# CENTRAL ELECTRICITY REGULATORY COMMISSION NEW DELHI

# Petition No. 12/2011

#### Coram:

- 1. Shri S. Jayaraman, Member
- 2. Shri V.S.Verma, Member
- 3. Shri M.Deena Dayalan, Member

DATE OF HEARING: 26.5.2011 DATE OF ORDER 6.7.2011

#### In the matter of

Determination of revised transmission tariff after approval of revised cost estimate for (i) LILO of both circuits of Madurai-Trivendrum 400 kV D/C line and 1x 63 MVAR Bus reactor; (ii) 1 x 315, 400/220 kV MVA Transformer; (iii) 2nd 400 kV, 63 MVAR Bus Reactor; (iv) 2nd 1x 315 MVA, 400/220 kV Auto transformer; and (v) 3 no. 1x 63 MVAR Reactor along with associated bays and equipments at Tiruneveli sub-station under "transformer system associated with Kudamkulam Atomic Power Project (2X 1000 MW) in Southern Region for the period from the date of commercial operation to 31.3.2009.

#### And in the matter of

Power Grid Corporation of India Limited, Gurgaon ...Petitioner Vs

- 1. Karnataka Power Transmission Corporation, Ltd. Bangalore
- 2. Transmission Corporation of Andhra Pradesh Ltd. Hyderabad
- 3. Kerala State Electricity Board, Thiruvananthapuram
- 4. Tamil Nadu Electricity Board, Chennai
- 5. Electricity Department, Govt. of Goa, Panaji
- 6. Electricity Department, Govt. of Pondicherry, Pondicherry
- 7. Eastern Power Distribution Company of Andhra Pradesh Ltd., Visakhapatnam
- 8. Southern Power Distribution Company of Andhra Pradesh Ltd., Tirupati
- 9. Central Power Distribution Company of Andhra Pradesh Ltd., Hyderabad
- 10. Northern Power Distribution Company of Andhra Pradesh Ltd., Warangal
- 11. Bangalore Electricity Supply Company Ltd., Bangalore
- 12. Gulbarga Electricity Supply Company Ltd., Gulbarga
- 13. Hubli Electricity Supply Company Ltd., Hubli
- 14. Mangalore Electricity Supply Company Ltd., Mangalore

15. Chamundeswari Electricity Supply Company Ltd., Mysore.

.Respondents

## The following were present:

- 1. Shri U.K.Tyagi, PGCIL
- 2. Shri M.M.Mondal, PGCIL
- 3. Shar K.K.Jha, PGCIL

#### <u>ORDER</u>

This petition has been filed by the petitioner, Power Grid Corporation of India Limited for approval of revised transmission charges after the approval of revised cost estimate in respect of (i) LILO of both circuits of Madurai-Trivendrum 400 kV D/C line and 1x 63 MVAR Bus reactor, (ii) 1x 315, 400/220 kV MVA Transformer (iii) 2nd 400 kV, 63 MVAR Bus Reactor, (iv) 2<sup>nd</sup> 1 x 315 MVA, 400/220 kV Auto transformer and (v) 3 no. 1x 63 MVAR Reactor along with associated bays and equipments at Tiruneveli sub-station (collectively referred to as "the transmission assets") under transmission system associated with Kudamkulam Atomic Power Project (2 X 1000 MW) (hereinafter referred to as "the transmission system") in Southern Region from the date of commercial operation of the respective assets to 31.3.2009, based on the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2004 (hereinafter referred to as "the 2004 regulations") after accounting for additional capitalization during 2008-09. The petitioner has made the following additional prayers:-

(i) Approve reimbursement of expenditure from the beneficiaries incurred towards petition filing fee and publication of notices in

the newspaper and other expenditure in relation to the filing of petition; and

- (ii) Allow reimbursement of licence fee from the beneficiaries.
- 2. The details of transmission assets and their dates of commercial operation as indicated by the petitioner are as under:

S.	Name of the assets	Date of
No.		commercial
		operation
1.	LILO of both circuits of Madurai-Trivendrum 400 kV	1.5.2008
	D/C line and 1x 63 MVAR Bus reactor (Asset-I)	
2.	1x 315, 400/220 kV MVA Transformer (Asset-II)	1.5.2008
3.	2nd 400 kV, 63 MVAR Bus Reactor (Asset-III)	1.11.2008
4.	2nd 1x 315 MVA, 400/220 kV Auto transformer	1.11.2008
	(Asset-IV)	
5.	3 no. 1x 63 MVAR Reactor along with associated	1.2.2009
	bays and equipments at Tiruneveli sub-station	
	(Asset-V)	

- 3. The investment approval for the transmission system was accorded by Ministry of Power vide Memorandum No. 12/18/2003-PG dated 25.5.2005 at an estimated cost of ₹ 177929 lakh, which includes IDC of ₹ 7141 lakh (at 4th quarter 2004 price level). Subsequently, the approval of revised cost estimates for the transmission system was accorded by the Board of Directors of Petitioner's company vide Memorandum No. C/CP/Kudankulam dated 3.9.2010 at an estimated cost of ₹ 215907.00 lakh including IDC of ₹ 22342.00 lakh (at 1st quarter price level).
- 4. The final transmission charges for the transmission assets up to 31.3.2009 were approved by the Commission vide order dated 21.12.2009 in Petition No. 192/2009 restricting the capital cost of transmission assets to

their respective apportioned approved cost in the absence of revised cost estimates with liberty to the petitioner to file fresh petition based on actual expenditure up the date of commercial operation and additional capital expenditure after the approval of revised cost estimates by the competent authority.

5. The details of the apportioned approved cost, capital expenditure as on the date of commercial operation, balance expenditure and the estimated completion cost, etc. of the transmission assets noted at para 2 above are as under:

(₹ in lakh)

Assets	Apportioned approved cost (revised cost estimates)	Apportioned approved cost (FR)	Capital expenditure as on the date of commercial operation	Capital Expenditure from the date of commercial operation to 31.3.2009	Balance Expenditure	Estimated Completion cost
Asset- I	15236.00	13440.00	14515.73	569.15	129.12	15214.00
Asset-II	2856.00	2247.00	2689.26	109.38	24.82	2823.46
Asset-III	1021.00	938.00	957.22	34.39	15.55	1007.16
Asset-IV	2159.00	1511.00	1939.61	70.59	120.26	2130.46
Asset-V	3213.00	2395.00	3000.81	160.56	45.34	3206.71
Total	24485.00	20531.00	23102.63	944.07	335.09	24381.79

6. The petitioner has claimed the transmission charges as under:

(₹in lakh)

	Asset- I	Asset-II	Asset- III	Asset-IV	Asset- V
	2008-09 (Pro rata)				
Depreciation	382.27	90.98	14.62	29.62	18.49
Interest on Loan	695.34	141.28	20.77	42.02	23.78
Return on Equity	569.72	105.61	17.03	34.56	21.57
Advance against	0.00	0.00	0.00	0.00	0.00
Depreciation					
Interest on Working Capital	57.31	14.84	2.02	4.08	2.64
O & M Expenses	202.67	150.79	13.71	27.42	21.93
Total	1907.31	503.50	68.15	137.70	88.41

7. The details submitted by the petitioner in support of its claim for interest on working capital are given hereunder:

(₹ in lakh)

	Asset- I	Asset-II	Asset- III	Asset-IV	Asset- V
	2008-09	2008-09	2008-09	2008-09	2008-09
	(Pro rata)				
Maintenance Spares	145.16	26.89	9.57	19.40	30.01
O & M expenses	18.42	13.71	2.74	5.48	10.97
Receivables	346.78	91.55	27.26	55.08	88.41
Total	510.36	132.15	39.57	79.96	129.39
Rate of Interest	12.25%	12.25%	12.25%	12.25%	12.25%
Interest	57.31	14.84	2.02	4.08	2.64

8. No reply has been filed by respondents.

## **CAPITAL COST**

- 9. As per clause (1) of Regulation 52 of the 2004 regulations, subject to prudence check, the actual expenditure incurred on completion of the project shall form the basis for determination of final tariff. The final tariff shall be determined based on the admitted capital expenditure actually incurred up to the date of commercial operation of the transmission system and shall include capitalised initial spares subject to a ceiling norm of 1.5% of original project cost. The 2004 regulations are applicable in case of the transmission system declared under commercial operation on or after 1.4.2004.
- 10. The petitioner has claimed transmission tariff after accounting for additional capital expenditure in respect of Asset-I, Asset-II, Asset-III, Asset-IV and Asset-V from the date of commercial operation up to 31.3.2009 as given in the table at para 5 above.

## ADDITIONAL CAPITAL EXPENDITURE FOR 2008-09

- 11. Clause (1) of Regulation 53 of the 2004 regulations provides-
  - "(1) The following capital expenditure within the original scope of work actually incurred after the date of commercial operation and up to the cut off date may be admitted by the Commission, subject to prudence check:
  - (i) Deferred liabilities;
  - (ii) Works deferred for execution;
  - (iii) Procurement of initial capital spares in the original scope of works subject to the ceiling norm specified in regulation 52;
  - (iv) Liabilities to meet award of arbitration or compliance of the order or decree of a court; and
  - (v) On account of change in law:

Provided that original scope of work along with estimates of expenditure shall be submitted along with the application for provisional tariff:

Provided further that a list of the deferred liabilities and works deferred for execution shall be submitted along with the application for final tariff after the date of commercial operation of the transmission system."

12. The details submitted by the petitioner in support of its claim for additional capital expenditure for transmission assets are given hereunder:

Assets	Year	Nature and details of expenditure	Amount (₹ in lakh)
Asset-I	2008-09	Transmission line- Balance and Retention payments	269.32
		Buildings and civil works- Retention payments Sub-station- Retention payments	1.59 298.24
		Total	569.15
Asset-II	2008-09	Sub-station- Retention payments Total	109.38 <b>109.38</b>
Asset-III	2008-09	Sub-station- Retention payments Total	34.39 <b>34.39</b>
Asset-IV	2008-09	Sub-station- Retention payments Total	70.59 <b>70.59</b>
Asset-V	2008-09	Sub-station- Retention payments Total	160.56 <b>160.56</b>

13. The additional capital expenditure claimed is within the original scope of work and is found to be in order as it has been incurred to discharge the committed liability. Accordingly, capitalization of the additional expenditure claimed by the petitioner has been allowed for the transmission assets.

#### **Initial spares**

14. The value of initial spares corresponding to the expenditure up to the date of commercial operation for the transmission assets has already been considered in our order dated 21.12.2009 in Petition No. 192/2009.

#### **TOTAL CAPITAL COST**

15. Based on the above, capital cost as on 31.3.2009 for the purpose of tariff after allowing additional capital expenditure works out as under:

(₹ in lakh)

Name of the asset	Admitted capital cost as on the date of commercial operation	Additional capital expenditure up to 31.3.2009	Total Capital expenditure as on 1.4.2009
Asset-I	14515.73	569.15	15084.88
Asset-II	2689.26	109.38	2798.64
Asset-III	957.22	34.39	991.61
Asset-IV	1939.61	70.59	2010.20
Asset-V	3000.81	160.56	3161.37

#### **DEBT- EQUITY RATIO**

- 16. Clause (1) of Regulation 54 of the 2004 regulations *inter alia* provides that,-
  - "(1) In case of the existing projects, debt-equity ratio considered by the Commission for fixation of tariff for the period ending 31.3.2004 shall be considered for determination of tariff with effect from 01.04.2004:

Provided that in cases where the tariff for the period ending 31.3.2004 has not been determined by the Commission, debt-equity ratio shall be as may be decided by the Commission:

Provided further that in case of the existing projects where additional capitalisation has been completed on or after 1.4.2004 and admitted by the Commission under Regulation 53, equity in the additional capitalisation to be considered shall be:-

- (a) 30% of the additional capital expenditure admitted by the Commission, or
- (b) equity approved by the competent authority in the financial package, for additional capitalisation, or
- (c) actual equity employed,

whichever is the least:

Provided further that in case of additional expenditure admitted under the second proviso, the Commission may consider equity of more than 30% if the transmission licensee is able to satisfy the Commission that deployment of such equity of more than 30% was in the interest of general public."

- 17. The Note 1 below Regulations 53 of the 2004 regulations lays down that any expenditure on account of committed liabilities within the original scope of work is to be serviced in the normative debt-equity ratio specified in Regulation 54 of the 2004 regulations.
- 18. The details of debt-equity ratio as on the date of commercial operation are as under:

	Approved Revise Estimate	d Cost	Admitted as on date of commercial operation	
Asset-I	Amount (₹ in lakh)	%	Amount (₹ in lakh)	%
Debt	10665.20	70.00	10161.70	70.00
Equity	4570.80	30.00	4354.03	30.00
Total	15236.00	100.00	14515.73	100.00
Asset-II	Amount (₹ in lakh)	%	Amount (₹ in lakh)	%
Debt	1999.20	70.00	1882.70	70.01
Equity	856.80	30.00	806.56	29.99
Total	2856.00	100.00	2689.26	100.00
Asset-III	Amount (₹ in lakh)	%	Amount (₹ in lakh)	%
Debt	714.70	70.00	670.40	70.04
Equity	306.30	30.00	286.82	29.96
Total	1021.00	100.00	957.22	100.00
Asset -IV	Amount (₹ in lakh)	%	Amount (₹ in lakh)	%
Debt	1511.30	70.00	1357.80	70.00
Equity	647.70	30.00	581.81	30.00
Total	2159.00	100.00	1939.61	100.00
Asset-V	Amount (₹ in lakh)	%	Amount (₹ in lakh)	%
Debt	2249.10	70.00	2100.57	70.00
Equity	963.90	30.0	900.24	30.00
Total	3213.00	100.00	3000.81	100.00

19. The details of debt-equity as on 31.3.2009 are as under:

Admitted as on 31.3.2009	
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		Amount (₹ in lakh)	%
	Debt	10560.11	70.00
Asset-I	Equity	4524.78	30.00
	Total	15084.89	100.00
	Debt	1959.27	70.01
Asset-II	Equity	839.37	29.99
	Total	2798.64	100.00
	Debt	694.47	70.03
Asset-III	Equity	297.14	29.97
	Total	991.61	100.00
	Debt	1407.21	70.00
Asset-IV	Equity	602.99	30.00
	Total	2010.20	100.00
	Debt	2212.65	69.99
Asset-V	Equity	948.72	30.01
	Total	3161.37	100.00

The petitioner has further considered the amount of additional capital 20. expenditure in the normative debt-equity ratio of 70:30 for transmission Asset-I, Asset-II, Asset-III, Asset-IV and Asset-V, respectively. The additional capital expenditure approved in the ratio of 70:30 has been considered in accordance with the 2004 regulations as under:

	Actual		Normative	
	Amount (₹ in lakh)	%	Amount ( <b>₹ in</b> lakh)	%
Asset-I	for 2008-09			
Debt	569.15	100.00	398.40	70.00
Equity	0.00	0.00	170.74	30.00
Total	569.15	100.00	569.14	100.00
Asset-II	for 2008-09			
Debt	109.38	100.00	76.57	70.00
Equity	0.00	0.00	32.81	30.00
Total	109.38	100.00	109.38	100.00
Asset-III	for 2008-09			
Debt	34.39	100.00	24.07	69.99
Equity	0.00	0.00	10.32	30.01
Total	34.39	100.00	34.39	100.00
Asset-IV	for 2008-09			
Debt	70.59	100.00	49.41	70.00
Equity	0.00	0.00	21.18	30.00
Total	70.59	100.00	70.59	100.00
Asset-V	for 2008-09			
Debt	160.56	100.00	112.39	70.00
Equity	0.00	0.00	48.17	30.00
Total	160.56	100.00	160.56	100.00

21. For the purpose of tariff, equity considered for the transmission assets is as under:

				(K III Iakii)
Assets	Equity on the date of commercial operation	Notional Equity due to additional capital expenditure for the period 2008-09	Average equity for 2008-09	Equity for the period 2008-09
Asset-I	4354.03	170.75	4439.40	4524.78
Asset-II	806.56	32.81	822.97	839.37
Asset-III	286.82	10.32	291.98	297.14
Asset-IV	581.81	21.18	592.40	602.99
Asset-V	900.24	48.17	924.33	948.72

## **RETURN ON EQUITY**

- 22. As per clause (iii) of Regulation 56 of the 2004 regulations, return on equity shall be computed on the equity base determined in accordance with Regulation 54 of the 2004 regulations @ 14% per annum. Equity invested in foreign currency is to be allowed a return in the same currency and the payment on this account is made in Indian Rupees based on the exchange rate prevailing on the due date of billing.
- 23. Equity has been considered as on the date of commercial operation as given in the table in para 21 above. However, tariff for the period from date of commercial operation to 31.3.2009 has been allowed on average equity. Accordingly, return on equity allowed for the period 2008-09 is given as under:

(₹ in lakh)

/尹 in lakh)

	Asset- I	Asset-II	Asset- III	Asset-IV	Asset- V
	2008-09	2008-09	2008-09	2008-09	2008-09
Opening Equity	4354.03	806.56	286.82	581.81	900.24
Addition due to Additional	170.75	32.81	10.32	21.18	48.17
Capitalisation					
Closing Equity	4524.78	839.37	297.14	602.99	948.41
Average Equity	4439.40	822.97	291.98	592.40	924.33
Return on Equity @14%	569.72	105.61	17.03	34.56	21.57

#### INTEREST ON LOAN



- 24. Clause (i) of regulation 56 of the 2004 regulations *inter alia* provides that,-
  - "(a) Interest on loan capital shall be computed loan wise on the loans arrived at in the manner indicated in regulation 54.
  - (b) The loan outstanding as on 1.4.2004 shall be worked out as the gross loan in accordance with Regulation 54 minus cumulative repayment as admitted by the Commission or any other authority having power to do so, up to 31.3.2004. The repayment for the period 2004-09 shall be worked out on a normative basis.
  - (c) The transmission licensee shall make every effort to re-finance the loan as long as it results in net benefit to the beneficiaries. The costs associated with such re-financing shall be borne by the beneficiaries.
  - (d) The changes to the loan terms and conditions shall be reflected from the date of such re-financing and benefit passed on to the beneficiaries.
  - (e) In case of dispute, any of the parties may approach the Commission with proper application. However, the beneficiaries shall not withhold any payment ordered by the Commission to the transmission licensee during pendency of any dispute relating to re-financing of loan;
  - (f) In case any moratorium period is availed of by the transmission licensee, depreciation provided for in the tariff during the years of moratorium shall be treated as repayment during those years and interest on loan capital shall be calculated accordingly.
  - (g) The transmission licensee shall not make any profit on account of refinancing of loan and interest on loan;
  - (h) The transmission licensee may, at its discretion, swap loans having floating rate of interest with loans having fixed rate of interest, or vice versa, at its own cost and gains or losses as a result of such swapping shall accrue to the transmission licensee:

Provided that the beneficiaries shall be liable to pay interest for the loans initially contracted, whether on floating or fixed rate of interest."

- 25. In our calculation, the interest on loan has been worked out as detailed below:
  - (a) Gross amount of loan and repayment of instalments have been taken as per the petition;

(b) On the basis of actual rate of interest on actual average loan, the weighted average rate of interest on loan has been worked out for various years. As stated above, the expenditure as on date of commercial operation has been restricted to the apportioned approved cost, therefore, the loans corresponding to the additional capital expenditure have not been taken in to account while working out the weighted average rate of interest;

(c) Tariff has been worked out considering normative loan and normative repayment and the weighted average rate of interest on loan for respective years, as stated above has been multiplied to arrive at interest on loan. Normative repayments are worked out by the following formula:

Actual repayment of actual loan during the year
------X Opening balance of normative
Opening balance of actual loan during the year loan during the year

- (d) In case the normative repayment of loan during the year is less than the depreciation during the year, depreciation during the year has been deemed as normative repayment of loan;
- (e) Short term bridge loan from Bank of Baroda has been replaced by Bond XXVIII in case of Asset-III and Asset-IV. Therefore, for these assets rate of interest applicable to Bond XXVIII has been considered for weighted average rate of interest; and
- (f) ADB-III loan carry floating rates of interest. The rates of interest as per the supporting documents enclosed with the petition have been

used for working out the interest on loan. This is subject to mutual settlement between the parties in case of any change/resetting of the interest rates during the tariff period.

26. The detailed calculations in support of the weighted average rate of interest are contained in *Annexure-I, Annexure-II, Annexure-III, Annexure-IV* and *Annexure-V* attached to this order. Based on the above, the details of interest worked out are given hereunder:

(₹ in lakh)

Details of Interest	Asset- I	Asset-II	Asset- III	Asset-IV	Asset- V
	2008-09	2008-09	2008-09	2008-09	2008-09
Opening gross Normative Loan	10161.70	1882.70	670.40	1357.80	2100.57
Cumulative Repayment up to	0.00	0.00	0.00	0.00	0.00
Previous Year/date of					
commercial operation					
Net Loan-Opening	10161.70	1882.70	670.40	1357.80	2100.57
Addition due to Additional	398.41	76.57	24.07	49.41	112.39
Capitalisation					
Repayment during the year	382.27	90.98	14.62	29.62	18.49
Net Loan-Closing	10177.83	1868.28	679.86	1377.59	2194.47
Average Loan	10169.77	1875.49	675.13	1367.69	2147.52
Weighted Average Rate of	7.4590%	8.2176%	7.3832%	7.3738%	6.6439%
Interest on Loan					
Interest (Pro rata)	695.34	141.28	20.77	42.02	23.78

#### **DEPRECIATION**

- 27. Sub-clause (a) of clause (ii) of Regulation 56 of the 2004 regulations provides for computation of depreciation in the following manner, namely:
  - "(i) The value base for the purpose of depreciation shall be the historical cost of the asset.
  - (ii) Depreciation shall be calculated annually based on straight line method over the useful life of the asset and at the rates prescribed in Appendix II to these regulations. The residual value of the asset shall be considered as 10% and depreciation shall be allowed up to maximum of 90% of the historical capital cost of the asset. Land is not a depreciable asset and its cost shall be excluded from the capital cost while computing 90% of the historical cost of the asset. The historical capital cost of the asset shall include additional capitalisation on account of Foreign Exchange Rate Variation

- up to 31.3.2004 already allowed by the Central Government/Commission.
- (iii) On repayment of entire loan, the remaining depreciable value shall be spread over the balance useful life of the asset.
- (iv) Depreciation shall be chargeable from the first year of operation. In case of operation of the asset for part of the year, depreciation shall be charged on pro rata basis."
- 28. Depreciation allowed has been worked out as below:

(₹ in lakh)

Details of Depreciation	Asset- I	Asset-II	Asset- III	Asset-IV	Asset- V
	2008-09	2008-09	2008-09	2008-09	2008-09
Opening Gross block as on the date of commercial operation	14515.73	2689.26	957.22	1939.61	3000.81
Additional Capitalisation during 2007-08	569.15	109.38	34.39	70.59	160.56
Gross Block at the end of the year	15084.88	2798.64	991.61	2010.20	3161.37
Rate of Depreciation	2.8177%	3.6172%	3.6000%	3.6000%	3.6000%
Depreciable Value 90%	13157.37	2469.56	876.97	1777.41	2772.98
Balance Useful life of the asset	-	-	-	-	-
Remaining Depreciable Value	13157.37	2469.56	876.97	1777.41	2772.98
Depreciation (Pro rata)	382.27	90.98	14.62	29.62	18.49

## **ADVANCE AGAINST DEPRECIATION**

29. As per sub-clause (b) of clause (ii) of Regulation 56 of the 2004 regulations, in addition to allowable depreciation, the transmission licensee is entitled to Advance Against Depreciation, computed in the manner given hereunder:

AAD = Loan repayment amount as per regulation 56 (i) subject to a ceiling of 1/10th of loan amount as per regulation 54 minus depreciation as per schedule

30. It is provided that Advance Against Depreciation shall be permitted only if the cumulative repayment up to a particular year exceeds the cumulative depreciation up to that year. It is further provided that Advance

Against Depreciation in a year shall be restricted to the extent of difference between cumulative repayment and cumulative depreciation up to that year.

31. The petitioner has not claimed Advance Against Depreciation and accordingly, Advance Against Depreciation has not been considered.

## **OPERATION & MAINTENANCE EXPENSES**

32. In accordance with clause (iv) of Regulation 56 the 2004 regulations, the following norms are prescribed for O & M expenses

	Year				
	2004-05	2005-06	2006-07	2007-08	2008-09
O&M expenses (₹ in lakh per ckt-km)	0.227	0.236	0.246	0.255	0.266
O&M expenses (₹ in lakh per bay)	28.12	29.25	30.42	31.63	32.90

33. O&M expenses as taken for the tariff calculations in the order dated 21.12.2009 in Petition No. 192/2009 has been considered, since line length and number of bays remain unchanged.

#### **INTEREST ON WORKING CAPITAL**

34. The components of the working capital and the interest thereon are discussed hereunder:

## (i) Maintenance spares

Regulation 56(v) (1) (b) of the 2004 regulations provides for maintenance spares @ 1% of the historical cost escalated @ 6% per annum from the date of commercial operation. In the present case, restricted element wise capital expenditure on the date of commercial operation which has been considered as the historical

cost for the purpose of the present petition and maintenance spares have been worked out accordingly @ 1%. In this manner, the value of maintenance spares works out to ₹ 145.16 lakh, ₹ 26.89 lakh, ₹ 9.57 lakh, ₹ 19.40 lakh and ₹ 30.01 lakh for transmission Asset-I, Asset-II, Asset-III, Asset-IV and Asset-V, respectively as on date of commercial operation. The necessary details are given hereunder:

Transmission assets	Date of commercial operation	Capital Expenditure on the date of commercial operation (₹ in lakh)	Cost of maintenance spares as on the date of commercial operation (₹ in lakh)
Asset- I	1.5.2008	14515.73	145.16
Asset-II	1.5.2008	2689.26	26.89
Asset-III	1.11.2008	957.22	9.57
Asset-IV	1.11.2008	1939.61	19.40
Asset-V	1.2.2009	3000.81	30.01

## (ii) O & M expenses

Regulation 56(v)(1)(a) of the 2004 regulations provides for operation and maintenance expenses for one month as a component of working capital. The petitioner has claimed O&M expenses for 1 month as claimed in the petition. This has been considered in the working capital.

#### (iii) Receivables

As per Regulation 56(v)(1)(c) of the 2004 regulations, receivables will be equivalent to two months average billing calculated on target availability level. The petitioner has claimed the receivables on the basis 2 months' transmission charges claimed in the petition. In the tariff being allowed, receivables have been worked out on the basis of 2 months' transmission charges.

## (iv) Rate of interest on working capital

As per Regulation 56(v) (2) of the 2004 regulations, rate of interest on working capital shall be on normative basis and shall be equal to the short-term Prime Lending Rate of State Bank of India as on 1.4.2004 or on 1st April of the year in which the project or part thereof (as the case may be) is declared under commercial operation, whichever is later. The interest on working capital is payable on normative basis notwithstanding that the transmission licensee has not taken working capital loan from any outside agency. The petitioner has claimed interest on working capital @ 12.25% based on SBI PLR as on 1.4.2008, which is in accordance with the 2004 regulations and has been allowed.

35. The necessary computations in support of interest on working capital are appended herein below:

(₹ in lakh)

	Asset- I	Asset-II	Asset- III	Asset-IV	Asset- V
	2008-09 (Pro rata)				
Maintenance Spares	145.16	26.89	9.57	19.40	30.01
O & M expenses	18.42	13.71	2.74	5.48	10.97
Receivables	346.79	91.55	27.26	55.08	88.41
Total	510.37	132.15	39.57	79.96	129.38
Rate of Interest	12.25%	12.25%	12.25%	12.25%	12.25%
Interest	57.31	14.84	2.02	4.08	2.64

## **TRANSMISSION CHARGES**

36. The transmission charges being allowed for the five transmission assets are summarised below:

(₹in lakh) Asset- I Asset-II Asset- III Asset-IV Asset- V 2008-09 2008-09 2008-09 2008-09 2008-09 (Pro rata) (Pro rata) (Pro rata) (Pro (Pro rata) rata) 382.27 90.98 14.62 29.62 18.49 Depreciation 695.34 141.28 20.77 42.02 23.78 Interest on Loan 569.72 17.03 34.56 21.57 Return on Equity 105.61 0.00 Advance 0.00 0.00 0.00 0.00 against Depreciation Interest on Working 57.31 14.84 2.02 4.08 2.64 Capital O & M Expenses 202.67 150.79 13.71 27.42 21.93

37. In addition to the transmission charges, the petitioner shall be entitled to other charges like income-tax, incentive, surcharge and other cess and taxes in accordance with the 2004 regulations.

503.50

68.15

137.70

88.41

1907.32

38. The petitioner has also sought reimbursement of filing fee paid. It is clarified that the Commission by its separate general order dated 11.9.2008 in Petition No. 129/2005 (suo-motu) has decided that the petitioner shall not be allowed reimbursement of the petition filing fee. Accordingly, the petitioner shall not be entitled to recover the filing fee from the beneficiaries.

#### Licence fee

Total

39. The petitioner has prayed for reimbursement of licence fee from the beneficiaries. In this regard, it is clarified that the matter is under consideration of the Commission and any decision on the issue as and when taken will be applicable to this petition.

- 40. Transmission charges for Asset-II, Asset-III and Asset-V shall be shared by all Southern Region beneficiaries as per the 2004 regulations and transmission charges for Asset-II and Asset-IV being downstream assets shall be borne exclusively by TNEB in accordance with order our dated 28.3.2008 in Petition No. 85/2007.
- 41. This order disposes of Petition No. 12/2011.

Sd/- Sd/- Sd/
(M.Deena Dayalan) (V.S.Verma) (S.Jayaraman)

Member Member Member

## **CALCULATION OF WEIGHTED AVERAGE RATE OF INTEREST ON LOAN**

## Asset-I

		(₹ in lakh
	Details of Loan	2008-09
1	Bond-XIX	
	Gross Loan opening	450.0
	Cumulative Repayment upto	0.0
	DOCO/previous year	
	Net Loan-Opening	450.0
	Additions during the year	0.0
	Repayment during the year	0.0
	Net Loan-Closing	450.0
	Average Loan	450.0
	Rate of Interest	9.259
	Interest	41.6
	Repayment Schedule	12 Annual instalment
	napayment deneade	from 24.7.2010
2	Bond-XX	
	Gross Loan opening	40.0
	Cumulative Repayment upto	0.0
	DOCO/previous year	
	Net Loan-Opening	40.0
	Additions during the year	0.0
	Repayment during the year	0.0
	Net Loan-Closing	40.0
	Average Loan	40.0
	Rate of Interest	8.93
	Interest	3.5
	Repayment Schedule	12 Annual instalment
		from 07.09.2010
3	Bond-XXI	
	Gross Loan opening	3658.0
	Cumulative Repayment up to	0.0
	DOCO/previous year	
	Net Loan-Opening	3658.0
	Additions during the year	0.0
	Repayment during the year	0.0
	Net Loan-Closing	3658.0
1	Average Loan	3658.0
	Rate of Interest	8.739
	Interest	319.3
	Repayment Schedule	12 Annual instalment
	repayment senedule	from 11.10.2010
4	Bond-XXII	110111 11110.2010
Ť	Gross Loan opening	450.0
$\dashv$	Cumulative Repayment upto	0.0
	DOCO/previous year	0.0
$\dashv$	Net Loan-Opening	450.0
	Additions during the year	0.0

	Repayment during the year	0.00
	Net Loan-Closing	450.00
	Average Loan	450.00
	Rate of Interest	8.68%
	Interest	39.06
	Repayment Schedule	12 Annual instalments
	1 3	from 7.12.2010
5	Bond-XXIV	
	Gross Loan opening	450.00
	Cumulative Repayment up to	0.00
	DOCO/previous year	
	Net Loan-Opening	450.00
	Additions during the year	0.00
	Repayment during the year	0.00
	Net Loan-Closing	450.00
	Average Loan	450.00
	Rate of Interest	9.95%
	Interest	44.78
	Repayment Schedule	12 Annual instalments from 26.3.2011
6	Bond-XXV	
	Gross Loan opening	360.00
	Net Loan-Opening	360.00
	Additions during the year	0.00
	Repayment during the year	0.00
	Net Loan-Closing	360.00
	Average Loan	360.00
	Rate of Interest	10.10%
	Interest	36.36
	Repayment Schedule	12 Annual instalments from 12.06.2011
7	Bond-XXVI	
	Gross Loan opening	258.00
	Cumulative Repayment upto	0.00
	DOCO/previous year	
	Net Loan-Opening	258.00
	Additions during the year	0.00
	Repayment during the year	0.00
	Net Loan-Closing	258.00
	Average Loan	258.00
	Rate of Interest	9.30%
	Interest	23.99
	Repayment Schedule	12 Annual instalments from 07.03.2012
8	ADB III	
	Gross Loan opening	4495.70
	Cumulative Repayment upto	0.00
	DOCO/previous year	
	Net Loan-Opening	4495.70

	Additions during the year	0.00
	Repayment during the year	0.00
	Net Loan-Closing	4495.70
	Average Loan	4495.70
	Rate of Interest	5.34%
	Interest	240.13
	Repayment Schedule	30 Half instalments from 15-01-2010
9	Short term Loan from BOB 29 Sep-2008 to 14 Dec 2008 @12.5% replaced by bond XXVIII@ 9.33% from 15 Dec -2008 -2009 DRAWL on 15-12-2008	
	Gross Loan opening	0.00
	Cumulative Repayment upto DOCO/previous year	0.00
	Net Loan-Opening	0.00
	Additions during the year	569.15
	Repayment during the year	0.00
	Net Loan-Closing	569.15
	Average Loan	284.58
	Rate of Interest	10.66%
	Interest	30.34
	Repayment Schedule	12 Annual instalments from 15.12.2012
	Total Loan	
	Gross Loan opening	10161.70
	Cumulative Repayment upto DOCO	0.00
	Net Loan-Opening	10161.70
	Additions during the year	569.15
	Repayment during the year	0.00
	Net Loan-Closing	10730.85
	Average Loan	10446.28
	Rate of Interest	7.4590%
	Interest	779.18

#### **ANNEXURE-II**

# Asset-II

		(₹ in lakh)
	Details of Loan	2008-09
1	Bond-XIX	
	Gross Loan opening	50.00
	Cumulative Repayment up to DOCO/previous	0.00
	year	
	Net Loan-Opening	50.00
	Additions during the year	0.00
	Repayment during the year	0.00
	Net Loan-Closing	50.00
	Average Loan	50.00
	Rate of Interest	9.25%
	Interest	4.62
	Repayment Schedule	12 Annual
	nopayment cenedate	instalments from
		24.7.2010
2	Bond-XX	
	Gross Loan opening	4.00
	Cumulative Repayment up to DOCO/previous	0.00
	year	
	Net Loan-Opening	4.00
	Additions during the year	0.00
	Repayment during the year	0.00
	Net Loan-Closing	4.00
	Average Loan	4.00
	Rate of Interest	8.93%
	Interest	0.36
	Repayment Schedule	12 Annual
		instalments from
		7.9.2010
3	Bond-XXI	
	Gross Loan opening	1142.00
	Cumulative Repayment upto DOCO/previous	0.00
	year	
	Net Loan-Opening	1142.00
	Additions during the year	0.00
	Repayment during the year	0.00
	Net Loan-Closing	1142.00
	Average Loan	1142.00
	Rate of Interest	8.73%
	Interest	99.70
	Repayment Schedule	12 Annual
		instalments from
		11.10.2010
4	Bond-XXII	
	Gross Loan opening	50.00
	Cumulative Repayment upto DOCO/previous	0.00
	year	

		1	
	Net Loan-Opening		50.00
	Additions during the year		0.00
	Repayment during the year		0.00
	Net Loan-Closing		50.00
	Average Loan		50.00
	Rate of Interest		8.68%
	Interest		4.34
	Repayment Schedule	12	Annual
		instalments	from
		7.12.2010	
5	Bond-XXIV		
	Gross Loan opening		50.00
	Cumulative Repayment upto DOCO/previous		0.00
	year		F0.00
	Net Loan-Opening		50.00
	Additions during the year		0.00
	Repayment during the year		0.00
	Net Loan-Closing		50.00
	Average Loan		50.00
	Rate of Interest		9.95%
	Interest		4.98
	Repayment Schedule	12	Annual
		instalments	from
	2 1000	26.3.2011	
6	Bond-XXV		
	Gross Loan opening		125.00
	Net Loan-Opening		125.00
	Additions during the year		0.00
	Repayment during the year		0.00
	Net Loan-Closing		125.00
	Average Loan		125.00
	Rate of Interest		10.10%
	Interest		12.63
	Repayment Schedule	12	Annual
		instalments	from
		12.6.2011	
7	Bond-XXVI		
	Gross Loan opening		53.00
	Cumulative Repayment upto DOCO/previous		0.00
	year		
	Net Loan-Opening		53.00
	Additions during the year		0.00
	Repayment during the year		0.00
	Net Loan-Closing		53.00
	Average Loan		53.00
	Rate of Interest		9.30%
	Interest		4.93
	Repayment Schedule	12	Annual
		instalments	from
		7.3.2012	
8	ADB III		
	Gross Loan opening		408.70
	Cumulative Repayment up to DOCO/previous		0.00
	year		

	Net Loan-Opening	408.70
	Additions during the year	0.00
	Repayment during the year	0.00
	Net Loan-Closing	408.70
	Average Loan	408.70
	Rate of Interest	5.34%
	Interest	21.83
	Repayment Schedule	30 Half instalments
	Repayment senedule	from 15-01-2010
	Short term Loan from BOB 29 Sep-2008 to	14 Dec 2008 @12.5%
9	replaced by bond XXVIII@ 9.33% from 15 Dec	-2008 -2009 DRAWL on
	15-12-2008	
	Gross Loan opening	0.00
	Cumulative Repayment up to DOCO/previous	0.00
	year	
	Net Loan-Opening	0.00
	Additions during the year	109.38
	Repayment during the year	0.00
	Net Loan-Closing	109.38
	Average Loan	54.69
	Rate of Interest	10.66%
	Interest	5.83
	Repayment Schedule	12 Annual
		instalments from
	Total Loan	15.12.2012
	Gross Loan opening	1882.70
	Cumulative Repayment upto DOCO	0.00
	Net Loan-Opening	1882.70
	Additions during the year	109.38
	Repayment during the year	0.00
	Net Loan-Closing	1992.08
	Average Loan	1937.39
	Rate of Interest	8.2176%
	Interest	159.21
		137.21

# Asset-III

## CALCULATION OF WEIGHTED AVERAGE RATE OF INTEREST ON LOAN

1	Details of Loan Bond-XIX Gross Loan opening	2008-09
	Gross Loan opening	
	Cross Loan opening	3.00
	Cumulative Repayment upto	0.00
	DOCO/previous year	
	Net Loan-Opening	3.00
	Additions during the year	0.00
	Repayment during the year	0.00
-	Net Loan-Closing	3.00
	Average Loan	3.00
	Rate of Interest	9.25%
	Interest	0.28
	Repayment Schedule	12 Annual instalments
		from 24.07.2010
	Bond-XXI	
	Gross Loan opening	50.00
	Cumulative Repayment upto	0.00
	DOCO/previous year	
	Net Loan-Opening	50.00
	Additions during the year	0.00
	Repayment during the year	0.00
	Net Loan-Closing	50.00
	Average Loan	50.00
	Rate of Interest	8.73%
	Interest	4.37
	Repayment Schedule	12 Annual instalments from 11.10.2010
3	Bond-XXII	
	Gross Loan opening	50.00
	Cumulative Repayment upto	0.00
	DOCO/previous year	
	Net Loan-Opening	50.00
	Additions during the year	0.00
	Repayment during the year	0.00
-	Net Loan-Closing	50.00
	Average Loan	50.00
	Rate of Interest	8.68%
-	Interest	4.34
-	Repayment Schedule	12 Annual instalments
		from 07.12.2010
4	Bond-XXIV	
	Gross Loan opening	50.00

	Commented the Description of the Commented	0.00
	Cumulative Repayment upto	0.00
-	DOCO/previous year	50.00
	Net Loan-Opening	50.00
	Additions during the year	0.00
	Repayment during the year	0.00
	Net Loan-Closing	50.00
	Average Loan	50.00
	Rate of Interest	9.95%
	Interest	4.98
	Repayment Schedule	12 Annual instalments from 26.03.2011
5	Bond-XXV	
	Gross Loan opening	100.00
		0.00
	Net Loan-Opening	100.00
	Additions during the year	0.00
	Repayment during the year	0.00
	Net Loan-Closing	100.00
-	Average Loan	100.00
	Rate of Interest	10.10%
	Interest	10.10%
	Repayment Schedule	12 Annual instalments from 12.06.2011
6	Bond-XXVI	
	Gross Loan opening	50.00
	Cumulative Repayment upto	0.00
	DOCO/previous year	
	Net Loan-Opening	50.00
	Additions during the year	0.00
	Repayment during the year	0.00
	Net Loan-Closing	50.00
	Average Loan	50.00
	Rate of Interest	9.30%
	Interest	4.65
	Repayment Schedule	12 Annual instalments
		from 07.03.2012
7	ADB III	
	Gross Loan opening	296.40
	Cumulative Repayment upto	0.00
	DOCO/previous year	
	Net Loan-Opening	296.40
	Additions during the year	0.00
	Repayment during the year	0.00
	Net Loan-Closing	296.40
	Average Loan	296.40
	Rate of Interest	4.39%
	Interest	13.02
	Repayment Schedule	30 half instalments from 15-
		01-2010
8	Bond XXVIII [STBL FROM BOB 29.09.200	8 to 14 12 2009 @ 12 59/
١	Replaced by BOND XXVIII @ 9.33% from	
	Gross Loan opening	71.00
-		+

	Cumulative Repayment upto	0.00
	DOCO/previous year	
	Net Loan-Opening	71.00
	Additions during the year	0.00
	Repayment during the year	0.00
	Net Loan-Closing	71.00
	Average Loan	71.00
	Rate of Interest	10.25%
	Interest	7.28
	Repayment Schedule	12 Annual instalments from 15.12.2012
9	Bond XXVIII [STBL FROM BOB 29.09.2008 Replaced by BOND XXVIII @ 9.33% from 7	
	Gross Loan opening	0.00
	Cumulative Repayment upto DOCO/previous year	0.00
	Net Loan-Opening	0.00
	Additions during the year	34.39
	Repayment during the year	0.00
	Net Loan-Closing	34.39
	Average Loan	17.20
	Rate of Interest	10.25%
	Interest	1.76
	Repayment Schedule	12 Annual instalments from 15.12.2012
	Total Loan	
	Gross Loan opening	670.40
	Cumulative Repayment up to DOCO	0.00
	Net Loan-Opening	670.40
	Additions during the year	34.39
	Repayment during the year	0.00
	Net Loan-Closing	704.79
	Average Loan	687.60
	Rate of Interest	7.3832%
	Interest	50.77

## Asset-IV

## CALCULATION OF WEIGHTED AVERAGE RATE OF INTEREST ON LOAN

		(₹ in lakh)
	Details of Loan	2008-09
1	Bond-XIX	
	Gross Loan opening	7.00
	Cumulative Repayment upto DOCO/previous year	0.00
	, , , , , , , , , , , , , , , , , , ,	7.00
	Net Loan-Opening	7.00
	Additions during the year	0.00
	Repayment during the year	0.00
	Net Loan-Closing	7.00
	Average Loan	7.00
	Rate of Interest	9.25%
	Interest	0.65
	Repayment Schedule	12 Annual instalments from 24.07.2010
2	Bond-XXI	
	Gross Loan opening	100.00
	Cumulative Repayment upto	0.00
	DOCO/previous year	
	Net Loan-Opening	100.00
	Additions during the year	0.00
	Repayment during the year	0.00
	Net Loan-Closing	100.00
	Average Loan	100.00
	Rate of Interest	8.73%
	Interest	8.73
	Repayment Schedule	12 Annual instalments from 11.10.2010
3	Bond-XXII	
	Gross Loan opening	150.00
	Cumulative Repayment upto	0.00
	DOCO/previous year	
	Net Loan-Opening	150.00
	Additions during the year	0.00
	Repayment during the year	0.00
	Net Loan-Closing	150.00
	Average Loan	150.00
	Rate of Interest	8.68%
	Interest	13.02
	Repayment Schedule	12 Annual instalments
	nopayment seriodule	from 07.12.2010
4	Bond-XXIV	
	Gross Loan opening	50.00

		1 0.00
	Cumulative Repayment upto	0.00
	DOCO/previous year	E0.00
	Net Loan-Opening	50.00
	Additions during the year	0.00
	Repayment during the year  Net Loan-Closing	
	)	50.00
	Average Loan	50.00
	Rate of Interest	9.95%
	Interest Schodule	4.98 12 Annual instalments
	Repayment Schedule	from 26.03.2011
5	Bond-XXV	
	Gross Loan opening	200.00
		0.00
	Net Loan-Opening	200.00
	Additions during the year	0.00
	Repayment during the year	0.00
	Net Loan-Closing	200.00
	Average Loan	200.00
	Rate of Interest	10.10%
	Interest	20.20
	Repayment Schedule	12 Annual instalments
	Repayment schedule	from
		12.06.2011
6	Bond-XXVI	
	Gross Loan opening	100.00
	Cumulative Repayment upto	0.00
	DOCO/previous year	
	Net Loan-Opening	100.00
	Additions during the year	0.00
	Repayment during the year	0.00
	Net Loan-Closing	100.00
	Average Loan	100.00
	Rate of Interest	9.30%
	Interest	9.30
	Repayment Schedule	12 Annual instalments
	-13	from 7.3.2012
7	ADB III	
	Gross Loan opening	592.80
	Cumulative Repayment upto	0.00
	DOCO/previous year	
	Net Loan-Opening	592.80
	Additions during the year	0.00
	Repayment during the year	0.00
	Net Loan-Closing	592.80
	Average Loan	592.80
	Rate of Interest	4.39%
	Interest	26.03
	Repayment Schedule	30 Half nstalments from
8	Bond XXVIII [STBL FROM BOB 29.09.2008 to 14.1	15-01-2010 2.2008 @ 12.5% Replaced
	by BOND XXVIII @ 9.33% from 15.12.2008 ]	

	Gross Loan opening	158.00
	Cumulative Repayment upto	0.00
	DOCO/previous year	
	Net Loan-Opening	158.00
	Additions during the year	0.00
	Repayment during the year	0.00
	Net Loan-Closing	158.00
	Average Loan	158.00
	Rate of Interest	10.25%
	Interest	16.20
	Repayment Schedule	12 Annual instalments from 15.12.2012
9	<b>Bond XXVIII</b> [STBL FROM BOB 29.09.2008 to 14.1 by BOND XXVIII @ 9.33% from 15.12.2008 ]	2.2008 @ 12.5% Replaced
	Gross Loan opening	0.00
	Cumulative Repayment upto DOCO/previous year	0.00
	Net Loan-Opening	0.00
	Additions during the year	70.59
	Repayment during the year	0.00
	Net Loan-Closing	70.59
	Average Loan	35.30
	Rate of Interest	10.25%
	Interest	3.62
	Repayment Schedule	12 Annual instalments from 15.12.2012
	Total Loan	
	Gross Loan opening	1357.80
	Cumulative Repayment upto DOCO	0.00
	Net Loan-Opening	1357.80
	Additions during the year	70.59
	Repayment during the year	0.00
	Net Loan-Closing	1428.39
	Average Loan	1393.10
	Rate of Interest	7.3738%
	Interest	102.72

		(₹ in lakh
	Details of Loan	2008-09
1	Bond-XIX	2000-07
•	Gross Loan opening	96.0
_	Cumulative Repayment up to DOCO/previous	0.0
	year	0.0
	Net Loan-Opening	96.0
	Additions during the year	0.0
	Repayment during the year	0.0
	Net Loan-Closing	96.0
	Average Loan	96.0
	Rate of Interest	9.259
	Interest	8.8
T	Repayment Schedule	12 Annual
	and a grant a series and a	instalments
		from 24.7.2010
2	Bond-XXI	
T	Gross Loan opening	240.0
T	Cumulative Repayment up to DOCO/previous	0.0
	year	0.0
1	Net Loan-Opening	240.0
=	Additions during the year	0.0
=	Repayment during the year	0.0
=	Net Loan-Closing	240.0
-	Average Loan	
-	Rate of Interest	240.0 8.73°
-		
_	Interest	20.9
	Repayment Schedule	12 Annual instalments from 31.10.2010
3	Bond-XXII	11011101110.2010
1	Gross Loan opening	240.0
<b>-</b>	Cumulative Repayment up to DOCO/previous	0.0
	year	
	Net Loan-Opening	240.0
	Additions during the year	0.0
	Repayment during the year	0.0
	Net Loan-Closing	240.0
	Average Loan	240.0
	Rate of Interest	8.689
	Interest	20.8
	Repayment Schedule	12 Annual instalments from 7.12.2010
ı	Bond-XXIV	
	Gross Loan opening	80.0
+	Cumulative Repayment up to DOCO/previous	0.0
J		
	year	0.0

	Additions during the year	0.00
	Repayment during the year	0.00
	Net Loan-Closing	80.00
	Average Loan	80.00
	Rate of Interest	9.95%
	Interest	7.96
	Repayment Schedule	12 Annual
	Repayment seriedale	instalments
		from 26.03.2011
5	Bond-XXV	
	Gross Loan opening	400.00
	Cumulative Repayment up to DOCO/previous	0.00
	year	
	Net Loan-Opening	400.00
	Additions during the year	0.00
	Repayment during the year	0.00
	Net Loan-Closing	400.00
	Average Loan	400.00
	Rate of Interest	10.10%
	Interest	40.40
	Repayment Schedule	12 Annual
	Repayment schedule	instalments
		from 12.6.2011
6	Bond-XXVI	110111 12.0.2011
Ŭ	Gross Loan opening	152.00
	Gross Loan opening	102.00
	Cumulative Repayment upto DOCO/previous	0.00
	year	150.00
	Net Loan-Opening	152.00
	Additions during the year	0.00
	Repayment during the year	0.00
	Net Loan-Closing	152.00
	Average Loan	152.00
	Rate of Interest	9.30%
	Interest	14.14
	Repayment Schedule	12 Annual
		instalments
_	4.00 W	from 07.03.2012
7	ADB III	
	Gross Loan opening	892.26
	Cumulative Repayment upto DOCO/previous	0.00
	year Not Lean Opening	002.27
	Net Loan-Opening	892.26
	Additions during the year	0.00
	Repayment during the year	0.00
	Net Loan-Closing	892.26
	Average Loan	892.26
	Rate of Interest	2.72%
	Interest	24.22
	Repayment Schedule	30 half instalments
	Bond-XXVIII (Add Cap For 2008-2	from 15-01-2010
8	Drawl on 31.03.2009)	007
Ť	Gross Loan opening	0.00
	. 3	

Cumulative Repayment upto	0.00
DOCO/previous year	
Net Loan-Opening	0.00
Additions during the year	160.56
Repayment during the year	0.00
Net Loan-Closing	160.56
Average Loan	80.28
Rate of Interest	9.33%
Interest	7.49
Repayment Schedule	12 Annual instalments
	from 15.12.2012
Total Loan	
Gross Loan opening	2100.26
Cumulative Repayment up to DOCO	0.00
Net Loan-Opening	2100.26
Additions during the year	160.56
Repayment during the year	0.00
Net Loan-Closing	2260.82
Average Loan	2180.54
Rate of Interest	6.6439%
Interest	144.87