CENTRAL ELECTRICITY REGULATORY COMMISSION NEW DELHI

PETITION NO.73/TT/2015

Coram:

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

Date of Hearing: 03.02.2016 Date of Order: 23.02.2016

In the Matter of:

Truing up of transmission tariff for 2009-14 tariff block under Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2009 and determination of transmission tariff for 2014-19 tariff block under Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014 for Asset-1: 400/220 kV, 315 MVA ICT-II at Samba Sub-Station along with associated bays and three nos. 220 kV line bays and Asset-2:One no.400 kV, 80 MVAR Bus Reactor at Samba Sub-station along with associated bays under "Northern Region System Strengthening Scheme-XXII (NRSS-XXII) in Northern Region" under Regulation 86 of Central Electricity Regulatory Commission (Conduct of Business) Regulations, 1999.

And in the Matter of:

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

.....Petitioner

Versus

- Rajasthan Rajya Vidyut Prasaran Nigam Ltd., Vidyut Bhawan, Vidyut Marg, Jaipur - 302 005.
- Ajmer Vidyut Vitran Nigam Ltd.,
 400 kV GSS Building (Ground Floor), Ajmer Road,
 Heerapura, Jaipur.
- Jaipur Vidyut Vitran Nigam Ltd.,
 400 kV GSS Building (Ground Floor), Ajmer Road,
 Heerapura, Jaipur.



- Jodhpur Vidyut Vitran Nigam Ltd.,
 400 kV GSS Building (Ground Floor), Ajmer Road,
 Heerapura, Jaipur
- Himachal Pradesh State Electricity Board,
 Vidyut Bhawan, Kumar House Complex Building II,
 Shimla 171 004.
- 6. Punjab State Electricity Board, The Mall, Patiala 147 001.
- 7. Haryana Power Purchase Centre, Shakti Bhawan, Sector - 6 Panchkula (Haryana) - 134 109
- 8. Power Development Department, Govt. of Jammu and Kashmir Mini Secretariat, Jammu.
- 9. Uttar Pradesh Power Corporation Ltd., Shakti Bhawan, 14, Ashok Marg, Lucknow - 226 001.
- 10. Delhi Transco Ltd., Shakti Sadan, Kotla Road, New Delhi - 110 002
- 11. BSES Yamuna Power Ltd., Shakti Kiran Building, Karkardooma, Delhi – 110 092.
- 12. BSES Rajdhani Power Ltd., BSES Bhawan, Nehru Place, New Delhi.
- 13. North Delhi Power Ltd., Power Trading & Load Dispatch Group, Cennet Building, Adjacent to 66/11kV Pitampura - , Grid Building, Near PP Jewellers, Pitampura, New Delhi - 110 034
- 14. Chandigarh Administration, Sector - 9, Chandigarh
- 15. Uttarakhand Power Corporation Ltd., Urja Bhawan, Kanwali Road, Dehradun



16. North Central Railway, Allahabad

17. New Delhi Municipal Council, Palika Kendra, Sansad Marg, New Delhi - 110 002

.....Respondents

The following were present:

For Petitioner: Shri Rakesh Prasad, PGCIL

Shri M.M. Mondal, PGCIL Shri S.S. Raju, PGCIL Shri S.C. Taneja, PGCIL

Smt. Sangeeta Edwards, PGCIL

For Respondents: Shri B.L.S harma, Advocate, Rajasthan Discoms

ORDER

The petition has been preferred by Power Grid Corporation of India Limited (hereinafter referred to as "the petitioner") 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 from the date of commercial operation 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 Asset-1: 400/220 kV, 315 MVA ICT-II at Samba Sub-Station along with associated bays and three nos. 220 kV line bays and Asset-2:One no.400 kV, 80 MVAR Bus Reactor at Samba Sub-station along with associated bays under "Northern Region System Strengthening Scheme-XXII (NRSS-XXII) in Northern Region" (hereinafter referred to as "the transmission asset").



- 2. The respondents are distribution licensees, who are procuring transmission service from the petitioner, mainly beneficiaries of Northern Region.
- 3. The brief facts of the case are as follows:
 - a) The administrative approval and expenditure sanction of the transmission project was accorded by the Board of Directors of the petitioner's company vide Memorandum No. C/CP/NRSS-XXII dated 15.12.2010 for ₹20978 lakh, including IDC of ₹1212 lakh based on 2nd quarter, 2010 price level. The transmission assets were put on commercial operation on 1.4.2013 within the schedule COD of 1.9.2013 as per investment approval.
 - b) The annual transmission charges for 2009-14 tariff periods for the transmission assets were determined vide order dated 31.10.2014 in Petition No. 100/TT/2013 based on admitted capital cost of ₹1187.14 lakh and ₹372.58 lakh for Asset-I and Asset-II as on COD, after deducting excess initial spares of ₹17.81 lakh and ₹15.64 lakh respectively and debt:equity of 70:30 as on COD for both Asset-I and Asset-II. The estimated additional capital expenditure approved was ₹418.81 lakh for Asset-I and ₹333.83 lakh for Asset-II towards balance and retention payments during 2013-14 for determination of tariff for 2009-14 tariff period.
 - c) The Commission noticed that there was cost variation because the awarded cost of the assets was above the estimated FR rates in sub-station items like control, replay & protection panel. Structure for switchyard, switchgear (CT, PT, circuit breaker and isolators) and auxiliary systems and the estimated

completion cost for asset-I was ₹1757.26 lakh which was less than the apportioned approved cost of ₹2280.89 lakh, and asset-II was ₹772.4 lakh, which was more than the apportioned approved cost of ₹734.05 lakh. The petitioner submitted that the entire scope of the project is completed and the total completion cost is within the total approved cost of ₹20978 lakh. The Commission found that the cost variation was not within the control of the petitioner and hence allowed the cost overrun.

d) The details of capital cost are as shown below:-

(₹ in lakh)

	Apportione d approved	Admitted cost as on	Allowed Additional capital expenditure during 2009-14		Cost as
Name of Assets	cost	COD	2013-14	Total	31.3.2014
Asset-I	2280.89	1187.14*	418.81	418.81	1605.95
Asset-II	734.05	372.58*	333.83	333.83	706.41

^{*}Capital cost after adjusting ₹17.81 lakh and ₹15.64 lakh disallowed against excess initial spares from Asset -1 and Asset-2 respectively.

e) The annual fixed charges were determined vide order dated 31.10.2014 in Petition No. 100/TT/2013 based the above capital cost and estimated additional capital expenditure for the transmission assets during 2009-14 as given below:-

(₹ in lakh)

	Asset -I	Asset -II
Particulars	2013-14	2013-14
Depreciation	73.74	28.49
Interest on Loan	85.64	33.07
Return on Equity	75.60	29.20
Interest on Working Capital	18.71	5.58
O & M Expenses	248.74	65.46
Total	502.43	161.80

4. As per Regulation 6 of the 2009 Tariff Regulations, 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 10.2.2015, 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. None of the respondents have filed the reply in the matter. The hearing in this matter was held on 3.2.2016. The Commission had directed petitioner to submit the details in respect of the actual equity infused during 2009-14 and 2014-19 tariff periods, period and un-discharged liabilities. The petitioner has filed its reply vide affidavit dated 23.2.2016.
- 6. Having heard the representatives of the parties and perused the material on record, we proceed to dispose of the petition.

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

- 7. 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".



8. 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

- 9. The petitioner has submitted that the actual capital cost as on COD is ₹1204.95 lakh and ₹388.22 lakh for Asset-I and Asset-II respectively, as certified vide Auditor's Certificates dated 1.12.2014. However, the petitioner had claimed capital cost of ₹1185.68 lakh as on COD after deducting excess initial spares of ₹19.27 lakh for Asset-I and ₹371.49 lakh as on COD after deducting excess initial spares of ₹16.73 lakh for Asset-II for the purpose of tariff determination.
- 10. 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".
- 11. The admissible capital cost of the transmission asset as on COD for the purpose of computation of tariff for 2009-14 tariff period is worked out in the subsequent paragraph after the treatment of initial spares.

Treatment of Initial Spares

12. The Commission in its previous order dated 31.10.2014 in Petition No. 100/TT/2013 had disallowed the excess initial spares of ₹17.81 lakh and ₹15.64 lakh pertaining to sub-station corresponding to the capital cost of ₹1623.76 lakh and ₹722.05 lakh as on 31.3.2014 for Asset-I and Asset-II respectively.



- 13. The petitioner has submitted that the actual initial spares pertaining to sub-station are ₹62.72 lakh corresponding to the capital cost of ₹1757.26 lakh as on the cut-off date of 31.3.2016 for Asset-I and ₹35.62 lakh corresponding to the capital cost of ₹772.04 lakh as on the cut-off date of 31.3.2016 for Asset-II as submitted vide Auditor's Certificates dated 1.12.2014 for both the assets. In the instant petition, the petitioner had claimed capital cost of ₹1185.68 lakh for Asset-I and ₹371.49 lakh for Asset-II as on COD after deducting excess initial spares of ₹19.27 lakh and ₹16.73 lakh respectively in respect of the transmission asset for the purpose of tariff determination. We have worked out the admissible initial spares by considering capital cost as per Auditor's Certificate in accordance with the 2009 Tariff Regulations.
- 14. Regulation 8 of the 2009 Tariff Regulations provide for ceiling norms for capitalization of initial spares in respect of sub-station at 2.50%. Accordingly, the initial spares have been allowed as under:-

(₹ in lakh)

Particulars	Logical Formula	Substation	
Faiticulais	•	Asset -I	Asset-II
Capital cost as on cut off date	(a)	1757.26	772.40
Capital Cost after deducting excess IDC	(b)	1757.26	772.40
Initial Spares as per Auditor`s Certificate	(c)	62.72	35.62
Proportionate Initial Spares claimed after deducting IDC	(d) = (c)/(a) *(b)	62.72	35.62
Ceiling limit as per Regulation 8 of 2009 regulations	(e)	2.50%	2.50%
Initial spares worked out	(f)= ((b- d)*e))/(100%-e)	43.45	18.89
Excess initial spares	(g)=(d)-(f)	19.27	16.73

15. Accordingly, the capital cost as on COD for tariff computation of 2009-14 tariff period is considered as below:-

(₹ in lakh)

Particulars	Asset-I	Asset-II
Capital cost as on COD	1204.95	388.22
Excess initial spares	19.27	16.73
Capital cost as on COD considered for tariff determination	1185.68	371.49

Additional Capital Expenditure

- 16. Regulation 6(1) 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"
- 17. The petitioner has submitted that it has actually incurred an additional capital expenditure of ₹209.68 lakh for Asset-1 and ₹199.69 lakh for Asset-2 during 2009-14 towards balance and retention payments for the works completed before the cut-off date, as depicted below:-

(₹ in lakh)

Name of	Apportioned approved		Capital cost as		al capital nditure	Capital cost as
Asset	cost		on COD	2013-14 Total		on 31.3.2014
	Asset-I 2280.89	Approved in Order dated 31.10.2014	1187.14	418.81	418.81	1605.95
Asset-I		Claimed by the petitioner	1185.68	209.68	209.68	1395.36
		Allowed in this Order	1185.68	209.68	209.68	
		Approved in Order dated 31.10.2014	372.58	333.83	333.83	706.41
Asset-II	734.05	Claimed by the petitioner	371.49	199.69	199.69	571.18
		Allowed in this Order	371.49	199.69	199.69	571.18

18. The petitioner has claimed the admissibility of additional capital expenditure before the cut-off date under Regulation 9(1)(i) of 2009 Tariff Regulations. We have



considered the submissions of the petitioner with regard to the actual capital expenditure during 2009-14. The above mentioned Additional capital expenditure is towards balance and retention payments and the same has been certified by the Auditor vide certificate dated 1.12.2014. Further, the total capital expenditure during 2009-14 is within the limits of the total approved capital expenditure and the total cost as on 31.3.2014 is within the approved cost of the project. Thus, the same is allowed for the purpose of revision of tariff in accordance with Regulation 9(1)(i) and Regulation 6 of the 2009 Tariff Regulations.

Debt: Equity

- 19. 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."
- 20. The debt:equity ratio admitted by the Commission vide order dated 31.10.2014 in Petition No. 100/TT/2014 as on COD was 70:30, for determination of tariff in accordance with the Regulation 12 of the 2009 Tariff Regulations. The petitioner was directed to confirm that actual equity corresponding to additional capital expenditure is not less than 30%. In response, the petitioner vide affidavit dated 23.2.2016, has submitted that the actual equity infusion during 2009-14 period is not less than 30%.



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

(₹ in lakh)

Funding	Capital cost as on COD	(%)	Additional capital expenditure during 2009-14	(%)	Total Cost as on 31.3.2014	(%)
			Asset -I			
Debt	830.00	70.00	146.78	70.00	976.78	70.00
Equity	355.68	30.00	62.90	30.00	418.58	30.00
Total	1185.68	100.00	209.68	100.00	1395.36	100.00
			Asset -II			
Debt	260.05	70.00	139.79	70.00	399.84	70.00
Equity	111.44	30.00	59.90	30.00	171.34	30.00
Total	371.49	100.00	199.69	100.00	571.18	100.00

Return on Equity ("ROE")

- 22. 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:

Rate of pre-tax return on equity = 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."



23. 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 (ROE) 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 (%)
2013-14	20.961	19.610

24. The ROE as trued up and allowed is as follows:-

(₹ in lakh)

	Asset-I	Asset-II
Return on Equity	2013-14	2013-14
Approved in Order dated 31.10.2014	75.60	29.20
Claimed by the petitioner	75.92	27.73
Allowed in this Order	75.92	27.73

The difference in the approved ROE and that allowed after truing up is on account of actual grossed up ROE based on actual MAT rate and increase due to actual additional capital expenditure.

Interest on Loan ("IoL")

- 25. 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".
- 26. The petitioner has submitted the weighted average rate of IoL, based on its actual loan portfolio and rate of interest. Accordingly, the IoL has been calculated based on actual interest rate submitted by the petitioner, in accordance with the Regulation 16 of



the 2009 Tariff Regulations The details of weighted average rate of interest are placed in Annexure-1. The IoL worked out is as follows:-

(₹ in lakh)

	Asset-I	Asset-II
Interest on Loan	2013-14	2013-14
Approved in Order dated 31.10.2014	85.64	33.07
Claimed by the petitioner	78.35	29.28
Allowed in this Order	78.35	29.28

The difference in the approved IoL and that allowed after truing up is on account of change in the weighted average rate of interest which is computed based on actual loan portfolio and rate of interest.

Depreciation

27. 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)

	Asset-I	Asset-II
Depreciation	2013-14	2013-14
Approved in Order dated 31.10.2014	73.74	28.49
Claimed by the petitioner	68.14	24.89
Allowed in this Order	68.14	24.89

The difference in the approved depreciation and that allowed after truing up is on account of change in gross block during the 2009-14 tariff period.

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

28. 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)

	Asset-I	Asset-II
O&M Expenses	2013-14	2013-14
Approved in Order dated 31.10.2014	248.74	65.46
Claimed by the petitioner	248.74	65.46
Allowed in this Order	248.74	65.46

Interest on Working Capital ("IWC")

29. The IWC has been worked out as per the methodology provided in the Regulation18 of the 2009 Tariff Regulations and allowed as under:-

(₹ in lakh)

	Asset-I	Asset-II
Interest on Working Capital	2013-14	2013-14
Approved in Order dated 31.10.2014	18.71	5.58
Claimed by the petitioner	18.43	5.38
Allowed in this Order	18.43	5.38

The difference in the approved IWC and that allowed after truing up is on account of change in the receivables during the 2009-14 tariff period.

APPROVED ANNUAL FIXED CHARGES FOR 2009-14 TARIFF PERIOD

30. 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:-

	Asset-I	Asset-II
Particulars	2013-14	2013-14
Depreciation		
Opening Gross Block	1185.68	371.49
Additional Capitalisation	209.68	199.69



	Asset-I	Asset-II
Particulars	2013-14	2013-14
Closing Gross Block	1395.36	571.18
Average Gross Block	1290.52	471.34
Rate of Depreciation (%)	5.28	5.28
Depreciable Value	1161.47	424.20
Balance Useful life of the asset	25	25
Elapsed Life	0	0
Remaining Depreciable Value	1161.47	424.20
Depreciation during the year	68.14	24.89
Cumulative depreciation (incl. of AAD)	68.14	24.89
Interest on Loan		
Gross Normative Loan	830.00	260.05
Cumulative Repayment upto Previous Year	0.00	0.00
Net Loan-Opening	830.00	260.05
Additions	146.78	139.79
Repayment during the year	68.14	24.89
Net Loan-Closing	908.64	374.95
Average Loan	869.32	317.50
Weighted Average Rate of Interest on		
Loan (%)	9.0125	9.2223
Interest on Loan	78.35	29.28
Return on Equity		
Opening Equity	355.68	111.44
Additions	62.90	59.90
Closing Equity	418.58	171.34
Average Equity	387.13	141.39
Return on Equity (Base Rate)(%)	15.500	15.500
MAT rate for the respective year (%)	20.961	20.961
Rate of Return on Equity (%)	19.610	19.610
Return on Equity	75.92	27.73
Interest on Working Capital		
O & M expenses	20.73	5.46
Maintenance Spares	37.31	9.82
Receivables	81.60	25.46
Total	139.64	40.73
Rate of Interest (%)	13.20	13.20
Interest on Working Capital	18.43	5.38
Annual Transmission Charges		
	<u> </u>	



	Asset-I	Asset-II
Particulars	2013-14	2013-14
Depreciation	68.14	24.89
Interest on Loan	78.35	29.28
Return on Equity	75.92	27.73
Interest on Working Capital	18.43	5.38
O & M Expenses	248.74	65.46
Total	489.58	152.73

DETERMINATION OF ANNUAL FIXED CHARGES FOR 2014-19 TARIFF PERIOD

31. For the determination of tariff for 2014-19 tariff period, the petitioner has combined both the Assets-I and Asset-II. The tariff charges claimed for 2014-19 tariff period as under:-

(₹ in lakh)

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Depreciation	112.18	126.1	131.67	131.67	131.67
Interest on Loan	120.92	126.83	121.8	109.84	97.92
Return on Equity	124.99	140.49	146.69	146.69	146.69
Interest on Working Capital	24.23	25.58	26.28	26.57	26.88
O & M Expenses	289.44	299.04	308.98	319.22	329.82
Total	671.76	718.04	735.42	733.99	732.98

Capital Cost

- 32. 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;"



33. The petitioner has combined Asset-I and Asset-II for claiming tariff during 2014-19 tariff period and accordingly the capital cost of combined assets is ₹1966.54 lakh as on 31.3.2014, as was worked out by the Commission and the same 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.

Name of Asset	Apportioned Approved Cost	Total cost as on 31.3.2014	
Asset-I	2280.89	1395.36	
Asset-II	734.05	571.18	
Total Cost of Combined Asset (I+II)	3014.94	1966.54	

Additional Capital Expenditure

- 34. Clause (3) of Regulation 14 of the 2014 Tariff Regulations provides as under:-
 - "(3) The capital expenditure, in respect of existing generating station or the transmission system including communication system, incurred or projected to be incurred on the following counts after the cut-off date, may be admitted by the Commission, subject to prudence check:
 - (i) Liabilities to meet award of arbitration or for compliance of the order or decree of a court of law:
 - (ii) Change in law or compliance of any existing law;
 - (iii) Any expenses to be incurred on account of need for higher security and safety of the plant as advised or directed by appropriate Government Agencies of statutory authorities responsible for national security/internal security;
 - (iv) Deferred works relating to ash pond or ash handling system in the original scope of work:
 - (v) Any liability for works executed prior to the cut-off date, after prudence check of the details of such undischarged liability, total estimated cost of package, reasons for such withholding of payment and release of such payments etc.;
 - (vi) Any liability for works admitted by the Commission after the cut-off date to the extent of discharge of such liabilities by actual payments:"
- 35. Clause 13 of Regulation 3 of the 2014 Tariff Regulations defines "cut-off" as follows:-
 - "Cut off Date" means 31st March of the year closing after two years of the year of commercial operation of whole or part of the project, and in case the whole or part of the project is declared under commercial operation in the last quarter of a year, the cut off



date shall be 31st March of the year closing after three years of the year of comm^{er}cial operation:"

36. The cut-off date for both Asset-I and Asset-II works out to be 31.3.2016. The petitioner has claimed additional capital expenditure for 2014-19 tariff period under Regulation 14(1)(i) of the 2014 Tariff Regulations as shown below:

(₹ in lakh)

Name of Asset	Apportione d approved	Capital cost as on	Additional capital expenditure			ost as on co		Capital cost as on
	cost	1.3.2014	2014-15	2015-16	Total	31.3.2019		
Asset-I	2280.89	1395.36	205.58	137.05	342.63	1737.99		
Asset- II	734.05	571.18	110.69	73.80	184.49	755.67		
Total	3014.94	1966.54	316.27	210.85	527.12	2493.66		

37. The completion cost of Asset-I as on 31.3.2019 is ₹1737.99 lakh, which is within the approved apportioned cost of ₹2280.89 lakh, however the completion cost of Asset-II as on 31.3.2019 i.e. ₹755.67 lakh exceeds the apportioned approved cost for the asset i.e. ₹734.05 lakh. The petitioner vide affidavit dated 4.2.2016 and 27.1.2016 has submitted the revised cost estimate (RCE) C/CP/RCE-NRSS-22 dated 18.1.2016 for the transmission system associated with NRSS-XXII project accorded by Board of Directors of POWERGRID with an estimated cost of ₹18988 lakh including IDC of ₹808 lakh. Accordingly the revised apportioned approved cost for Asset I and Asset-II as submitted by the petitioner is as tabulated below:-

Sr. No.	Asset Name	Revised Apportioned Approved Cost	Completion Cost	Petition No.
1	400kV D/C Kishenpur- Samba T/L along with bays at both ends, 01 no. 315 MVA, 400/220 kV ICT-I alongwith associated bays at Samba and 03 nos. 220kV line bays	16398.60	16099.10	35/TT/2013
2	400/220kV, 315MVA ICT-II at Samba s/s alongwith associated bays and 3 no. of 220kV line bays	1787.26	1757.26	73/TT/2015 (instant petition)
3	1 No. 400kV, 80 MVAR Bus Reactor at Samba S/s alongwith associated bays	802.40	772.40	73/TT/2015 (instant petition)
Total	•	18988.26	18628.76	

38. The petitioner has claimed the admissibility of additional capital expenditure before the cut-off date under Regulation 14(1)(i) of 2014 Tariff Regulations. We have considered the submissions of the petitioner with regard to the estimated capital expenditure during 2014-19. The above mentioned additional capital expenditure is towards balance and retention payments and the same has been certified by the Auditor vide certificates dated 1.12.2014 for both the assets. Further, the total capital cost for both the assets as on 31.3.2019 is within the revised approved apportioned cost of the project. Thus, the same is allowed for the purpose of revision of tariff in accordance with Regulation 14(1)(i) of the 2014 Tariff Regulations.

Name of Asset	Apportione d approved	Capital cost as on	Additional capital expenditure			Capital cost as on
	cost	1.3.2014	2014-15	2015-16	Total	31.3.2019
Asset-I	1787.36	1395.36	205.58	137.05	342.63	1737.99
Asset- II	802.40	571.18	110.69	73.8	184.49	755.67
Total	2589.76	1966.54	316.27	210.85	527.12	2493.66



Debt: Equity

- 39. 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 maybe 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."
- 40. The normative debt:equity ratio has been considered to work out the tariff in accordance with the 2014 Tariff Regulations as given below:-

(₹ in lakh)

Funding	Capital cost as on 31.3.2014	(%)	Additional capital expenditure during 2014-19	(%)	Total Cost as on 31.3.2019	(%)
Debt	1376.62	70.00	368.99	70.00	1745.71	70.00
Equity	589.92	30.00	158.13	30.00	748.05	30.00
Total	1966.54	100.00	527.12	100.00	2493.66	100.00

Return on Equity ("ROE")

- 41. 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."

42. 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	589.92	684.80	748.05	748.05	748.05
Additions	94.88	63.25	-	-	1
Closing Equity	684.80	748.05	748.05	748.05	748.05
Average Equity	637.36	716.43	748.05	748.05	748.05
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	124.99	140.49	146.70	146.70	146.70

Interest on Loan ("IoL")

- 43. 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."
- 44. 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. 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	1376.62	1598.01	1745.61	1745.61	1745.61
Cumulative Repayment upto Previous Year	93.03	205.21	331.31	462.98	594.64
Net Loan-Opening	1283.59	1392.80	1414.30	1282.63	1150.97
Additions	221.39	147.60	0.00	0.00	0.00
Repayment during the year	112.18	126.10	131.67	131.67	131.67
Net Loan-Closing	1392.80	1414.30	1282.63	1150.97	1019.30
Average Loan	1338.19	1403.55	1348.46	1216.80	1085.13
Weighted Average Rate of Interest on Loan (%)	9.0362	9.0361	9.0322	9.0268	9.0234
Interest on Loan	120.92	126.83	121.80	109.84	97.92

Depreciation

45. Clause (2), (5) and (6) of Regulation 27 of the 2014 Tariff Regulations provide as follows:-



"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."
- 46. The depreciation has been worked out considering the admitted capital expenditure as on 31.3.2014 and accumulated depreciation up to 31.3.2014. depreciation up to 2014-19 tariff period has been calculated annually based on Straight Line Method and at rates specified in Appendix-II of the 2014 Tariff Regulations. The detailed calculations for depreciation for the transmission asset are worked out and allowed as follows:-

Depreciation	2014-15	2015-16	2016-17	2017-18	2018-19
Opening Gross Block	1966.54	2282.81	2493.66	2493.66	2493.66
Additional Capitalisation	316.27	210.85	0.00	0.00	0.00
Closing Gross Block	2282.81	2493.66	2493.66	2493.66	2493.66
Average Gross Block	2124.68	2388.24	2493.66	2493.66	2493.66
Rate of Depreciation	5.28	5.28	5.28	5.28	5.28
Depreciable Value	1912.21	2291.73	2339.18	2244.29	2244.29
Balance Useful life of the asset	24.00	23.00	22.00	21.00	20.00
Elapsed Life	1.00	2.00	3.00	4.00	5.00
Remaining Depreciable Value	1819.18	1944.20	1912.98	1781.32	1649.65
Depreciation during the year	112.18	126.10	131.67	131.67	131.67
Cumulative depreciation (incl. of AAD)	205.21	331.31	462.98	594.64	726.31



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

47. Clause 3(a) of Regulation 29 of the 2014 Tariff Regulations specifies 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			
220 kV Bays:								
No. of Bays	4	4	4	4	4			
Norms (₹ lakh/Bay)	42.21	43.61	45.06	46.55	48.10			
		400 kV Ba	ys:					
No. of Bays	2	2	2	2	2			
Norms (₹ lakh/Bay)	60.30	62.30	64.37	66.51	68.71			
Total O&M Expenses (₹ lakh)	289.44	299.04	308.98	319.22	329.82			

48. 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)

49. 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;"
- 50. 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%.
- 51. 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	24.12	24.92	25.75	26.60	27.49
Maintenance Spares	43.42	44.86	46.35	47.88	49.47
Receivables	111.96	119.67	122.57	122.33	122.16
Total	179.50	189.45	194.67	196.82	199.12
Rate of Interest (%)	13.50	13.50	13.50	13.50	13.50
Interest	24.23	25.58	26.28	26.57	26.88

ANNUAL FIXED CHARGES FOR THE 2014-19 TARIFF PERIOD

52. 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	1966.54	2282.81	2493.66	2493.66	2493.66
Additional Capitalisation	316.27	210.85	0.00	0.00	0.00
Closing Gross Block	2282.81	2493.66	2493.66	2493.66	2493.66
Average Gross Block	2124.68	2388.24	2493.66	2493.66	2493.66
Rate of Depreciation (%)	5.28	5.28	5.28	5.28	5.28
Depreciable Value	1912.21	2291.73	2339.18	2244.29	2244.29
Balance Useful life of the asset	24.00	23.00	22.00	21.00	20.00
Elapsed Life	1.00	2.00	3.00	4.00	5.00
Remaining Depreciable Value	1819.18	1944.20	1912.98	1781.32	1649.65
Depreciation during the year	112.18	126.10	131.67	131.67	131.67
Cumulative depreciation (incl. of AAD)	205.21	331.31	462.98	594.64	726.31
Interest on Loan					
Gross Normative Loan	1376.62	1598.01	1745.61	1745.61	1745.61
Cumulative Repayment upto Previous Year	93.03	205.21	331.31	462.98	594.64
Net Loan-Opening	1283.59	1392.80	1414.30	1282.63	1150.97
Additions	221.39	147.60	0.00	0.00	0.00
Repayment during the year	112.18	126.10	131.67	131.67	131.67
Net Loan-Closing	1392.80	1414.30	1282.63	1150.97	1019.30
Average Loan	1338.19	1403.55	1348.46	1216.80	1085.13
Weighted Average Rate of Interest on Loan (%)	9.0362	9.0361	9.0322	9.0268	9.0234
Interest on Loan	120.92	126.83	121.80	109.84	97.91
Return on Equity					
Opening Equity	589.92	684.80	748.05	748.05	748.05
Additions	94.88	63.25	0.00	0.00	0.00
Closing Equity	684.80	748.05	748.05	748.05	748.05
Average Equity	637.36	716.43	748.05	748.05	748.05
Return on Equity (Base Rate) (%)	15.500	15.500	15.500	15.500	15.500
MAT rate for the 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	124.99	140.49	146.70	146.70	146.70



Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Interest on Working Capital					
O & M expenses	24.12	24.92	25.75	26.60	27.49
Maintenance Spares	43.42	44.86	46.35	47.88	49.47
Receivables	111.96	119.67	122.57	122.33	122.16
Total	179.50	189.45	194.67	196.82	199.12
Rate of Interest(%)	13.50	13.50	13.50	13.50	13.50
Interest on Working Capital	24.23	25.58	26.28	26.57	26.88
Annual Transmission Charges					
Depreciation	112.18	126.10	131.67	131.67	131.67
Interest on Loan	120.92	126.83	121.80	109.84	97.92
Return on Equity	124.99	140.49	146.70	146.70	146.70
Interest on Working Capital	24.23	25.58	26.28	26.57	26.88
O & M Expenses	289.44	299.04	308.98	319.22	329.82
Total	671.77	718.03	735.42	733.99	732.98

53. 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. However, the COD of the asset is after 2009, hence the claim of the petitioner is not maintainable.

Filing Fee and the Publication Expenses

54. 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

55. 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

56. 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

- 57. 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.
- 58. This order disposes of Petition No.73/TT/2015.

(Dr. M.K. Iyer) Member (A.S. Bakshi) Member



DETAILS OF LOAN BASED ON ACTUAL LOAN PORTFOLIO (2009-14)

Asset-1						
Particulars	Interest Rate (%)	Loan deployed as on COD	Additions during the tariff period	Total		
BOND-XXXIV-DOCO-	8.84	20.00	0.00	20.00		
BOND XXXVI-DOCO-	9.35	9.00	0.00	9.00		
BOND XXXVII-DOCO-	9.25	54.00	0.00	54.00		
BOND XL-DOCO-	9.30	431.00	0.00	431.00		
BOND - XLI-DOCO-	8.85	206.00	0.00	206.00		
BOND - XLII-DOCO-	8.80	110.00	0.00	110.00		
BOND - XLIII-ADDCAP FOR 2013-2014 DOCO-	7.93	0.00	146.78	146.78		
Total		830.00	146.78	976.78		

Asset-2					
Particulars	Interest Rate (%)	Loan deployed as on COD	Additions during the tariff period	Total	
BOND-XXXIV-DOCO-	8.84	10.00	0.00	10.00	
BOND XXXVII-DOCO-	9.25	20.00	0.00	20.00	
BOND XL-DOCO-	9.30	140.00	0.00	140.00	
BOND - XLI-DOCO-	8.85	50.00	0.00	50.00	
BOND -XLII-DOCO-	8.80	40.05	0.00	40.05	
BOND - XLIII-ADDCAP FOR 2013-2014 DOCO-	7.93	0.00	2.29	2.29	
BOND-XLV-ADDCAP FOR 2013-14 DOCO	9.65	0.00	137.50	137.50	
Total		260.05	139.79	399.84	



WEIGHTED AVERAGE RATE OF INTEREST ON LOAN DURING 2009-14 TARIFF PERIOD

Asset -I					
Particulars	2013-14				
Gross Opening Loan	830.00				
Cumulative Repayments of Loans up to Previous Year	0.00				
Net Loans Opening	830.00				
Add: Drawl(s) during the Year	146.78				
Less: Repayments during the year	0.00				
Net Closing Loan	976.78				
Average Net Loan	903.39				
Rate of Interest on Loan (%)*	9.0125				
Interest on Loan	81.42				

Asset -II					
Particulars	2013-14				
Gross Opening Loan	260.05				
Cumulative Repayments of Loans up to Previous Year	0.00				
Net Loans Opening	260.05				
Add: Drawl(s) during the Year	139.79				
Less: Repayments during the year	0.00				
Net Closing Loan	399.84				
Average Net Loan	329.95				
Rate of Interest on Loan (%)*	9.2223				
Interest on Loan	30.43				

^{*}Petitioner, in the tariff computation submitted with the petition, has considered rate of interest on loan upto two decimal points.



DETAILS OF LOAN BASED ON ACTUAL LOAN PORTFOLIO (2014-19)

(₹ in lakh)

Particulars	Interest Rate (%)	Loan deployed as on 1.4.2014	Additions during the tariff period	Total
				(Rs in lakh)
BOND-XXXIV-1.DOCO-	8.84	10.00	0.00	10.00
BOND-XXXIV-8.DOCO-	8.84	20.00	0.00	20.00
BOND XXXVI-9.DOCO-	9.35	9.00	0.00	9.00
BOND XXXVII-10.DOCO-	9.25	54.00	0.00	54.00
BOND XXXVII-2.DOCO-	9.25	20.00	0.00	20.00
BOND XL-11.DOCO-	9.30	431.00	0.00	431.00
BOND XL-3.DOCO-	9.30	140.00	0.00	140.00
BOND - XLI-12.DOCO-	8.85	206.00	0.00	206.00
BOND - XLI-4.DOCO-	8.85	50.00	0.00	50.00
BOND - XLII-13.DOCO-	8.80	110.00	0.00	110.00
BOND - XLII-5.DOCO-	8.80	40.05	0.00	40.05
BOND - XLIII-14.ADDCAP FOR 2013-2014 DOCO-	7.93	146.78	0.00	146.78
BOND - XLIII-6.ADDCAP FOR 2013-2014 DOCO-	7.93	2.29	0.00	2.29
BOND - XLV-7.ADDCAP FOR 2013-2014 DOCO-	9.65	137.50	0.00	137.50
Total		1376.62	0.00	1376.62

WEIGHTED AVERAGE RATE OF INTEREST ON LOAN DURING 2014-19 TARIFF PERIOD

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Gross Opening Loan	1376.62	1376.62	1376.62	1376.62	1376.62
Cumulative Repayments of Loans up to Previous Year	0.00	2.50	11.17	89.37	191.45
Net Loans Opening	1376.62	1374.12	1365.45	1287.25	1185.17
Add: Drawl(s) during the Year	0.00	0.00	0.00	0.00	0.00
Less: Repayments during the year	2.50	8.67	78.20	102.08	102.08
Net Closing Loan	1374.12	1365.45	1287.25	1185.17	1083.09
Average Net Loan	1375.37	1369.79	1326.35	1236.21	1134.13
Rate of Interest on Loan (%)*	9.0362	9.0361	9.0322	9.0268	9.0234
Interest on Loan	124.28	123.78	119.80	111.59	102.34

^{*}Petitioner, in the tariff computation submitted with the petition, has considered rate of interest on loan upto two decimal points.

