing military				
		provisions				
						-
	·					

The Comparison of Foreign Direct Investment in Asian Countries (5/8)

Investment	The I are managed that	No investment guarantee is 1 It is guaranteed that the	I it is guaranteed that the	It is legally guaranteed that Article 20 of "Foreign	Article 20 01 roteign
	foreire investments	provided for in the	encouraged enterprises	a joint venture and a 100%	Investment Law" guarantee
, Uuaraniee		Transferrence for the more	authorized by BOI are	l'oreion canital enternrise	that foreign organisations
	undertaken under the FIL	Investment Fromuuli			
	shall not be nationalized.	Law. Nevertheless. Article	allowed to bring out or	may remit the surplus tunus	and loreign inuividuals
	It also guarantees the	13 of the Constitution	remit foreign currency and	to the exterior after settling	
	repatriation in foreion	provides for the guaranty of are not to be nationalized.	are not to be nationalized.	down the profits and	equal treatment. Article 21
	currence the righting	ownership to every		income.	of "Forcign Investment
	currence are reader	investor.		Joint ventures and 100%	Law" guarantce that any
	investor after the			foreign capital enterprises	property shall never be
	termination of the			are not to be nationalized	commandcered.
	business The renarriation			or taken over by the	confiscated or
	outiness and repairing			Government. A reasonable	nationalised.
	or savings or unclouder			compensation would be	- Life period of Joint
	temptoyees cugaged by me			available if a foreign	ventures and 100 %
	plicing investor is and			capital were taken over by	foreign owned enterprises
	4110 McG			the Government under	have been extended to 50
			-	special circumstances.	years by revision of
					(cont.)
					Foreign investment Law in
			-		December 1992.
	-				

The Comparison of Foreign Direct Investment in Asian Countries (6/8)

•			ILT INTERNET IN HOSTING	The Comparison of Foreign Phicel Antesement in Asian Country (VIV)		
	Industrial Estates and	(Regions, Industrial	(Industrial Estates) 234	(industrial Estates)	Under those circumstances	Export Processing Zone
		Estate/Frec Trade Zone, etc.		40 locations or more	in which the investment	(EPZ):
•	in which Foreign	where Foreign Investments	_	including those under	environments to invite	- The government has
	Investments are	are Encouraged)	(Free Zone - FZ) 15	construction and being	foreign enterprises had not	promoted to develop EPZs
	encouraged	A concept has been worked	locations in Penang.	płanned. Every industrial	been built up yet, the	as joint venture projects.
)	out to locate an industrial	Maraca, Seran Goal and	complex has an export	"Economy Zone was	Then, SCCI has provided
·		complex in the district of	Johore Provinces, etc.	processing zone (EPZ).	located. Later in the stage	licenses to the
		Tilawa to the south of	Import duties, etc. are	(Export Processing Zone -	on which the environments	development projects of
		Yangon. The project,	exempt.	EPZ)	have been progressively	EPZs by foreign investors
		however, does not seem to	(Bonded Factories) To	This zone is located in	built up, the Economy	in cooperation with
		proceed concretely.	promote the distribution of	every industrial complex	Technology Development	Victnamese partners.
		Hinetharvar Myothit,	enterprises' locations,	developed or co-developed	Zone" was provided. In	- 6 EPZs have ever been
		Mingaradon, Dagon North	export product	by the Thai Industrial	addition. China has	licensed in Hanoi, Ho Chi
		and Dagon South in	manufacturing factories are	Complex Public	designated the "Economy-	Minh City(2), Hiphong.
·		peripheral area of Yangon	authorized to be located	corporation. And it is a	Liberalized Zone and the	Da Nang and Can Tho.
		City are newly developed	outside the FZ.	bonded zone, too. To	"Special Economy Zone"	Regulation on EPZ rules
		zones and establishment of	(Development Arcas)	occupy a location in the	later.	privileges including
		business facilities is	Borneo Island, Saba and	industrial complex, a	What is encouraged varies	exemption or (cont.)
·		encouraged.	Sarawak Provinces and area	foreign capital is required to	from region to region and	reduction of corporate tax
			along the east coat of	export 100% of its	from business line to	for investors in EPZs
		-	Malay Peninsula	products.	business line.	Favorable privileges have
			•	The added-value tax and		also been given to the
				import duties on the		Investment in remote rural
				matcrials and equipment		regions.
				required to construct a		
				factory are exempted.		

The Comparison of Foreign Direct Investment in Asian Countries (7/8)

Incentives	(1) Preferential Taxation	Incentives for	(1) Common preferential	(1) Corporate income tax	(1) Corporate Tax:
	System	manufacturing;	treatment	(a) Productive enterprises	- Tax rate: 25 % (and more
	An investing foreign	industry	(a) Encouraged enterprises	are exempted from	than 25 % for petroleum,
	capital is exempt from the	(a) Pioneer-status	are exempted from	corporate income tax for	gas, and exploitation of
	income tax for a period of	companies are granted	corporate tax for three to	two years after they show	rare or valuable natural
	three years after starting its	corporate income tax credit	eight years.	profits, and 50% exempted	resources)
	operations. An exemption	of 70%	(b) Import tax and	for the following three	- Capital gain and dividend
	of taxes on the income	(b) Companies granted	enterprise tax exemptions	years.	received shall be included
	from the benefit of	investment tax credit are	for facilities, equipment,	(b) Advanced technology	into taxable income.
	exportation is allowed up	granted credit of 60% of	and raw materials required	enterprises are 50%	- Losses are possible to
	to a maximum of 50%.	their qualified capitals.	for plant construction	exempted for a further three	carry forward for 5 years in
	Those machines and	(2) Manufacturing industry	approved by the BOI.	years.	principle.
	apparatuses which have	companies located in	(2) Preferential treatment is	(c) Export enterprises are	Depreciation on fixed rate
	been imported during the	industry promotion areas	available for investments	50% exempted for an	method are as follows:
	construction period will	can enjoy the benefit of	in investment promotion	indefinite period.	- 30 % for intangible assets
	have their custom duties	these incentives for 5%	areas.	districts, technology	- 5 to 15 % for building and
	exempted. Besides. custom	deduction from their	(3) Incentives for plant	Exempted for an indefinite	structures
	duties will be exempt on	incomes over a period of	location in remote areas	period.	- 10 to 20 % for machine
	the importation of those	five years.	vary in the three areas.	(2) Local income tax	and equipment
	raw materials which are to	Export encouragement	(4) Export tax, import tax.	(a) Special economic	- 10~18 % for vehicles
	be imported for production	system	and enterprise tax	economy and development	- 20 % for office equipment
	during a period of the first	(a) An export credit.	exemptions for raw matcrial	districts: from local income	(2) Sales Tax:
-	three years after	refinance system is	imports and product exports	lax	- 1 to 40 % of sales tax
	completion of the	available. in which The	by the exporting industry.	(b) Open economic districts	shall be imposed for every
	construction.	Central Bank of Malaysia	(5) Remittances and foreign	and other areas: 3°/O	transaction of goods and
· · ·	(2) Remittance	Finances exporting	currency	taxation depending on the	services except for
	The foreign currency which	companies at a preferential	foreign currency exceeding	dístrict	subjects of agricultural tax
	a person has personally	interest rate.	expatriation	(3) Customs duty	and special sales tax.

Source : Engineering Consulting Firms Association and JICA Study Team

Annex 3:

TABLE COMPARISON OF INDUSTRIAL ESTATE IN SOME ASIAN COUNTRIES

												ſ
				taubal	Industrial Water				Power Supply			
Country	Industrial Estate Name	Location	Capacity	Unit	Charge	Unit	Capacity	Unit	Voltage	Phase	Charge	Unit
Thailand	Prachinburi Industrial Park	Prachiaburi	20,000	ά∎p/,uz	10.00	bahk/m:*	100	MVA	22KV	e		
	TPI industrial Rayong	Amphur Muang, Rayong	1,000	m²/day	11.00	baht/m'				3		
	Siam Eastern Industrial Park	Mabyangporn Pluakdaeng. Ravone	9,500	yab/'m	00'6	babt/m	100	V/W	11/33KV			
	Siam Content Industrial Land	Amphur Nong Khae Saraburi Province	10,000	m²/da y	8.00	baht/m²	90 100	MVA	22KV	e		
Malaysia	Lion Industrial Park	Shah Alam, Selangor Darul Ehasan			1.04	S/m*			33/11KV/415V	3,1	91.0	S.K.Wh
	Senawang Industrial Park	Senawang, Negeri Sembilan			0.65	\$/m°			33/11KV/415V	3,1	0.16	SAWh
	Batu Berendam Free Zone	Batu Berendam, Melaka			0.70	S/m'			33/11KV/415V	3.1	0.16	\$AWh
	Senai Industrial Estate, Phase3	Senai, Johor			1.20	S/m2			33/11KV/415V	3,1	0.16	S AWh
	Kanthan Industrial Estate Phase4	Ipoh, Perak			0:90	S/m'			33/11KV/415V	3,1	0.16	\$/KWh
	Bayan Lepas Industrial Estate Phased	Bayan Lepas, Penang			0.76	\$/m,			33/11KV/415V	3,1	0.16	SÆWħ
	Bandar Danulaman Industrial Eatate	Jitra, Kedah Daruhanan			0.86	,ut/\$			33/11KV/415V	3,1	0.16	SÆWb
	Kuantan Port Industrial Land	Kuantan, Pahang			0.92* 0.84**	\$/m*			33/11KV/415V	3,1	0.16	S/KWh
	Al Mukturfi Billah Shah Industrial Ketengah, Estute	Kelengah, Terengganu			0.88	,ш/\$			33/11KV/415V	3,1	0.16	S/KWh
	Sejingkat industrial Park	Kuching, Sarawak			0.97***	S/m²		-	33/11KV/415V	3.1	0.24	S.K.W.h
	Sandakan Industrial Estate Phase2B	Sandakan, Sabah			06:0	% m,			33/11KV/415V	3,1	0.32	S/EWh
	*: less than 227m3, **: more than 227m3, ***: 1-25m3	22/m3, ***: 1-25m3										
Philippines	First Cavite Industrial Estate	Langkaan, Dasmarinas, Cavite	10,000	γ#þ/tπ	7.20	Револт			34.5KV	3	2.426**	Peso/kW h
	Angeles Livelihood Complex	Puluing Cacutud, Angelos City	30	gailon/min.	6.00	Peso/m'	63,000	КW	230V	3		
	Holy Angel Industrial Estate	Bacolor, Pampanga	450	gallon/min.	3.85	Peso/m²	34,000	КW	V0E2	3		
	Phividec Industrial Estate	Tagoloan, Misamis Oriental	12,000	γ∎b/¢m	2.25*	Penoim	50,71	ΜM	138KV	3		
	*: -10,000/m3	** not included cost of electronic supply	onic supply									

Table Comparison of Industrial Estates in Some Asian Countries

				Industr	Industrial Water				Power Supply	2		
Country	Industrial Estate Name	Location	Capacity	Unit	Charge	Unit	Capacity	Unit	Voltage	Phase	Charge	Unit
Indonesia	Kaltim Industrial Estate	Bontang, Kahim			1.00	S/m'	121	ΜM				
	Pt.Kawasan Industrial Medan	Jo Medan, North Sumatra	1,080	m'h	1850.00	Rp./m²	830	ΜM	380V/20KV	3		
	Pr.Krakatau Industrial Estate Cüegon	Gatol Subrolo Kav. Jakarta	2.00	no²/sec.	1500.00	Rp./m				3		
	Ngoro Industrial Park	Ngoro, Mojokerto	0.03	m³/sec.	1000.00	Rp./m'	10	MVA	220/380V	3		
India	Furidabad Ind.arca-58/59	Faridabad, Haryana							66/11/33KV	~	40*/50** Rp./XWh	Rp./KWh
	*; less than 70kWh **: more than 70kWh	70k.Wh								 		
Pakistan -	Multan Industrial Estate	Multan, Punjub			70Å ^{-300*}	Rp./m'						
-	*: dependent on thickness of the pipe	8										
Sri Lanka	Industrial Estate Karandeniya	Karandeniya. Ambalangoda	10,000	gallon/day	2.22	Rp./m'	250	kva	400V			
	Pallekele Free Trade Zone	Pallekele, Kandy			0.41	\$/m2	12MVA					
	Industrial Estate Pallekelle	Pallekeile, Kandy	100,000	gallon/day	5.00	Rp./m'	1,250	kva	400V	3		
	Source: Industrial Estates in the World (Vol. Asia & Oceania), JETRO, Information Service Division, March 1995	World (Vol. Asia & Ocea	nia), JETRO, L	nformation Serv.	ice Division, Ma	vrch1995						

a <mark>di bangan sana</mark> Mengerakan sebe

Table Comparison of Industrial Estates in Some Asian Countries

Note: Currency exchange rate as of 1 Jan. 1995

1 Rupiah = 0.0465 Yen	1 Rupee =3.51 Yen	1 Pakistan Rupee = 3.45 Yen
Indonesia:	India	Pakistan
Thailand: 1Baht = 4.02 Yen	1MS=39.34 Yen	Philippines: 1 Peso=4.13 Yen
Thailand:	Malaysia:	Philippines:

Sri Lanka 1 \$=99.55 Yen

