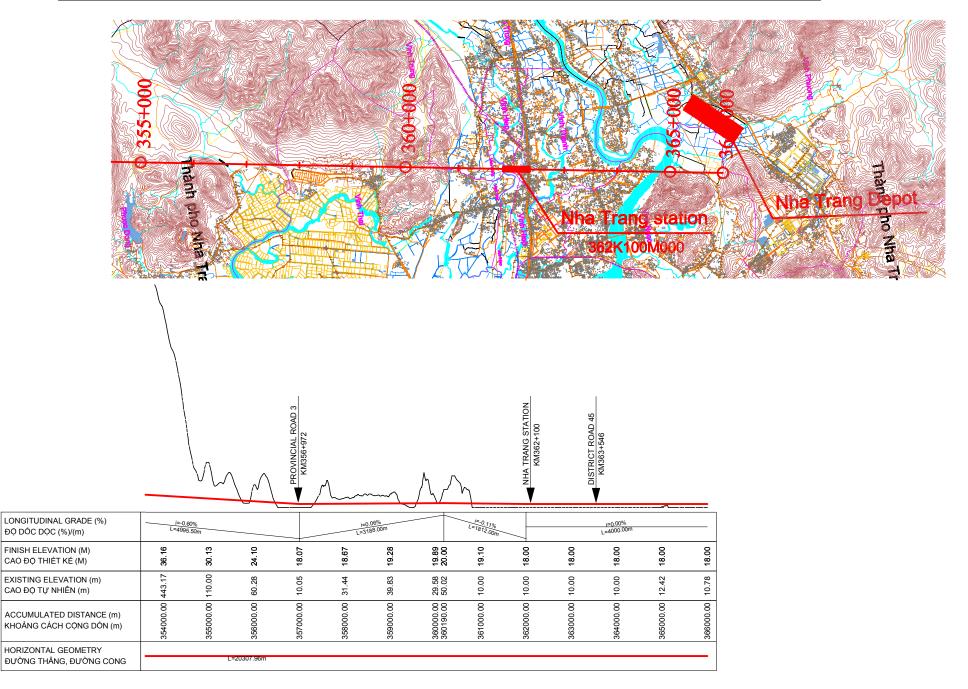


ĐỘ DỐC DỌC (%)/(m)





### **APPENDIX 8A**

## **Estimate of Staff Requirment**

### 1) Station

- Assignment ticket issuance, ticket barrier, platform train operation, passenger guidance and etc.
- Calculation method of staff number
  - ①-1、Managers and administrators are calculated based on station scale which are classified into six patterns of A (80,000 or more passengers / day), B (80,000  $\sim$ 5 0,000 passengers /day), C (50,000  $\sim$  30,000 passengers /day), D (30,000  $\sim$  10,000 passengers /day), E (10,000  $\sim$  5,000 passengers /day), and F (5 ,000 or less passengers /day)
  - ①-2、platform staffs: They are calculated based on the equipment conditions and train stop numbers at platform.
  - 1)-3, ticket sale staffs and ticket gate staffs are calculated based on passengers number of entrainment and Detrainment at each station.

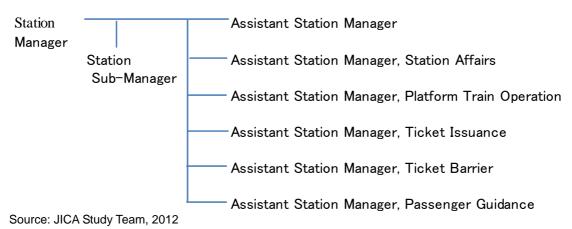
Table 8A.1 Passengers Number of Entrainment and Detrainment at each Station

Nha Trang - Thu Thiem

	2030		2035		2040	
	Passengers Number of Entrainment	Passengers Number of Detrainment	Passengers Number of entrainment	Passengers Number of Detrainment	Passengers Number of entrainment	Passengers Number of detrainment
Nha Trang	20,043	20,433	25,544	26,041	32,555	33,188
Thap Cham	8,220	8,159	10,476	10,398	13,351	13,252
Tuy Phong	501	493	639	628	814	801
Phan Thiet	2,611	2,595	3,328	3,307	4,241	4,215
Long Thanh	6,549	6,604	8,346	8,417	10,637	10,727
Thu Thiem	31,408	31,048	40,028	39,569	51,014	50,430

Source: JICA Study Team, 2012

### Organization



Number of Employees

Service - Day service under a one-shift service system

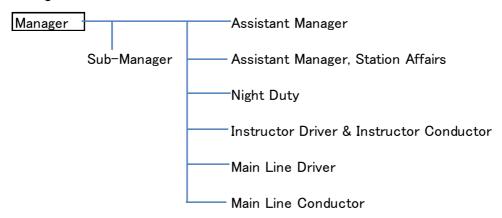
Table 8A.2 Number of Employees at Station

Section	Station	2030 year		2035 year		2040 year	
		Size of a Station	Number of Employees	Size of a Station	Number of Employees	Size of a Station	Number of Employees
	Nha Trang	С	72	В	87	В	98
	Thap Cham	D	53	D	56	D	60
Southern Section	Tuy Phong	F	27	F	27	F	27
Southern Section	Phan Thiet	Е	32	E	32	E	32
	Long Thanh	D	49	D	53	D	56
	Thu Thiem	В	101	В	115	А	131
To	tal		334		370		404

Source: JICA Study Team, 2012

### 2) Train Driver and Conductor Depot

- Assignment Driver and conductor services
- A driver and two conductors are assumed to be on duty per train
- An instructor driver is assumed to be assigned per 20 main line drivers and an instructor conductor per 30 main line conductors.
- A train operation station and a conductor station are placed in each of the northern and southern sections.
- Organization



Source: JICA Study Team, 2012

Number of employees – We referred to the case of Tohoku and Joetsu Shinkansen.

Table 8A.3 Number of Employees at Train Driver and Conductor Depot

	Depot	2030	2035	2040	remarks
Southern Section	Train driver	99	122	150	
	Train Conductor	157	196	247	
Total		256	318	397	

Source: JICA Study Team, 2012

### 3) Inspection Base

- Assignment Daily inspection and regular inspection
- Maintenance in and by the base in principle, but Cleaning of rolling stock shall be outsourced.
- We assumed daily inspection for six train sets per day and regular inspection for two train sets per day.
- Organization



• Number of employees – We referred to the case of Tohoku Shinkansen.

Table 8A.4 Number of Employees at Inspection Base

	Depot	2030	2035	2040	remarks
Southern Section	Nha Trang Depot	82	90	98	

Source: JICA Study Team, 2012

- Service Day service under a one-shift service system
- Outsourcing costs of cleaning rolling stock
- Number of rolling stock for outsourcing costs is as follows.

Table 8A.5 Number of Cleaning Rolling Stock

[Unit : number of t				
	2030	2035	2040	
Southern Section (Thu Tiem~Nha Thang)	22	27	32	

Source: JICA Study Team, 2012

Referring to outsourcing costs of cleaning rolling stock in Japanese Tohoku Shinkansen, it was calculated as follows, considering manpower cost, rolling stock operation and etc. This price is at present and does not expect the inflation rate.

Table 8A.6 Outsourcing Costs of Cleaning Rolling Stock

	[unit: to	en thousand yen ]	
	2030	2035	204
	年	年	0年
south section (Thu Tiem∼Nha	17,600	21,600	25,600
Thang)	(2.26millionUS\$)	(2.77millionUS\$)	(3.28millionUS\$)

Source: JICA Study Team, 2012

# 4) Rolling Stock Workshop

- Assignment Daily inspection, regular inspection, general inspection and important parts inspection
- · Maintenance in and by the workshop in principle
- We assumed daily inspection for six train sets per day, regular inspection for two train sets per day and general and important parts inspections to a capacity approximately 40% that of the Sendai Shinkansen Integrated Rolling Stock Center.
- Organization



Number of employees – We referred to the case of Tohoku Shinkansen

Table 8A.7 Number of Employees at Rolling Stock Workshop.

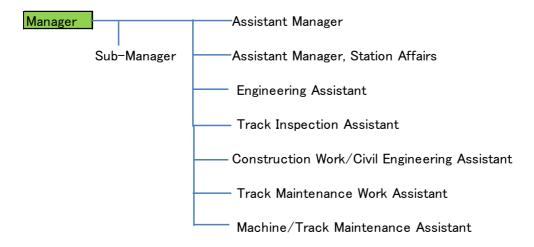
		Workshop	2030	2035	2040	remarks
	Southern Section	Thu Thiem Workshop	364	400	437	
$\overline{}$	110 A OL 1 T	0040				

Source: JICA Study Team, 2012

Service – Day service under a one-shift service system

### 5) Equipment / Facilities Depot

- Assignment Maintenance of tracks, structures and architectures
- Maintenance by the depot in principle except some equipment/facilities such as ballast track to be maintained by outside organizations.
- We assumed Railway track is composed of the north section (50% ballast track, slab track 50%) and south section (70% ballast track, slab track 30%).
- We assign the Equipment/facilities dispatching to OCC.
- We place equipment/facilities depots at intervals of approximately 40 to 50 km (seven stations each in the northern and southern sections).
- Organization



 Number of employees – Estimated with reference to the cases of Tokaido and San-yo Shinkansen railways and reflecting the improvement of the ballast track maintenance method thereafter.

Table 8A.8 Number of Employees at Equipment/Facilities Depot

	2030	2035	2040	Remarks
Thu Thiem∼Nha Thang (362 km)	650	715	780	

(Note) The number of employees in 2035 and 2040 are assumed to have increased 10% and 20%, respectively, from that in 2030 reflecting the increases in the number of trains.

Source: JICA Study Team, 2012

Table 8A.9 Outsourcing costs of ballast track maintenance

[unit: ten thousand yen]

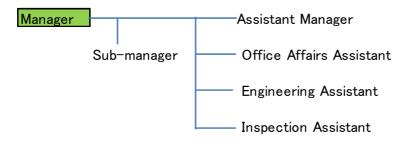
	2030	2035	2040
South section (Thu Thiem~Nha Thang)	33,900	37,300	40,700
	(4.24millionUS\$)	(4.78millionUS\$)	(5.22millionUS\$)

Source: JICA Study Team, 2012

 Service – Day service in principle, with the nighttime work dealt with as a special service under a changed time schedule.

### 6) Power Supply Depot

- Assignment Maintenance of power supply equipment/facilities
- Maintenance by the depot in principle except some equipment/facilities such as visual inspection of overhead contact line and cleaning of insulators to be maintained by outside organizations.
- We assign the power supply dispatching to OCC.
- We locate power supply depots approximately 50 km intervals (seven in the southern section)
- Organization



Number of employees – Estimated as the number of employees per kilometer as 1/km with reference to the number of employees at the inauguration of Tokaido Shinkansen.
 However, in the case of Vietnam, since electrification was the first time, it was considered the 20% increase in personnel.

Table 8A.10 Number of Employees at Power Supply Depot

(Unit: person)

	2030	2035	2040	remarks
Thu Thiem∼Nha Thang (362 km)	435	479	522	

(Note) The number of employees in 2035 and 2040 are assumed to have increased 10% and 20%, respectively, from that in 2030 reflecting the increases in the number of trains.

Source: JICA Study Team, 2012

Outsourcing costs of visual inspection of overhead contact line cleaning of insulators
 Referring to outsourcing costs of visual inspection of overhead contact line cleaning of insulators in Japanese Shinkansen, It was calculated as follows, considering manpower cost, usage of maintenance machineand and etc.

This price is at present and does not expect the inflation rate.

Table 8A.11 Outsourcing Costs of Visual Inspection of Overhead Contact Line and Cleaning of Insulators [unit : ten thousand yen ]

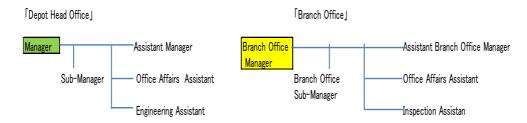
	2030	2035	2040
South section (Thu Thiem~Nha Thang)	4,740	5,214	5,688
	(0.61million US\$)	(0.67millionUS\$)	(0.73millionUS\$)

Source: JICA Study Team, 2012

• Service – Day service in principle, with the nighttime work dealt with as a special service under a changed time schedule.

### 7) Signal /Telecommunication Depot

- Assignment Maintenance of signal, telecommunication and information systems
- Maintenance by the depot in principle except the replacement of electric point machines, etc. to be outsourced to outside organizations.
- We assign the signal/telecommunication dispatching to OCC.
- A base station shall be placed in the northern and southern sections each, with branch stations placed approximately at 50 km intervals (seven in the southern section)
- Organization



• Number of employees – Estimated as the number of employees per kilometer as 1/km with reference to the number of employees at the inauguration of Tokaido Shinkansen.

Table 8A.12 Number of Employees at Signal/telecommunication Depot

(Unit: person)

				(Offic person)
	2030	2035	2040	remarks
Thu Thiem∼Nha Thang (362 km)	370	370	370	

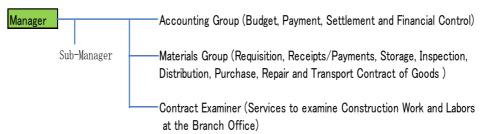
Source: JICA Study Team, 2012

 Service – Day service in principle, with the nighttime work dealt with as a special service under a changed time schedule.

### 8) Materials Center

- Assignment Requisition, receipts and payments, storage, inspection, delivery, procurement, repair and transport contracts for the goods required at the Vietnamese HSR worksite offices.
- Four materials center shall be placed: one each at Tuy Phong and Thu Thiem in the southern section. Then basic organization of a materials center is as follows.

### Organization



Number of employees

See the following Table for the number of employees based on the above concept estimated with reference to the case of Tokaido Shinkansen at its inauguration. The number s of employees at Tuy Phon reflects the existence of the rolling stock workshops that are in charge of general inspection.

Table 8A.13 Number of Employees at Materials Center

		2030	2035	2040	Remarks
Southern	Tuy Phong	30	33	36	
Section	Thu Thiem	20	22	24	
Su	btotal	50	55	60	

(Note) The number of employees in 2035 and 2040 are assumed to have increased 10% and 20%,

Respectively, from that in 2030 reflecting the increases in the number of trains.

Source: JICA Study Team, 2012

Service – Day service in principle

# **APPENDIX 10A**

# **Detailed Data on Funding Options**

To consider funding options, profitability of the operator of (a) Hanoi–Vinh section and (b) HCMC–Nha Trang section was examined.

Most of the preconditions were employed from economic and financial analysis. Specific conditions for the funding options are as follows;

- (a) HSR Company carries out the operation of high speed railways.
- (b) HSR Company owns rolling stocks and also carries out the maintenance of them.
- (c) The government owns traffic control system and the infrastructure, and develops them by its own funding.
- (d) HSR Company carries out the maintenance of the system and the infrastructure, and the maintenance costs are provided from state budget.
- (e) The government carries out the land acquisition and resettlement.
- (f) The government provides financial support, if HSR Company cannot achieve sufficient profits.
- (g) HSR Company finances the investment of the rolling stocks by equity (20%) and debt (80%).
- (h) The debt is provided by financial institutions for 7 years and the interest rate is 7%.
- (i) HSR Company starts repayment upon the commencement of the commercial operations.
- (j) HSR Company pays 50% of profit as dividend to shareholders. The amount of the dividend cannot exceed the surplus.
- (k) HSR Company receives financial supports from the government, if it cannot achieve minimum profits due to the limited ridership. Minimum profits is set as 10% operating profit.
- (I) HSR Company pays 25% of net profit as corporate tax.
- (m) HSR Company also pays rental fee of the traffic control system and infrastructure to the government. The rental fee level is determined as [Rental fee rate (30%)] x [EBIT (Earnings before interest and tax) Repayment for banks loans–Interest Payments].

Based on the conditions mentioned above, income statements for (a) Hanoi–Vinh section and (b) HCMC–Nha Trang section are examined for the following cases.

- (a) State budgets are NOT allocated for the maintenance of infrastructure, and financial supports for ridership are NOT provided to HSR Company.
- (b) State budgets are allocated for the maintenance of infrastructure, but financial supports for ridership are NOT provided to HSR Company.
- (c) State budgets are allocated for the maintenance of infrastructure, and financial supports for ridership are provided to HSR Company.

Financial support

# Ho Chi Minh City-Nha Trang Section

(a) State budget NOT allocated for maintenance, financial supports NOT provided for ridership

Income Statement	١	Year -3	Year -2	Year -1	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20
A Operating income					237.2	255.0	274.2	294.8	317.0	340.8	366.5	394.0	423.7	455.5	489.8	522.1	556.6	593.3	632.5	674.2	718.7	766.2	816.7	870.6
B Operating expenses					240.5	250.6	254.2	257.9	267.9	272.0	282.6	287.1	298.5	303.4	315.6	321.1	334.1	340.2	354.2	381.0	388.2	404.8	422.0	430.5
- Maintenance of Infrastructure					47.3	48.7	50.1	51.6	53.2	54.8	56.4	58.1	59.9	61.7	63.5	65.4	67.4	69.4	71.5	73.6	75.8	78.1	80.5	82.9
- Depreciation of rolling stock					36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
C EBITDA: Earning before Interest, Tax and Depreciation)					32.7	40.4	56.1	73.0	85.1	104.9	119.9	143.0	161.2	188.2	210.3	237.1	258.5	289.2	314.4	329.2	366.6	397.5	430.8	476.1
D EBIT: Earning before Interest and tax (after depreciation	n)				-3.3	4.4	20.0	36.9	49.1	68.9	83.8	106.9	125.2	152.1	174.2	201.1	222.5	253.2	278.3	293.2	330.5	361.4	394.7	440.1
E Interest Expenses		13.3	39.8	66.4	56.9	47.4	37.9	28.4	19.0	9.5	0.0	0.0												
·													105.0	450.4	4740	204.4	222 5	252.2	270.2	202.2	220 5	204.4	2047	440.4
F Net profit (after interest and depreciation) before tax		-13.3	-39.8	-66.4	-60.2	-43.0	-17.9	8.5	30.1	59.4	83.8	106.9	125.2	152.1	174.2	201.1	222.5	253.2	2/8.3	293.2	330.5	301.4	394.7	440.1
G Rental Fee: Profit base x Rate 3	80%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.1	37.6	45.6	52.3	60.3	66.7	75.9	83.5	88.0	99.2	108.4	118.4	132.0
		40.0				40.0	47.0					74.0		400.5	400.0		455.7	4== 0	4040		2011	050.0	070.0	
H Net profit (before subsidy, after rental fee)	N=0/	-13.3	-39.8	-66.4	-60.2	-43.0	-17.9	8.5	30.1	59.4	83.8	74.8	87.6	106.5	122.0	140.7	155.7	177.2	194.8	205.2	231.4	253.0	276.3	
	25%	0.0	0.0	0.0	0.0	0.0	0.0	2.1	7.5	14.8	21.0	18.7	21.9	26.6	30.5	35.2	38.9	44.3	48.7	51.3	57.8	63.2	69.1	77.0
Financial support by the government		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
K Net profixt after tax (after subsidy)		-13.3	-39.8	-66.4	-60.2	-43.0	-17.9	6.4	22.6	44.5	62.9	56.1	65.7	79.9	91.5	105.6	116.8	132.9	146.1	153.9	173.5	189.7	207.2	231.0
L Dividend 5	50%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	39.9	45.7	52.8	58.4	66.5	73.1	77.0	86.8	94.9	103.6	115.5
Financing	l	Year -3	Year -2	Year -1	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20
	7				135.4	135.4	135.4	135.4	135.4	135.4	135.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Loan Balance		189.6	568.8	948.0	812.6	677.1	541.7	406.3	270.9	135.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	7%	13.3	39.8	66.4	56.9	47.4	37.9	28.4	19.0	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dividend	١	Year -3	Year -2	Year -1	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20
Surplus / Deficit (before dividend)		-13.3	-53.1	-119.4	-179.6	-222.7	-240.6	-234.2	-211.6	-167.1	-104.2	-48.1	17.7	88.7	140.2	200.1	264.1	338.6	418.3	499.1	595.7	698.6	811.0	938.4
Dividend	50%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	39.9	45.7	52.8	58.4	66.5	73.1	77.0	86.8	94.9	103.6	115.5
Surplus / Deficit (after dividend)		-13.3	-53.1	-119.4	-179.6	-222.7	-240.6	-234.2	-211.6	-167.1	-104.2	-48.1	8.8	48.8	94.5	147.3	205.7	272.1	345.2	422.2	508.9	603.8	707.4	822.9
Equity	1	Year -3	Year -2	Year -1	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20
Cash outflow	-	47.4	94.8	94.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cash iniflow		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	39.9	45.7	52.8	58.4	66.5	73.1	77.0	86.8	94.9	103.6	115.5
Net Cash Flow		-47.4	-94.8	-94.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	39.9	45.7	52.8	58.4	66.5	73.1	77.0	86.8	94.9		115.5
Equity IRR	8.5%																							
Financial support by the government		Year -3	Year -2	Year -1	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20
Financial support by the government  Maintenance budget for infrastructure	\ \ \	Year -3	Year -2	Year -1	<b>Year 1</b> 0.0	<b>Year 2</b> 0.0	<b>Year 3</b> 0.0	<b>Year 4</b> 0.0	<b>Year 5</b> 0.0	<b>Year 6</b> 0.0	<b>Year 7</b> 0.0	<b>Year 8</b> 0.0	<b>Year 9</b>	Year 10	<b>Year 11</b>	Year 12	<b>Year 13</b>	<b>Year 14</b>	<b>Year 15</b>	<b>Year 16</b>	<b>Year 17</b>	<b>Year 18</b>	<b>Year 19</b> 0.0	<b>Year 20</b> 0.0
	\ \ \	Year -3	Year -2	Year -1																				
Maintenance budget for infrastructure	\	Year -3	Year -2	Year -1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 49.0	0.0	0.0 55.7	0.0 59.3	0.0 63.2	0.0	0.0 71.9	0.0 76.6	0.0	0.0 87.1

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Income Statement		Year -3	Year -2	Year -1	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20
A Operating income					237.2	255.0	274.2	294.8	317.0	340.8	366.5	394.0	423.7	455.5	489.8	522.1	556.6	593.3	632.5	674.2	718.7	766.2	816.7	870.6
B Operating expenses					193.2	201.9	204.0	206.2	214.7	217.2	226.2	229.0	238.6	241.8	252.1	255.6	266.7	270.8	282.7	307.4	312.4	326.6	341.6	347.7
- Maintenance of Infrastructure					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- Depreciation of rolling stock					36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
C EBITDA: Earning before Interest, Tax and Depreciation	on)				80.0	89.1	106.2	124.6	138.3	159.7	176.3	201.1	221.1	249.8	273.8	302.5	325.9	358.6	385.9	402.9	442.4	475.6	511.2	559.0
D EBIT: Earning before Interest and tax (after depreciate	ion)				43.9	53.1	70.1	88.6	102.3	123.7	140.3	165.0	185.1	213.8	237.7	266.5	289.9	322.6	349.8	366.8	406.3	439.5	475.2	523.0
E Interest Expenses		13.3	39.8	66.4	56.9	47.4	37.9	28.4	19.0	9.5	0.0	0.0												
F Net profit (after interest and depreciation) before tax		-13.3	-39.8	-66.4	-12.9	5.7	32.2	60.1	83.3	114.2	140.3	165.0	185.1	213.8	237.7	266.5	289.9	322.6	349.8	366.8	406.3	439.5	475.2	523.0
G Rental Fee: Profit base x Rate	30%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	49.5	55.5	64.1	71.3	79.9	87.0	96.8	104.9	110.0	121.9	131.9	142.5	156.9
H Net profit (before subsidy, after rental fee)		-13.3	-39.8	-66.4	-12.9	5.7	32.2	60.1	83.3	114.2	138.8	115.5	129.5	149.6	166.4	186.5	202.9	225.8	244.9	256.8	284.4	307.7	332.6	366.1
Corporate tax	25%	0.0	0.0	0.0	0.0	1.4	8.1	15.0	20.8	28.5	34.7	28.9	32.4	37.4	41.6	46.6	50.7	56.4	61.2	64.2	71.1	76.9	83.2	91.5
Financial support by the government		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
K Net profixt after tax (after subsidy)		-13.3	-39.8	-66.4	-12.9	4.3	24.2	45.1	62.5	85.6	104.1	86.6	97.2	112.2	124.8	139.9	152.2	169.3	183.7	192.6	213.3	230.7	249.5	274.6
L Dividend	50%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	42.8	52.1	43.3	48.6	56.1	62.4	70.0	76.1	84.7	91.8	96.3	106.7	115.4	124.7	137.3
Financing		Year -3	Year -2	Year -1	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20
Financing  Repayment (Years)	7	Year -3	Year -2	Year -1	Year 1 135.4	<b>Year 2</b> 135.4	<b>Year 3</b> 135.4	<b>Year 4</b> 135.4	<b>Year 5</b> 135.4	<b>Year 6</b> 135.4	<b>Year 7</b> 135.4	<b>Year 8</b> 0.0	<b>Year 9</b>	Year 10	<b>Year 11</b>	<b>Year 12</b>	<b>Year 13</b>	Year 14	Year 15	<b>Year 16</b>	<b>Year 17</b>	<b>Year 18</b>	<b>Year 19</b>	<b>Year 20</b> 0.0
	7	Year -3	<b>Year -2</b> 568.8	<b>Year -1</b> 948.0																				
Repayment (Years)	7				135.4	135.4	135.4	135.4	135.4	135.4	135.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Repayment (Years) Loan Balance		189.6 13.3	568.8 39.8	948.0	135.4 812.6	135.4 677.1 47.4	135.4 541.7 37.9	135.4 406.3 28.4	135.4 270.9 19.0	135.4 135.4 9.5	135.4 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
Repayment (Years) Loan Balance Interest (Interbank rate + Margin)		189.6 13.3	568.8 39.8 Year -2	948.0 66.4	135.4 812.6 56.9	135.4 677.1 47.4	135.4 541.7 37.9	135.4 406.3 28.4	135.4 270.9 19.0	135.4 135.4 9.5	135.4 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0 Year 17	0.0 0.0 0.0 Year 18	0.0 0.0 0.0	0.0 0.0 0.0 Year 20
Repayment (Years) Loan Balance Interest (Interbank rate + Margin)  Dividend		189.6 13.3 Year -3 -13.3	568.8 39.8 Year -2	948.0 66.4 Year -1	135.4 812.6 56.9 Year 1	135.4 677.1 47.4 Year 2	135.4 541.7 37.9 Year 3	135.4 406.3 28.4 Year 4	135.4 270.9 19.0 Year 5	135.4 135.4 9.5 Year 6	135.4 0.0 0.0 Year 7	0.0 0.0 0.0 Year 8	0.0 0.0 0.0 Year 9	0.0 0.0 0.0 Year 10	0.0 0.0 0.0 Vear 11	0.0 0.0 0.0 Vear 12	0.0 0.0 0.0 Year 13	0.0 0.0 0.0 Year 14	0.0 0.0 0.0 Year 15	0.0 0.0 0.0 Vear 16	0.0 0.0 0.0 Year 17	0.0 0.0 0.0 Year 18	0.0 0.0 0.0 Year 19	0.0 0.0 0.0 Year 20
Repayment (Years) Loan Balance Interest (Interbank rate + Margin)  Dividend  Surplus / Deficit (before dividend)	7%	189.6 13.3 Year -3 -13.3	568.8 39.8 Year -2 -53.1 0.0	948.0 66.4 Year -1 -119.4 0.0	135.4 812.6 56.9 Year 1 -132.4 0.0	135.4 677.1 47.4 Year 2	135.4 541.7 37.9 Year 3 -104.0 0.0	135.4 406.3 28.4 Year 4	135.4 270.9 19.0 Year 5	135.4 135.4 9.5 <b>Year 6</b> 87.5	135.4 0.0 0.0 Year 7	0.0 0.0 0.0 <b>Year 8</b>	0.0 0.0 0.0 Year 9 237.2 48.6	0.0 0.0 0.0 Year 10	0.0 0.0 0.0 <b>Year 11</b>	0.0 0.0 0.0 Year 12	0.0 0.0 0.0 Year 13	0.0 0.0 0.0 Year 14	0.0 0.0 0.0 Year 15	0.0 0.0 0.0 Year 16	0.0 0.0 0.0 Year 17	0.0 0.0 0.0 Year 18 1,063.4 115.4	0.0 0.0 0.0 <b>Year 19</b>	0.0 0.0 0.0 Year 20 1,347.3 137.3
Repayment (Years) Loan Balance Interest (Interbank rate + Margin)  Dividend  Surplus / Deficit (before dividend) Dividend	7%	189.6 13.3 Year -3 -13.3 0.0 -13.3	568.8 39.8 Year -2 -53.1 0.0 -53.1	948.0 66.4 Year -1 -119.4 0.0	135.4 812.6 56.9 Year 1 -132.4 0.0	135.4 677.1 47.4 Year 2 -128.1 0.0 -128.1	135.4 541.7 37.9 Year 3 -104.0 0.0 -104.0	135.4 406.3 28.4 Year 4 -58.9 0.0	135.4 270.9 19.0 Year 5 3.6 1.8 1.8	135.4 135.4 9.5 Year 6 87.5 42.8 44.6	135.4 0.0 0.0 Year 7 148.8 52.1	0.0 0.0 0.0 Year 8 183.3 43.3 140.0	0.0 0.0 0.0 Year 9 237.2 48.6 188.6	0.0 0.0 0.0 Year 10 300.8 56.1	0.0 0.0 0.0 <b>Year 11</b> 369.5 62.4 307.1	0.0 0.0 0.0 <b>Year 12</b> 447.0 70.0 377.1	0.0 0.0 0.0 Year 13 529.3 76.1 453.2	0.0 0.0 0.0 Year 14 622.5 84.7	0.0 0.0 0.0 Year 15 721.5 91.8 629.7	0.0 0.0 0.0 Year 16 822.2 96.3 726.0	0.0 0.0 0.0 Year 17 939.3 106.7 832.6	0.0 0.0 0.0 <b>Year 18</b> 1,063.4 115.4 948.0	0.0 0.0 0.0 1,197.5 124.7 1,072.7	0.0 0.0 0.0 1,347.3 137.3 1,210.0
Repayment (Years) Loan Balance Interest (Interbank rate + Margin)  Dividend  Surplus / Deficit (before dividend) Dividend Surplus / Deficit (after dividend)	7%	189.6 13.3 Year -3 -13.3 0.0 -13.3	568.8 39.8 Year -2 -53.1 0.0 -53.1	948.0 66.4 <b>Year -1</b> -119.4 0.0 -119.4	135.4 812.6 56.9 Year 1 -132.4 0.0 -132.4	135.4 677.1 47.4 Year 2 -128.1 0.0 -128.1	135.4 541.7 37.9 Year 3 -104.0 0.0 -104.0	135.4 406.3 28.4 Year 4 -58.9 0.0 -58.9	135.4 270.9 19.0 Year 5 3.6 1.8 1.8	135.4 135.4 9.5 Year 6 87.5 42.8 44.6	135.4 0.0 0.0 Year 7 148.8 52.1 96.7	0.0 0.0 0.0 Year 8 183.3 43.3 140.0	0.0 0.0 0.0 Year 9 237.2 48.6 188.6	0.0 0.0 0.0 Year 10 300.8 56.1 244.7	0.0 0.0 0.0 <b>Year 11</b> 369.5 62.4 307.1	0.0 0.0 0.0 <b>Year 12</b> 447.0 70.0 377.1	0.0 0.0 0.0 Year 13 529.3 76.1 453.2	0.0 0.0 0.0 Year 14 622.5 84.7 537.8	0.0 0.0 0.0 Year 15 721.5 91.8 629.7	0.0 0.0 0.0 Year 16 822.2 96.3 726.0	0.0 0.0 0.0 Year 17 939.3 106.7 832.6	0.0 0.0 0.0 <b>Year 18</b> 1,063.4 115.4 948.0	0.0 0.0 0.0 1,197.5 124.7 1,072.7	0.0 0.0 0.0 1,347.3 137.3 1,210.0
Repayment (Years) Loan Balance Interest (Interbank rate + Margin)  Dividend  Surplus / Deficit (before dividend) Dividend Surplus / Deficit (after dividend)  Equity	7%	189.6 13.3 Year -3 -13.3 0.0 -13.3	568.8 39.8 Year -2 -53.1 0.0 -53.1	948.0 66.4 Year -1 -119.4 0.0 -119.4 Year -1	135.4 812.6 56.9 Year 1 -132.4 0.0 -132.4	135.4 677.1 47.4 Year 2 -128.1 0.0 -128.1	135.4 541.7 37.9 Year 3 -104.0 0.0 -104.0	135.4 406.3 28.4 Year 4 -58.9 0.0 -58.9	135.4 270.9 19.0 Year 5 3.6 1.8 1.8	135.4 135.4 9.5 Year 6 87.5 42.8 44.6	135.4 0.0 0.0 Year 7 148.8 52.1 96.7	0.0 0.0 0.0 Year 8 183.3 43.3 140.0	0.0 0.0 0.0 Year 9 237.2 48.6 188.6	0.0 0.0 0.0 Year 10 300.8 56.1 244.7	0.0 0.0 0.0 7ear 11 369.5 62.4 307.1	0.0 0.0 0.0 7ear 12 447.0 70.0 377.1	0.0 0.0 0.0 Year 13 529.3 76.1 453.2	0.0 0.0 0.0 Year 14 622.5 84.7 537.8	0.0 0.0 0.0 721.5 91.8 629.7	0.0 0.0 0.0 Year 16 822.2 96.3 726.0	0.0 0.0 0.0 Year 17 939.3 106.7 832.6	0.0 0.0 0.0 1,063.4 115.4 948.0	0.0 0.0 0.0 Year 19 1,197.5 124.7 1,072.7	0.0 0.0 0.0 1,347.3 137.3 1,210.0
Repayment (Years) Loan Balance Interest (Interbank rate + Margin)  Dividend Surplus / Deficit (before dividend) Dividend Surplus / Deficit (after dividend)  Equity  Cash outflow	7%	189.6 13.3 Year -3 -13.3 0.0 -13.3 Year -3	568.8 39.8 Year -2 -53.1 0.0 -53.1 Year -2 94.8	948.0 66.4 Year -1 -119.4 0.0 -119.4 Year -1 94.8	135.4 812.6 56.9 Year 1 -132.4 0.0 -132.4 Year 1 0.0	135.4 677.1 47.4 Year 2 -128.1 0.0 -128.1 Year 2 0.0	135.4 541.7 37.9 Year 3 -104.0 0.0 -104.0 Year 3	135.4 406.3 28.4 Year 4 -58.9 0.0 -58.9 Year 4	135.4 270.9 19.0 Year 5 3.6 1.8 1.8 Year 5	135.4 135.4 9.5 Year 6 87.5 42.8 44.6 Year 6	135.4 0.0 0.0 Year 7 148.8 52.1 96.7 Year 7	0.0 0.0 0.0 Year 8 183.3 43.3 140.0 Year 8	0.0 0.0 0.0 237.2 48.6 188.6	0.0 0.0 0.0 Year 10 300.8 56.1 244.7 Year 10	0.0 0.0 0.0 <b>Year 11</b> 369.5 62.4 307.1	0.0 0.0 0.0 Year 12 447.0 70.0 377.1	0.0 0.0 0.0 Year 13 529.3 76.1 453.2 Year 13	0.0 0.0 0.0 Year 14 622.5 84.7 537.8 Year 14	0.0 0.0 0.0 721.5 91.8 629.7	0.0 0.0 0.0 7ear 16 822.2 96.3 726.0 Year 16 0.0 96.3	0.0 0.0 0.0 939.3 106.7 832.6 Year 17 0.0 106.7	0.0 0.0 0.0 Year 18 1,063.4 115.4 948.0 Year 18 0.0 115.4	0.0 0.0 0.0 Year 19 1,197.5 124.7 1,072.7 Year 19	0.0 0.0 0.0 1,347.3 137.3 1,210.0 Year 20 0.0 137.3
Repayment (Years) Loan Balance Interest (Interbank rate + Margin)  Dividend Surplus / Deficit (before dividend) Dividend Surplus / Deficit (after dividend)  Equity  Cash outflow Cash iniflow	7%	189.6 13.3 Year -3 -13.3 0.0 -13.3 Year -3 47.4 0.0	568.8 39.8 Year -2 -53.1 0.0 -53.1 Year -2 94.8 0.0	948.0 66.4 Year -1 -119.4 0.0 -119.4 Year -1 94.8 0.0	135.4 812.6 56.9 Year 1 -132.4 0.0 -132.4 Year 1 0.0 0.0	135.4 677.1 47.4 Year 2 -128.1 0.0 -128.1 Year 2 0.0 0.0	135.4 541.7 37.9 Year 3 -104.0 0.0 -104.0 Year 3 0.0 0.0	135.4 406.3 28.4 Year 4 -58.9 0.0 -58.9 Year 4 0.0 0.0	135.4 270.9 19.0 Year 5 3.6 1.8 1.8 Year 5 0.0 1.8	135.4 135.4 9.5 Year 6 87.5 42.8 44.6 Year 6 0.0 42.8	135.4 0.0 0.0 Year 7 148.8 52.1 96.7 Year 7 0.0 52.1	0.0 0.0 0.0 183.3 43.3 140.0 Year 8 0.0 43.3	0.0 0.0 0.0 237.2 48.6 188.6 Year 9	0.0 0.0 0.0 300.8 56.1 244.7 Year 10 0.0 56.1	0.0 0.0 0.0 7ear 11 369.5 62.4 307.1 7ear 11 0.0 62.4	0.0 0.0 0.0 447.0 70.0 377.1 Year 12 0.0 70.0	0.0 0.0 0.0 Year 13 529.3 76.1 453.2 Year 13 0.0 76.1	0.0 0.0 0.0 Year 14 622.5 84.7 537.8 Year 14 0.0 84.7	0.0 0.0 0.0 721.5 91.8 629.7 Year 15 0.0 91.8	0.0 0.0 0.0 7ear 16 822.2 96.3 726.0 Year 16 0.0 96.3	0.0 0.0 0.0 939.3 106.7 832.6 Year 17 0.0 106.7	0.0 0.0 0.0 Year 18 1,063.4 115.4 948.0 Year 18 0.0 115.4	0.0 0.0 0.0 1,197.5 124.7 1,072.7 Year 19 0.0 124.7	0.0 0.0 0.0 1,347.3 137.3 1,210.0 Year 20 0.0 137.3
Repayment (Years) Loan Balance Interest (Interbank rate + Margin)  Dividend Surplus / Deficit (before dividend) Dividend Surplus / Deficit (after dividend)  Equity Cash outflow Cash iniflow Net Cash Flow	50%	189.6 13.3 Year -3 -13.3 0.0 -13.3 Year -3 47.4 0.0	568.8 39.8 Year -2 -53.1 0.0 -53.1 Year -2 94.8 0.0 -94.8	948.0 66.4 Year -1 -119.4 0.0 -119.4 Year -1 94.8 0.0 -94.8	135.4 812.6 56.9 Year 1 -132.4 0.0 -132.4 Year 1 0.0 0.0	135.4 677.1 47.4 Year 2 -128.1 0.0 -128.1 Year 2 0.0 0.0	135.4 541.7 37.9 Year 3 -104.0 0.0 -104.0 Year 3 0.0 0.0	135.4 406.3 28.4 Year 4 -58.9 0.0 -58.9 Year 4 0.0 0.0	135.4 270.9 19.0 Year 5 3.6 1.8 1.8 Year 5 0.0 1.8 1.8	135.4 135.4 9.5 Year 6 87.5 42.8 44.6 Year 6 0.0 42.8 42.8	135.4 0.0 0.0 Year 7 148.8 52.1 96.7 Year 7 0.0 52.1	0.0 0.0 0.0 183.3 43.3 140.0 Year 8 0.0 43.3 43.3	0.0 0.0 0.0 237.2 48.6 188.6 Year 9 0.0 48.6 48.6	0.0 0.0 0.0 300.8 56.1 244.7 Year 10 0.0 56.1	0.0 0.0 0.0 Year 11 369.5 62.4 307.1 Year 11 0.0 62.4 62.4	0.0 0.0 0.0 447.0 70.0 377.1 Year 12 0.0 70.0 70.0	0.0 0.0 0.0 529.3 76.1 453.2 Year 13 0.0 76.1	0.0 0.0 0.0 622.5 84.7 537.8 Year 14 0.0 84.7 84.7	0.0 0.0 0.0 721.5 91.8 629.7 Year 15 0.0 91.8 91.8	0.0 0.0 0.0 822.2 96.3 726.0 Year 16 0.0 96.3 96.3	0.0 0.0 0.0 939.3 106.7 832.6 Year 17 0.0 106.7	0.0 0.0 0.0 1,063.4 115.4 948.0 Year 18 0.0 115.4	0.0 0.0 0.0 1,197.5 124.7 1,072.7 Year 19 0.0 124.7	0.0 0.0 0.0 1,347.3 137.3 1,210.0 Year 20 0.0 137.3 137.3
Repayment (Years) Loan Balance Interest (Interbank rate + Margin)  Dividend Surplus / Deficit (before dividend) Dividend Surplus / Deficit (after dividend)  Equity  Cash outflow Cash iniflow Net Cash Flow Equity IRR	50%	189.6 13.3 Year -3 -13.3 0.0 -13.3 Year -3 47.4 0.0 -47.4	568.8 39.8 Year -2 -53.1 0.0 -53.1 Year -2 94.8 0.0 -94.8	948.0 66.4 Year -1 -119.4 0.0 -119.4 Year -1 94.8 0.0 -94.8	135.4 812.6 56.9 Year 1 -132.4 0.0 -132.4 Year 1 0.0 0.0	135.4 677.1 47.4 Year 2 -128.1 0.0 -128.1 Year 2 0.0 0.0	135.4 541.7 37.9 Year 3 -104.0 0.0 -104.0 Year 3 0.0 0.0	135.4 406.3 28.4 Year 4 -58.9 0.0 -58.9 Year 4 0.0 0.0	135.4 270.9 19.0 Year 5 3.6 1.8 1.8 Year 5 0.0 1.8 1.8	135.4 135.4 9.5 Year 6 87.5 42.8 44.6 Year 6 0.0 42.8 42.8	135.4 0.0 0.0 Year 7 148.8 52.1 96.7 Year 7 0.0 52.1 52.1	0.0 0.0 0.0 183.3 43.3 140.0 Year 8 0.0 43.3 43.3	0.0 0.0 0.0 237.2 48.6 188.6 Year 9 0.0 48.6 48.6	0.0 0.0 0.0 300.8 56.1 244.7 Year 10 0.0 56.1 56.1	0.0 0.0 0.0 Year 11 369.5 62.4 307.1 Year 11 0.0 62.4 62.4	0.0 0.0 0.0 447.0 70.0 377.1 Year 12 0.0 70.0 70.0	0.0 0.0 0.0 529.3 76.1 453.2 Year 13 0.0 76.1	0.0 0.0 0.0 622.5 84.7 537.8 Year 14 0.0 84.7 84.7	0.0 0.0 0.0 721.5 91.8 629.7 Year 15 0.0 91.8 91.8	0.0 0.0 0.0 822.2 96.3 726.0 Year 16 0.0 96.3 96.3	0.0 0.0 0.0 939.3 106.7 832.6 Year 17 0.0 106.7	0.0 0.0 0.0 1,063.4 115.4 948.0 Year 18 0.0 115.4	0.0 0.0 0.0 1,197.5 124.7 1,072.7 Year 19 0.0 124.7	0.0 0.0 0.0 1,347.3 137.3 1,210.0 Year 20 0.0 137.3 137.3
Repayment (Years) Loan Balance Interest (Interbank rate + Margin)  Dividend Surplus / Deficit (before dividend) Dividend Surplus / Deficit (after dividend)  Equity Cash outflow Cash iniflow Net Cash Flow Equity IRR  Financial support by the government	50%	189.6 13.3 Year -3 -13.3 0.0 -13.3 Year -3 47.4 0.0 -47.4	568.8 39.8 Year -2 -53.1 0.0 -53.1 Year -2 94.8 0.0 -94.8	948.0 66.4 Year -1 -119.4 0.0 -119.4 Year -1 94.8 0.0 -94.8	135.4 812.6 56.9 Year 1 -132.4 0.0 -132.4 Year 1 0.0 0.0 0.0	135.4 677.1 47.4 Year 2 -128.1 0.0 -128.1 Year 2 0.0 0.0 0.0 Vear 2 48.7 25.5	135.4 541.7 37.9 Year 3 -104.0 0.0 -104.0 Year 3 0.0 0.0 0.0 -104.0	135.4 406.3 28.4 Year 4 -58.9 0.0 -58.9 Year 4 0.0 0.0 0.0 Year 4 51.6 29.5	135.4 270.9 19.0 Year 5 3.6 1.8 1.8 Year 5 0.0 1.8 1.8 Year 5 53.2 31.7	135.4 135.4 9.5 Year 6 87.5 42.8 44.6 Year 6 0.0 42.8 42.8	135.4 0.0 0.0 Year 7 148.8 52.1 96.7 Year 7 0.0 52.1 52.1 Year 7 56.4 36.6	0.0 0.0 0.0 183.3 43.3 140.0 Year 8 0.0 43.3 43.3 Year 8 58.1	0.0 0.0 0.0 237.2 48.6 188.6 Year 9 0.0 48.6 48.6 Year 9 59.9	0.0 0.0 0.0 300.8 56.1 244.7 Year 10 56.1 56.1 Year 10 45.6	0.0 0.0 0.0 369.5 62.4 307.1 0.0 62.4 62.4	0.0 0.0 0.0 447.0 70.0 377.1 Year 12 0.0 70.0 70.0 70.0	0.0 0.0 0.0 529.3 76.1 453.2 Year 13 0.0 76.1 76.1 Year 13	0.0 0.0 0.0 0.0 622.5 84.7 537.8 Year 14 0.0 84.7 84.7 Year 14 69.4	0.0 0.0 0.0 721.5 91.8 629.7 Year 15 91.8 91.8	0.0 0.0 0.0 0.0 822.2 96.3 726.0 Year 16 0.0 96.3 96.3	0.0 0.0 0.0 939.3 106.7 832.6 Year 17 0.0 106.7 Year 17 75.8 71.9	0.0 0.0 0.0 0.0 1,063.4 115.4 948.0 Year 18 0.0 115.4 115.4 Year 18 78.1	0.0 0.0 0.0 1,197.5 124.7 1,072.7 Year 19 0.0 124.7 124.7 Year 19 80.5 81.7	0.0 0.0 0.0 1,347.3 137.3 1,210.0 Year 20 0.0 137.3 137.3 Year 20 82.9
Repayment (Years) Loan Balance Interest (Interbank rate + Margin)  Dividend Surplus / Deficit (before dividend) Dividend Surplus / Deficit (after dividend)  Equity Cash outflow Cash iniflow Net Cash Flow Equity IRR  Financial support by the government Maintenance budget for infrastructure	50%	189.6 13.3 Year -3 -13.3 0.0 -13.3 Year -3 47.4 0.0 -47.4	568.8 39.8 Year -2 -53.1 0.0 -53.1 Year -2 94.8 0.0 -94.8	948.0 66.4 Year -1 -119.4 0.0 -119.4 Year -1 94.8 0.0 -94.8	135.4 812.6 56.9 Year 1 -132.4 0.0 -132.4 Year 1 0.0 0.0 Vear 1 47.3	135.4 677.1 47.4 Year 2 -128.1 0.0 -128.1 Year 2 0.0 0.0 0.0 Vear 2 48.7	135.4 541.7 37.9 Year 3 -104.0 0.0 -104.0 Year 3 0.0 0.0 0.0	135.4 406.3 28.4 Year 4 -58.9 0.0 -58.9 Year 4 0.0 0.0 0.0	135.4 270.9 19.0 Year 5 3.6 1.8 1.8 Year 5 0.0 1.8 1.8	135.4 135.4 9.5 Year 6 87.5 42.8 44.6 Year 6 0.0 42.8 42.8 Year 6 54.8	135.4 0.0 0.0 Year 7 148.8 52.1 96.7 Year 7 0.0 52.1 52.1 Year 7	0.0 0.0 0.0 183.3 43.3 140.0 Year 8 0.0 43.3 43.3	0.0 0.0 0.0 237.2 48.6 188.6 Year 9 0.0 48.6 48.6	0.0 0.0 0.0 300.8 56.1 244.7 Year 10 0.0 56.1 Year 10 61.7	0.0 0.0 0.0 369.5 62.4 307.1 Year 11 0.0 62.4 62.4	0.0 0.0 0.0 447.0 70.0 377.1 Year 12 0.0 70.0 70.0	0.0 0.0 0.0 529.3 76.1 453.2 Year 13 0.0 76.1 Year 13	0.0 0.0 0.0 0.0 622.5 84.7 537.8 Year 14 0.0 84.7 84.7	0.0 0.0 0.0 721.5 91.8 629.7 Year 15 0.0 91.8 91.8	0.0 0.0 0.0 0.0 822.2 96.3 726.0 Year 16 0.0 96.3 96.3	0.0 0.0 0.0 939.3 106.7 832.6 Year 17 0.0 106.7 Year 17 75.8	0.0 0.0 0.0 1,063.4 115.4 948.0 Year 18 0.0 115.4 115.4 Year 18 78.1	0.0 0.0 0.0 1,197.5 124.7 1,072.7 Year 19 0.0 124.7 124.7 Year 19 80.5	0.0 0.0 0.0 1,347.3 137.3 1,210.0 Year 20 0.0 137.3 137.3 Year 20 82.9

# (b) State budget allocated for maintenance, financial supports NOT provided for ridership

Study for the Formulation of High Speed Railway Projects on Hanoi–Vinh and Ho Chi Minh–Nha Trang Sections
FINAL REPORT
Volume II Part B Detailed Study on HCMC-Nha Trang Section of NSHSR

(c) State budget allocated for maintenance, financial supports provided for ridership

Income Statement		Year -3	Year -2	Year -1	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	ear 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20
A Operating income					237.2	255.0	274.2	294.8	317.0	340.8	366.5	394.0	423.7	455.5	489.8	522.1	556.6	593.3	632.5	674.2	718.7	766.2	816.7	870.6
B Operating expenses					193.2	201.9	204.0	206.2	214.7	217.2	226.2	229.0	238.6	241.8	252.1	255.6	266.7	270.8	282.7	307.4	312.4	326.6	341.6	347.7
- Maintenance of Infrastructure					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- Depreciation of rolling stock					36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
C EBITDA: Earning before Interest, Tax and Depreciation)	)				80.0	89.1	106.2	124.6	138.3	159.7	176.3	201.1	221.1	249.8	273.8	302.5	325.9	358.6	385.9	402.9	442.4	475.6	511.2	559.0
D EBIT: Earning before Interest and tax (after depreciation	n)				43.9	53.1	70.1	88.6	102.3	123.7	140.3	165.0	185.1	213.8	237.7	266.5	289.9	322.6	349.8	366.8	406.3	439.5	475.2	523.0
E Interest Expenses		13.3	39.8	66.4	56.9	47.4	37.9	28.4	19.0	9.5	0.0	0.0												
F Net profit (after interest and depreciation) before tax		-13.3	-39.8	-66.4	-12.9	5.7	32.2	60.1	83.3	114.2	140.3	165.0	185.1	213.8	237.7	266.5	289.9	322.6	349.8	366.8	406.3	439.5	475.2	523.0
G Rental Fee: Profit base x Rate 3	30%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	49.5	55.5	64.1	71.3	79.9	87.0	96.8	104.9	110.0	121.9	131.9	142.5	156.9
H Net profit (before subsidy, after rental fee)		-13.3	-39.8	-66.4	-12.9	5.7	32.2	60.1	83.3	114.2	138.8	115.5	129.5	149.6	166.4	186.5	202.9	225.8	244.9	256.8	284.4	307.7	332.6	366.1
, , ,	25%	0.0	0.0	0.0	0.0	1.4	8.1	15.0	20.8	28.5	34.7	28.9	32.4	37.4	41.6	46.6	50.7	56.4	61.2	64.2	71.1	76.9	83.2	91.5
Financial support by the government	2070	0.0	0.0	0.0	36.6	19.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
K Net profixt after tax (after subsidy)		-13.3	-39.8	-66.4	23.7	24.1	24.2	45.1	62.5	85.6	104.1	86.6	97.2		124.8	139.9	152.2	169.3	183.7	192.6	213.3	230.7	249.5	
Net proint after tax (after subsidy)		-10.0	-55.0	-00.4	20.1	27.1	24.2	70.1	02.5	00.0	104.1	00.0	51.2	112.2	124.0	100.0	102.2	100.0	100.7	102.0	210.0	200.1	240.0	214.0
L Dividend 5	50%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.1	42.8	52.1	43.3	48.6	56.1	62.4	70.0	76.1	84.7	91.8	96.3	106.7	115.4	124.7	137.3
										-								-						
Financing		Year -3	Year -2	Year -1	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	/ear 11	Year 12	Year 13	Year 14	Year 15	Year 16	Year 17	Year 18	Year 19	Year 20
Repayment (Years)	7				135.4	135.4	135.4	135.4	135.4	135.4	135.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Loan Balance		189.6	568.8	948.0	812.6	677.1	541.7	406.3	270.9	135.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interest (Interbank rate + Margin)																				0.0	0.0	0.0		
"" (" Itorbailly rate + Waigin)	7%	13.3	39.8	66.4	56.9	47.4	37.9	28.4	19.0	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
and the factor of the factor o	7%	13.3	39.8	66.4	56.9	47.4	37.9	28.4	19.0											0.0	0.0	0.0	0.0	
Dividend				66.4 Year -1	56.9 Year 1	47.4 Year 2			19.0 Year 5					0.0 Year 10						0.0	0.0	0.0	0.0	
-			Year -2							Year 6										0.0 <b>Year 16</b> 850.5	0.0 Year 17	0.0 <b>Year 18</b>	0.0	Year 20
Dividend		Year -3	Year -2	Year -1	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	ear 11	Year 12	Year 13	Year 14	Year 15	0.0 <b>Year 16</b>	0.0 <b>Year 17</b> 967.5	0.0 <b>Year 18</b> 1,091.6	0.0 Year 19	Year 20 1,375.5
Dividend Surplus / Deficit (before dividend)		<b>Year -3</b>	<b>Year -2</b> -53.1 0.0	<b>Year -1</b> -119.4	Year 1 -95.7	Year 2 -71.7	<b>Year 3</b> -47.5	Year 4 -2.4	<b>Year 5</b> 60.1	<b>Year 6</b> 115.7	<b>Year 7</b> 177.0	Year 8 211.6 43.3	Year 9 265.4	Year 10 \	<b>7ear 11</b>	Year 12 475.3	<b>Year 13</b> 557.5	<b>Year 14</b> 650.7 84.7	<b>Year 15</b>	0.0 <b>Year 16</b> 850.5	0.0 Year 17 967.5 106.7	0.0 Year 18 1,091.6 115.4	0.0 Year 19	Year 20 1,375.5 137.3
Dividend Surplus / Deficit (before dividend) Dividend Surplus / Deficit (after dividend)	50%	Year -3 -13.3 0.0 -13.3	-53.1 0.0 -53.1	Year -1 -119.4 0.0 -119.4	Year 1 -95.7 0.0 -95.7	Year 2 -71.7 0.0 -71.7	Year 3 -47.5 0.0 -47.5	-2.4 0.0 -2.4	Year 5 60.1 30.1 30.1	Year 6 115.7 42.8 72.9	Year 7 177.0 52.1 124.9	Year 8 211.6 43.3 168.3	Year 9 265.4 48.6 216.8	Year 10 1 329.1 56.1 272.9	7ear 11 397.8 62.4 335.4	Year 12 475.3 70.0 405.3	Year 13 557.5 76.1 481.4	Year 14 650.7 84.7 566.1	749.7 91.8 657.9	0.0 Year 16 850.5 96.3 754.2	967.5 106.7 860.9	0.0 Year 18 1,091.6 115.4 976.2	0.0 Year 19 1,225.7 124.7 1,101.0	Year 20 1,375.5 137.3 1,238.2
Dividend  Surplus / Deficit (before dividend) Dividend Surplus / Deficit (after dividend)  Equity	50%	Year -3 -13.3 0.0 -13.3 Year -3	Year -2 -53.1 0.0 -53.1 Year -2	Year -1 -119.4 0.0 -119.4 Year -1	Year 1 -95.7 0.0 -95.7 Year 1	Year 2 -71.7 0.0 -71.7	Year 3 -47.5 0.0 -47.5 Year 3	Year 4  -2.4  0.0  -2.4  Year 4	Year 5 60.1 30.1 30.1 Year 5	Year 6 115.7 42.8 72.9	Year 7 177.0 52.1 124.9 Year 7	Year 8 211.6 43.3 168.3 Year 8	Year 9 265.4 48.6 216.8 Year 9	Year 10 \\ 329.1 56.1 272.9	(ear 11 ) 397.8 62.4 335.4	Year 12 475.3 70.0 405.3 Year 12	Year 13 557.5 76.1 481.4 Year 13	Year 14 \(^1650.7\) 84.7 566.1	Year 15 749.7 91.8 657.9 Year 15	0.0  Year 16  850.5  96.3  754.2	0.0 Year 17 967.5 106.7 860.9	0.0  Year 18  1,091.6  115.4  976.2  Year 18	0.0  Year 19 1,225.7 124.7 1,101.0  Year 19	Year 20 1,375.5 137.3 1,238.2 Year 20
Dividend Surplus / Deficit (before dividend) Dividend Surplus / Deficit (after dividend)  Equity Cash outflow	50%	Year -3 -13.3 0.0 -13.3 Year -3 47.4	Year -2 -53.1 0.0 -53.1 Year -2	Year -1 -119.4 0.0 -119.4 Year -1 94.8	Year 1 -95.7 0.0 -95.7 Year 1 0.0	Year 2 -71.7 0.0 -71.7 Year 2 0.0	Year 3 -47.5 0.0 -47.5 Year 3 0.0	Year 4 -2.4 0.0 -2.4 Year 4 0.0	Year 5 60.1 30.1 30.1 Year 5	Year 6 115.7 42.8 72.9 Year 6	Year 7 177.0 52.1 124.9 Year 7	Year 8 211.6 43.3 168.3 Year 8 0.0	Year 9 265.4 48.6 216.8 Year 9 0.0	Year 10 \\ 329.1 \\ 56.1 \\ 272.9 \\ Year 10 \\ 0.0	7ear 11 397.8 62.4 335.4 7ear 11 0.0	Year 12 475.3 70.0 405.3 Year 12 0.0	Year 13 557.5 76.1 481.4 Year 13	Year 14 650.7 84.7 566.1 Year 14 0.0	749.7 91.8 657.9 Year 15	0.0  Year 16  850.5  96.3  754.2  Year 16  0.0	0.0  Year 17  967.5 106.7  860.9  Year 17  0.0	0.0  Year 18 1,091.6 115.4 976.2  Year 18 0.0	0.0  Year 19 1,225.7 124.7 1,101.0  Year 19 0.0	Year 20 1,375.5 137.3 1,238.2 Year 20
Dividend  Surplus / Deficit (before dividend) Dividend Surplus / Deficit (after dividend)  Equity  Cash outflow Cash iniflow	50%	Year -3 -13.3 0.0 -13.3  Year -3 47.4 0.0	Year -2 -53.1 0.0 -53.1 Year -2 94.8 0.0	Year -1 -119.4 0.0 -119.4 Year -1 94.8 0.0	Year 1  -95.7  0.0  -95.7  Year 1  0.0  0.0	Year 2 -71.7 0.0 -71.7 Year 2 0.0 0.0	Year 3  -47.5 0.0 -47.5  Year 3  0.0 0.0	Year 4 0.0 -2.4 Year 4 0.0 0.0	Year 5 60.1 30.1 30.1 Year 5 0.0 30.1	Year 6 115.7 42.8 72.9 Year 6 0.0 42.8	Year 7 177.0 52.1 124.9 Year 7 0.0 52.1	Year 8 211.6 43.3 168.3 Year 8 0.0 43.3	Year 9 265.4 48.6 216.8 Year 9 0.0 48.6	Year 10 1 329.1 56.1 272.9 Year 10 1 0.0 56.1	397.8 62.4 335.4 (ear 11) 0.0 62.4	Year 12 475.3 70.0 405.3 Year 12 0.0 70.0	Year 13 557.5 76.1 481.4 Year 13 0.0 76.1	Year 14 650.7 84.7 566.1 Year 14 0.0 84.7	749.7 91.8 657.9 Year 15 0.0 91.8	0.0  Year 16  850.5  96.3  754.2  Year 16  0.0  96.3	0.0  Year 17  967.5 106.7  860.9  Year 17  0.0 106.7	0.0  Year 18 1,091.6 115.4 976.2  Year 18 0.0 115.4	0.0  Year 19 1,225.7 124.7 1,101.0  Year 19 0.0 124.7	Year 20 1,375.5 137.3 1,238.2 Year 20 0.0 137.3
Dividend Surplus / Deficit (before dividend) Dividend Surplus / Deficit (after dividend)  Equity Cash outflow Cash iniflow Net Cash Flow	50%	Year -3 -13.3 0.0 -13.3 Year -3 47.4	Year -2 -53.1 0.0 -53.1 Year -2	Year -1 -119.4 0.0 -119.4 Year -1 94.8	Year 1 -95.7 0.0 -95.7 Year 1 0.0	Year 2 -71.7 0.0 -71.7 Year 2 0.0	Year 3 -47.5 0.0 -47.5 Year 3 0.0	Year 4 -2.4 0.0 -2.4 Year 4 0.0	Year 5 60.1 30.1 30.1 Year 5	Year 6 115.7 42.8 72.9 Year 6	Year 7 177.0 52.1 124.9 Year 7	Year 8 211.6 43.3 168.3 Year 8 0.0	Year 9 265.4 48.6 216.8 Year 9 0.0	Year 10 \\ 329.1 \\ 56.1 \\ 272.9 \\ Year 10 \\ 0.0	7ear 11 397.8 62.4 335.4 7ear 11 0.0	Year 12 475.3 70.0 405.3 Year 12 0.0	Year 13 557.5 76.1 481.4 Year 13	Year 14 650.7 84.7 566.1 Year 14 0.0	749.7 91.8 657.9 Year 15	0.0  Year 16  850.5  96.3  754.2  Year 16  0.0  96.3	0.0  Year 17  967.5 106.7  860.9  Year 17  0.0 106.7	0.0  Year 18 1,091.6 115.4 976.2  Year 18 0.0 115.4	0.0  Year 19 1,225.7 124.7 1,101.0  Year 19 0.0	Year 20 1,375.5 137.3 1,238.2 Year 20 0.0 137.3
Dividend Surplus / Deficit (before dividend) Dividend Surplus / Deficit (after dividend)  Equity Cash outflow Cash iniflow Net Cash Flow	50%	Year -3 -13.3 0.0 -13.3  Year -3 47.4 0.0	Year -2 -53.1 0.0 -53.1 Year -2 94.8 0.0	Year -1 -119.4 0.0 -119.4 Year -1 94.8 0.0	Year 1  -95.7  0.0  -95.7  Year 1  0.0  0.0	Year 2 -71.7 0.0 -71.7 Year 2 0.0 0.0	Year 3  -47.5 0.0 -47.5  Year 3  0.0 0.0	Year 4 0.0 -2.4 Year 4 0.0 0.0	Year 5 60.1 30.1 30.1 Year 5 0.0 30.1	Year 6 115.7 42.8 72.9 Year 6 0.0 42.8	Year 7 177.0 52.1 124.9 Year 7 0.0 52.1	Year 8 211.6 43.3 168.3 Year 8 0.0 43.3	Year 9 265.4 48.6 216.8 Year 9 0.0 48.6	Year 10 1 329.1 56.1 272.9 Year 10 1 0.0 56.1	397.8 62.4 335.4 (ear 11) 0.0 62.4	Year 12 475.3 70.0 405.3 Year 12 0.0 70.0	Year 13 557.5 76.1 481.4 Year 13 0.0 76.1	Year 14 650.7 84.7 566.1 Year 14 0.0 84.7	749.7 91.8 657.9 Year 15 0.0 91.8	0.0  Year 16  850.5  96.3  754.2  Year 16  0.0  96.3	0.0  Year 17  967.5 106.7  860.9  Year 17  0.0 106.7	0.0  Year 18 1,091.6 115.4 976.2  Year 18 0.0 115.4	0.0  Year 19 1,225.7 124.7 1,101.0  Year 19 0.0 124.7	Year 20 1,375.5 137.3 1,238.2 Year 20 0.0 137.3
Dividend  Surplus / Deficit (before dividend) Dividend Surplus / Deficit (after dividend)  Equity  Cash outflow Cash iniflow Net Cash Flow  Equity IRR	50%	Year -3 -13.3 0.0 -13.3 Year -3 47.4 0.0 -47.4	Year -2 -53.1 0.0 -53.1 Year -2 94.8 0.0 -94.8	Year -1 -119.4 0.0 -119.4 Year -1 94.8 0.0 -94.8	Year 1 -95.7 0.0 -95.7 Year 1 0.0 0.0 0.0	Year 2 -71.7 0.0 -71.7 Year 2 0.0 0.0 0.0	Year 3 -47.5 0.0 -47.5 Year 3 0.0 0.0 0.0	Year 4  -2.4  0.0  -2.4  Year 4  0.0  0.0  0.0	Year 5 60.1 30.1 30.1 Year 5 0.0 30.1 30.1	Year 6 115.7 42.8 72.9 Year 6 0.0 42.8 42.8	Year 7 177.0 52.1 124.9 Year 7 0.0 52.1 52.1	Year 8 211.6 43.3 168.3 Year 8 0.0 43.3 43.3	Year 9 265.4 48.6 216.8 Year 9 0.0 48.6 48.6	Year 10 1 329.1 56.1 272.9 Year 10 1 0.0 56.1	7ear 11 397.8 62.4 335.4 7ear 11 0.0 62.4 62.4	Year 12 475.3 70.0 405.3 Year 12 0.0 70.0 70.0	Year 13 557.5 76.1 481.4 Year 13 0.0 76.1	Year 14 1650.7 84.7 566.1 Year 14 10.0 84.7 84.7	749.7 91.8 657.9 Year 15 0.0 91.8 91.8	0.0  Year 16  850.5  96.3  754.2  Year 16  0.0  96.3  96.3	0.0  Year 17  967.5 106.7 860.9  Year 17  0.0 106.7	0.0  Year 18 1,091.6 115.4 976.2  Year 18 0.0 115.4 115.4	0.0  Year 19 1,225.7 124.7 1,101.0  Year 19 0.0 124.7 124.7	Year 20 1,375.5 137.3 1,238.2 Year 20 0.0 137.3 137.3
Dividend  Surplus / Deficit (before dividend) Dividend Surplus / Deficit (after dividend)  Equity  Cash outflow Cash iniflow Net Cash Flow	50%	Year -3 -13.3 0.0 -13.3  Year -3 47.4 0.0	Year -2 -53.1 0.0 -53.1 Year -2 94.8 0.0 -94.8	Year -1 -119.4 0.0 -119.4 Year -1 94.8 0.0 -94.8	Year 1 -95.7 0.0 -95.7 Year 1 0.0 0.0 0.0	Year 2 -71.7 0.0 -71.7 Year 2 0.0 0.0	Year 3 -47.5 0.0 -47.5 Year 3 0.0 0.0 0.0	Year 4 0.0 -2.4 Year 4 0.0 0.0	Year 5 60.1 30.1 30.1 Year 5 0.0 30.1	Year 6 115.7 42.8 72.9 Year 6 0.0 42.8 42.8	Year 7 177.0 52.1 124.9 Year 7 0.0 52.1	Year 8 211.6 43.3 168.3 Year 8 0.0 43.3 43.3	Year 9 265.4 48.6 216.8 Year 9 0.0 48.6 48.6	Year 10 1 329.1 56.1 272.9 Year 10 1 0.0 56.1	7ear 11 397.8 62.4 335.4 7ear 11 0.0 62.4 62.4	Year 12 475.3 70.0 405.3 Year 12 0.0 70.0 70.0	Year 13 557.5 76.1 481.4 Year 13 0.0 76.1	Year 14 1650.7 84.7 566.1 Year 14 10.0 84.7 84.7	749.7 91.8 657.9 Year 15 0.0 91.8 91.8	0.0  Year 16  850.5  96.3  754.2  Year 16  0.0  96.3  96.3	0.0  Year 17  967.5 106.7 860.9  Year 17  0.0 106.7	0.0  Year 18 1,091.6 115.4 976.2  Year 18 0.0 115.4 115.4	0.0  Year 19 1,225.7 124.7 1,101.0  Year 19 0.0 124.7 124.7	Year 20 1,375.5 137.3 1,238.2 Year 20 0.0 137.3 137.3
Dividend Surplus / Deficit (before dividend) Dividend Surplus / Deficit (after dividend)  Equity Cash outflow Cash iniflow Net Cash Flow Equity IRR  1  Financial support by the government	50%	Year -3 -13.3 0.0 -13.3 Year -3 47.4 0.0 -47.4	Year -2 -53.1 0.0 -53.1 Year -2 94.8 0.0 -94.8	Year -1 -119.4 0.0 -119.4 Year -1 94.8 0.0 -94.8	Year 1 -95.7 0.0 -95.7 Year 1 0.0 0.0 0.0	Year 2 -71.7 0.0 -71.7 Year 2 0.0 0.0 0.0	Year 3  -47.5 0.0 -47.5  Year 3  0.0 0.0 0.0	Year 4	Year 5 60.1 30.1 30.1 Year 5 0.0 30.1 30.1	Year 6 115.7 42.8 72.9 Year 6 0.0 42.8 42.8	Year 7 177.0 52.1 124.9 Year 7 0.0 52.1 52.1	Year 8 211.6 43.3 168.3 Year 8 0.0 43.3 43.3	Year 9 265.4 48.6 216.8 Year 9 0.0 48.6 48.6	Year 10 Y 329.1 56.1 272.9 Year 10 Y 0.0 56.1	(ear 11 ) 397.8 62.4 335.4 (ear 11 ) 0.0 62.4 62.4	Year 12 475.3 70.0 405.3 Year 12 0.0 70.0 70.0	Year 13 557.5 76.1 481.4 Year 13 0.0 76.1 76.1	Year 14 1 650.7 84.7 566.1 Year 14 0.0 84.7 84.7	749.7 91.8 657.9 Year 15 0.0 91.8 91.8	0.0  Year 16  850.5  96.3  754.2  Year 16  0.0  96.3  96.3	0.0  Year 17  967.5 106.7 860.9  Year 17  0.0 106.7 106.7	0.0  Year 18 1,091.6 115.4 976.2  Year 18 0.0 115.4 115.4  Year 18	0.0  Year 19 1,225.7 124.7 1,101.0  Year 19 0.0 124.7 124.7	Year 20 1,375.5 137.3 1,238.2 Year 20 0.0 137.3 137.3
Dividend Surplus / Deficit (before dividend) Dividend Surplus / Deficit (after dividend)  Equity Cash outflow Cash iniflow Net Cash Flow Equity IRR  1  Financial support by the government Maintenance budget for infrastructure	50%	Year -3 -13.3 0.0 -13.3 Year -3 47.4 0.0 -47.4	Year -2 -53.1 0.0 -53.1 Year -2 94.8 0.0 -94.8	Year -1 -119.4 0.0 -119.4 Year -1 94.8 0.0 -94.8	Year 1 -95.7 0.0 -95.7 Year 1 0.0 0.0 0.0 Year 1 47.3	Year 2 -71.7 0.0 -71.7 Year 2 0.0 0.0 0.0 Year 2 48.7	Year 3  -47.5 0.0 -47.5  Year 3  0.0 0.0  0.0  Year 3  50.1	Year 4  -2.4  0.0  -2.4  Year 4  0.0  0.0  0.0  Year 4  51.6	Year 5 60.1 30.1 Year 5 0.0 30.1 30.1 Year 5 53.2	Year 6 115.7 42.8 72.9 Year 6 0.0 42.8 42.8 Year 6 54.8	Year 7 177.0 52.1 124.9 Year 7 0.0 52.1 52.1 Year 7	Year 8 211.6 43.3 168.3 Year 8 0.0 43.3 43.3 Year 8 58.1	Year 9 265.4 48.6 216.8 Year 9 0.0 48.6 48.6 Year 9	Year 10 Y 329.1 56.1 272.9 Year 10 Y 61.7	(ear 11 ) 397.8 62.4 335.4 (ear 11 ) 62.4 62.4 (ear 11 )	Year 12 475.3 70.0 405.3 Year 12 0.0 70.0 70.0	Year 13 557.5 76.1 481.4 Year 13 0.0 76.1 76.1	Year 14 650.7 84.7 566.1 Year 14 0.0 84.7 84.7 Year 14 69.4	749.7 91.8 657.9 Year 15 0.0 91.8 91.8	0.0  Year 16  850.5  96.3  754.2  Year 16  0.0  96.3  96.3	0.0  Year 17  967.5 106.7 860.9  Year 17  0.0 106.7 106.7	0.0  Year 18 1,091.6 115.4 976.2  Year 18 0.0 115.4 115.4  Year 18 78.1	0.0  Year 19 1,225.7 124.7 1,101.0  Year 19 0.0 124.7 124.7  Year 19 80.5	Year 20 1,375.5 137.3 1,238.2 Year 20 0.0 137.3 137.3