CENTRAL ELECTRICITY REGULATORY COMMISSION NEW DELHI

Petition No. 309/2009

Coram:

- 1. Dr. Pramod Deo, Chairperson
- 2. Shri S.Jayaraman, Member
- 3. Shri V.S.Verma, Member

DATE OF HEARING: 23.2.2010 DATE OF ORDER: 7.4.2010

In the matter of

Revision of transmission tariff due to additional capital expenditure incurred during 2008-09 for Raipur-Chandrapur (Bhadrawati) 400 kV D/C transmission line including bay extension at Raipur and Bhadrawati sub-stations in Western Region.

And in the matter of

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

- 1. Madhya Pradesh Power Transmission Company Ltd, Jabalpur
- 2. Maharashtra State Electricity Distribution Company Ltd., Mumbai
- 3. Gujarat Urja Vikas Nigam Ltd., Baroda
- 4. Electricity Deptt., Government of Goa, Panaji
- 5. Electricity Deptt., Administration of Daman & Diu, Daman
- 6. Electricity Deptt., Administration of Dadra Nagar Haveli, Silvassa
- 7. Chhattisgarh State Electricity Board, Raipur
- 8. Madhya Pradesh Audyogik Kandra Vikas Nigam (Indore) Ltd, Indore

....Respondents

The following were present:

- 1. Shri U.K.Tyagi, PGCIL
- Shri M.M.Mondal, PGCIL
- 3. Shri R.Prasad, PGCIL

ORDER

This petition has been filed for revision of transmission tariff on account of additional capital expenditure in respect of Raipur-Chandrapur (Bhadrawati) 400 kV D/C transmission line, including bay extension at Raipur and Bhadrawati sub-stations (the transmission line) in Western Region during the period from 1.4.2008 to 31.3.2009, based on

the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2004, (hereinafter referred to as "the 2004 regulations"). The petitioner has also prayed for reimbursement of the petition filing fee, licence fee and other expenditure in connection with the filing of the petition.

- 2. The investment approval for the transmission line was accorded by the Board of Directors of the petitioner company as per Memorandum dated 28.3.2003 at an estimated cost of Rs. 24860 lakh, including IDC of Rs.2488 lakh, based on 4th quarter 2002 price level. Subsequently, the revised cost estimates were approved by the Board of Directors of the petitioner company as per Memorandum dated 17.1.2006 at an estimated cost of Rs.26995 lakh, including IDC of Rs.1519 lakh. The transmission line was declared under commercial operation on 1.6.2005.
- 3. The transmission charges for the transmission line approved by the Commission in its order dated 6.2.2006 in Petition No. 134/2006 were revised by the Commission vide its order dated 15.6.2009 in Petition No. 50/2009 after accounting for additional capital expenditure incurred up to 31.3.2008. The summary of the revised transmission charges approve by the said order dated 15.6.2009 is extracted hereunder:

	2006-07	2007-08	2008-09
Depreciation	671.42	679.48	680.45
Interest on Loan	1273.56	1243.04	1188.65
Return on Equity	882.05	893.17	894.35
Advance against Depreciation	0.00	0.00	268.35
Interest on Working Capital	83.14	84.82	90.58
O & M Expenses	291.69	302.75	315.43
Total	3201.86	3203.26	3437.83

4. The relevant details of the capital expenditure of the transmission assets claimed by the petitioner are as under:

(Rs. in lakh)

Capital Expenditure	e as on	Additional Capital	Capital
1.4.2008		Expenditure during 2008-09	expenditure as on
			1.4.2009
25306.65		70.01	25376.66
(As per order	dated		
15.6.2009)			

5. Based on the above additional capital expenditure, the petitioner has claimed the revised transmission charges for the year 2008-09 as under:

(Rs. in lakh)

	(1.101 11.1 10.11.1)
	2008-09
Depreciation	681.44
Interest on Loan	1190.68
Return on Equity	895.82
Advance against Depreciation	267.37
Interest on Working Capital	90.64
O & M Expenses	315.43
Total	3441.38

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

(Rs. in lakh)

	(**************************************
	2008-09
Maintenance Spares	284.49
O & M expenses	26.29
Receivables	573.56
Total	884.34
Rate of Interest	10.25%
Interest	90.64

7. No reply has been filed by the respondents.

CAPITAL COST

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

Year	Amount (Rs. in Takh)		Nature and details of expenditure
2008-09	Building Transmission line Sub-station Total	= Rs. 10.75 lakh = Rs. 34.27 lakh = Rs. 24.99 lakh = Rs. 70.01 lakh	Final // retention payments

9. It is found that the additional capital expenditure claimed is in respect of committed liabilities. These are part of the deferred liabilities relating to works/services which have since materialised, and are within the original scope of work. Therefore, the additional expenditure sought to be capitalised is allowed under clauses (1) and (2) of Regulation 53 of the 2004 regulations.

TOTAL CAPITAL COST

10. Based on the above, capital cost for the purpose of tariff for the transmission line as on 31.3.2009 works out as under:

(Rs. in lakh)

Capital	Additional	capital	Capital expenditure as
expenditure as	expenditure	during	on 1.4.2009
on 1.4.2008	2008-09		
25306.65		70.01	25376.66

DEBT- EQUITY RATIO

11. The petitioner has considered the amount of additional capitalization in the debt-equity ratio of 70:30. This has been found to be in order. Accordingly, for the purpose of tariff, equity considered for the transmission assets is as under:

(Rs. in lakh)

			(**************************************
Equity as on	Notional Equity due	Total equity	Average equity
1.4.2008	to additional	considered as on	for 2008-09
	capital	31.3.2009	
	expenditure during		
	2008-09		
6388.24	21.00	6409.25	6398.74

RETURN ON EQUITY

- 12. As per clause (iii) of Regulation 56 of the 2004 regulations, return on equity shall be computed on the equity base determined in accordance with regulation 54 @ 14% per annum. Equity invested in foreign currency is to be allowed a return in the same currency and the payment on this account is made in Indian Rupees based on the exchange rate prevailing on the due date of billing.
- 13. Equity as given in the table under para 11 above has been considered. The tariff for the year 2008-09 has been allowed on average equity. Accordingly, revised return on equity of Rs. 895.82 lakh has been allowed for the year 2008-09.

INTEREST ON LOAN

- 14. Clause (1) of Regulation 56 of the 2004 regulations *inter alia* provides that,-
 - "(a) Interest on loan capital shall be computed loan wise on the loans arrived at in the manner indicated in regulation 54.
 - (b) The loan outstanding as on 1.4.2004 shall be worked out as the gross loan in accordance with Regulation 54 minus cumulative repayment as admitted by the Commission or any other authority having power to do so, up to 31.3.2004. The repayment for the period 2004-09 shall be worked out on a normative basis.
 - (c) The transmission licensee shall make every effort to re-finance the loan as long as it results in net benefit to the beneficiaries. The costs associated with such re-financing shall be borne by the beneficiaries.

- (d) The changes to the loan terms and conditions shall be reflected from the date of such re-financing and benefit passed on to the beneficiaries.
- (e) In case of dispute, any of the parties may approach the Commission with proper application. However, the beneficiaries shall not withhold any payment ordered by the Commission to the transmission licensee during pendency of any dispute relating to refinancing of loan;
- (f) In case any moratorium period is availed of by the transmission licensee, depreciation provided for in the tariff during the years of moratorium shall be treated as repayment during those years and interest on loan capital shall be calculated accordingly.
- (g) The transmission licensee shall not make any profit on account of re-financing of loan and interest on loan;
- (h) The transmission licensee may, at its discretion, swap loans having floating rate of interest with loans having fixed rate of interest, or vice versa, at its own cost and gains or losses as a result of such swapping shall accrue to the transmission licensee:

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

- 15. In our calculation, the interest on loan has been worked out as detailed below:
 - (a) Gross amount of loan, repayment of instalments and rate of interest and weighted average rate of interest on actual loan have been considered as per order dated 15.6.2009 in Petition No. 50/2009. Bond XXVIII has been utilised for part funding of additional capital expenditure during 2008-09.
 - (b) Notional loan arising out of additional capitalization for the year 2008-09 has been added in loan amount as on 31.3.2008 to arrive at total notional loan. This adjusted gross loan has been considered as normative loan for tariff calculations.

(c) Tariff has been worked out considering normative loan and normative repayments. Normative repayments have been worked out by the following formula:

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

- (d) Moratorium in repayment of loan has been considered with reference to normative loan and if the normative repayment of loan during the year is less than the depreciation during the year, it has been considered as moratorium and depreciation during the year has been deemed as normative repayment of loan during the year.
- (e) Weighted average rate of interest on actual loan worked out as per (a) above has been applied on the average loan during the year to arrive at the interest on loan.
- 16. Based on above, revised interest on loan for the year 2008-09 has been worked out as under:

(Rs. in lakh)

Details	2008-09
Gross Normative Loan-Opening	18918.41
Cumulative Repayment up to Previous Year	1897.28
Net Loan-Opening	17021.13
Addition due to Additional Capitalisation	49.01
Repayment during the year	948.80
Net Loan-Closing	16121.33
Average Loan	16571.23
Weighted Average Rate of Interest on Loan	7.19%
Interest	1190.68

17. The detailed calculations in support of the weighted average rate of interest are contained in Annexure attached.

DEPRECIATION

- 18. Sub-clause (a) of clause (ii) of Regulation 56 of the 2004 regulations provides for computation of depreciation in the following manner, namely:
 - (a) The value base for the purpose of depreciation shall be the historical cost of the asset.
 - (b) Depreciation shall be calculated annually based on straight line method over the useful life of the asset and at the rates prescribed in Appendix II to these regulations. The residual value of the asset shall be considered as 10% and depreciation shall be allowed up to maximum of 90% of the historical capital cost of the asset. Land is not a depreciable asset and its cost shall be excluded from the capital cost while computing 90% of the historical cost of the asset. The historical capital cost of the asset shall include additional capitalisation on account of Foreign Exchange Rate Variation up to 31.3.2004 already allowed by the Central Government/Commission.
 - (c) On repayment of entire loan, the remaining depreciable value shall be spread over the balance useful life of the asset.
 - (d) Depreciation shall be chargeable from the first year of operation. In case of operation of the asset for part of the year, depreciation shall be charged on pro rata basis.
- 19. Depreciation allowed has been worked out as below:

(Rs. in lakh)

	2008-09
Gross block as on 1st April of the year	25306.65
Addition due to Additional Capitalisation	70.01
Gross Block	25376.66
Rate of Depreciation	2.6890%
Depreciable Value	22807.49
Balance Useful life of the asset	-
Remaining Depreciable Value	20910.21
Depreciation	681.44

ADVANCE AGAINST DEPRECIATION

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

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

- 21. It is provided that Advance Against Depreciation shall be permitted only if the cumulative repayment up to a particular year exceeds the cumulative depreciation up to that year. It is further provided that Advance Against Depreciation in a year shall be restricted to the extent of difference between cumulative repayment and cumulative depreciation up to that year.
- 22. The petitioner has not claimed Advance Against Depreciation and, thereafter, Advance Against Depreciation has not been considered.

- 23. Accordingly, in our calculation the Advance Against Depreciation has been worked as detailed below:
 - (a) 1/10th of gross loan is worked out from the Gross Notional Loan as per para 16 above.
 - (b) Repayment of notional loan during the year is considered as per para 16 above.
 - (c) Depreciation is worked out as per para 19 above.
 - (d) In the calculation of Advance Against Depreciation, cumulative depreciation/Advance Against Depreciation up to the preceding year along with the depreciation of the current year have been considered for working out the Advance Against Depreciation
- 24. Petitioner has claimed Advance Against Depreciation during the year 2008-09. The details of Advance Against Depreciation allowed are given hereunder:

	2008-09
1/10th of Gross Loan (s)	1891.84
Repayment of the Loan	948.80
Minimum of the above	948.80
Depreciation during the year	681.44
(A) Difference	267.37
Cumulative Repayment of the Loan	2846.08
Cumulative Depreciation/ Advance against Depreciation	2578.72
(B) Difference	267.37
Advance against Depreciation Minimum of (A) and (B)	267.37

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

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

26. O&M expenses as taken for the tariff calculations as per order dated 15.6.2009 in Petition No. 50/2009 have been considered, since line length and number of bays remain unchanged.

INTEREST ON WORKING CAPITAL

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

(i) Maintenance spares

Regulation 56(v) (1) (b) of the 2004 regulations provides for maintenance spares @ 1% of the historical cost escalated @ 6% per annum from the date of commercial operation. The petitioner has claimed maintenance spares after accounting for additional capital expenditure. For the purpose of computation of maintenance spares, the historical cost is being taken as the cost on the date of commercial operation. Accordingly, maintenance spares have been worked out on the historical cost and by providing escalation from the date of commercial operation.

(ii) O & M expenses

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

order dated 6.2.2006 in Petition No. 134/2006 have been considered.

(iii) Receivables

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

(iv) Rate of interest on working capital

As per Regulation 56(v) (2) of the 2004 regulations, rate of interest on working capital shall be on normative basis and shall be equal to the short-term Prime Lending Rate of State Bank of India as on 1.4.2004 or on 1st April of the year in which the project or part thereof (as the case may be) is declared under commercial operation, whichever is later. The interest on working capital is payable on normative basis notwithstanding that the transmission licensee has not taken working capital loan from any outside agency. The petitioner has claimed interest on working capital @ 10.25% based on SBI PLR as on 1.4.2005, which is in accordance with the 2004 regulations and has been allowed.

28. The necessary computations in support of revised interest on working capital, as revised, are appended herein below:

	(NS. III IGNII)
	2008-09
Maintenance Spares	284.49
O & M expenses	26.29
Receivables	573.56

Total	884.34
Rate of Interest	10.25%
Interest	90.64

TRANSMISSION CHARGES

29. The revised transmission charges being allowed for the transmission line for the year 2008-09 are summarised below:

	(NS. III IANII)
	2008-09
Depreciation	681.44
Interest on Loan	1190.68
Return on Equity	895.82
Advance against Depreciation	267.37
Interest on Working Capital	90.64
O & M Expenses	315.43
Total	3441.38

- 30. The petitioner shall recover from the respondent the additional transmission charges in one instalment and these charges shall be shared in accordance with the 2004 regulations.
- 31. The petitioner has also sought reimbursement of filing fee paid. The Commission by its separate general order dated 11.9.2008 in Petition No. 129/2005 (Suo-motu) has decided that reimbursement of petition filing fee shall not be admissible during the tariff period 2004-09 as the same has been factored in the O & M norms. Accordingly, the petition filing fee has not been reimbursed. The decision on licence fee shall be communicated separately.
- 32. In addition to the transmission charges, the petitioner shall be entitled to other charges like income-tax, incentive, surcharge and other cess and taxes in accordance with the 2004 regulations.

33. This order disposes of Petition No. 309/2009.

Sd/- sd/- sd/- (V.S.VERMA) (S.JAYARAMAN) (DR.PRAMOD DEO) MEMBER MEMBER CHAIRPERSON

CALCULATION OF WEIGHTED AVERAGE RATE OF INTEREST ON LOAN

		(Rs. in lakh)
	Details of Loan	2008-09
1	Bond XV	
	Gross Loan opening	6300.00
	Cumulative Repayment up to the date of commercial	525.00
	operation /previous year	
	Net Loan-Opening	5775.00
	Additions during the year	0.00
	Repayment during the year	525.00
	Net Loan-Closing	5250.00
	Average Loan	5512.50
	Rate of Interest	6.68%
	Interest	368.24
	Repayment Schedule	
		12 Annual instalments from 28.2.2008
2	Bond XVI	
	Gross Loan opening	5176.00
	Cumulative Repayment up to the date of commercial	0.00
	operation /previous year Net Loan-Opening	5176.00
	Additions during the year	0.00
	Repayment during the year	517.60
	Net Loan-Closing	4658.40
	Average Loan	4917.20
	Rate of Interest	7.10%
	Interest	349.12
	Repayment Schedule	10 Annual instalments from 10.2.2009
3	BRIDGE FINANCING FROM IOB 15.07.2005 TO 21.09.2005 @ 5.90% REPLACED BY BPND XVII @ 7.39% FROM 22.09.2005	
	Gross Loan opening	6000.00
	Cumulative Repayment up to the date of commercial operation /previous year	0.00
	Net Loan-Opening	6000.00
	Additions during the year	0.00
	Repayment during the year	0.00
	Net Loan-Closing	6000.00
	Average Loan	6000.00
	Rate of Interest	7.39%
	Interest	443.40
	Repayment Schedule	10 Annual instalments from 22.9.2009
		11011122.7.2007
4	Bond XVIII	110111 22.7.2007

1	Cumulative Repayment up to the date of commercial	0.00
	operation /previous year	0.00
	Net Loan-Opening	607.37
	Additions during the year	0.00
	Repayment during the year	0.00
	Net Loan-Closing	607.37
	Average Loan	607.37
	Rate of Interest	8.15%
	Interest	49.50
	Repayment Schedule	17.00
		12 Annual instalments
		from 9.3.2010
5	Bond XVIII(ADD CAP FOR 2005-2006)	
	Gross Loan opening	663.63
	Cumulative Repayment up to the date of commercial	0.00
	operation /previous year	
	Net Loan-Opening	663.63
	Additions during the year	0.00
	Repayment during the year	0.00
	Net Loan-Closing	663.63
	Average Loan	663.63
	Rate of Interest	8.15%
	Interest	54.09
	Repayment Schedule	12 Annual instalmants
		12 Annual instalments from 9.3.2010
6	Bond XXII(ADD CAP FOR 2006-2007)	
	Gross Loan opening	472.76
	Cumulative Repayment up to the date of commercial	0.00
	operation /previous year	
	N	
1	Net Loan-Opening	472.76
	Additions during the year	472.76 0.00
	Additions during the year	0.00
	Additions during the year Repayment during the year Net Loan-Closing	0.00 0.00
	Additions during the year Repayment during the year	0.00 0.00 472.76
	Additions during the year Repayment during the year Net Loan-Closing Average Loan	0.00 0.00 472.76 472.76
	Additions during the year Repayment during the year Net Loan-Closing Average Loan Rate of Interest	0.00 0.00 472.76 472.76 8.68% 41.04 12 Annual instalments
	Additions during the year Repayment during the year Net Loan-Closing Average Loan Rate of Interest Interest Repayment Schedule	0.00 0.00 472.76 472.76 8.68% 41.04
7	Additions during the year Repayment during the year Net Loan-Closing Average Loan Rate of Interest Interest Repayment Schedule Bond XXII(ADD CAP FOR 2007-2008)	0.00 0.00 472.76 472.76 8.68% 41.04 12 Annual instalments from 7-12-2010
7	Additions during the year Repayment during the year Net Loan-Closing Average Loan Rate of Interest Interest Repayment Schedule Bond XXII(ADD CAP FOR 2007-2008) Gross Loan opening	0.00 0.00 472.76 472.76 8.68% 41.04 12 Annual instalments from 7-12-2010
7	Additions during the year Repayment during the year Net Loan-Closing Average Loan Rate of Interest Interest Repayment Schedule Bond XXII(ADD CAP FOR 2007-2008) Gross Loan opening Cumulative Repayment up to the date of commercial	0.00 0.00 472.76 472.76 8.68% 41.04 12 Annual instalments from 7-12-2010
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7	Additions during the year Repayment during the year Net Loan-Closing Average Loan Rate of Interest Interest Repayment Schedule Bond XXII(ADD CAP FOR 2007-2008) Gross Loan opening Cumulative Repayment up to the date of commercial operation /previous year Net Loan-Opening Additions during the year Repayment during the year Net Loan-Closing	0.00 0.00 472.76 472.76 8.68% 41.04 12 Annual instalments from 7-12-2010 9.01 0.00 9.01 0.00 9.01
7	Additions during the year Repayment during the year Net Loan-Closing Average Loan Rate of Interest Interest Repayment Schedule Bond XXII(ADD CAP FOR 2007-2008) Gross Loan opening Cumulative Repayment up to the date of commercial operation /previous year Net Loan-Opening Additions during the year Repayment during the year	0.00 0.00 472.76 472.76 8.68% 41.04 12 Annual instalments from 7-12-2010 9.01 0.00 9.01 0.00 0.00
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	Repayment Schedule	12 Annual instalments from 7-12-2010
8	Bond XXII(ADD CAP FOR 2008-2009)	
	Gross Loan opening	0.00
	Cumulative Repayment up to the date of commercial operation/previous year	0.00
	Net Loan-Opening	0.00
	Additions during the year	38.23
	Repayment during the year	0.00
	Net Loan-Closing	38.23
	Average Loan	19.12
	Rate of Interest	8.68%
	Interest	1.66
	Repayment Schedule	12 Annual instalments from 7-12-2010
	TOTAL	
	Gross Loan opening	19228.77
	Cumulative Repayment up to the date of commercial operation /previous year	525.00
	Net Loan-Opening	18703.77
	Additions during the year	38.23
	Repayment during the year	1042.60
	Net Loan-Closing	17699.40
	Average Loan	18201.59
	Rate of Interest	7.185%
	Interest	1307.82