

**CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI**

PETITION NO. 435/TT/2014

Coram:
Shri A.S. Bakshi, Member
Dr. M. K. Iyer, Member

Date of Hearing: 02.12.2015
Date of Order : 30.12.2015

In the Matter of:

Truing up of transmission tariff for 2009-14 tariff block and determination of transmission tariff for 2014-19 tariff block for combined assets of (i) Tala – Siliguri Transmission System and (ii) Remaining part of Tala - -Siliguri transmission System in Eastern Region under Regulation-86 of Central Electricity Regulatory Commission (Conduct of Business) Regulations 1999, Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations 2009 and Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations 2014.

And in the Matter of:

Power Grid Corporation of India Ltd,
SAUDAMINI, Plot No.-2, Sector-29,
Gurgaon-122001 (Haryana)

.....Petitioner

Versus

1. Bihar State Electricity Board,
Vidyut Bhawan, Bailey Road,
Patna – 800001
2. West Bengal State Electricity Distribution Company
Bidyut Bhawan, Bidhan Nagar,
Block DJ, Sector – II, Salt Lake City,
Calcutta - 700091



3. Grid Corporation of Orrisa Limited,
Shahid Nagar, Bhubaneswar – 751007
4. Damodar Valley Corporation,
DVC Tower Maniktala,
Civic Centre, VIP road, Calcutta - 700054
5. Power Department,
Government of Sikkim,
Gangtok – 737101
6. Jharkhand State Electricity Board
In Front of Main Secretariat,
Doranda, Ranchi – 834002

....Respondent(s)

The following were present:

For Petitioner: Shri S.K. Niranjana, PGCIL
Shri S.S. Raju, PGCIL
Shri AngaruNaresh Kumar PGCIL
Shri JasbirSingh, PGCIL
Shri ShashiBhushan, PGCIL
Shri J. Mazumder, PGCIL
Shri R. Prasad, PGCIL
Shri Sunil Kumar, PGCIL
Shri AnshulGarg, PGCIL
Shri Rakesh Prasad, PGCIL
Shri M.M. Mondal, PGCIL
Shri S.K Venkatesan, PGCIL

For Respondents: None

ORDER

The petition has been preferred by Power Grid Corporation of India Limited (hereinafter referred to as “the petitioner”), a transmission licensee, for revision of tariff under Regulation 6 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2009 (hereinafter referred to as “the 2009 Tariff Regulations”) based on truing up of capital expenditure for the period 1.4.2009 to



31.3.2014 and for determination of tariff under Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014 (hereinafter referred to as "the 2014 Tariff Regulations") for the period from 1.4.2014 to 31.3.2019 in respect of for combined assets of (i) Tala – Siliguri Transmission System and (ii) Remaining part of Tala - -Siliguri transmission System in Eastern Region (hereinafter referred as "the transmission asset").

2. The respondents are distribution licensees, who are procuring transmission service from the petitioner, mainly beneficiaries of Eastern Region.

3. The brief facts of the case are as follows:-

a) The investment approval for revised cost estimate of the transmission scheme was accorded by the Board of Directors of the petitioner company vide letter dated 17.7.2002 at an estimated cost of ₹ 23153.00 lakh including IDC of ₹ 1789.00 lakh. Subsequently, revised cost estimate was approved by the Board of Directors of the petitioner company vide memorandum dated 20.10.2006 at an estimated cost of ₹ 28779.00 Lakh, including IDC of ₹ 2377.00 lakh.

b) The date of commercial operation for the transmission asset is 1.5.2006 (Assets-I:- 1.10.2005 and Assets-II:- 1.5.2006). The Commission, vide its order dated 8.4.2011 in Petition No. 225/2010, had approved the capital cost of ₹28365.34 lakh as on 31.3.2009 as under:-



Admitted as on 31.3.2009	Amount (in ₹ lakh)	Percentage (%)
Debt	21019.86	74.10
Equity	7345.48	25.90
Capital Cost	28365.34	100.00

c) The petitioner had approached the Commission vide Petition No. 225/2010 for approval of estimated additional capital expenditure towards balance /retention payments during 2009-10 and determination of tariff for 2009-14 tariff period.

d) The Commission, vide order dated 8.4.2011, determined the tariff for the transmission asset for tariff period 2009-14, based on admitted capital cost of ₹28365.34 lakh as on 31.3.2009 and estimated additional capital expenditure of ₹12.48 lakh for 2009-10 as given below:-

Particulars	(₹in lakh)				
	2009-10	2010-11	2011-12	2012-13	2013-14
Depreciation	1499.84	1500.17	1500.17	1500.17	1500.17
Interest on Loan	1242.05	1134.67	1025.80	917.01	808.32
Return on Equity	1284.39	1284.72	1284.72	1284.72	1284.72
Interest on Working Capital	121.45	121.37	121.38	121.51	121.77
O & M Expenses	750.31	793.29	838.70	886.65	937.24
Total	4898.05	4834.22	4770.77	4710.06	4652.22

4. Regulation 6 of the 2009 Tariff Regulations provides that the Commission shall carry out truing up exercise along with the tariff petition filed for the next tariff period, with respect to the capital expenditure including additional capital expenditure incurred up to 31.3.2014, as admitted by the Commission after prudence check at the time of truing up. Further, as per Regulation 15 of the 2009 Tariff Regulations, the petitioner is required to adjust the yearly impact of MAT rate in the truing up petition for 2009-14



tariff period. In this context, the petitioner has filed the instant petition on 30.10.2014, for revision of tariff for the tariff period 2009-14 in accordance with Regulation 6 of the 2009 Tariff Regulations.

5. The petitioner has served the petition to the respondents and notice of this application has been published in the newspaper in accordance with Section 64 of the Electricity Act 2003. No comments/objections have been received from the public in response to the notice in newspaper. No submissions have been made by the respondents. The hearing in this matter was held on 2.12.2015. The petitioner was directed to submit the additional information through letter dated 27.11.2015. The petitioner has submitted the additional information vide rejoinder dated 2.12.2015. Having heard the representatives of the petitioner and perused the material on record, we proceed to dispose of the petition.

TRUING UP OF ANNUAL FIXED CHARGES FOR 2009-14 TARIFF PERIOD:-

6. Clause (3) of the Regulation 6 of the 2009 Tariff Regulations provides as under:-

“(3) The generating company or the transmission licensee, as the case may be, shall submit for the purpose of truing up, details of capital expenditure and additional capital expenditure incurred for the period from 1.4.2009 to 31.3.2014, duly audited and certified by the auditors”.

7. The petitioner has submitted the information as required under the 2009 Tariff Regulations for truing up of annual fixed charges for 2009-14 tariff period. The tariff for 2009-14 tariff period has been trued up in the subsequent paragraphs:-



Capital Cost

8. The admitted capital cost of ₹28365.34 lakh as on 31.3.2009 has been claimed by the petitioner as opening capital cost as on 1.4.2009 for the purpose of tariff determination.

9. The last proviso to Regulation 7(2) of the 2009 Tariff Regulations provides that:-

“Provided also that in case of the existing projects, the capital cost admitted by the Commission prior to 1.4.2009 duly trued up by excluding un-discharged liability, if any, as on 1.4.2009 and the additional capital expenditure projected to be incurred for the respective year of the tariff period 2009-14, as may be admitted by the Commission, shall form the basis for determination of tariff”.

10. The capital cost of ₹28365.34 lakh admitted by the Commission as on 31.3.2009 has been considered as opening capital cost as on 1.4.2009 for determination of trued up tariff in accordance with Regulation 7 of the 2009 Tariff Regulations.

Additional Capital Expenditure

11. Clause (1) of Regulation 6 of the 2009 Regulations provides that:-

“...The Commission shall carry out truing up exercise along with the tariff petition filed for the next tariff period, with respect to the capital expenditure including additional capital expenditure incurred up to 31.3.2014...”

12. The petitioner has submitted that it has incurred an additional capital expenditure of ₹11.36 lakh in 2009-10 and ₹38.71 lakh in 2010-11 towards balance and retention payments as certified by its Auditor vide certificate dated 17.10.2014 as depicted below:-



(₹in lakh)

Capital cost admitted as on 31.3.2009	Additional capital expenditure	2009-10	2010-11	2011-12	2012-13	2013-14	Total cost as on 31.3.2014
28365.34	Approved vide order dated 8.4.2011	12.48	-	-	-	-	28377.82
28365.34	Actual incurred during 2009-14	11.36	38.71	-	-	-	28415.41

13. The petitioner, vide rejoinder dated 2.12.2015, has submitted that the payments to contractors could not be made due to non closure of reconciliation with them and accordingly there was some outstanding payments towards balance and retention incurred in 2009-10 and 2010-11. It has further submitted that ₹11.36 lakh is on account of reimbursement of Service Tax during 2009-10 and ₹38.71 lakh towards balance and retention payments.

14. We have considered the submissions of the petitioner with regard to the actual capital expenditure during 2009-10 and 2010-11. The capital addition of ₹50.07lakh is based on actual capital expenditure incurred as per the Auditor Certificate submitted by the Petitioner. The additional capital expenditure incurred is within the original scope of work and the total capital expenditure during 2009-14 is within the limits of the total approved capital expenditure. We allow the same for the purpose of revision of tariff in accordance with Regulation 6 of the 2009 Tariff Regulations.

15. The debt:equity ratio of 70:30 for additional capital expenditure as claimed by the petitioner is in accordance with the Regulation 12 (3) of the 2009 Tariff Regulations and



hence, same has been considered towards financing of the additional capital expenditure.

Debt: Equity

16. Regulation 12 of the 2009 Tariff Regulations provides as under:-

“12. Debt-Equity Ratio. (1) For a project declared under commercial operation on or after 1.4.2009, if the equity actually deployed is more than 30% of the capital cost, equity in excess of 30% shall be treated as normative loan:

Provided that where equity actually deployed is less than 30% of the capital cost, the actual equity shall be considered for determination of tariff:

(2) In case of the generating station and the transmission system declared under commercial operation prior to 1.4.2009, debt-equity ratio allowed by the Commission for determination of tariff for the period ending 31.3.2009 shall be considered.

(3) Any expenditure incurred or projected to be incurred on or after 1.4.2009 as may be admitted by the Commission as additional capital expenditure for determination of tariff, and renovation and modernisation expenditure for life extension shall be serviced in the manner specified in clause (1) of this regulation.”

17. The petitioner has claimed the tariff based on the debt: equity ratio of 74.10:25.90 as on 31.3.2009 as admitted by the Commission in its order dated 8.4.2011 in petition no.225/2010. The admitted debt:equity ratio as on 31.3.2009 has been considered as opening debt:equity ratio on 1.4.2009 for determination of tariff in accordance with the Regulation 12 of the 2009 Tariff Regulations. In respect of the additional capitalization, debt:equity ratio of 70:30 has been considered which is in line with the 2009 Tariff Regulations.

18. The details of the debt: equity considered for the purpose of tariff for 2009-14 tariff period is as follows:-



Capital Structure	Capital Cost as on 31.3.2009		Additional Capital Expenditure during 2009-14		Capital Cost as on 31.3.2014	
	(₹ in lakh)	(%)	(₹ in lakh)	(%)	(₹ in lakh)	(%)
Debt	21019.86	74.10	35.05	70	21045.91	74.10
Equity	7345.48	25.90	15.02	30	7360.50	25.90
Total	28365.34	100.00	50.07	100	28415.41	100.00

Return on Equity ('ROE')

19. Clause (3), (4) and (5) of the Regulation 15 of the 2009 Tariff Regulations provide that

“(3) The rate of return on equity shall be computed by grossing up the base rate with the Minimum Alternate/Corporate Income Tax Rate for the year 2008-09, as per the Income Tax Act, 1961, as applicable to the concerned generating company or the transmission licensee, as the case may be.

(4) Rate of return on equity shall be rounded off to three decimal points and be computed as per the formula given below:

$$\text{Rate of pre-tax return on equity} = \text{Base rate} / (1-t)$$

Where “t” is the applicable tax rate in accordance with clause (3) of this regulation.

(5) The generating company or the transmission licensee, as the case may be, shall recover the shortfall or refund the excess Annual Fixed Charge on account of Return on Equity due to change in applicable Minimum Alternate/Corporate Income Tax Rate as per the Income Tax Act, 1961 (as amended from time to time) of the respective financial year directly without making any application before the Commission:

Provided further that Annual Fixed Charge with respect to the tax rate applicable to the generating company or the transmission licensee, as the case may be, in line with the provisions of the relevant Finance Acts of the respective year during the tariff period shall be trued up in accordance with Regulation 6 of these regulations.”

20. The variation in the tax rate during the 2009-14 tariff period applicable to the petitioner as per the Finance Act of the relevant year for the purpose of grossing up of return on equity has been furnished as follows:-



Year	MAT Rate claimed in the current petition	Grossed up ROE (Base Rate/(1-t)) claimed in the current petition
2009-10	16.995%	18.674%
2010-11	19.931%	19.358%
2011-12	20.008%	19.377%
2012-13	20.008%	19.377%
2013-14	20.961%	19.610%

21. Regulation 15 of the 2009 Tariff Regulations provides for grossing up of ROE with the actual tax rate for the purpose of ROE. The petitioner has submitted that MAT rate was applicable during the various years of 2009-14 tariff period. The ROE has been worked out by considering year wise MAT rate submitted by the petitioner in accordance with Regulation 15 of the 2009 Tariff Regulations. The ROE allowed is as follows:-

	(₹in lakh)				
Return on Equity	2009-10	2010-11	2011-12	2012-13	2013-14
Approved in Order dated 8.4.2011	1284.39	1284.72	1284.72	1284.72	1284.72
Claimed by the petitioner	1372.01	1423.72	1426.24	1426.24	1443.39
Allowed after true up in this order	1371.98	1423.74	1426.24	1426.24	1443.43

The variation in the return on equity is on account of change in the applicable MAT rate considered for the purpose of grossing up of base rate of return on equity.

Interest on Loan ('IoL')

22. Regulation 16 of the 2009 Tariff Regulations provide the methodology for working out weighted average rate of IoL. The Commission in its earlier order dated 8.6.2011 in Petition No. 238/2010 has dealt with similar issue and held that:-



“...in case of floating rate of interest, any change in the rates of interest during the tariff period will be considered at the time of true up”.

23. The petitioner has submitted the weighted average rate of IoL, based on its actual loan portfolio and rate of interest for the tariff period 2009-14. Regulation 16 of the 2009 Tariff Regulations provides that the weighted average interest rate of loan is to be worked out based on actual loan portfolio. The weighted average rate of interest is worked out based on the actual loan interest rate and repayments submitted by the petitioner and placed in Annexure - 1. Accordingly, the IoL has been calculated based on actual weighted average interest rate worked out as above, in accordance with the Regulation 16 of the 2009 Tariff Regulations. The IoL worked out is as follows:-

	(₹ in lakh)				
Interest on Loan	2009-10	2010-11	2011-12	2012-13	2013-14
Approved in Order dated 8.4.2011	1242.05	1134.67	1025.80	917.01	808.32
Claimed by the petitioner	1242.02	1135.58	1027.60	918.66	809.82
Allowed after true up in this order	1242.02	1135.57	1027.59	918.65	809.82

The variation in IoL for the assets is on account of change in additional capitalization and weighted average rate of interest.

Depreciation

24. The depreciation has been worked out as per the methodology provided in the Regulation 17 of the 2009 Tariff Regulations. The depreciation allowed is as follows:-



(₹ in lakh)					
Depreciation	2009-10	2010-11	2011-12	2012-13	2013-14
Approved in Order dated 8.4.2011	1499.84	1500.17	1500.17	1500.17	1500.17
Claimed by the petitioner	1499.81	1501.13	1502.15	1502.15	1502.15
Allowed after true up in this order	1499.82	1501.14	1502.16	1502.16	1502.16

The variation in depreciation is due to change in additional capital expenditure and corresponding gross block during the 2009-14 tariff period.

Interest on Working Capital ('IWC')

25. The IWC has been worked out as per the methodology provided in the Regulation 18 of the 2009 Tariff Regulations and allowed as under:-

(₹ in lakh)					
Interest on Working Capital	2009-10	2010-11	2011-12	2012-13	2013-14
Approved in Order dated 8.4.2011	121.45	121.37	121.38	121.51	121.77
Claimed by the petitioner	123.27	124.31	124.40	124.53	125.15
Allowed after true up in this order	123.27	124.31	124.40	124.53	125.15

The variation in IWC is due to change in additional capital expenditure, corresponding receivables and change in ROE on account of variation in applicable MAT rate during the 2009-14 tariff period.

Operation & Maintenance Expenses ('O&M Expenses')

26. Clause (g) of Regulation 19 of the 2009 Tariff Regulations specifies the norms for O&M Expenses for the transmission system. The normative O&M Expenses are not required to be trued up. Accordingly, the total allowable O&M expenses for the instant



assets have been worked out based on norms of O&M Expenses and the details are as follows:-

	(₹ in lakh)				
O&M Expenses	2009-10	2010-11	2011-12	2012-13	2013-14
Approved in Order dated 8.4.2011	750.31	793.29	838.70	886.65	937.24
Claimed by the petitioner	750.31	793.29	838.70	886.65	937.24
Allowed after true up in this order	750.31	793.29	838.70	886.65	937.24

APPROVED ANNUAL FIXED CHARGES FOR 2009-14 TARIFF PERIOD

27. The detailed computation of the various components of the trued up annual fixed charges for the instant transmission assets for the tariff period 2009-14 is summarised below:-

	(₹ in lakh)				
Particulars	2009-10	2010-11	2011-12	2012-13	2013-14
Depreciation					
Opening Gross Block	28365.34	28376.70	28415.41	28415.41	28415.41
Additional Capitalization	11.36	38.71	0.00	0.00	0.00
Closing Gross Block	28376.70	28415.41	28415.41	28415.41	28415.41
Average Gross Block	28371.02	28396.06	28415.41	28415.41	28415.41
Rate of Depreciation (%)	5.29	5.29	5.29	5.29	5.29
Depreciable Value	25533.92	25561.56	25591.29	25573.87	25573.87
Balance useful life of the asset	31	30	29	28	27
Elapsed life	2	3	4	5	6
Remaining Depreciable Value	22239.96	20762.67	19278.96	17776.80	16274.64
Depreciation during the year	1499.82	1501.14	1502.16	1502.16	1502.16
Cumulative depreciation (incl. of AAD)	4793.78	6294.91	7797.07	9299.23	10801.39
Interest on Loan					
Gross Normative Loan	21019.86	21027.81	21054.91	21054.91	21054.91
Cumulative Repayments upto Previous Year	3293.96	4793.78	6294.91	7797.07	9299.23



Particulars	2009-10	2010-11	2011-12	2012-13	2013-14
Net Loan-Opening	17725.90	16234.04	14760.00	13257.84	11755.68
Additions	7.95	27.10	0.00	0.00	0.00
Repayment during the year	1499.82	1501.14	1502.16	1502.16	1502.16
Net Loan-Closing	16234.04	14760.00	13257.84	11755.68	10253.52
Average Loan	16979.97	15497.02	14008.92	12506.76	11004.60
Weighted Average Rate of Interest on Loan (%)	7.3146	7.3277	7.3353	7.3453	7.3589
Interest on Loan	1242.02	1135.57	1027.59	918.65	809.82
Return on Equity					
Opening Equity	7345.48	7348.89	7360.50	7360.50	7360.50
Additions	3.41	11.61	0.00	0.00	0.00
Closing Equity	7348.89	7360.50	7360.50	7360.50	7360.50
Average Equity	7347.18	7354.69	7360.50	7360.50	7360.50
Return on Equity (Base Rate)(%)	15.500	15.500	15.500	15.500	15.500
MAT Rate for respective year (%)	16.995	19.931	20.008	20.008	20.961
Rate of Return on Equity (%)	18.674	19.358	19.377	19.377	19.610
Return on Equity	1371.98	1423.74	1426.24	1426.24	1443.43
Interest on Working Capital					
O & M Expenses	62.50	66.08	69.86	73.86	78.07
Maintenance Spares	112.55	118.99	125.81	133.00	140.59
Receivables	831.23	829.67	819.85	809.70	802.97
Total Working Capital	1006.28	1014.75	1015.52	1016.56	1021.62
Rate of Interest (%)	12.25	12.25	12.25	12.25	12.25
Interest of working capital	123.27	124.31	124.40	124.53	125.15
Annual Transmission Charges					
Depreciation	1499.82	1501.14	1502.16	1502.16	1502.16
Interest on Loan	1242.02	1135.57	1027.59	918.65	809.82
Return on Equity	1371.98	1423.74	1426.24	1426.24	1443.43
Interest on Working Capital	123.27	124.31	124.40	124.53	125.15
O & M Expenses	750.31	793.29	838.70	886.65	937.24
Total	4987.40	4978.05	4919.09	4858.23	4817.79



DETERMINATION OF ANNUAL FIXED CHARGES FOR 2014-19 TARIFF PERIOD:-

28. The petitioner has claimed the tariff charges for 2014-19 tariff period as under:-

(₹ in lakh)

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Depreciation	1502.15	1502.15	1502.15	1502.15	1502.15
Interest on Loan	701.17	592.85	485.28	380.04	283.07
Return on Equity	1443.39	1443.39	1443.39	1443.39	1443.39
Interest on Working Capital	131.42	130.50	129.65	128.92	128.42
O & M Expenses	859.40	888.05	917.48	947.95	979.37
Total	4637.53	4556.94	4477.95	4402.45	4336.4

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

(₹ in lakh)

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
O & M Expenses	71.62	74.00	76.46	79.00	81.61
Maintenance Spares	128.91	133.21	137.62	142.19	146.91
Receivables	772.92	759.49	746.33	733.74	722.73
Total	973.45	966.70	960.41	954.93	951.25
Rate of Interest (%)	13.50%	13.50%	13.50%	13.50%	13.50%
Interest	131.42	130.50	129.65	128.92	128.42

Capital Cost

30. Clause (3) and (6) of Regulation 9 of 2014 Tariff Regulation provide as follows:-

“(3) The Capital cost of an existing project shall include the following:

- (a) the capital cost admitted by the Commission prior to 1.4.2014 duly trued up by excluding liability, if any, as on 1.4.2014;
- (b) additional capitalization and de-capitalization for the respective year of tariff as determined in accordance with Regulation 14; and
- (c) expenditure on account of renovation and modernisation as admitted by this Commission in accordance with Regulation 15.”

“(6) The following shall be excluded or removed from the capital cost of the existing and new project:

- (a) The assets forming part of the project, but not in use; (b) Decapitalisation of Asset;”



31. The capital cost of ₹28415.41 lakh worked out by the Commission as on 31.3.2014 has been considered as opening capital cost as on 1.4.2014 for determination of tariff in accordance with Regulation 9 of the 2014 Tariff Regulations.

Additional Capital Expenditure

32. The petitioner has not claimed any additional capital expenditure for 2014-19 tariff period.

Debt: Equity

33. Clause (1) and (3) of Regulation 19 of the 2014 Tariff Regulations provide as under:-

“19. Debt-Equity Ratio: (1) For a project declared under commercial operation on or after 1.4.2014, the debt-equity ratio would be considered as 70:30 as on COD. If the equity actually deployed is more than 30% of the capital cost, equity in excess of 30% shall be treated as normative loan:”

“(3) In case of the generating station and the transmission system including communication system declared under commercial operation prior to 1.4.2014, debt equity ratio allowed by the Commission for determination of tariff for the period ending 31.3.2014 shall be considered.”

“(5) Any expenditure incurred or projected to be incurred on or after 1.4.2014 as may be admitted by the Commission as additional capital expenditure for determination of tariff, and renovation and modernisation expenditure for life extension shall be serviced in the manner specified in clause (1) of this regulation.”

34. The petitioner has considered the debt:equity ratio of 74.10:25.90 as on 31.3.2014, which is in line with the 2014 Tariff Regulations. The details of the debt:equity considered for the purpose of tariff for 2014-19 tariff period is as follows:-



Funding	Total Cost as on 31.3.2014		Additional Capital Expenditure during 2014-19		Total Cost as on 31.3.2019	
	(₹ in lakh)	(%)	(₹ in lakh)	(%)	(₹ in lakh)	(%)
Debt	21045.91	74.10	0.00	0.00	21045.91	74.10
Equity	7360.50	25.90	0.00	0.00	7360.50	25.90
Total	28415.41	100.00	0.00	0.00	28415.41	100.00

Return on Equity ('ROE')

35. Clause (1) and (2) of Regulations 24 and Clause (2) of Regulation 25 of the 2014 Tariff Regulations specify as under:-

“24. Return on Equity: (1) Return on equity shall be computed in rupee terms, on the equity base determined in accordance with regulation 19.

(2) Return on equity shall be computed at the base rate of 15.50% for thermal generating stations, transmission system including communication system”

“25. Tax on Return on Equity:

(2) Rate of return on equity shall be rounded off to three decimal places and shall be computed as per the formula given below:

Rate of pre-tax return on equity = Base rate / (1-t)

Where “t” is the effective tax rate in accordance with Clause (1) of this regulation and shall be calculated at the beginning of every financial year based on the estimated profit and tax to be paid estimated in line with the provisions of the relevant Finance Act applicable for that financial year to the company on pro-rata basis by excluding the income of non-generation or non-transmission business, as the case may be, and the corresponding tax thereon. In case of generating company or transmission licensee paying Minimum Alternate Tax (MAT), “t” shall be considered as MAT rate including surcharge and cess.”

36. The petitioner has submitted that MAT rate is applicable to the petitioner's company. Accordingly, the MAT rate applicable during the 2013-14 has been considered for the purpose of ROE, which shall be trued up with actual tax rate in accordance with Clause (3) of Regulation 25 of the 2014 Tariff Regulations. The ROE has been worked out and allowed as follows:-



(₹ in lakh)

Return on Equity	2014-15	2015-16	2016-17	2017-18	2018-19
Opening Equity	7360.50	7360.50	7360.50	7360.50	7360.50
Additions	0.00	0.00	0.00	0.00	0.00
Closing Equity	7360.50	7360.50	7360.50	7360.50	7360.50
Average Equity	7360.50	7360.50	7360.50	7360.50	7360.50
Return on Equity (Base Rate) (%)	15.500	15.500	15.500	15.500	15.500
MAT Rate for respective year (%)	20.961	20.961	20.961	20.961	20.961
Rate of Return on Equity (%)	19.610	19.610	19.610	19.610	19.610
Return on Equity	1443.43	1443.43	1443.43	1443.43	1443.43

Interest on Loan ('IoL')

37. Clause 5 and Clause 6 of Regulation 26 of the 2014 Tariff Regulations provides that:-

“(5) The rate of interest shall be the weighted average rate of interest calculated on the basis of the actual loan portfolio after providing appropriate accounting adjustment for interest capitalized:

Provided that if there is no actual loan for a particular year but normative loan is still outstanding, the last available weighted average rate of interest shall be considered:

Provided further that if the generating station or the transmission system, as the case may be, does not have actual loan, then the weighted average rate of interest of the generating company or the transmission licensee as a whole shall be considered.

(6) The interest on loan shall be calculated on the normative average loan of the year by applying the weighted average rate of interest.”

38. The weighted average rate of IoL has been considered on the basis of rate prevailing as on 1.4.2014. The petitioner has prayed that the change in interest rate due to floating rate of interest applicable, if any, during 2014-19 tariff period will be adjusted. Accordingly, the floating rate of interest, if any, shall be considered at the time of true up or next revision of tariff. By considering above, the IoL has been worked out in accordance with Regulation 26 of the 2014 Tariff Regulations. The details of weighted



average rate of interest for 2014-19 tariff period are placed in Annexure-2 and the IoL has been worked out and allowed as follows:-

(₹ in lakh)					
Interest on Loan	2014-15	2015-16	2016-17	2017-18	2018-19
Gross Normative Loan	21054.91	21054.91	21054.91	21054.91	21054.91
Cumulative Repayment upto Previous Year	10801.39	12303.55	13805.71	15307.87	16810.03
Net Loan-Opening	10253.52	8751.36	7249.20	5747.04	4244.88
Additions	0.00	0.00	0.00	0.00	0.00
Repayment during the year	1502.16	1502.16	1502.16	1502.16	1502.16
Net Loan-Closing	8751.36	7249.20	5747.04	4244.88	2742.72
Average Loan	9502.44	8000.28	6498.12	4995.96	3493.80
Weighted Average Rate of Interest on Loan (%)	7.3788	7.4103	7.4679	7.6069	8.1020
Interest on Loan	701.17	592.85	485.27	380.04	283.07

Depreciation

39. Clause (2), (5) and (6) of Regulation 27 of the 2014 Tariff Regulations provide that:-

"27. Depreciation:

...(2) The value base for the purpose of depreciation shall be the capital cost of the asset admitted by the Commission. In case of multiple units of a generating station or multiple elements of transmission system, weighted average life for the generating station of the transmission system shall be applied. Depreciation shall be chargeable from the first year of commercial operation. In case of commercial operation of the asset for part of the year, depreciation shall be charged on pro rata basis"

"(5) Depreciation shall be calculated annually based on Straight Line Method and at rates specified in Appendix-II to these regulations for the assets of the generating station and transmission system:

Provided that the remaining depreciable value as on 31st March of the year closing after a period of 12 years from the effective date of commercial operation of the station shall be spread over the balance useful life of the assets.

(6) In case of the existing projects, the balance depreciable value as on 1.4.2014 shall be worked out by deducting the cumulative depreciation as admitted by the Commission upto 31.3.2014 from the gross depreciable value of the assets."



40. The depreciation has been worked out considering the admitted capital expenditure as on 31.3.2014 and accumulated depreciation up to 31.3.2014. The detailed calculations for depreciation for the transmission asset are worked out and allowed as follows:-

(₹ in lakh)					
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Depreciation					
Opening Gross Block	28415.41	28415.41	28415.41	28415.41	28415.41
Additional Capitalisation	0.00	0.00	0.00	0.00	0.00
Closing Gross Block	28415.41	28415.41	28415.41	28415.41	28415.41
Average Gross Block	28415.41	28415.41	28415.41	28415.41	28415.41
Rate of Depreciation (%)	5.29	5.29	5.29	5.29	5.29
Depreciable Value	25573.87	25573.87	25573.87	25573.87	25573.87
Balance useful life of the asset	26.00	25.00	24.00	23.00	22.00
Elapsed life	7.00	8.00	9.00	10.00	11.00
Remaining Depreciable Value	14772.48	13270.32	11768.16	10266.00	8763.84
Depreciation during the year	1502.16	1502.16	1502.16	1502.16	1502.16
Cumulative depreciation	12303.55	13805.71	15307.87	16810.03	18312.18

Operation & Maintenance Expenses ('O&M Expenses')

41. Clause 3(a) of Regulation 29 of the 2014 Tariff Regulations specify the norms for O&M Expenses for the transmission system. The total allowable O&M Expenses for the instant assets have been worked out and allowed are as follows:-

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
400KV:					
No. of Bays	11	11	11	11	11
Norms (₹ lakh/Bay)	60.3	62.3	64.37	66.51	68.71
Line: D/C Twin/Triple Conductor					
Line Length (km)	277.364	277.364	277.364	277.364	277.364
Norms (₹ lakh/km)	0.707	0.731	0.755	0.78	0.806
Total O&M Expenses (₹ lakh)	859.40	888.05	917.48	947.95	979.37



42. The petitioner has further submitted that the wage revision of the employees of the petitioner company is due during 2014-19 and actual impact of wage hike which will be effective from a future date has also not been factored in fixation of the normative O&M rate specified for the 2014-19 tariff period. The petitioner has also prayed that it will approach the Commission for suitable revision in the norms of O&M Expenses for claiming the impact of such increase. We would like to clarify that any application filed by the petitioner for revision of O&M Expenses on account of wage revision will be dealt with in accordance with the appropriate provisions of the 2014 Tariff Regulations. The O&M Expenses are allowed for the instant transmission asset as per prevailing norms.

Interest on Working Capital ('IWC')

43. Clause 1 (c) of Regulation 28 and Clause 5 of Regulation 3 of the 2014 Tariff Regulations specifies as follows:

“28. Interest on Working Capital

- (c) (i) Receivables equivalent to two months of fixed cost;
- (ii) Maintenance spares @ 15% of operation and maintenance expenses specified in regulation 29; and
- (iii) Operation and maintenance expenses for one month”

“(5) ‘Bank Rate’ means the base rate of interest as specified by the State Bank of India from time to time or any replacement thereof for the time being in effect plus 350 basis points;”

44. The petitioner has submitted that it has computed interest on working capital for the tariff block 2014-19 considering the SBI Base Rate plus 350 basis points as on 1.4.2014. The rate of interest on working capital considered is 13.50%.



45. The interest on working capital is worked out in accordance with Regulation 28 of the 2014 Tariff Regulations. The rate of interest on working capital considered is 13.50% (SBI Base Rate of 10% plus 350 basis points). The components of the working capital and interest thereon have been worked as follows:-

(₹ in lakh)					
Interest on Working Capital	2014-15	2015-16	2016-17	2017-18	2018-19
O & M expenses	71.59	73.97	76.43	78.96	81.58
Maintenance Spares	128.91	133.21	137.62	142.19	146.90
Receivables	772.93	759.50	746.33	733.75	722.74
Total	973.42	966.68	960.38	954.91	951.23
Rate of Interest (%)	13.50	13.50	13.50	13.50	13.50
Interest on Working Capital	131.41	130.50	129.65	128.91	128.42

ANNUAL FIXED CHARGES FOR THE 2014-19 TARIFF PERIOD

46. The transmission charges allowed for the instant transmission assets for the 2014-19 tariff period are summarised below:-

(₹ in lakh)					
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Depreciation					
Opening Gross Block	28415.41	28415.41	28415.41	28415.41	28415.41
Additional Capitalization	0.00	0.00	0.00	0.00	0.00
Closing Gross Block	28415.41	28415.41	28415.41	28415.41	28415.41
Average Gross Block	28415.41	28415.41	28415.41	28415.41	28415.41
Rate of Depreciation (%)	5.29	5.29	5.29	5.29	5.29
Depreciable Value	25573.87	25573.87	25573.87	25573.87	25573.87
Balance useful life of the asset	26	25	24	23	22
Elapsed life	7	8	9	10	11
Remaining Depreciable Value	14772.48	13270.32	11768.16	10266.00	8763.84
Depreciation during the year	1502.16	1502.16	1502.16	1502.16	1502.16
Cumulative depreciation (incl. of AAD)	12303.55	13805.71	15307.87	16810.03	18312.18
Interest on Loan					
Gross Normative Loan	21054.91	21054.91	21054.91	21054.91	21054.91



Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Cumulative Repayments upto Previous Year	10801.39	12303.55	13805.71	15307.87	16810.03
Net Loan-Opening	10253.52	8751.36	7249.20	5747.04	4244.88
Additions	0.00	0.00	0.00	0.00	0.00
Repayment during the year	1502.16	1502.16	1502.16	1502.16	1502.16
Net Loan-Closing	8751.36	7249.20	5747.04	4244.88	2742.72
Average Loan	9502.44	8000.28	6498.12	4995.96	3493.80
Weighted Average Rate of Interest on Loan (%)	7.3788	7.4103	7.4679	7.6069	8.1020
Interest on Loan	701.17	592.85	485.27	380.04	283.07
Return on Equity					
Opening Equity	7360.50	7360.50	7360.50	7360.50	7360.50
Additions	0.00	0.00	0.00	0.00	0.00
Closing Equity	7360.50	7360.50	7360.50	7360.50	7360.50
Average Equity	7360.50	7360.50	7360.50	7360.50	7360.50
Return on Equity (Base Rate) (%)	15.500	15.500	15.500	15.500	15.500
MAT Rate for respective year (%)	20.961	20.961	20.961	20.961	20.961
Rate of Return on Equity (%)	19.610	19.610	19.610	19.610	19.610
Return on Equity	1443.43	1443.43	1443.43	1443.43	1443.43
Interest on Working Capital					
O & M Expenses	71.59	73.97	76.43	78.96	81.58
Maintenance Spares	128.91	133.21	137.62	142.19	146.90
Receivables	772.93	759.50	746.33	733.75	722.74
Total Working Capital	973.42	966.68	960.38	954.91	951.23
Rate of Interest (%)	13.50	13.50	13.50	13.50	13.50
Interest of working capital	131.41	130.50	129.65	128.91	128.42
Annual Transmission Charges					
Depreciation	1502.16	1502.16	1502.16	1502.16	1502.16
Interest on Loan	701.17	592.85	485.27	380.04	283.07
Return on Equity	1443.43	1443.43	1443.43	1443.43	1443.43
Interest on Working Capital	131.41	130.50	129.65	128.91	128.42
O & M Expenses	859.40	888.05	917.48	947.95	979.37
Total	4637.56	4556.99	4477.99	4402.49	4336.44



Deferred Tax Liability

47. The petitioner has sought recovery of deferred tax liability before 1.4.2009 from the beneficiaries or long term consumers/ DICs as and when materialized. The deferred tax liability shall be dealt as per Regulations 49 of the 2014 Tariff Regulations, as amended. Accordingly, the petitioner is entitled to recover the deferred tax liability upto 31.3.2009 whenever the same gets materialized directly from the beneficiaries or long term transmission customers /DICs.

Filing Fee and the Publication Expenses

48. The petitioner has sought reimbursement of fee paid by it for filing the petition and publication expenses. The petitioner shall be entitled for reimbursement of the filing fees and publication expenses in connection with the present petition, directly from the beneficiaries on pro-rata basis in accordance with Regulation 52 (1) of the 2014 Tariff Regulations.

Licence Fee & RLDC Fees and Charges

49. The petitioner shall be entitled for reimbursement of licence fee in accordance with Regulation 52 (2) (b) of the 2014 Tariff Regulations for 2014-19 tariff period. The petitioner shall also be entitled for recovery of RLDC fee & charges in accordance with Regulations 52 (2) (a) of the 2014 Tariff Regulations for 2014-19 tariff period.



Service Tax

50. The petitioner has prayed for reimbursement of service tax if it is subjected to such tax in future. We are of the view that the petitioner's prayer is premature.

Sharing of Transmission Charges

51. The billing, collection and disbursement of the transmission charges approved shall be governed by the provisions of Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2010, as amended from time to time as provided in Regulation 43 of the 2014 Tariff Regulations.

52. This order disposes of Petition No. 435/TT/2014.

(Dr. M.K. Iyer)

Member

(A.S. Bakshi)

Member



Annexure – 1

(₹in lakh)

Particulars	2009-10	2010-11	2011-12	2012-13	2013-14
BOND-XIII-OPTION -I-01-MAY-2006					
Gross Opening Loan	876.00	876.00	876.00	876.00	876.00
Cumulative Repayments of Loans upto Previous Year	219.00	292.00	365.00	438.00	511.00
Net Loans Opening	657.00	584.00	511.00	438.00	365.00
Add: Draw(s) during the Year	0.00	0.00	0.00	0.00	0.00
Less: Repayments of Loan during the year	73.00	73.00	73.00	73.00	73.00
Net Closing Loan	584.00	511.00	438.00	365.00	292.00
Average Net Loan	620.50	547.50	474.50	401.50	328.50
Rate of Interest on Loan (%)	8.63	8.63	8.63	8.63	8.63
Interest on Loan	53.55	47.25	40.95	34.65	28.35
BOND XIII-OPTION-I-DOCO-01-OCT-2005-					
Gross Opening Loan	873.00	873.00	873.00	873.00	873.00
Cumulative Repayments of Loans upto Previous Year	218.25	291.00	363.75	436.50	509.25
Net Loans Opening	654.75	582.00	509.25	436.50	363.75
Add: Draw(s) during the Year	0.00	0.00	0.00	0.00	0.00
Less: Repayments of Loan during the year	72.75	72.75	72.75	72.75	72.75
Net Closing Loan	582.00	509.25	436.50	363.75	291.00
Average Net Loan	618.38	545.63	472.88	400.13	327.38
Rate of Interest on Loan (%)	8.63	8.63	8.63	8.63	8.63
Interest on Loan	53.37	47.09	40.81	34.53	28.25
BOND XV-DOCO-01-MAY-2006-					
Gross Opening Loan	4757.00	4757.00	4757.00	4757.00	4757.00
Cumulative Repayments of Loans upto Previous Year	792.83	1189.25	1585.67	1982.09	2378.51
Net Loans Opening	3964.17	3567.75	3171.33	2774.91	2378.49
Add: Draw(s) during the Year	0.00	0.00	0.00	0.00	0.00
Less: Repayments of Loan during the year	396.42	396.42	396.42	396.42	396.42
Net Closing Loan	3567.75	3171.33	2774.91	2378.49	1982.07
Average Net Loan	3765.96	3369.54	2973.12	2576.70	2180.28
Rate of Interest on Loan (%)	6.68	6.68	6.68	6.68	6.68
Interest on Loan	251.57	225.09	198.60	172.12	145.64
BOND XV-DOCO-01-OCT-2005-					
Gross Opening Loan	4943.00	4943.00	4943.00	4943.00	4943.00
Cumulative Repayments of Loans upto Previous Year	823.83	1235.75	1647.67	2059.59	2471.51



Particulars	2009-10	2010-11	2011-12	2012-13	2013-14
Net Loans Opening	4119.17	3707.25	3295.33	2883.41	2471.49
Add: Draw(s) during the Year	0.00	0.00	0.00	0.00	0.00
Less: Repayments of Loan during the year	411.92	411.92	411.92	411.92	411.92
Net Closing Loan	3707.25	3295.33	2883.41	2471.49	2059.57
Average Net Loan	3913.21	3501.29	3089.37	2677.45	2265.53
Rate of Interest on Loan (%)	6.68	6.68	6.68	6.68	6.68
Interest on Loan	261.40	233.89	206.37	178.85	151.34
BOND XVI-DOCO-01-MAY-2006					
Gross Opening Loan	2757.00	2757.00	2757.00	2757.00	2757.00
Cumulative Repayments of Loans upto Previous Year	275.70	551.40	827.10	1102.80	1378.50
Net Loans Opening	2481.30	2205.60	1929.90	1654.20	1378.50
Add: Draw(s) during the Year	0.00	0.00	0.00	0.00	0.00
Less: Repayments of Loan during the year	275.70	275.70	275.70	275.70	275.70
Net Closing Loan	2205.60	1929.90	1654.20	1378.50	1102.80
Average Net Loan	2343.45	2067.75	1792.05	1516.35	1240.65
Rate of Interest on Loan (%)	7.10	7.10	7.10	7.10	7.10
Interest on Loan	166.38	146.81	127.24	107.66	88.09
BOND XVI-DOCO-01-OCT-2005					
Gross Opening Loan	2749.00	2749.00	2749.00	2749.00	2749.00
Cumulative Repayments of Loans upto Previous Year	274.90	549.80	824.70	1099.60	1374.50
Net Loans Opening	2474.10	2199.20	1924.30	1649.40	1374.50
Add: Draw(s) during the Year	0.00	0.00	0.00	0.00	0.00
Less: Repayments of Loan during the year	274.90	274.90	274.90	274.90	274.90
Net Closing Loan	2199.20	1924.30	1649.40	1374.50	1099.60
Average Net Loan	2336.65	2061.75	1786.85	1511.95	1237.05
Rate of Interest on Loan (%)	7.10	7.10	7.10	7.10	7.10
Interest on Loan	165.90	146.38	126.87	107.35	87.83
BOND XVII-DOCO-01-MAY-2006-					
Gross Opening Loan	960.00	960.00	960.00	960.00	960.00
Cumulative Repayments of Loans upto Previous Year	0.00	96.00	192.00	288.00	384.00
Net Loans Opening	960.00	864.00	768.00	672.00	576.00
Add: Draw(s) during the Year	0.00	0.00	0.00	0.00	0.00
Less: Repayments of Loan during the year	96.00	96.00	96.00	96.00	96.00
Net Closing Loan	864.00	768.00	672.00	576.00	480.00
Average Net Loan	912.00	816.00	720.00	624.00	528.00
Rate of Interest on Loan (%)	7.39	7.39	7.39	7.39	7.39
Interest on Loan	67.40	60.30	53.21	46.11	39.02



Particulars	2009-10	2010-11	2011-12	2012-13	2013-14
BOND XVIII-DOCO-01-MAY-2006-					
Gross Opening Loan	1600.00	1600.00	1600.00	1600.00	1600.00
Cumulative Repayments of Loans upto Previous Year	0.00	133.33	266.66	399.99	533.32
Net Loans Opening	1600.00	1466.67	1333.34	1200.01	1066.68
Add: Draw(s) during the Year	0.00	0.00	0.00	0.00	0.00
Less: Repayments of Loan during the year	133.33	133.33	133.33	133.33	133.33
Net Closing Loan	1466.67	1333.34	1200.01	1066.68	933.35
Average Net Loan	1533.34	1400.01	1266.68	1133.35	1000.02
Rate of Interest on Loan (%)	8.15	8.15	8.15	8.15	8.15
Interest on Loan	124.97	114.10	103.23	92.37	81.50
BOND XXIV-ADDCAP FOR 2006-2007-26-MAR-2007-					
Gross Opening Loan	1100.00	1100.00	1100.00	1100.00	1100.00
Cumulative Repayments of Loans upto Previous Year	0.00	0.00	91.67	183.34	275.01
Net Loans Opening	1100.00	1100.00	1008.33	916.66	824.99
Add: Draw(s) during the Year	0.00	0.00	0.00	0.00	0.00
Less: Repayments of Loan during the year	0.00	91.67	91.67	91.67	91.67
Net Closing Loan	1100.00	1008.33	916.66	824.99	733.32
Average Net Loan	1100.00	1054.17	962.50	870.83	779.16
Rate of Interest on Loan (%)	9.95	9.95	9.95	9.95	9.95
Interest on Loan	109.45	104.89	95.77	86.65	77.53
Summary					
Gross Opening Loan	20615.00	20615.00	20615.00	20615.00	20615.00
Cumulative Repayments of Loans upto Previous Year	2604.51	4338.53	6164.22	7989.91	9815.60
Net Loans Opening	18010.49	16276.47	14450.78	12625.09	10799.40
Add: Draw(s) during the Year	0.00	0.00	0.00	0.00	0.00
Less: Repayments of Loan during the year	1734.02	1825.69	1825.69	1825.69	1825.69
Net Closing Loan	16276.47	14450.78	12625.09	10799.40	8973.71
Average Net Loan	17143.48	15363.63	13537.94	11712.25	9886.56
Rate of Interest on Loan (%)	7.3146	7.3277	7.3353	7.3453	7.3589
Interest on Loan	1253.98	1125.79	993.04	860.30	727.55



Annexure – 2

(₹ in lakh)

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
BOND-XIII-OPTION -I-01-MAY-2006					
Gross Opening Loan	876.00	876.00	876.00	876.00	876.00
Cumulative Repayments of Loans upto Previous Year	584.00	657.00	730.00	803.00	876.00
Net Loans Opening	292.00	219.00	146.00	73.00	0.00
Add: Draw(s) during the Year	0.00	0.00	0.00	0.00	0.00
Less: Repayments of Loan during the year	73.00	73.00	73.00	73.00	0.00
Net Closing Loan	219.00	146.00	73.00	0.00	0.00
Average Net Loan	255.50	182.50	109.50	36.50	0.00
Rate of Interest on Loan (%)	8.63	8.63	8.63	8.63	8.63
Interest on Loan	22.05	15.75	9.45	3.15	0.00
BOND XIII-OPTION-I-DOCO-01-OCT-2005-					
Gross Opening Loan	873.00	873.00	873.00	873.00	873.00
Cumulative Repayments of Loans upto Previous Year	582.00	654.75	727.50	800.25	873.00
Net Loans Opening	291.00	218.25	145.50	72.75	0.00
Add: Draw(s) during the Year	0.00	0.00	0.00	0.00	0.00
Less: Repayments of Loan during the year	72.75	72.75	72.75	72.75	0.00
Net Closing Loan	218.25	145.50	72.75	0.00	0.00
Average Net Loan	254.63	181.88	109.13	36.38	0.00
Rate of Interest on Loan (%)	8.63	8.63	8.63	8.63	8.63
Interest on Loan	21.97	15.70	9.42	3.14	0.00
BOND XV-DOCO-01-MAY-2006-					
Gross Opening Loan	4757.00	4757.00	4757.00	4757.00	4757.00
Cumulative Repayments of Loans upto Previous Year	2774.93	3171.35	3567.77	3964.19	4360.61
Net Loans Opening	1982.07	1585.65	1189.23	792.81	396.39
Add: Draw(s) during the Year	0.00	0.00	0.00	0.00	0.00
Less: Repayments of Loan during the year	396.42	396.42	396.42	396.42	396.39
Net Closing Loan	1585.65	1189.23	792.81	396.39	0.00
Average Net Loan	1783.86	1387.44	991.02	594.60	198.18
Rate of Interest on Loan (%)	6.68	6.68	6.68	6.68	6.68
Interest on Loan	119.16	92.68	66.20	39.72	13.24
BOND XV-DOCO-01-OCT-2005-					
Gross Opening Loan	4943.00	4943.00	4943.00	4943.00	4943.00



Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Cumulative Repayments of Loans upto Previous Year	2883.43	3295.35	3707.27	4119.19	4531.11
Net Loans Opening	2059.57	1647.65	1235.73	823.81	411.89
Add: Draw(s) during the Year	0.00	0.00	0.00	0.00	0.00
Less: Repayments of Loan during the year	411.92	411.92	411.92	411.92	411.89
Net Closing Loan	1647.65	1235.73	823.81	411.89	0.00
Average Net Loan	1853.61	1441.69	1029.77	617.85	205.93
Rate of Interest on Loan (%)	6.68	6.68	6.68	6.68	6.68
Interest on Loan	123.82	96.30	68.79	41.27	13.76
BOND XVI-DOCO-01-MAY-2006					
Gross Opening Loan	2757.00	2757.00	2757.00	2757.00	2757.00
Cumulative Repayments of Loans upto Previous Year	1654.20	1929.90	2205.60	2481.30	2757.00
Net Loans Opening	1102.80	827.10	551.40	275.70	0.00
Add: Draw(s) during the Year	0.00	0.00	0.00	0.00	0.00
Less: Repayments of Loan during the year	275.70	275.70	275.70	275.70	0.00
Net Closing Loan	827.10	551.40	275.70	0.00	0.00
Average Net Loan	964.95	689.25	413.55	137.85	0.00
Rate of Interest on Loan (%)	7.10	7.10	7.10	7.10	7.10
Interest on Loan	68.51	48.94	29.36	9.79	0.00
BOND XVI-DOCO-01-OCT-2005					
Gross Opening Loan	2749.00	2749.00	2749.00	2749.00	2749.00
Cumulative Repayments of Loans upto Previous Year	1649.40	1924.30	2199.20	2474.10	2749.00
Net Loans Opening	1099.60	824.70	549.80	274.90	0.00
Add: Draw(s) during the Year	0.00	0.00	0.00	0.00	0.00
Less: Repayments of Loan during the year	274.90	274.90	274.90	274.90	0.00
Net Closing Loan	824.70	549.80	274.90	0.00	0.00
Average Net Loan	962.15	687.25	412.35	137.45	0.00
Rate of Interest on Loan (%)	7.10	7.10	7.10	7.10	7.10
Interest on Loan	68.31	48.79	29.28	9.76	0.00
BOND XVII-DOCO-01-MAY-2006-					
Gross Opening Loan	960.00	960.00	960.00	960.00	960.00
Cumulative Repayments of Loans upto Previous Year	480.00	576.00	672.00	768.00	864.00
Net Loans Opening	480.00	384.00	288.00	192.00	96.00
Add: Draw(s) during the Year	0.00	0.00	0.00	0.00	0.00
Less: Repayments of Loan during the year	96.00	96.00	96.00	96.00	96.00



Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Net Closing Loan	384.00	288.00	192.00	96.00	0.00
Average Net Loan	432.00	336.00	240.00	144.00	48.00
Rate of Interest on Loan (%)	7.39	7.39	7.39	7.39	7.39
Interest on Loan	31.92	24.83	17.74	10.64	3.55
BOND XVIII-DOCO-01-MAY-2006-					
Gross Opening Loan	1600.00	1600.00	1600.00	1600.00	1600.00
Cumulative Repayments of Loans upto Previous Year	666.65	799.98	933.31	1066.64	1199.97
Net Loans Opening	933.35	800.02	666.69	533.36	400.03
Add: Draw(s) during the Year	0.00	0.00	0.00	0.00	0.00
Less: Repayments of Loan during the year	133.33	133.33	133.33	133.33	133.33
Net Closing Loan	800.02	666.69	533.36	400.03	266.70
Average Net Loan	866.69	733.36	600.03	466.70	333.37
Rate of Interest on Loan (%)	8.15	8.15	8.15	8.15	8.15
Interest on Loan	70.63	59.77	48.90	38.04	27.17
BOND XXIV-ADDCAP FOR 2006-2007-26-MAR-2007-					
Gross Opening Loan	1100.00	1100.00	1100.00	1100.00	1100.00
Cumulative Repayments of Loans upto Previous Year	366.68	458.35	550.02	641.69	733.36
Net Loans Opening	733.32	641.65	549.98	458.31	366.64
Add: Draw(s) during the Year	0.00	0.00	0.00	0.00	0.00
Less: Repayments of Loan during the year	91.67	91.67	91.67	91.67	91.67
Net Closing Loan	641.65	549.98	458.31	366.64	274.97
Average Net Loan	687.49	595.82	504.15	412.48	320.81
Rate of Interest on Loan (%)	9.95	9.95	9.95	9.95	9.95
Interest on Loan	68.40	59.28	50.16	41.04	31.92
Summary					
Gross Opening Loan	20615.00	20615.00	20615.00	20615.00	20615.00
Cumulative Repayments of Loans upto Previous Year	11641.29	13466.98	15292.67	17118.36	18944.05
Net Loans Opening	8973.71	7148.02	5322.33	3496.64	1670.95
Add: Draw(s) during the Year	0.00	0.00	0.00	0.00	0.00
Less: Repayments of Loan during the year	1825.69	1825.69	1825.69	1825.69	1129.34
Net Closing Loan	7148.02	5322.33	3496.64	1670.95	541.61
Average Net Loan	8060.87	6235.18	4409.49	2583.80	1106.28
Rate of Interest on Loan (%)	7.3788	7.4103	7.4679	7.6069	8.1020
Interest on Loan	594.80	462.05	329.30	196.55	89.63

