		ت المراجعة العربية العربية العر		GEOL	OGICAL	REC	ORD OF BORING	Date o	f Dri	lling:	25/	04/	200	ō	
Projec	t		Galle I	Port Dev	elopment	t Proied		Angle					*** ** * ***	0	
Bore H	lole N	umber			BH 07	Depth	of Hole (m)	8.92	• • • • •		., v		/		
Groun				:		•	to the ground water level (m)								
\$		ole (mr		•	100										
Drilled		ve (uu	<u>nj</u>	•	GBME	Logge	d By	BSY							
Dimec	ы			<u>.</u>	ODIVIL	IL OUGS	a by								
		·····	·					1	Stand	ard Pe	notr	tion	Ta		
	Eleva- tion		Thick-			Field Of	bservations		Stand		Tetra		1163	ы Г. С.	
				Column	Soil / Rock			Depth					1		
	(m)	Depth	ness		í		De a culu Ai cu		(N)		20			ا د م	
	-11.75	(m)	(m)	Section	Classifn.	Colour	Description	<u>(m)</u>	(14)		20	50	40	50	οv
0.50									~~					j	
1.00					ML		Very soft to very stiff very fine sand	0.70	20	-+-	4				
1.50						brown	mixed with silt and mica	4.70	0.5	-/			Ļ		
	-13.51	1 76	1.76	··· · · · ·		<u> </u>		- 1.70	05	-1-1					
2.50					CL	ł	Soft to medium stiff, slightly to			-		ļ		ļ	
3.00		1	1.		ł	1 .	moderately plastic clay mixed with small	2.70	- 03	4	+	 -	<u>↓</u> ¦		
3.50	-15.45	3 70	1.94				amount of sand and gravels			+	-	 		f	•••••
4.00					CL/ME		Medium stiff slightly plastic clay mixed	3.70	07		<u> </u>				.
4.50		4.66	0.96			Red Br.	silt and small amount of sand and gravel					 	<u> </u> !	 	· ·
5.00	[4.70	14			ļ	Ļ		į
5.50]				ļ		Completely decomposed rock in the form						 	!	1
6.00					ML	ish bro-	of stiff to very stiff slightly plasic clayey	5.70	16		L.			• •	
6.50	}					wn to	silt mixed with mica				∇	<u> </u>	<u> </u>	:	1
7.00	1		ł			grayish		6.70	36			N	ĺ.		
7.50	-19.45	5 7.70	3.04			brown									
8.00	-19.62	2 7.87	0.17		ML/SM	Gray	Highly decomposed rock in the form of	7.70	>50				$[\ \]$		1
8.50) .						hard / extremely dense slightly plastic	- i - i	14cm			1.		I	
9,00	-20.67	7 8.92	1.05				clayey silt / silty sand mixed with mica	ا				, ·			
9.50	2			\square	Ch Gn.	Gray	Slightly weathered bed rock					1	Ľ		
10.00	ק		1				CR = 69% RQD = 42%							i 	
10.50	วิ.													1	
11.00	ק											Ţ			
11.50	5						· · · · ·							:	1
12.00	5												Ţ.,		1
12.50	วี		1						1 · ·		- <u> </u>		- T	1	1
13.00	5		ļ	1				ļ				1	T		
13.5	5	1				1	Bore hole terminated at 7.87m below the	ĺ					1		1
14.0	5						sea bed on highly weathered bed rock		1		- <u> </u>	-			
14.5			ļ					İ				Ī		1	
15.0	0		1			1		ł				T	Ţ		1
15.5	ō	·		1		ļ		ļ					J		1
16.0	0	1 ·				ļ		1			- T -	Ţ	T		
16.5		1	1		l	- 1	1		. ·					1	1
17.0		4	l		1		1	ľ	1			-	1	1	
17.5					1								1	•	
18.0		ĺ									1	1	1	····	
18.5		1	1								_		Τ-	" "	
19.0	_		ł				ļ.						-†		·· -
19,5		ļ		1		1				†		· †	1		
20.0	_			ļ	ļ			·		+			• •		ł.
20.9					1	l								4	
20.	{	ł		1	ł	1		ļ			.	•	·	1	
21.				ł		ł				. [+		•		;	
22.0		1.	1						1				-+	•	
22.											-+			- 1 -	+
23.		1							1	├†		-+		·	÷
			- ¹							<u> </u>			-	nie jam	

Figure A.3.4.1 (8) Borehole Log BH7

<u></u>	an a			GEOL	OGICAL	. REC	ORD OF BORING	Date o	of Dri	illing	g: (7/0	5/20	000	
Projec	t				elopment	Projec	t	Angle	fron	n the	e ve	rtic	al:	0	
Bore I	lole N	umber		:	BH 08		of Hole (m)	2.20				•			
	d Ele.			* •		Depth	to the ground water level (m)								
Dia of		ole (mr	n)		100										
Drilled	l by			<u>:</u>	GBME	Logge	ed By	BSY				ماحكم	Managan a		
											-	1			
	Eleva- tion		Thick-			Field O	bservations	,	Stand	lard	Pene	etrat	ion I	est	<u> </u>
	(m)	Depth	ness	Column	Soil / Rock			Depth							
0.00	-11.50	(m)	(m)	Section		Colour	Description	(m)	(N)	0	10 2	0 3	0 40	50	60
0,50	-11,00						Soft very fine sand mixed with silt mica		1						-
	-12.70	1,20	1.20		ML	1 .	and sea shells	1.00	>50						
1.50					Ch. Gn.	+ Gray	Slightly weathered bed rock	-{	20cm						
2.00	-13.70	2.20	1.00				CR = 73% RQD = 65%								
2.50		1		<u> </u>		+		1						· · ·	_
3.00			1		1		Bore hole terminated at 2.20m below the			.					+
3.50 4.00	4 .		ļ		1		sea bed in slightly weathered bed rock	1			┝╼╋	+		+-	+
4.00	4	1		į .			and an enging mentioned bed for				<u>├</u> ─-†	-+			-
5.00	4	1		l l	ļ										-
5.50	-		1]	1	1	1						1		
6.00								1							
6.50							· ·	ĺ	ł		_			-	<u> </u>
7.00	-								ļ						
7,50	н.					1			1	-		-+	·		
8.00		ł	ļ	1 .								•	<u>-</u> +		+
9.00	~	1				}				-					-
9.50		ŀ										ĺ			
10.00		· ·													_
10.50	**	ł		}								·			
11.00								ł							
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15.0 15.5			ł	ļ		i k		į	1		+	 	╞╼┼		
15.5				· · ·	ł	1						<u> </u>			
16.5								ł							
17.0		ĺ					· •					[
17.5						1				<u> </u>		<u> </u>	¥		
18.0			ł	ļ						⊢	+	┨	╞╌┤		+
18.5				1						·	+	+	┼╌┤	-+	
19.0 19.5				l.						-		+	+	 	
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20.								1	ļ						
21.									İ				\square		
21.				ł	. 										
22.				ł						-		-	1-		-+
22.												┽─	+		
23.	<u>, , , , , , , , , , , , , , , , , , , </u>			<u> </u>		· · ·					1			استيما	<u>L</u>

Figure A.3.4.1 (9) Borehole Log BH8

ſ	<u>an an u>	an an an an an an an an an an an an an a		GEOL	OGICAL	REC	ORD OF BORING	Date o	of Dr	illind	1: 2	26/()4/2	200	0	
Projec	······	•	Gaile	Port Dev	elopment	Projec	t	Angle		*******					0	·, -
Bore I	Hole N				BH 09	Depth	of Hole (m)	1.00								
Groun			······	:	_,		to the ground water level (m)									
Dia of				:	100	behu	to the ground mater to set (m)									
Dia of	the no	ne (m	11)	:		Logge	d Bv	BSY								
Dimet	гру				ODIVILS	Logge										
<u> </u>	Eleva-								Stan	dard	Pen	etra	tion	Te	st.	
	tion		Thick-			Field O	bservations			T		T				[
	(m)	Depth		Column	Soil / Rock			Depth					ļ	1		
0.00	-11.80	(m)	(m)	Section	Classifn.	1 1	Description	(m)	(N)		10	zo k	30	40	50	60
0.50					Ch Gn	+	Slightly to moderately weathered bed		<u> </u>				•-		• •	
	-12.80	1.00	1.00				rock. Cr = 58% RQD = 15%									1
1.50	the second second second					1			1							
2.00	4					1										
2.50	1						Bore hole terminated at 1.00m below the		1						•	ļ
3.00]					1	sea bed in slightly to moderately									-
3.50	-1						weathered bed rock		1	Ŀ			•••••	-		
4.00	-							1						ļ		
4.50	-		ļ			1								 		
5.00		1	1	1	1	1								ļ	ŀ	
5,50	-															+
6.00 6.50				ļ											· · · · ·	
7.00	_	ł													-`	+
7.50							· · ·		1					+		+
8.00														†—-	1	- +
8.50	-	1							1					†	••••=•• •	- -
9.0														1	1	
9.5	ō,						·							<u> </u>	1. 4	
10.0	0 .											ļ			1.	
10.5		1.	1									. 		Ŀ		
11.0	-1							•			<u> </u>	<u> </u>	<u> </u>	· . 	. _	. [
11.5		}									<u> </u>				ļ. ;	
12.0										ļ				.		i
12.5 13.0										.						
13.5			1									<u> </u>	<u> </u>		- -	
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14.5				1	1					}	†	÷	ţ.	1		
15.0											1	+	+		1	
15.5				1							1	1.	<u>†</u> .	-	1	· [
16.0	mend.									-					1	1
16.5						ł			1				Γ	Ι]	
17.0								· ·						-		
17.5				ł							L	.ļ		1	ľ	
18.0	_										<u> </u>		_ _	·		· •
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20.9						ļ					+	+	+-			· .
21.					1					·	-			•	1	
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22,		1		ļ	1						+		1.			I
23.								·					T		1	

Figure A.3.4.1 (10) Borehole Log BH9

Appendix 4.6.1 Duties of the Ports Authority

Nine duties of the Ports Authority defined in the Act

Among them, 1) and 2) specify the services to be provided, 3) to 7) the regulation and control of port activities and 8) and 9) the Authority to be self supporting.

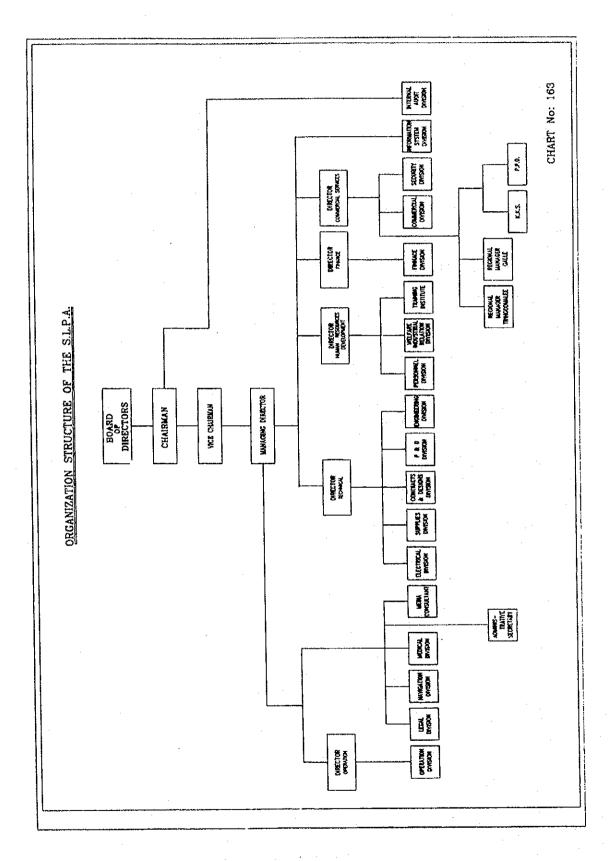
- 1) To provide in any specified port, efficient and regular services for stevedoring, lighterage, shipping and transshipping, landing and warehousing; for wharfage, the supply of water, fuel and electricity to vessels, for handling petroleum, petroleum products and Lubricating oils to and from vessels and between bunkers and depots; for pilotage and the mooring of vessels : for diving and under-water ship repairs and for other services incidental thereto;
- 2) To provide in any specified port, efficient and regular tally and protective services;
- 3) To regulate and control navigation within the limits of, and the approaches to the specified ports;
- 4) To maintain port installation and promote the use, improvement and development of the specified ports;
- 5) To co-ordinate and regulate all activities within any specified port excluding the functions of the Customs:
- 6) To establish and maintain on and off the coast of Sri Lanka such lights and other means for the guidance and protection of vessels as are necessary for navigation in and out of the specified ports;
- 7) To perform such other duties as are imposed on the Ports Authority by this Act;
- 8) To conduct the business of the Ports Authority in such manner and to make in accordance with this Act such charges for services rendered by the Authority as will secure that the revenue of the Authority is not less than sufficient for meeting the charges which are proper to be made to the revenue of the Authority, to replace assets, make new investments and to establish and maintain an adequate general reserve; and
- 9) To endeavour to manage the specified ports and each of them as a self-supporting enterprise in accordance with the provisions of this Acts.

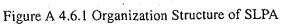
Appendix 4.6.2 Functions of Divisions in the Ports Authority

Functions of divisions in the Ports Authority are set out as follows;

- 1) Operations Division: To provide services for stevedoring, lighterage, shipping, transshipping, landing and warehousing of cargo; operation and management of Container terminals; supply of fresh water to ships, hiring out of cargo handling equipment, and other services incidental thereto.
- 2) Engineering Division: To maintain and improve all civil engineering structure, roads, paved areas, maritime facilities and to acquire, fabricate and maintain plant/machinery and floating craft required for operational activities and provides all other engineering services to meet the needs of the Ports Authority.
- 3) Planning & Development Division: To provide planned development of the Ports coming under the purview of the Ports Authority and implement such developments in case of foreign funding.
- 4) Contract & Design Division: To prepare a contract of project, proceed with basic design and oversee project progress in case of domestic funding.
- 5) Electrical Division: To play same function as Engineering Division concerning Electrical & Electric Engineering.
- 6) Supplies Division: To effect purchases (local and foreign) and supply all plant/machinery equipment, spare parts and all other general stores items required for the operational activities of the Ports and their maintenance.
- 7) Navigation Division : Piloting of ships in and out of harbour, berthing of ships, providing services of tugs and floating cranes;
- 8) Personnel Division: To manage and control recruitment, determine terms and conditions of service of all personnel including labour and non-labour, maintain good and proper industrial relations and provide adequate welfare facilities.
- 9) Welfare & Industrial Relations Division: To introduce and develop new concepts of social welfare for high standard of quality of life of families in the Ports; as welfare measures, economic welfare, medical welfare, training & educational welfare, housing & property welfare, safety & insurance welfare, transport welfare, sports welfare, welfare for service appreciation, religious welfare, asthmatic development welfare and welfare for common services are provided.
- 10) Commercial Division : To ensure proper documentation as well as the systematic delivery of import cargo after recovery of wharfage charges, rent and other charges according to the tariff; speedy checking of service certificates for billing on stevedoring services; maintenance of bonding services; disposal of claims from importers; sale of uncleared cargo, unserviceable assets and old equipment by auction or tender; registration of clearing agencies and wharf clerks operating in the Ports; provision of regular tally services on vessels; drawing up of cargo storage plans and bay plans; surveying of bad order cargo on vessels.
- 11) Security Division: To protect and safeguard the property of the Ports Authority, all cargo, ashore and afloat; provide on board security services, warehouse security, etc.
- 12) Information System Division: To set up efficient information systems for improving port management and operation by enhancement of the computer facilities and development of application systems.
- 13) Medical Division: To organize, manage and provide medical services and facilities to personnel of the Ports Authority.

- 14) Training Institute: To provide systematic training to meet the requirements of the Ports Authority and administer and control SLPA Training Institute.
- 15) Legal Division: To attend to all legal matters and matters related to Board of Directors of the Ports Authority. The chief law officer also functions as the secretary to the Board of Directors.
- 16) Finance Division: To carry out the financial management of the Ports Authority by directing and coordinating the work of accounting staff and by designing and maintaining accounting systems adequate to the needs of the organization.
- 17) Administrative Secretariat: To co-ordinate the day-to-day administration work of the Ports Authority and attend to all matters pertaining to Real Estate of the Ports Authority and the allocation of SLPA quarters.
- 18) Internal Audit Division: To review and appraise the soundness, adequacy and application of accounting procedures and financial controls in the organization and ascertain the extent of compliance with established policies, systems, programs and procedures of such financial controls.
- 19) Media Consultant: To be a spokesman of SLPA.





A-4-4

	Table A4.	6.1 Member	S OI BO	oara oi	Directors		
Post		Function			Appoir		
Chairman	Chief E	Executive of SL	LPA		nistry of Por abilitation ar (MOF		
Vice Chairman	Supp	ort to Chairma	n		(MOP		
Managing Director	Direc	tion of busines	ss		(MOP	·····	
		rative control of	of the				
		employees	······		() (00		
Working Director Director					(MOP (MOP		
Director					(MOP		.,
Director	(Director	General of Cus	stoms)		Sri Lanka		
Director	(Deputy	Director of Fi Division, Gene Treasury)	iscal		Ministry o	f Finance	
Director		n of Ceylon Fis Corporation)	sheries		Ministry o	f Fisheries	
Table A4.6.3 Numbe	r of Emplo	yee in SLPA Executive	Non-La	······	ts of 29, Fel Technical	oruary, 200 Labour)0) Total
Division/Grade	·····		INOU-L'A		2	<u></u>	
Operations		60		2,671		3,286	6,0
Commercial				532	-	44	
Personnel		. 14		244	*	1	2:
Welfare & Industrial R	telations	.9.		354	2	-	- 30
Secretariat	· · · · ·	12		125	-	5	14
Contracts & Designs		24		105	10	10	l
Engineering		108		1,082	1,555	1,269	4,0
Supplies		12		252	2	68	3
Electrical			*****				
Planning Div.		4		36	183	147	3
		4	· · ·	36 66	183 9	147 28	
Training Institute							1
Training Institute Internal Audit		20		66	9	28	1
		20 44		66 120	9	28 19	1 1 1
Internal Audit Medical		20 44 11		66 120 110	9	28 19	1 1 1
Internal Audit		20 44 11 7		66 120 110 68	9 12 - -	28 19 -	1 1 2,1
Internal Audit Medical Security		20 44 11 7 38		66 120 110 68 2,066	9 12 - - 5	28 19 - 15	1 1 1 2,1 i,4
Internal Audit Medical Security Harbour Master		20 44 11 7 38 58	: 	66 120 110 68 2,066 381	9 12 - - 5	28 19 - 15	1: 1: 1: 2,1: 1,4: 7
Internal Audit Medical Security Harbour Master Finance		20 44 11 7 38 58 66		66 120 110 68 2,066 381 726	9 12 - - 5	28 19 - 15	1 1 1 1 1 1 2,1 1,4 7
Internal Audit Medical Security Harbour Master Finance Legal		20 44 11 7 38 58 66 9		66 120 110 68 2,066 381 726 38	9 12 - - 5	28 19 - 15	1 1 2,1 i,4 7
Internal Audit Medical Security Harbour Master Finance Legal Information System		20 44 11 7 38 58 66 9 42		66 120 110 68 2,066 381 726 38 40	9 12 - - 5 918 - - -	28 19 - - 15 112 - - -	3 1 1 1 1 2,1 i,4 7 17,2 7
Internal Audit Medical Security Harbour Master Finance Legal Information System Colombo Sub Total		20 44 11 7 38 58 66 9 42 555		66 120 110 68 2,066 381 726 38 38 40 9,016	9 12 - - 5 918 - - - - 2,698	28 19 	11 1 2,1 1,4 7 17,2

Table A4.6.1 Members of Board of Directors

			Meal Time	Days in a Year	in a Year
Pilotage	24 hours	1 pilot:730 – 730 2 nilots:830 – 830	Non	1	May Day
Break Bulk Cargo Operation	(day)730 - 1630	2 shifts	1200 - 1300 2400 - 100	2	New year's Day & May Day
(stevedoring/longsnoring) Container Loading/	(day)700 - 1800	2 shifts	1200-1230	- Bread	May Day
Unloading	(night)1800 – 700		CICI - 10CI		
			2300 - 2315		
			400 - 415		
Container Handing	(day)700 - 1800	2 shifts	1200 - 1230	1	May Day
(marshalling/stacking containers)	(night)1800 - 700		2100 - 2130		
			2300 - 2315		
•			400 - 415		
Stuffing/Dectuffing	(dav)730 - 1630	2 shifts	1200 - 1230		May Day
Containers	(night)1630 - 630		2100 - 2130		
CONTRACTOR			630 - 730		
Delivering/Receiving Cargoes	(FCL) 24 hours	I shift	Working is based on		May Day
	(LCL) 730 – 2100		Customs Schedule		
Gate Operation of CY	(day)730 - 1730	2 shifts	Non	-1	May Day
	(night) 1730 - 2100,	day & night			
111 - D	24 hours	1 shift	1200 - 1230	1	May Day
water suppry	730-1900	l shift	1200 - 1230	-	May Day
Carbage Concertor: Customs Clearance	900 - 1645	1 shift	1200 - 1230	Saturday, Sunday, (Saturday, Sunday, Government Holidays
	available till 2200	•		•	
	upon request				Tralidana
Quarantine Inspection	900 - 1645	l shift	No	Sunday, Gover Sameday's we	Sunday, Government Holidays, Seturday's work linon reallest
	if necessary 24 hrs.		0001 0001	Contrador Conder	Consumment Unlide
Office Work of the Ports Authority 900 – 1715 1 shift 1230 – 13	900 - 1715	l shift	1230 - 1300	Saturuay, Sunuay,	Saturday, Sunday, Coverninent Libridays

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Table A4.6.4 Share of Employe	ees in SLPA	(as of 29, Feb	огиагу, 2000))
Division/Grade	Executive	Non-Labour	Technical	Labour	Total
Operations	0.3%	14.0%	0.0%	17.2%	31.5%
Commercial	0.1%	2.8%	-	0.2%	3.1%
Personnel	0.1%	1.3%		0.0%	1.4%
Welfare & Industrial Relations	0.0%	1.9%	0.0%		1.9%
Secretariat	0.1%	0.7%	-	0.0%	0.7%
Contracts & Designs	0.1%	0.5%	0.1%	0.1%	0.8%
Engineering	0.6%	5.7%	8.1%	6.6%	21.0%
Supplies	0.1%	1.3%	0.0%	0.4%	1.7%
Electrical	0.0%	0.2%	1.0%	0.8%	1.9%
Planning Div.	0.1%	0.3%	0.0%	0.1%	0.6%
Training Institute	0.2%	0.6%	0.1%	0.1%	1.0%
Internal Audit	0.1%	0.6%			0.6%
Medical	0.0%	0.4%	-	-	0.4%
Security	0.2%	10.8%	0.0%	0.1%	11.1%
Harbour Master	0.3%	2.0%	4.8%	0.6%	7.7%
Finance	0.3%	3.8%	-	-	4.1%
Legal	0.0%	0.2%		-	0.2%
Information System	0.2%	0.2%		-	0.4%
Colombo Sub Total	2.9%	47.2%	14.1%	26.2%	90.4%
Galle	0.1%	1.2%	0.5%	2.3%	4.0%
Trincomalee	0.1%	2.2%	0.6%	2.6%	5.6%
Total	3.1%	50.6%	15.2%	31.1%	100.0%

	of Public Terminal

Case	Vessel	Reserved	Actual	Pr	iority	Remarks
	i.	Time	Arrived Time	Vacant Berth	Occupied Berth	-
Case 1	Vessel 'A'	6:00	6:00	2 nd	1 st	Within 4 hours deviation from original time, the
	Vessel 'B'	9:00	5:30	1 st	2 nd	Priority remains.
Case 2	Vessel 'A'	6:00	6:00	l st	1 st	Over 4 hours deviation from original time, the
	Vessel 'B'	9:00	4:00	2 nd	2 nd	Priority doesn't remain.

			:		(In th	ousands)
Year	Galle	Matara	Hambantota	Southern	Share of	Sri
				Province	South	Lanka
	(a)	(a)	(a)	Sub-total	(%)	(b)
1989	922	757	502	2,181	13.0	16,825
1990	932	765	510	2,207	13.0	16,993
1991	946	776	517	2,239	13.0	17,247
1992	. 958	786	524	2,268	13.0	17,405
1993	971	797	531	2,299	13.0	17,619
1994	983	810	537	2,330	13.0	17,865
1995	999	826	549	2,374	13.1	18,112
1996	1,007	832	549	2,388	13.0	18,315
1997	1,019	842	554	2,415	13.0	18,552
1998	1,030	852	558	2,440	13.0	18,774

Table A.6.1 Population of Sri Lanka and Southern Province

Source : (a) Registar General's Office

(b) Department of Census and Statistics, Ministry of Finance & Planning

Table A.6.2 Annual Growth Rate of GDP in Sri Lanka and Southern Province at 1990 Constant Prices

Year	Sri Lanka	Growth	Southern	Growth	Share of
		Rate	Province	Rate of	South
an di san Aria. An ang ang ang	(Rs.Million)	(%)	(Rs.Million)	South (%)	(%)
1990	317,904	6.2	30,064		9.5
1991	333,230	4.8	33,885	12.7	10.2
1992	347,822	4.4	34,707	2.4	10.0
1993	371,876	6.9	37,423	7.8	10.1
1994	392,884	5.6	38,507	2.9	9.8
1995	414,608	5.5	40,357	4.8	9.7
1996	430,186	3.8	41,728	3.4	9.7
1997	457,905	6.4	44,410	6.4	9.7
1998	479,653	4.7	1		

Source : National Planning Department (At Constant-1990-Price), Ministry of Finance & Planning

NO	ITEMS	Jan %	July %	Average
100	Food Stuffs	29.60%	22.62%	26.11%
101	Potatoes	5.30%	4.95%	5.12%
102	Beans	4.90%	0.33%	2.62%
103	Onions	2.90%	4.81%	3.86%
104	Rice	2.50%	0.55%	1.52%
105	Fish	1.80%	1.52%	1.66%
106	Suger	1.70%	1.45%	1.58%
107	Maize	1.60%	0.00%	0.80%
108	Fruits	1.30%	0.53%	0.92%
109	Flour	1.20%	0.84%	1.02%
110	Dairy Products	1.10%	1.54%	1.32%
111	Seeds	0.80%	0.30%	0.55%
112	Fish Meal	0.70%	0.28%	0.49%
113	Beverage	0.70%	1.17%	0.93%
113	Spice	0.40%	0.67%	0.53%
115	Seasoning	0.30%	0.00%	0.15%
115	Other Foodstuffs	2.40%	3.69%	3.05%
20	Consumer Goods	29.50%	22.52%	26.01%
20	Household Goods	1.60%	1.14%	1.37%
22	Personal effects	1.00%	2.79%	1.89%
23	Furniture	0.50%	0.69%	0.60%
24	Household Electricals	0.30%	0.60%	0.45%
24	Garments	0.30%	0.74%	0.47%
26	Miscellaneous	25.90%	16.56%	21.23%
30	Metal	6.80%	7.16%	6.98%
31	Iron and steel products	5.10%	3.96%	4.53%
31	Copper products	0.80%	0.29%	0.54%
33	Zinc products	0.40%	0.00%	0.20%
33	Other metal products	0.50%	2.92%	1.71%
40	Ceramics	0.90%	1.20%	1.05%
40	Tiles	0.60%	0.89%	0.75%
42	Sanitary wares	0.20%	0.05%	0.12%
43	Other ceramics	0.10%	0.26%	0.18%
50	Glass	0.90%	1.45%	1.18%
51	Float glass	0.70%	0.68%	0.69%
52	Other glass products	0.20%	0.78%	0.49%
60	Construction meterials	2.70%	4.26%	3.48%
61	Other con. met.	1.40%	2.97%	2.18%
62	Plywood	0.70%	0.31%	0.50%
63	Sheets	0.60%	0.99%	0.79%
70	Chemicals	6.40%	6.74%	6.57%
71	Polythylene	0.90%	2.03%	1.46%
72	Liquid Chemicals	1.40%	0.11%	0.75%
73	Nylon Products	0.20%	0.26%	0.23%
74	Plastic Products	0.20%	0.92%	0.56%
75	Other Chemical Products	3.10%	3.26%	3.18%
76	Resin	0.60%	0.17%	0.38%
/0		0.00%	0.1770	0.5670

Table A.6.3 Import Container Cargo Volume through Colombo Port in 1999 (1)

NO	ITEMS	Jan %	July %	Average
80	Textile Industries	4.80%	7.38%	6.09%
81	Fabric	2.70%	2.35%	2.53%
82	Polyester	0.90%	2.23%	1.56%
83	Garment Accessories	0.20%	0.89%	0.54%
84	Raw Cotton	0.10%	1.06%	0.58%
85	Yarn	0.60%	0.72%	0.66%
86	Textile Machinery	0.20%	0.04%	0.12%
87	Hangers	0.10%	0.10%	0.10%
90	Papers & paper boards	3.50%	6.54%	4.14%
91	Paper products	3.40%	4.77%	2.58%
92	Paper boards	0.10%	1.76%	1.94%
200	Industrieal Machinary	2.60%	3.78%	1.59%
201	Industrieal Machinary	0.80%	0.57%	0.57%
202	Machine Parts	0.50%	0.34%	0.33%
203	Trectors	0.30%	0.15%	0.28%
204	Electrical parts	0.30%	0.27%	0.52%
205	Electrical appliiances	0.20%	0.74%	0.10%
206	Machine tools	0.20%	0.01%	0.18%
207	Eletronic parts	0.10%	0.16%	0.16%
208	Construction machinary	0.10%	0.23%	0.71%
209	Electronic equipment	0.10%	1.32%	0.49%
300	Minerals	1.80%	0.87%	0.99%
301	Carbon black	1.10%	0.19%	0.74%
302	Calsium	0.20%	0.38%	0.11%
303	Foundry coke	0.10%	0.02%	0.09%
304	Salt	0.10%	0.07%	0.09%
305	Other minerals	0.20%	0.09%	0.16%
306	Kaoline clay	0.10%	0.13%	0.05%
400	Petroleum products	0.90%	0.01%	0.45%
401	Petroleum products	0.80%	0.01%	0.74%
402	Lubricant	0.10%	0.00%	0.39%
500	Feed	0.20%	0.69%	0.47%
501	Animal feed	0.10%	0.69%	0.21%
502	Aquacultural feed	0.10%	0.00%	0.26%
600	Rubber Products	0.50%	0.73%	3.25%
601	Tyres	0.20%	0.31%	0.12%
602	Other rubber products	0.30%	0.42%	0.23%
700	Other Industial Materials	3.00%	6.00%	1.63%
701	Railway equipment	0.30%	0.04%	0.189
702	Office supplies	0.20%	0.16%	0.119
703	Industrial equipment	0.10%	0.25%	2.79
704	Tools	0.10%	0.05%	1.129
705	Instrument	0.10%	0.03%	0.119
706	Other Industial Materials	2.20%	5.48%	1.25%

Table A.6.3 Import Container Cargo Volume through Colombo Port in 1999 (2)

NO	ITEMS	Jan %	July %	Average
800	Vehicles	1.60%	2.15%	0.85%
801	Auto rikshaws	0.30%	0.12%	0.22%
802	Bicycle parts	0.20%	0.30%	0.13%
803	Motor cycles	0.20%	0.09%	0.33%
804	Motor cycles spare parts	0.10%	0.14%	0.54%
805	Bicycles	0.10%	0.06%	0.47%
806	Other Vehicles	0.30%	0.47%	0.54%
807	Vehicle parts	0.40%	0.97%	0.23%
900	Medical care	0.30%	0.84%	2.67%
901	Phamaceuticals	0.20%	0.78%	50.10%
902	Medical supplies	0.10%	0.06%	0.08%
0	Unknown	4.00%	5.05%	4.52%
	TOTAL	100.00%	100.00%	100.00%

Table A.6.3 Import Container Cargo Volume through Colombo Port in 1999 (3)

Import cargo items Item No. Trade partners' areas					(%)
Potatoes (5.51%)	101	Short-sea routes	Southeast Asia	8	0.07%
			Gulf countries	762	6.71%
			South Asia	10,169	89.61%
			sub-totoal	10,938	96.39%
		Total		11,348	100.00%
Beans (4.04%)	102	Short-sea routes	Southeast Asia	665	7.98%
			Gulf countries	325	3.90%
			South Asia	1,681	20.18%
			sub-totoal	2,671	32.06%
		Total		8,331	100.00%
Onions (2.92%)	103	Short-sea routes	Southeast Asia	24	0.39%
			Gulf countries	217	3.62%
·····			South Asia	4,561	75.93%
			sub-totoal	4,802	79.94%
		Total		6,007	100.00%
Rice (2.78%)	104	Short-sea routes	Southeast Asia	144	2.51%
			South Asia	5,583	97.49%
			sub-totoal	5,727	100.00%
		Total		5,727	100.00%
Fish (3.42%)	105	Short-sea routes	Southeast Asia	2,961	42.02%
			Gulf countries	37	0.52%
	·		South Asia	2,105	29.87%
			sub-totoal	5,102	72.41%
		Total		7,046	100.00%
Other foodstuffs (12.54%)	106-116	Short-sea routes	Southeast Asia	3,735	14.46%
			Gulf countries	4,298	16.63%
			South Asia	5,858	22.67%
			sub-totoal	13,891	53.76%
		Total		25,837	100.00%
Metal products (5.83%)	31-34	Short-sea routes	Southeast Asia	2,326	19.34%
			Gulf countries	113	0.94%
			South Asia	5,195	43.21%
			sub-totoal	7,633	63.49%
		Total		12,023	100.00%
Construction materials	61-63	Short-sea routes	Southeast Asia	1,703	31.26%
2.64%			South Asia	891	16.36%
			sub-totoal	2,594	47.63%
		Total		5,446	100.00%
Textile industrial matreials	81-87	Short-sea routes	Southeast Asia	3,924	26.86%
7.09%		-	Gulf countries	232	1.59%
			South Asia	2,214	15.15%
			sub-totoal	6,370	
		Total		14,610	100.00%

 Table A.6.4
 Short Sea Routes Ratio in Container Import through Colombo Port in Jan. 1999

Source: Analyzed by the study team using data from SLPA

A-6-5

11 11 12 0 13 0 14 1 15 5 16 1 17 0 20 F 21 1 22 1	Iantation Products black tea coconut coirs & coir products coconut products excl. coirs fresh coconuts spice nuts other plantation products Rubber Industrial Products tyres raw rubber	42.36% 23.55% 9.68% 6.03% 1.38% 1.48% 0.24% 0.00% 10.76% 4.38%	50.93% 24.47% 10.21% 9.38% 1.58% 2.10% 2.61% 0.58%	46.65% 24.01% 9.95% 7.71% 1.48% 1.79% 1.43% 0.29%
12 0 13 0 14 1 15 5 16 1 17 0 20 F 21 1 22 1	coconut coirs & coir products coconut products excl. coirs fresh coconuts spice nuts other plantation products Rubber Industrial Products tyres	9.68% 6.03% 1.38% 1.48% 0.24% 0.00% 10.76%	10.21% 9.38% 1.58% 2.10% 2.61% 0.58%	9.95% 7.71% 1.48% 1.79% 1.43%
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	coconut products excl. coirs fresh coconuts spice nuts other plantation products Rubber Industrial Products tyres	6.03% 1.38% 1.48% 0.24% 0.00% 10.76%	9.38% 1.58% 2.10% 2.61% 0.58%	7.71% 1.48% 1.79% 1.43%
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	coconut products excl. coirs fresh coconuts spice nuts other plantation products Rubber Industrial Products tyres	1.38% 1.48% 0.24% 0.00% 10.76%	1.58% 2.10% 2.61% 0.58%	1.48% 1.79% 1.43%
14 1 15 s 16 n 17 c 20 F 21 t 22 n	fresh coconuts spice nuts other plantation products Rubber Industrial Products tyres	1.48% 0.24% 0.00% 10.76%	2.10% 2.61% 0.58%	1.79% 1.43%
15 5 16 1 17 0 20 F 21 1 22 1	spice nuts other plantation products Rubber Industrial Products lyres	1.48% 0.24% 0.00% 10.76%	2.10% 2.61% 0.58%	1.79% 1.43%
16 1 17 0 20 F 21 0 22 1	nuts other plantation products Rubber Industrial Products Lyres	0.24% 0.00% 10.76%	2.61% 0.58%	1.43%
17 (20 F 21 (22 1	other plantation products Rubber Industrial Products tyres	0.00%	0.58%	
20 F 21 (22 1	Rubber Industrial Products	10.76%		U 79%
21 1 22 1	tyres		9.97%	10.37%
22 1		4 3 4 7 6 1	3.14%	3.76%
	law lubber	3.93%	2.15%	3.04%
23	other rubber products	2.45%	4.68%	3.57%
	Fextile Industrial Goods	17.16%	15.76%	16.46%
<u></u>		11.68%	12.14%	11.91%
	garment			1.60%
<u> </u>	fabric	1.78%	1.42%	2.10%
	yam	3.31%	0.88%	
	polyester	0.39%	1.32%	0.86%
	Other Light Industrial Goods	7.06%	4.58%	5.82%
	bags	3.23%	1.52%	2.38%
	tents	1.27%	0.07%	0.67%
L.	foot wears	0.59%	0.56%	0.58%
	other finished goods	1.97%	2.43%	2.20%
	Metal	6.58%	3.41%	5.00%
	scrap iron	5.29%	2.55%	3.92%
and the second sec	iron and steel products	0.45%	0.64%	0.55%
53	other metal products	0.84%	0.22%	0.53%
60 I	Minerals	3.66%	0.26%	1.96%
61	silica quartts	1.74%	0.19%	0.97%
62	other minerals	1.92%	0.07%	1.00%
	Ceramics	2.60%	1.91%	2.26%
71	tiles	1.80%	1.70%	1.75%
72	other ceramics	0.80%	0.21%	0.51%
80	Foodstuffs	1.47%	0.98%	1.23%
81	frozen fish	0.32%	0.00%	0.16%
82	other foodstuffs	1.15%	0.98%	1.07%
90	Chemicals	1.80%	4.76%	3.28%
91	polythylene	0.00%	0.21%	0.11%
92	nylon products	0.49%	1,50%	1.00%
93	plastic products	0.75%	0.99%	0.87%
94	other chemical products	0.56%	2.06%	1.31%
	Consumer Goods	1.05%	2.00%	1.53%
101	household goods	0.34%	0.48%	0.41%
102	personal effects	0.13%	0.23%	0.18%
102	furniture	0.07%	0.04%	0.06%
103	household electric appliances	0.01%	0.01%	0.00%
104	miscellaneous	0.50%	1.24%	0.87%

Table	A.6.5	Export	Container	Cargo	Volume through	ı Coloml	bo Port in	1999 (1)

NO.	ITEMS	Jan %	July %	Average
200	Paper and Paper Boards	1.65%	2.17%	1.91%
201	waste paper	1.39%	1.72%	1.56%
202	paper products	0.26%	0.45%	0.36%
300	Industrial Machinery	0.37%	0.84%	0.61%
301	Industrial Machinery	0.31%	0.38%	0.35%
302	electronic parts	0.02%	0.02%	0.02%
303	construction machinery	0.04%	0.08%	0.06%
304	electronic equipment	0.00%	0.36%	0.18%
400	Other Industrial Materials	0.77%	0.94%	0.86%
401	industrial equipment	0.15%	0.40%	0.28%
402	instrument	0.29%	0.00%	0.15%
403	other industrial materials	0.33%	0.54%	0.44%
500	Glass	0.21%	0.65%	0.43%
501	glass products	0.21%	0.65%	0.43%
600	Vehicles	0.53%	0.36%	0.45%
601	motorcycles	0.01%	0.01%	0.01%
602	bicycles	0.15%	0.11%	0.13%
603	vehicles	0.01%	0.13%	0.07%
604	vehicle spare parts	0.36%	0.11%	0.24%
700	Medical care	0.02%	0.04%	0.03%
701	Pharmaceuticals	0.02%	0.04%	0.03%
0 .	Unknown	1.95%	0.44%	1.20%
	Total	100.00%	100.00%	100.00%

Table A.6.5 Export Container Cargo Volume through Colombo Port in 1999 (2)

Table A.6.6	Short Sea Route	Ratio in Container Ex	export through Colombo in Jan. 199	99
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black tea (23.55%) 11 Singapore 13 1 1,356 9.00% metal (6.58%) 51-53 Singapore 13 1 9.93 black tea (23.55%) UAE 22 2 1,850 12.20% India 31 3 2,632 black tea (23.55%) Jordan 26 2 634 4.20% Netherlands 53 5 62 Jordan 26 2 634 4.20% Egypt 71 7 567 U.K. 51 5 7.24 4.80% All routes 4.227 7 715 U.K. 51 5 7.24 4.80% All routes 4.227 Netherlands 53 5 550 3.60% minerals (3.66%) 61-62 indonesia 11 1 82 Italy 54 5 2.478 11.80% Australia 41 4 44 Egypt 71 7 257 1.70% U.		······	Stational 8			·	- /0/)	Carras Itum	N- 1	Discharging D.	No. T	No	MT T	10/22
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Cargo Item			No	No	MT	(%)	Cargo Item				100		(%) 2.30
Senif. Arabin 25 2 1.156 7.60% Netherlands 53 5 62 India 32 3 469 3.00% Inrat 771 7 507 UK, 51 5 124 4.80% Allocat 27 7.15 Cernary 52 5 1.071 1.076 Allocat 3 4.227 Neterization Neterization 5.301 3.60% Allocat 3 4.227 Neterization Singapore 13 1 50 3.00% Allocat 4.227 Neterization Singapore 13 1 5.051 Allocat 3.1 4.061 Neterization 7.1 7.975 5.2064 UK. 5.1 5 5 All costes 7.1.07 7.975 5.2064 Gernary 5.2 5 5 All costes 7.1.21 Singapore 13 1 10.99 16 13 16 <td< td=""><td>black tea (23.55%)</td><td></td><td></td><td></td><td></td><td></td><td></td><td>metar (0.36%)</td><td>31-33</td><td></td><td></td><td></td><td></td><td>62.30</td></td<>	black tea (23.55%)							metar (0.36%)	31-33					62.30
Jordan 20 2 2 104 4.20% Egpt 21 7 95 U.K. 51 5 2.24 4.30% Nett 721 715 U.K. 51 5 7.24 4.30% Nett 721 715 Matherizade 53 5 550 3.60% microtol (3.6%) 61.42 Matherizade 4.227 Nation 53 5 7.60% Matherizade 7.757<			the second second second second second second second second second second second second second second second s											1,50
India 132 3 4 off 300% Inset 122 7 775 Germary 52 5 1,677 11,10% Stort sectors 4,227 Netacinads 53 53,63 3,00% micraits (3,66%) 61-62 Inderssis 11 182 National 54 5 2,748 14,956 Price Price 14 4 4 4,427 National 54 5 2,767 739 1506 Price 14 4			and the second second second second second second second second second second second second second second second						·····					
UK. S1 S2 1.472 1.489 All route 4.217 Intro 1.19 51 55 1.677 11.196 164 1.104 51 5 1.567 1.11 1.850 Intaly 54 5 2.248 1.056									·····					16.9
Germany S2 3 1.677 11.196 Short-set notist . Italy 54 55 550 500 mode Singapore 13 1 52 Italy 54 5 2.384 14.905 Singapore 13 1 52 Italy 54 5 2.384 14.905 Prescient 33 142 Italy 54 5 1.788 1.506 Prescient 34 44 44 Eggent 71 7 735 1.706 Utal 14 44 44 Italy 11 1.996 Prescient 13.11 1.096 Distast 13 1.056 Distast 13 1.056 Distast 13 1.056 Distast 14 14 44 44 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14	· · · · · · · · · · · · · · · · · · ·											/		
Netwission S3 S S30 Jordian Inducesia II 1 82 Nata S3 S 22481 Jordian Pakisan 33 3 142 PRC 64 64 Jordian 41 44 44													4,227	96,4
Intay 54 5 2.238 1.2996 Singpore 13 1 562 Image: PRC 64 6 694 3.036 Austalia 41 4 44 Image: PRC 64 6 694 3.036 Austalia 41 4 44 Image: PRC 7 7351 1706 UK 51										and the second se				66,5
Nation 35 5 5 1.788 1.120% Pakloan 33 3 142 Egyst 71 7 257 1.706 U.K. 51 5 100 Insel 72 7.955 2036 Gernany 52 5 55 All rodes 15,131 92,4096 Japan 61 6 130 conuta of its products 12,14 Singapore 13 1 10306 U.K. 81 8 183 conuta of its products 12,14 Singapore 13 1 727 193 U.K. 81 8 183 conuta of its products 12,14 Singapore 13 1 727 Nigapore 13 1 728 Commany 52 5 599 3.00% Caranits (2.60%) 71.72 Singapore 13 1 727 Netherland 53 5 16 432 4.406% Netreta rowes								minerals (3.66%)	61-62	the second second second second second second second second second second second second second second second se				3.5
PRC 64 6 491 3.30% Australia 41 4 44 Image First 72 7 7935 5.20% U.K. 3 5 105 Image 12 7 7935 5.20% Germany 52 5 55 Image 13 14000 50.05% Taiwan 63 6 134 connus and lip product 12.14 Singapore 13 1.90% U.S. 8 183 17.19% UAE 22 2 1.128 10.30% Cammary 5 393 304 South Africa 9 9 164 Homas 5 5 393 305% Cammary 5 10 12.45 Singapore 13 1 727 Netherlands 33 5 816 7.40% Kawait 2 2 5 10 12.45% 12.24 12.24 2 5 12 12.24 <t< td=""><td></td><td></td><td>Italy</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>23.9</td></t<>			Italy											23.9
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USA 81 8 1,290 28.50% All routes 4,534 93.00%		+	<u> </u>	_	_									
All routes 4,534 93.00%			1	1 1										
			LISA	1 81	1 8	1 1 2 9	0 28 50%							
					8									
Source: Analyzed by the study team using data from SLPA			All route	s			4 93.00%							

Source: Analyzed by the study team using data from SLPA

					('000 M.T.)
Year	Wheat to	Conversion	Flour to	Flour to	Flour total
	Trincomalee	to Flour	Colombo	Galle	Col. & Galle
1989	734.9	477.7	227.8	41.4	269.2
1990	655.3	425.9	335.2	43.3	378.5
1991	669.4	435.1	239.0	32.7	271.7
1992	707.4	459.8	237.3	37.2	274.5
1993	830.3	539.7	238.9	51.4	290.3
1994	864.0	561.6	213.5	45.9	259.4
1995	1,061.0	689.7	188.0	47.0	235.0
1996	871.0	566.2	155.0	48.0	203.0
1997	779.0	506.4	135.0	42.0	177.0
1998	892.0	579.8	97.0	39.0	136.0
1999	861.0	559.7	84.0	34.0	118.0

 Table A.6.7
 Wheat/Flour Handled at the Port in Sri Lanka

Source : Port Statistics by SLPA

Table A.6.8 Sugar Statistics

	Production	Import	Consumption	Per Capita
				Consumption
	(M.T.)	('000 M.T.)	(M.T.)	(Kg)
1989	53,839	409	373,839	20.6
1990	57,165	287	362,165	21.3
1991	66,450	388	424,450	24.6
1992	59,974	372	429,974	24.7
1993	68,603	382	462,603	26.3
1994	72,274	343	563,274	31.5
1995	71,416	431	489,416	27.0
1996	70,114	385	451,114	24.6
1997	63,106	547	608,106	32.8
1998	61,549	333	505,549	26.9

Source : Central Bank, Economic and Social Statistics Port Statistics by SLPA for Import

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		1010 7 1.0.2			•	('000 M.T.)
Year	Total	Tea	Rubber	Coconut	Paddy	Other
	Consumption					Crops
1989	522.2	126.3	22.0	38.5	240.2	95.2
1990	437.1	134.1	22.2	23.6	161.2	96.0
1991	453.7	118.9	13.7	28.8	179.3	113.0
1992	475.8	110.2	13.1	34.3	207.8	110.4
1993	549.1	147.2	17.9	36.1	248.0	99.9
1994	532.6	126.4	17.2	31.2	269.7	88.1
1995	597.6	120.3	14.9	33.6	256.8	172.0
1996	524.2	154.0	16.6	39.1	237.5	77.0
1997	528.8	161.8	12.3	35.0	240.6	79.1
1998	561.4	182.3	15.7	37.7	251.9	73.8

Table A.6.9 Fertilizer Issue for Major Crops

Source : Central Bank, Economic and Social Statistics

Year	Port	Cement Bag	Cement	Clinker	Total
1989	Colombo	75.9	311.2		387
	Galle				
	Trincomalee				
	Total			0.0	387
1990	Colombo	121.4	304.0		425.
	Galle				0.
	Trincomalee				0.
	Total			0.0	425.
1991	Colombo	160.8	200.9		361.
· · · · · · · · · · · · · · · · · · ·	Galle			·	0.
	Trincomalee				0.
	Total		1	0.0	361.
1992	Colombo	88.3	321.8		410.
	Galle			147.7	147.
<u> </u>	Trincomalee				0.
	Total			147.7	557.
1993	Colombo	215.9	332.8	9.9	558.
	Galle			174.6	174.
	Trincomalee		:	204.0	204.
i=i=_	Total		1	388.5	937.
1994	Colombo	223.2	403.1	55.4	681.
<u></u>	Galle	8.8		196.5	205.
	Trincomalee			244.0	244.
· · · · · · · · · · · · · · · · · · ·	Total			495.9	1,131
1995	Colombo	516.0	438.0	48.0	1,002
	Galle	4.0		168.0	172.
	Trincomalee			224.0	224
	Total			440.0	1,398
1996	Colombo	326.0	535.0	10.0	871
	Galle			177.0	177
	Trincomalee			267.0	267
· .	Total			454.0	1,315
1997	Colombo	409.0	490.0	44.0	943
	Galle	28.0		101.0	129
	Trincomalee		1.00 B	326.0	326
	Total			471.0	1,398
1998	Colombo	376.0	515.0	105.0	996
	Galle	52.0		280.0	332
· · · ·	Trincomalee			348.0	348
	Total			733.0	1,676
1999	Colombo	446.0	622.0	113.0	1,181
	Galle	119.0	87.0	174.0	380
	Trincomalee			437.0	437
	Total			724.0	1,998

Table A 6.10 Port Statistics for Cement

Source : Port Statistics by SLPA

			('000 M.T.)
	Year	Iron/Steel	M/Vehicle
	1995	167	54
-	1996	216	43
	1997	204	54
ĺ	1998	251	77
	1999	225	71

Table A.6.11 Port Statistics for Iron/Steel and M/Vehicle

Source : Port Statistics by SLPA

Table A.6.12 Statistics for Maize Consumption and Number of Livestock

Year	Poultry	Maize
		Consumption
	('000 No.)	('000 M.T.)
1993	9,261	113
1994	9,433	117
1995	9,573	115
1997	9,323	113
1998	9,866	156

Source : Central Bank, Economic and Social Statistics 1999 Food Balance Sheet 1992-1996 by Department of Census and Statistics

· ·	1		2	3	4
Year	Produc	tion	Yield		Domestic
	Paddy	Rice	per	Import	Consumption
		Equivalent	Hectare	Rice	Rice
	('000 M.T.)	('000 M.T.)	(Kgs./Ha.)	('000 M.T.)	('000 M.T.)
1988	2,477	1,512			1,670
1989	2,063	1,250	3,374	328	1,544
1990	2,538	1,552	3,453	201	1,724
1991	2,389	1,455	3,398	131	1,693
1992	2,340	1,423	3,428	236	1,673
1993	2,570	1,538	3,511	243	1,665
1994	2,684	1,627	3,363	218	1,697
1995	2,810	1,737	3,535	3	1,653
1996	2,061	1,239	3,513	206	1,670
1997	2,239	1,358	3,619	84	1,725
1998	2,692	1,615	3,678	81	

Table A.6.13 Paddy Statistics

Souece : Agricultural Statistics of Sri Lanka 1997 by Department of Census & statistics Central Bank, Economic and Social Statistics Port Statistics by SLPA for Import

						(M.T.)
Year	Galle	Matara	Hambantota	Subtotal	Sri Lanka	Share of
						South (%)
1984	67,049	77,973	116,034	261,056	2,413,588	10.82
1985	66,340	74,727	115,189	256,256	2,261,182	11.33
1986	70,436	75,047	124,264	269,747	2,388,197	11.30
1987	63,029	77,488	96,954	237,471	2,127,824	11.16
1988	79,178	75,318	147,612	302,108	2,476,613	12.20
1989	73,024	80,297	136,914	290,235	2,063,437	14.07
1990	77,000	93,000	120,000	290,000	2,538,000	11.43
1991	66,000	66,000	109,000	241,000	2,389,000	10.09
1992	59,900	83,300	119,500	262,700	2,339,700	11.23
1993	60,870	75,910	136,030	272,810	2,570,170	10.61
1994	70,800	84.740	143,440	298,980	2,683,690	11.14

Table A.6.14 Pa	addy Production	in Southern Province
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Source: Paddy Statistics of Sri Lanka 1952-1996 by Dept. of Census & Statistics

Product 10										((
Produc	Dulcae			Potatoes			Onion			Ury Fish	
Produc	r uises			× \\				nar conito (n)	Duriduret	Immort	Iner canita(ko)
	Import	per capita(kg)	Product	Import	per capita(kg)	Froduct	Import	per Lapita(AS)	- 1	100/1111	
	37	4 83	88	0	3.71	59	12	2.14	5	31	
			02		3.50	17	23	3.07	9	20	1.58
1989 41	64	1 4.70	6				ŀ	L7 C		32	10 0
1000 53	48	2 5.45	87	0	4.44	To	10	10.0			
			67		09 6	96	49	3.86		44	3.29
1991 51	80	76.0	10		22.1				V 1	11	2 28
1000	26	61.5	62	0	3.08	82	01	1c/.c	†	5	
	5				20 0	72	72	3 26	19	65	4.56
1002 47	49	5.13	/8/	°	00.0	<i>C</i> /	5	2410			
			70	×	3 59	83	. 50	4.09	16	48	3.57
1994 391	¥.		21				ţ		C r	01	2 2.4
1005 35	69	5.81	82	2	3.83	/8/	8/	CC.4	171	40	
	S			20		63	04	90 S	101	- 48	3.18
1996	62	2] 5.60	101	707	1.0.C	3		~~~~			
	83	5 67	99	108	61.7	74	122	6.46	121	75	5.40

Table A.6.15 Production and Consumption for Other Crops in Sri Lanka

•

				(%)
Regional	1996-20)00	2001-2	010
Concordance	HG	LG	HG	LG
ASE	7.7	6.1	7.0	4.8
BRA	5.4	3.8	6.1	3.0
CHN	9.3	7.9	8.2	5.3
ECE	5.5	2.0	5.5 .	3.8
EUR	2.4	2.4	2.7	2.0
IDN	7.5	5.9	7.0	4.1
IND	6.5	4.4	7.2	4.3
JPN	3.3	3.3	2.9	2.0
LAT	4.3	3.0	5.9	3.2
MNA	5.0	2.1	7.1	2.2
NIS	3.5	1.1	6.0	4.2
POE	4.3	4.3	4.7	4.0
ROW	6.5	5.0	6.6	4,3
SSA	4.6	2.8	5.0	2.8
USA	2.2	2.2	2.7	2.1

 Table A.6.16
 Future GDP Growth Rate

Source : The World in 2020 by Organization for Economic Co-operation and Development (OECD)

Table A.6.17 Production of Rubber in the Southern Province

		and the second	· · ·				(M.T.)
	Year	Galle	Matara	Hambantota	Southern Province	Share of South (%)	Sri Lanka
ŀ	1995	9,134	4,343	19	13,496	12.8	105,717
ľ	1996	9,157	4,354	19	13,530	12.0	112,490
T	1997	9,156	4,251	18	13,425	12.7	105,782
	1998	8,968	4,264	18	13,250	13.8	95,710

Source : Rubber Development Department

				(70)
	Hinterand	Employee	Employee	for Textile
Ditrict	Ratio	for Manu-	Employee	Hinterand
	for Galle	facturing		Ratio
	to Sri Lanka	Indutries		for Galle
Galle	100.0	6.4	4.0	4.0
Matara	100.0	3.4	1.5	1.5
Hambantota	100.0	1.8	1.3	1.3
Kalutara	30.0		4.5	1.4
Ratnapura	70.0		2.8	2.0
Badoulla	30.0	<u> </u>	1.7	0.5
Monaragara	70.0		1.1	0.8
Total		11.6		11.5

 Table A.6.18
 The Number/Ratio of Employee in the Southern Province

 (%)

Source : ARJUNA'S Atlas of Sri Lanka by Arjuna Consulting Co Ltd

Container Estimated Year Container-Container Cargo Ratio Result lizable Cargo ('000 M.T.) ('000 M.T.) (%) 2/1 (1)2 1990 933.4 1,582.4 58.99 53.07 972.9 58.96 1991 1,603.9 60.66 1992 1,946.8 1,175.8 60.40 64.60 65.11 69.86 1993 2,149.9 1,399.9 1994 2,406.5 1,627.5 67.63 74:65 1995 2,170.0 1,847.0 85.12 78.91 1996 2,508.0 2,018.0 80.46 82.62 1997 2,450.0 87.63 85.79 2,796.0 2,806.0 1998 3,188.0 88.02 88.47 1999 3,151.0 2,866.0 90.96 90.69 5,175.0 97.49 2005 5,045.0 99.23 2010 7,818.0 7,758.0

Table A.6.19 Ratio of Containerization in Sri Lanka (Import)

Equation of the Logistic Curve $Y = 100 / \{1+e^{(476.136-0.2393X)}\}$

Year	Container-	Container	Container	Estimated
	lizable Cargo	Cargo	Ratio	Result
	('000 M.T.)	('000 M.T.)		(%)
	1	2	2/1	
1990	1,194.7	821.4	68.75	68.33
1991	1,223.1	844.2	69.02	73.45
1992	1,127.8	886.8	78.63	78.01
1993	1,233.8	1,030.8	83.55	81.98
1994	1,440.7	1,193.2	82.82	85.37
1995	1,512.0	1,363.0	90.15	88.21
1996	1,609.0	1,436.0	89.25	90.56
1997	1,750.0	1,681.0	96.06	92.48
1998	1,831.0	1,706.0	93.17	94.04
1999	1,944.0	1,816.0	93.42	95.29
2005	2,690.0	2,657.0		98.79
2010	3,525.0	3,513.0		99.65

 Table A.6.20
 Ratio of Containerization in Sri Lanka (Export)

Equation of the Logistic Curve $Y = 100 / \{1+e^{494.040-0.2486X}\}$

	1999	1998	1997	1996	1995
	1000 Rs	1000 Rs	1000 Rs	1000 Rs	1000 Rs
Revenue					
Revenue from port activity	13,469,981	12,695,782	10,254,390	8,336,710	6,335,162
SAGT revenue	143,823				
Other revenue	1,474,752	942,095	719,979	670,705	484,410
	15,088,556	13,637,877	10,974,369	9,007,415	6,819,572
Expenditure					
Cost of operation	4,186,708	3,845,347	3,599,860	2,529,300	2,128,835
Cost of repair & maintenance	1,694,129	1,541,697	1,366,895	1,255,334	1,089,507
Cost of administration	2,875,738	2,016,250	1,914,172	1,508,857	1,337,464
Interest on foreign loan	1,008,379	965,385	650,410	596,373	495,178
B,T.T	0	220,762	664,744	561,464	409,111
Income tax	1,509,084	954,562	848,284	1,016,103	894,075
Provision for special levy	3,750,000	2,350,000	400,000	1,000,000	0
Provision for deemed dividend tax	700,626	443,190	0	0	0
	15,724,664	12,337,193	9,444,365	8,467,431	6,354,170
Net Profit after Tax	-636,108	1,300,684	1,530,004	539,984	465,402

Table A 13.1 Profit and Loss Account of SLPA (1995-1999)

Source: Sri Lanka Port Authority

Table A 13.2 Cash flow Statement of SLPA (1995-1999)

DESCRIPTION	1998		1998		1997		1996		1995	
	Rs.M.	Rs.M.	Rs.M.	Rs.M.	Rs.M.	Rs.M.	Rs.M.	Rs.M.	Rs.M.	Rs.M.
Cash & cash equivalents at beginning of period		7,454.379		4,245.850		2,169.403		2,506.665		626,22
			1997 - A.							
Cashflows from Operating Activities			1.11							
Cash receipts from operations	13,270,304		12,614.606		9,994.377		8,086.184		6,774.054	
Cash paid to employees	(4,003,696)	1.1	(3,795.101)		(3,301.051)		(3,615.039)		(2,284.080)	
Materials & Electricity expenses	(778.821)	1 - 1 - L	(566,183)		(835,423)		(658,341)		(592.685)	
Miscellaneous expenditure	(932.594)		(916.466)		(603.074)		(595.567)		(604,730)	
	7,555.193		7,336.856		5,254.829		3,217.177		3,292.559	
ncome tax, Deemed divinded tax & T.tax	(3,864.809)		(1,044.450)		(1,425,747)		(1,652,268)		(528,766)	
Special lavy to Treasury	(3,750.000)		(2,350.000)		(400.000)		(1,000.000)		0.000	
	(59.618)		3,942.406		3,429.082		564.909		2,763.793	
Net cash from other activities										
interrest received from Treasury bills, Cali									· · ·	
deposits & Fixed depossits	1,058.523		632,688		349.695		381,733		172.762	
Miscellaneous revenue	660.318		458.441		514.159		346.776		332.956	
Port Development Project expenditure	(137.673)		(323.147)		(327,526)		(773.095)		(1,095.741)	
Capital expenditure	(1,744.867)		(455,228)		(429.915)		(789.922)		(340,433)	
	(163.699)		322.754		106,413		(834.508)		(930.456)	
Cashflows from financing activities										
Reimbursement of Foriga Loan	(189.129)		(18.695)		(27.658)		0.000		215.684	
Exchange difference Yen To Rupees	(489.872)		(482.529)		(287.969)		0.000		75.635	
Net cashflow from Shipping Development Fund	(629.671)		(537.463)		(393.421)		11.274		29.256	
Forign Loan - Interest	(21.482)		(7.944)		0.000		(30,762)		(150,693)	
Forign Loan - Principal	(167.020)		0.000		(750.000)		(48.175)		(122,781)	
Net cash used in financing activities	(1,497.174)		(1,046.631)		(1,459.048)		(67.663)		47.101	
Net decrease in cash & cash equivalents		(1,720,489)	· .	3,218.529		2,076.447		(337.262)		1,880.43
Cash & cash equivalents at the end of the period		5,743.890		7,464.379		4,245.850		2,169.403		2,506,66

Source: Sri Lanka Port Authority

	1999	1998	1997	1996	1995
	1000 Rs				
Capital 資本					
Equity & other capital					
Equity capital	470,552	470,552	470,552	470,552	470,552
Other capital	7.120.828	7,120,828	7,120,828	7,120,828	7,120,828
schol supra.	-909,093				
	6,682,287	7,591,380	7,591,380	7,591,380	7,591,380
Reserves & provision	0,002,207	1,001,000	1,001,000	,,	.,
Capital reserve	1,402,022	994,564	973,344	973,344	973,436
Port development reserve	557,024	557.024	557,024	557,024	557.024
_oan redemption reserve	6,473,901	6,473,901	4,879,026	3,619,575	2,802,598
Foreign exchange fluctustion A/C	0,470,001	718,923	727,588	567,664	272.12
Other Reserves & provisions	1,125	1,125	1,125	2,638	2,638
Juner Reserves & provisions	8,434,072	8,745,537	7,138,107	5,720,245	4,607,821
	0,404,072	0,140,001	7,130,107	3,720,240	4,007,021
D. 4. 4-4-1	15,116,359	16,336,917	14,729,487	13,311,625	12,199,201
Sub-total	10,110,505	10,000,917	14,723,407	13,511,025	12,133,201
Liability 債務					
Long-term liability	40,334,445	22 020 020	27,255,018	15,262,592	12,885,597
Port development loans(Japanese loan)		33,938,978	109.890		
Other foreign loans	231,162	91,575		128,205	146,520
	40,565,607	34,030,553	27,364,908	15,390,797	13,032,117
Current liability		0.000.070	0.010.710	0.000.004	1.000.01
Creditors and accrued charges	2,480,914	2,362,672	2,219,749	2,288,864	1,056,013
Deposit & advanced payment	1,029,386	882,549	793,253	858,290	1,521,72
Shipping development fund & other funds	1,407,528	1,645,385	1,631,017	1,633,418	1,465,992
Provision for income tax	186,283	1,385,108	1,101,467	916,967	507,112
Provision for deemed dividend tax		0			551,72
Provisions for claims	7,243	8,903	6,515	18,538	10,29;
Bank balance O/D	50,980	25,959	61,482	132,517	26,688
	5,162,334	6,310,576	5,813,483	5,848,594	5,139,54
Sub-tatal	45,727,941	40,341,129	33,178,391	21,239,391	18,171,662
Total	60,844,300	56,678,046	47,907,878	34,551,016	30,370,863
Assets 資產		1		the second	
Fixed Assets					
Property,Operational craft,Plant	40,562,438	28,697,375	27,558,368	20,174,335	19,899,85
Capital work in progress	1,742,441	15,450,325	11,099,951	7,759,067	4,183,86
	42,304,879	44,147,700	38,658,319	27,933,402	24,083,714
Investment					
Investment in company share	360,904	20,925	20,925	20,925	20,92
Long-term investoment	783,689	780,491	781,116	32,918	29,19
	1,144,593	801,416	802,041	53,843	50,12
Non-current assets					1
Deferred revenue expenditure	5,549,696	84,670	87,577	98,524	} . €
Current assets		· · ·	· ·		
Goods in stock	1,019,756	949,959	796,459	625,725	425,01
Goods in transit	612,699	291,004	549,094	604,297	493,32
Net trade debtors & accured revenue	923,146	846,139	810,019	1,105,825	874,97
Non trade debtors & adovance payment	1,224,981	850,440	803,534	658,666	727,32
Over payment on re-scheduling of Japanese loans		0	0	157,670	336,07
Loans & adovance to employees	1,179,023	1,152,108	1,050,863	961,769	804,78
Investments in tresury bills, fixed/call deposits	5,572,114	7,393,750	4,212,377	2,161,542	2,432,99
Deposits & other reseivables	778,055	64,271	42,640	49,375	32,17
Foreign Currency cash A/C	312,600				
Cash in transit, cash at bank & in hand	222,757	96,588	94,955	140,378	100,36
	11,845,131	11,644,259	8,359,941	6,465,247	6,227,02
m-++1	60,844,299	56,678,045	47,907,878	34,551,016	30,360,86
Total					

Table A 13.3 Balance Sheet of SLPA (1995-1999)

Source: Sri Lanka Port Authority

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	1995	1996	1 9 97	1998	1999	
Net Profit befor Tax (a)	1,854,952	3,052,459	3,428,697	6,013,820	6,331,981	
Depreciation (b)	617,071	1,000,223	2,119,035	2,103,807	2,540,529	
Principal of Long Term Loan (C)	122,781	48,175	393,421	537,463	629,671	
Interest of Long term Loan (d)	150,693	30,762	287,969	482,529	489,872	
Debt Service coverage Patio(a+b/c+d)	9.0	51.3	8.1	8.0	7.9	more then 1.0
Ourrent Assets(e)	6,237,024	6,465,247	8,359,940	11,644,258	11,845,131	
Current Liability (f)	5,139,545	5,848,595	5,813,483	6,310,576	5,162,334	
Working Capital (e/f)	1.21	1.11	1.44	1.85	2.29	
Cost of Operation	2,128,835	2,629,300	3,599,860	3,840,150	4,186,708	
Cost of Repair and Maintenance	1,089,507	1,255,334	1,366,895	1,538,133	1,694,129	
Cost of Administration	1,337,164	1,508,857	1,914,172	2,025,011	2,875,738	
Operation Expense (g)	4,555,506	5,393,491	6,880,927	7,403,294	8,756,575	
Operation Expense before Depreciation(h) g-b	3,938,435	4,393,268	4,761,892	5,299,487	6,216,046	
Operation Revenue (i)	6,819,571	9,007,414	10,974,368	13,637,877	15,088,556	
Working Ratio (h/i)	57.8%	48.8%	43.4%	38.9%	41.2%	less than 50-60%
Operating Ratio(g/i)	66.8%	59.9%	62.7%	54.3%	58.0%	less than 70-75%
Fixet Assets(j)	24,133,838	27,987,244	39,460,361	44,949,116	43,449,471	
Rate of Return on Net Fixed Assets (a/j)	7.69%	10.91%	8.69%	13.38%	14.57%	more than 7.0%

Table A 13.4 Financial Index of SLPA(1995-1999)

Source: Sri Lanka Port Authority

Table A 13.5 Loan Repayment Schedule of the project

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1	Totai	=	2	3	¥	0	•			,		-			-			
rtion sortian	10,161,285,750 3.367,095,250	129.851,250 43,283,750	29,851,250 1,943,416,500 43,283,750 547,805,500	.943,416,500 3,828,779,250 2 647,805,500 1,276,259,750 641 922,000 5,105,039,000 5	1.943,418,500 3,828,779,250 2,262,885,000 1,6 647,805,500 1,276,259,750 754,295,000 1, 264 7,200 5,105,039,000 3,017,180,000 2,	1.629,873,750 543,291,250 2,173,165,000	366,480,000 122,160,000 488,640,000	· .						-	-			
Total Cost	13,548,351,000	1/21/22/000	200,333,100,2												,			
Foreign loan	129 851 250											6,492,563	6,492,563	5,492,563 97 170 875	6,492,563	8,492,563 97 170 825	6,492,563	6,492,563
- 61	1,943,416,500			_								-	040011111	191,438,953	191,438,963	191,438,963	191,438,963	191,438,963
	2,262,885,000														113,144,250	81,493,688	81.493.688	51,493,588
6	1,629,873,750		_												-		18,324,000	18,324,000
Total 1	6 366,480,000 Total 10,161,285,750	0	0	0 5 000 042 000		0 9 794 805.750 1	0	0.161.285.75011	0 0 0 8.492.563 103.65.388 764 805 356 0.0161 285.756 010.161 285.756 010.161 285.756 010.0161 285.757 010.051.129.000	0 3,161,285,750/10	3,161,285,750 16	6,492,563 9,154,793,188 10		295,102,350 9,756,027,450	408,245,600 9.347,780,850 B	489.740.288 6.358.040.563	508,054,288 8,349,976,275	508,064,288 7,841,911,988
Balance		UC2.1C8.621	ner'raz's/n'z	000"/ +0"202"0	2000'700'401'0													
Domestic Lasn	03E 600 67						4,328,375	4,328,375	4,328,375	4,328,375	4,328,375	4,328,375	4,328,375	4.328,375	4,328,375	4,328,375	000 000 00	
- 0	647,805,500			_				64,780,550	64,730,550 107 695 875	64,780,550 127,656,975	64,780,550 127,625,475	127 625 975	127,625,975	127.625.975	127.625.975	127.625.975	127,625,975	127.625.975
- 	1,276,253,750								C/ C 170 / 71	75.429.500	75.429.500	75,429,500	75,429,500	75,429,500	75,429,500	75,429,500	75,429,500	75,429,500
4	754,295,000								• •		54,329,125	54,329,125	54,329,125	54,329,125	54,329,125	54,329,125	54,329,125	54,329,125
1	543,291,250											12,215,000	12,216,000	12,216,000	12,216,000	12.216.000	12,215,000	12.216,000
	122,160,000	c	с		ć	¢	4.328.375	69,108.925	196.734.900	272,164,400	326,493,525	338,709,525	338,709,525	338,709,525	338,709,525	338,709,525	324,381,150	269,600,600
Balance	3,387,090,785,5	43,283,750	651,085,250	1,967,349.000	651,085,250 1,967,349,000 2,721,644,000 3	264,935,250		3,313,657,950	3,116,923,050	2,844,758,650 2,518,265,125		2,179,555,600	1,840,845,075	1,502,136,550	1,163,427,025	824 717 500	490,336,350	220.735.750
			. (c	1 129 175	84 108 925	196,734,900	272.164.400	326,493,525	345,202,098	442,372,913	633.811,875	746,958,125	828,449,813	842,445,438	777,664,888
fotal principal		•																
interest		č	2 858 72B	45.611.891	129.845.034	179,628,504	215,485,727	223,548,287	223,548,287	223,548,287	223,548,287	223.548.287	223,405,450	221,124,856	214,632,604	205,651,179	194,876,892	183,599,478
			1946 241			204.123.300	244,870,144	253,707,516	248,524,346	233,769,229	213,356,899	198,869,864	153,466,670	138,053,454	112,550,241	170'107'18	212,000,10	077'C17'00
Domestic Loan Total interest		56	6,103,009			383,751,804	450.355,870	477,255,802	472.072,633	457,317,515	436,905,185	412,418,171	386,872,120	359,198,311	327,292,845	292,908,205	Z56.730,203	220,4/4,104
Total					100 01 001	170 610 604	216 ARE 707	223 FAR 2R7	223.548.287	223,548,287	223,549,287	230,040,849	327,068,838	516,227,206	622.879,204	695,391,466	702,941,180	691,763,766
JBIC Loan		50	2,856,/28	160'110'04 1		204 123 300	249.198.519	322.816.441	445,259,246	505,933,629	539,850,424	527,579,409	502,176,195	476,772,981	451,369,766	425,966,552	396,234,963	306,375,826
Domestic Loan		5 6					464.684.245	548.364.727	868,807,533	729.481.915	763.359.710	757,620,258	829,245,033	993.000.186	1.074,248,970 1	1,121,358,018	(,099,176,142)	998,139,592

Table A 13.5 Loan Repayment Schedule of the project

18,324,000 403.128 403,128 18,727,128 18.727.128 18.324,000 2,599,117 0 2,599,117 102.416.805 81,493,688 18,324,000 99,817,588 18,324,000 99,817,688 102.416.805 113.144.250 81.493.688 18.324.000 18.324.000 212.961.938 118,141,688 220,246,217 7.284.280 220,246.217 7.284,280 212.961,938 151,438,953 113,144,250 81,493,689 18,324,000 404,400,900 331,103,625 420,582,000 420,532,000 16,191,100 404,400,900 16,181,100 97,170,825 191,439,963 113,144,250 81,493,688 18,324,000 501,571,725 501,571,725 27,215,678 528,787,403 501.571.725 528.787.403 27,215,678 6,492,563 97,170,825 191,438,963 113,144,250 113,144,250 118,324,000 508,064,288 508,064,288 508,064,288 508,064,288 38,393,092 546,457,379 546,457,379 38,393.092 6,482,563 97,170,825 19,428,963 113,144,250 81,493,685 18,234,000 18,234,000 508,064,288 508,064,288 557.634.794 49,570,506 557,634,794 508.064.288 49,570,508
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Table A13.6 FIRR(Cost +10%)

f Construction Costs	Cost	[1]		
5	(1) Civil	8 .8	14,094,258,002 3,906,537,865	4,094,258,002 3,906,537,865 (Base of maintenance calculation)
3	(2) Procurement Gantry Grane VTMS	Ŕs	808,962,000 539,308,000	
	WORF Forklift (3) Dredging (4) Tstal	ъ. В. В. В. В. В. В. В. В. В. В. В. В. В.	269,354,000 368,266,036 14,903,220,002	14,903,220,002
2 Maintenance (1 (2	(†) Civil (1%) (2) Producement (4%) (3) Producement (4%)	888	39,065,379 32,358,480 0	71,423,859 Sub-total (1)+(2)
3 Re-investment (1 (3	(1) Gantry Crane (2)Forklit (3)Total	ጜ ጜ	539,308,000 269,654,000 808,962,000	539,308,000 20 years renowal 289,554,000 10 years renowal 809,962,000
4 Management p	Number of persons Personei 340	Unit Rs202.000	Administration cost 20%	82,416,000
6 Cost and Revanue	Revenue	0		<u>Financial Analysis</u>

			•							(Unit : Rs)	
	Rev	Revenue	Cost					Difference	Ň	Net Present Volume(NPV)	5
Ycar			Investment		Expenses			Revenue			Revenue
		Total	1	Maintenance Costs	Management F	Re- Investment	Total	- Cost	Revenue	Cost	- Cost
		Ö	190.448.775				190,448,775			190,448,775	-190,448,775
		0	2,850,344,539				2,850,344,539	-2,850,344,539			-2,730,109,762
4 00	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	0	5 615,542,816				5,615,542,816		0		-5,151,779,190
	<u> </u>	0	3,318,897,888				3,318,897,888				-2,916,366,744
		10	2.390.481.979				2,390,481,979	1	0	2,	-2,011,946,691
			537,504,005				537,504,005	-537,504,005	0	433,306,744	-433,306,744
-	7 776 896 000	776 896 000		71,423,859	82,416,000		153,839,859				481,087,058
. *				71,423,859			153,839,859				525,690,105
				71,423,859	82,416,000		153,839,859		673,489,866		564,513,866
10	10 1 040 311 000			71,423,859	82,416,000		153,839,859			1	601,463,589
	-			71.423.859			153,839,859		733,094,039		633,117,900
	Ϊ			71,423,859	82,416,000		153,839,859	-			722,831,614
12		: ;		71,423,859			153,839,859	1,161,253,141			692,340,740
1	14 1 315 093 000			71,423,859			153,839,859			87,850,575	663,136,048
5				71,423,859			153,839,859	-			635,163,284
18				71,423,859		269,654,000	423,493,859			2	467,101,083
	1 315 093 000			71,423,859	82,416,000		153,839,859	1,161,253,141	659,903,524		582,707,869
				71,423,859	82,416,000		153,839,859				558,127,770
	1	1.315,093,000		71,423,859			153,839,859				534,584,522
	1			71,423,859			153,839,859	-	·		512,034,389
				71,423,859	4	-	153,839,859	-			
22	-			71,423,859			153,839,859	-		62,230,974	
	[1,315,093,000		71,423,859	1		153,839,859	-			
	-	1		71,423,859			153,839,859		_		430,953,215
		- 6		71,423,859			153,839,859	-Î			412,774,513
26				71,423,859	×.,	808,962,000	962,801,859			m	119,941,767
	27 1.315,093,000			71,423,859	82,416,000		153,839,859				378,685,234
	28 1.315.093.000	1,315,093,000		71,423,859			153,839,859				362,711,329
	-	1,315,093,000		71,423,859			153, 839, 859				347,411,243
30	30 1,315,093,000	1,315,093,000		71,423,859			153,839,859				332,756,554
	ļ	1,315,093,000		71,423,859			153,839,859		360,943,255		318,720,037
	ľ	1,315,093 000		71,423,859			153,839,859				
				71,423,859			153,839,859			38,736,184	
				71,423,859			153,839,859	1,161,253,141			
		1,315,093,000		71.423.859			153, 839, 859				268,250,390
Total	36,322,900,000	36,322,900,000	14,903,220,002	2,071,291,901	2,390,064,000	1,078,616,000	20,443,191.903	15,879,708,097	1 15,859,724,540	15,859,724,540	0

4.40% > 3.53%

FIRR = 4.40

Table A13.7 FIRR(Revenue-10%)

1 Construction Costs	sta	Cost	101		
	(1) Civil	4* 	Êă	12,812,961,820	2,812,961,820 3.551,398.059 (Base of maintenance calculation)
· · · ·	(2) Procurement Gantry Crane VTMS		2 2 2	735,420,000	
· · · · · · · · · · · · · · · · · · ·	WORF Fonklift (3) Dredging (4) Total		සීසී	245,140,000 332,969,124 13,548,381,820	13.548.381.820 Sub-total (1)+(2)
2 Maintenance	(1) Civil (1%) (2) Procurement (4%) (3) Dredging	• • • •	8 Å Å	35,513,981 29,416,800 0	64,930,781 Sub-total (1)+(2)
3 Re-investment	(1) Gentry Grane (2)Forklift (3)Total	*	88 88 88 88 89 88 80 80 80 80 80 80 80 80 80 80 80 80 80 80 8	490,280,000 245,140,000 735,420,000	490,280,060 20 years renewal 245,140,060 10 years renewal 735,420,000
4 Management		Number of persons 340	Unit Rs202.000	Administration cost 20%	82,416,000
6 Cost and Revenue	g	Ravenue	0.9		<u>Financial Analysis</u>

		- 10				Financial	<u>Financial Analysis</u>				(Unit : Rs)	
L		Revenue	*nite	Cost					Difference	Ϋ́ς.	Net Present Volume(NPV)	
	Vart	100		Investment		Expenses						Revenue
			Total		Maintenance	Management	Re- Investment	Total	- Cost	Revenue		- Cost
			C	173, 135, 250				173,135,250	-173,135,250	0		-173,135,250
			0	2 591 222 308				2,591,222,308	-2,591,222,308			-2,485,120,395
2 0	10		0	5.105.038.923				5,105,038,923	-5,105,038,923		4,695,529,540	4,695,529,540
	5		0	1 017 179 808				3,017,179,898	-3,017,179,898	0	2,661,518,471	-2,661,518,471
4	+		0					2,173,165,435	-2,173,165,435	0	1,838,500,818	-1,838,500,818
				482,640,005				488,640,005	-488,640,005	ö	396,463,141	-396,463,141
	5 F	600 206 200	699 206 400		64.930.781	82.416,000		147,346,781	551,859,619	544,078,987	114,656,112	429,422,875
	8		778.180.500		64,930,781	82,416,000		147,346,781	630,833,719	580,737,220		470,775,894
	0		L		64, 930, 781	82.416.000		147,346,781	708,333,619	612,426,059		506,967,282
7	K C				64.930.781	82.416.000		147,346,781	788,933,119	642,673,714		541,533,123
2:	2	-	. 1 . 		64.930.781	\$2.416.000		147,346,781	867,907,219	668,347,466	96,999,221	\$71,348,245
- ;		-			64.930.781	82.416.000		147,346,781	1,036,236,919	747,255,864		654,228,437
7		102 502 700			64 930 781	82,416,000		147,346,781	1,036,236,919	716,658,228		627,439,964
2.3		1 183 583 700			64,930,781	82,416,000		147,346,781	1,036,236,919	687,313,464		601,748,390
	5	002 585 581 1	1.		64.930,781	82,416,000		147,346,781	1,036,236,919	659,170,269		
5 8	16		ľ		64,930,781	82,416,000	245,140,000	392,486,781	791,096,919	632,179,445	209,636,272	
	2	1.183.583,700			64,930,781	82,416,000		147,346,781	1,036,236,919	606,293,804		
, e	18		Γ		64,930,781	82,416,000		147,346,781	1,036,236,919	581,468,095		509,079,930
2 2	19	[-			64,930,781	82,416,000		147,346,781	1,036,236,919	\$\$7,658,915		
00	00				64,930,781	82,416,000		147,346,781	1,036,236,919	534,824,642	66,581,425	
	21				64,930,781	82,416,000		147,346,781	1,036,236,919	512,925,356		
22	22		-		64,930,781	82,416,000		147,346,781	1,036,236,919	491,922,773		430,682,291
23	23	1,183,583,700	-		64,930,781	82,416,000		147,346,781	1,036,236,919	471,780,176		415,047,287
24	24		-		64,930,781	82,416,000		147,346,781	1,036,236,919	452,462,351		370,134,3/8
25	25		1 1,183,583,700	-	64,930,781	82,416,000		147,346,781	1,036,236,919	455,955,027		044,614,476
26	26	-	1,183,583,700		64,930,781	82,416,000	735,420,000	882,766.781	300,816,919	416,167,314		1051,217,201
27	27	1,183,583,700	1,183,583,700		64,930,781	82,416,000		147,346,781	1,036,236,919	040,021,445		NtC 001 Nto
28	28	-			64,930,781	82,416,000		147,346,781	1,036,236,919	382,785,745		CV2, UC1, CCC
28	29	1.183.583.700	1,183,583,700		64,930,781	82,416,000		147,346,781	1,036,236,919	367,110,027		321.401.741
08	30	-	[64,930,781	82,416,000	-	147,346,781	1,036,236,919	352,078,095		308,247,166
31	31	-	-		64,930,781	82,416,000		147,346,781	1,036,236,919	337,661,671		7/ 6'070'067
32	32		[64,930,781	82,416,000		147,346,781	1,036,236,919	323,835,552		c6c'07C'587
33	33	1,183,583,700	1,183,583,700		64,930,781			147,346,781	1,036,236,919	310,575,566		2/2,110,172
34	34	1,183,583,700	0 1,183,583,700		64,930,781			147,346,781	1,036,236,919	297,858,532		260,777,508
35	35	1,183,583,700			64,930,781			2	1,036,236,919	285,662,218	ł	250,099,538
	Total	ľ	32.6	13.548.381.820	1.882,992,637	2,390,064,000	980,560,000	18,801,998,457	13, \$88, 611, 543	14,606,971,723	14,606,971,723	0
	10141		Ļ									

3.53% 4.27% >

FIRR =

Table A 13.8 FIRR(Cost+10%, Revenue-10%)

1 Construction Costs	osts Cost	st 1.1		
	(1) Civil	ж р	14,094,258,002 2 006 527 865 1	4,094,258,002 3 006 533 865 (Been of maintenance calculation)
	(2) Procurement Gantry Crane VTMS	2 62	539,308,000 539,308,000	
	WORF Forklift (3) Dredging (4) Total	చి చి	269,654,000 366,268,036 14,903,220,002	14,903,220,002 Sub-total (1)+(2)
2 Maintenance	(1) Civil (1%) (2) Procurement (4%) (3) Dredging	또 뜻 뜻	39,065,379 32,358,480 0	71,423,859 Sub-total (1)+(2)
3 Re-investment	(1) Gantry Grane (2)Ferkilt (3)Tetal	සි සී සී	539,308,000 2 559,654,000 1 808,962,000	539,306,000 20 years renewal 269,554,000 10 years renewal 808,982,000
4 Management	Number of pers	ons Unit 340 Rs202.000	Administration cost 20%	82,416,000
6 Cost and Rovenue	Revenue	en 0.9		<u>Financial Analysis</u>

									, ve, ve		(Unit : Rs)	
		Re	Revenue	Cost					DITICICICC	ex.	Net Present Volume(NPV	
Ι	Year			Investment		Expenses			Revenue			Revenue
			Total		Maintenance Coste	Management Costs	Re- Investment	Total	- Cost	Revenue	Cost	- Cost
Ļ		-	0	190.448.775				190,448,775	-190,448,775	0	190,448,775	-190,448,775
ŕ		21	0	2.850.344.539				2,850,344,539	-2,850,344,539	0	2,752,011,530	-2,752,011,530
1 00		3	0	5,615,542,816				5,615,542,816	-5,615,542,816	0	5,234,769,011	-5,234,769,011
1		4	0	3,318,897,888				3,318,897,888	-3,318,897,888	0	2,987,119,250	-2,987,119,250
l G		5	0	2,390,481,979				2,390,481,979	-2,390,481,979	0	2,077,289,538	-2.077,289,538
		0	10	537,504,005		· · ·		537,504,005	-537,504,005	0	450,968,445	-450,968,445
Ļ		7 699.206.400	699,206,400		71,423,859	82,416,000		153,839,859	•	566,399,335	124,619,560	441,779,775
		8 778,180,500	:. • :		71,423,859	82,416,000		153,839,859		608,626,101	120,320,354	488,305,747
6			855,680,400		71,423,859	82,416,000		153,839,859		646,152,016	116,169,466	529,982,551
<u></u>		10 936,279,900	936,279,900		71,423,859	82,416,000		153,839,859	782,440,041	682,624,246	112,161,777	570,462,469
Ē		11 1.015,254,000	0 1,015,254,000		71,423,859	82,416,000		1 53, 839, 859	861,414,141	714,666,802]		606,374,454
12		12 1,183,583,700	1,183,583,700		71,423,859	82,416,000		153,839,859	1,029,743,841	804,416,120		699,859,710
13		Γ			71,423,859	82,416,000		153,839,859	1,029,743,841	776,664,858	100,949,356	675,715,502
1					71,423,859	82,416,000		153,839,859	1,629,743,841	749,870,977	97,466,740	652,404,237
15		Γ	0 1,183,583,700		71,423,859	82,416,000		153,839,859	1,029,743,841	724,001,448	94,104,270	629,897,178
19		Γ	1,183,583,700		71,423,859	82,416,000	269,654,000	423,493,859	760,089,841	699,024,383	250,115,419	448,908,964
11		17 1,183,583,700	1,183,583,700		71,423,859	82,416,000		153,839,859	1,029,743,841	674,908,992	87,723,330	587,185,662
18			0 1,183,583,700		71,423,859	82,416,000		153,839,859	1,029,743,841	651,625,550	84,696,995	
10		19 1,183,583,700	1,183,583,700		71,423,859	82,416,000		153,839,859	1,029,743,841	629,145,355	81,775,064	
20			1,183,583,700		71,423,859	82,416,000		153,839,859	1,029,743,841	607,440,696	78,953,935	
51			2		71,423,859	82,416,000		153,839,859	1,029,743,841	586,484,818	76,230,132	
22		[1,183,583,700		71,423,859			153,839,859	1,029,743,841	566,251,890	73,600,296	
33			1,183,583,700		71,423,859			153,839,859	1,029,743,841	546,716,970	71,061,186	
2			1,183,583,700		71,423,859	82,416,000		153,839,859	1,029,743,841	527,855,978	68,609,672	459,246,306
25					71,423,859	82,416,000		153,839,859	1,029,743,841	509,645,665	66,242,731	443,402,933
26			2		71,423.859	82,416,000	808,962,000	962,801,859	220,781,841	492,063,583	400,275,647	91,787,935
21					71,423,859	82,416,000		1 53,839,859	1,029,743,841	475,088,058	61,751,002	413,337,056
28			1,183,583,700		71,423,859	82,416,000		153,839,859	1,029,743,841	458,698,166	59,620,677	399,077,490
29		-			71,423,859	82,416,000		153,839,859	1,029,743,841	442,873,704	57,563,844	385,309,859
00		30 1,183,583,700			71,423,859	82,416,000		153,839,859	1,029,743,841	427,595,163	55,577,970	372,017,193
5			<u>ا</u> ر ا		71,423,859	82,416,000		153,839,859	1,029,743,841	412,843,712	53,660,606	359,183,106
32					71,423,859	82,416,000.		153,839,859	1,029,743,841	398,601,165	51,809,388	346,791,777
33			1,183,583,700		71,423,859	82,416,000		153,839,859	-	384,849,967	50,022,034	334,827,933
34		34 1,183,583,700			71,423,859	82,416,000		153,839,859		371,573,167	48,296,342	323,276,825
35					71,423,859	82,416,000				358,754,398	46,630,184	312,124,214
	Total	32,690,610,000	32,690,610,000	14,903,220,002	2,071,291,901	2,390,064,000	1,078,616,000	20,443,191,903	12,247,418,097	16,495,463,284	16,495,463,284	0

3.57% > 3.53%

FIRR =

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