CENTRAL ELECTRICITY REGULATORY COMMISSION NEW DELHI

Coram

- 1. Shri Bhanu Bhushan, Member
- 2. Shri R. Krishnamoorthy, Member

I.A.No. 19/2007 in Petition No. 136/2006

In the matter of

Correction of error in order dated 6.2.2007 in Petition No 136/2006 determining final transmission tariff for 400 kV D/C Madurai—Thiruvananthapuram Transmission System in Southern Region for the period 1.8.2005 to 31.3.2009 including additional capitalization form the date of commercial operation (1.8.2005) to 31.3.2006.

And in the matter of

Power Grid Corporation of India Limited, New Delhi

... Petitioner

Vs

- 1. Karnataka Power Transmission Corporation Ltd., Bangalore
- 2. Transmission Corporation of Andhra Pradesh Ltd., Hyderabad
- 3. Kerala State Electricity Board, Thiruvananthapuram
- 4. Tamil Nadu Electricity Board, Chennai
- 5. Electricity Department, Govt. of Pondicherry, Pondicherry

.... Respondents

ORDER

This application has been made for correction of certain errors in the Commission's order dated 6.2.2007, determining final transmission tariff in respect of 400 kV D/C Madurai – Thiruvananthapuram transmission line in Southern Region (hereinafter referred to as "the transmission line") for the period form 1.8.2005, the date of commercial operation, to 31.3.2009 after accounting for additional capitalization of Rs.600.21 lakh up to 31.3.2006.

2. In the petition, the petitioner had shown bridge financing of loan from IOB having floating rate of interest of 5.90% p.a., in addition to some other loans. IOB loan was subsequently replaced with Bond XVII having fixed rate of interest of 7.39% p.a., with effect from 22.9.2005. Therefore, for the year 2005-06 weighted average rate of interest of 7.07% was worked out for IOB loan/Bond XVII. The weighted average rate of 7.07% was inadvertently considered for the subsequent years, that is, 2006-07 and 2007-08 as well. Accordingly, the Commission in its order of 6.2.2007 approved interest on loan as under after considering all loans allocated to the transmission line:

(Rs. in lakh)

Details of loan	2005-06 (Pro rata)	2006-07	2007-08	2008-09
Interest on Loan				
Opening Gross Loan	17509.00	17929.15	17929.15	17929.15
Cumulative Repayment	288.82	735.11	1598.84	2606.15
Net Loan-Opening	17220.18	17194.04	16330.31	15323.00
Additions due to Additional Capitalisation	420.15			
Repayment during the year	446.29	863.73	1007.31	1508.71
Net Loan-Closing	17194.04	16330.31	15323.00	13814.28
Average Loan	17207.11	16762.17	15826.65	14568.64
Weighted Average Rate of Interest on Loan	8.24%	8.21%	8.16%	8.12%
Interest	945.73	1375.41	1290.89	1183.63

- 3. The petitioner has pointed out that interest rate of 7.07% for the years 2006-07 and 2007-08 for IOB loan/Bond XVII has been wrongly applied and that for these years interest rate of 7.39% ought to have been considered for computation of the overall weighted average rate of interest. It has also been pointed out that there is discrepancy in considering notional repayments for the years 2007-08 and 2008-09 in the computation given in para 23 of the order dated 6.2.2007. The petitioner accordingly seeks necessary corrections.
- 4. Notice of the application was issued to the respondents. Only the fourth respondent has filed its reply. This respondent has accepted the error in interest rate

considered for the years 2006-07 and 2007-08. The respondent has agreed that a discrepancy in considering notional repayments of loan existed, and has furnished its own computations in this regard.

- 5. We have perused the records and are satisfied that there are inadvertent mathematical errors in the computation of interest on loan component of tariff and these errors need to be rectified.
- 6. Accordingly, the interest on loan component of tariff in respect of the transmission line is revised as under, which will supersede the interest allowed in the table given under para 23 of the order dated 6.2.2007:

INTEREST ON LOAN

(Rs. In lakh)

	2005-06	2006-07	2007-08	2008-09
Opening Gross Loan	17509.00	17929.15	17929.15	17929.15
Cumulative Repayment up to	288.82	735.11	1598.84	2605.80
DOCO/Previous Year				
Net Loan-Opening	17220.18	17194.04	16330.31	15323.34
Additions including additions due to	420.15			
Additional Capitalisation				
Repayment during the year	446.29	863.73	1006.96	1479.87
Net Loan-Closing	17194.04	16330.31	15323.34	13843.47
Average Loan	17207.11	16762.17	15826.83	14583.41
Weighted Average Rate of Interest on	8.2442%	8.2248%	8.1769%	8.1467%
Loan				
Interest	945.73	1378.65	1294.15	1188.07

- 7. The detailed calculations in support of weighted average rate of interest considered in tariff are contained in Annexure-I attached.
- 8. The petitioner's entitlement to Advance Against Depreciation has also been reworked out based on the revised calculation of interest on loan and the relevant

details are reproduced hereunder, which will supersede the Advance Against Depreciation allowed in the table given under para 33 of the order dated 6.2.2007:

(Rs. in lakh)

Details of Advance Against Depreciation	2005-06	2006-07	2007-08	2008-09
1/10th of Gross Loan(s)	1750.90	1792.91	1792.91	1792.91
Repayment of Loan	446.29	863.73	1006.96	1479.87
Minimum of the above	446.29	863.73	1006.96	1479.87
Depreciation during the year	446.29	677.99	677.99	677.99
(A) Difference	0.00	185.75	328.98	801.89
Cumulative Repayment of the Loan	735.11	1598.84	2605.80	4085.68
Cumulative Depreciation/ Advance against	446.29	1124.28	1988.01	2994.97
Depreciation				
(B) Difference	288.82	474.56	617.79	1090.70
Advance Against Depreciation Minimum	0.00	185.75	328.98	801.89
of (A) and (B)				

9. The revision of interest on loan component has resulted in marginal adjustments in interest on working capital. The petitioner's entitlement to interest on working capital as revised, is given hereunder:

(Rs. in lakh)

	2005-06 (Pro rata)	2006-07	2007-08	2008-09
Maintenance Spares	243.33	253.07	268.25	284.35
O & M expenses	37.75	39.28	40.82	42.48
Receivables	599.90	631.52	644.89	710.79
Total	880.99	923.87	953.96	1037.62
Rate of Interest	10.25%	10.25%	10.25%	10.25%
Interest	60.20	94.70	97.78	106.36

- 10. The other two elements of tariff, namely return on equity and O & M charges approved by order dated 6.2.2007 remain unaffected.
- 11. The revised summary of the transmission charges applicable for the transmission line, in supersession of that given in the table in para 39 of the order dated 6.2.2007 shall be as under:

(Rs. in lakh)

	2005-06	2006-07	2007-08	2008-09
	(Pro rata)			
Depreciation	446.29	677.99	677.99	677.99
Interest on Loan	945.73	1378.65	1294.15	1188.07
Return on Equity	645.35	980.63	980.63	980.63
Advance against Depreciation	0.00	185.75	328.98	801.89
Interest on Working Capital	60.20	94.70	97.78	106.36
O & M Expenses	302.02	471.39	489.80	509.79
Total	2399.60	3789.10	3869.32	4264.73

- 12. The revised summary sheet of the capital cost, etc in respect of the transmission line is attached as Annexure II.
- 13. This order disposes of I.A. No 19/2007.

Sd-/ (R. KRISHNAMOORTHY) MEMBER sd-/ (BHANU BHUSHAN) MEMBER

New Delhi dated the 7th June, 2007

ANNEXURE-I

CALCULATION OF WEIGHTED AVERAGE RATE OF INTEREST ON LOAN

400 KV Sub-Station at Thiruvananthapuram and 400 KV D/C Madurai- Thiruvananthapuram Transmission Line

(Rs. in Lacs)

	Details of Loan	2005-06	06 2006-07 2007-08		2008-09
1	Bond-IX	2000 00	2000 01	2007 00	2000 03
-	Gross Loan opening	112.00	112.00	112.00	112.00
	Cumulative Repayment upto DOCO/previous year	22.40	33.60	44.80	56.00
	Net Loan-Opening	89.60	78.40	67.20	56.00
	Additions during the year	0.00	0.00	0.00	0.00
	Repayment during the year	11.20	11.20	11.20	11.20
	Net Loan-Closing	78.40	67.20	56.00	44.80
	Average Loan	84.00	72.80	61.60	50.40
	Rate of Interest	12.25%	12.25%	12.25%	12.25%
	Interest	10.29	8.92	7.55	6.17
	Repayment Schedule	10 Annual	instalments fi	om 22.08.20	03
2	Bond-X				
	Gross Loan opening	1066.00	1066.00	1066.00	1066.00
	Cumulative Repayment upto DOCO/previous year	177.67	177.67	266.50	355.33
	Net Loan-Opening 888.		888.33	799.50	710.67
	Additions during the year	0.00	0.00	0.00	0.00
	Repayment during the year	0.00	88.83	88.83	88.83
	Net Loan-Closing	888.33	888.33 799.50	710.67	621.83
	Average Loan	888.33	843.92	755.08	666.25
	Rate of Interest	10.90%	10.90%	10.90%	10.90%
	Interest	96.83	91.99	82.30	72.62
	Repayment Schedule	12 Annual	instalments f	om 21.06.20	04
3	Bond-XI Option-I				
	Gross Loan opening	1052.00	1052.00	1052.00	1052.00
	Cumulative Repayment upto DOCO/previous year	0.00	87.67	175.33	263.00
	Net Loan-Opening	1052.00	964.33	876.67	789.00
	Additions during the year	0.00	0.00	0.00	0.00
	Repayment during the year	87.67	87.67	87.67	87.67
	Net Loan-Closing	964.33	876.67	789.00	701.33
	Average Loan	1008.17	920.50	832.83	745.17
	Rate of Interest	9.80%	9.80%	9.80%	9.80%
	Interest	98.80	90.21	81.62	73.03
	Repayment Schedule	12 Annual	instalments f	om 07.12.20	05

Gross Loan opening	4	Bond-XII						
Cumulative Repayment upto DOCO/previous year 1874.00 156.17 312.34 468.50	_		1874 00	1874 00	1874 00	1874 00		
DOCO/previous year Net Loan-Opening 1874.00 1717.83 1561.66 1405.50 Additions during the year 0.00		Greec Lean spermig	101 1.00	101 1.00	107 1.00	101 1100		
Net Loan-Opening		Cumulative Repayment upto	0.00	156.17	312.34	468.50		
Additions during the year		DOCO/previous year						
Additions during the year		Net Loan-Opening	1874.00	1717.83	1561.66	1405.50		
Net Loan-Closing			0.00	0.00	0.00	0.00		
Net Loan-Closing								
Average Loan								
Rate of Interest								
Interest 174.20 159.06 143.91 128.76 Repayment Schedule 12 Annual instalments from 28.03.2006								
Repayment Schedule								
5 Bond-XIII Option-I Coross Loan opening 5000.00 5000.00 5000.00 5000.00 5000.00 5000.00 5000.00 5000.00 5000.00 5000.00 5000.00 5000.00 5000.00 5000.00 416.67 833.33 4166.67 Additions during the year 0.00 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>								
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DOCO/previous year Net Loan-Opening 5000.00 5000.00 4583.33 4166.67 Additions during the year 0.00		Cumulative Renayment unto	0.00	0.00	416.67	833 33		
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Additions during the year 0.00		Net Loan-Opening	1690.00	1690.00	1690.00	1549.17		
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Rate of Interest 6.68% 6.68% 6.68% 6.68% Interest 112.89 112.89 108.19 98.78 Repayment Schedule 12 Annual instalments from 23-02-2008 7 Bond- XVI		Net Loan-Closing	1690.00	1690.00	1549.17	1408.33		
Interest 112.89 112.89 108.19 98.78 Repayment Schedule 12 Annual instalments from 23-02-2008		Average Loan	1690.00	1690.00	1619.58	1478.75		
Repayment Schedule		Rate of Interest	6.68%	6.68%	6.68%	6.68%		
7 Bond- XVI Gross Loan opening 4650.00 4650.00 4650.00 4650.00 4650.00 Cumulative Repayment upto DOCO/previous year 0.00 0.00 0.00 0.00 Net Loan-Opening 4650.00 4650.00 4650.00 4650.00 Additions during the year 0.00 0.00 0.00 0.00		Interest	112.89	112.89	108.19	98.78		
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Gross Loan opening 4650.00 4650.00 4650.00 4650.00 Cumulative Repayment upto DOCO/previous year 0.00 0.00 0.00 0.00 Net Loan-Opening 4650.00 4650.00 4650.00 4650.00 Additions during the year 0.00 0.00 0.00 0.00								
Cumulative Repayment upto DOCO/previous year 0.00 0.00 0.00 0.00 Net Loan-Opening Additions during the year 4650.00 4650.00 4650.00 4650.00	7	Bond- XVI						
DOCO/previous year 4650.00 4650.00 4650.00 4650.00 Net Loan-Opening 4650.00 4650.00 4650.00 4650.00 Additions during the year 0.00 0.00 0.00 0.00		Gross Loan opening	4650.00	4650.00	4650.00	4650.00		
DOCO/previous year 4650.00 4650.00 4650.00 4650.00 Net Loan-Opening 4650.00 4650.00 4650.00 4650.00 Additions during the year 0.00 0.00 0.00 0.00			1					
Net Loan-Opening 4650.00 4650.00 4650.00 4650.00 Additions during the year 0.00 0.00 0.00 0.00								
Additions during the year 0.00 0.00 0.00 0.00			0.00	0.00	0.00	0.00		
Additions during the year 0.00 0.00 0.00 0.00			0.00	0.00	0.00	0.00		
		DOCO/previous year						
Repayment during the year 0.00 0.00 0.00 465.00		DOCO/previous year Net Loan-Opening	4650.00	4650.00	4650.00	4650.00		
		DOCO/previous year Net Loan-Opening	4650.00	4650.00	4650.00	4650.00		

	Net Loan-Closing	4650.00	4650.00	4650.00	4185.00
	Average Loan	4650.00	4650.00	4650.00	4417.50
	Rate of Interest	7.10%	7.10%	7.10%	7.10%
	Interest	330.15	330.15	330.15	313.64
	Repayment Schedule			rom 18-02-20	
	. repayment conteau.e				
8	Bond- XVII				
	Gross Loan opening	1000.00	1000.00	1000.00	1000.00
	Cumulative Repayment upto DOCO/previous year	0.00	0.00	0.00	0.00
	Net Loan-Opening	1000.00	1000.00	1000.00	1000.00
	Additions during the year	0.00	0.00	0.00	0.00
	Repayment during the year	0.00	0.00	0.00	0.00
	Net Loan-Closing	1000.00	1000.00	1000.00	1000.00
	Average Loan	1000.00	1000.00	1000.00	1000.00
	Rate of Interest	7.07%	7.39%	7.39%	7.39%
	Interest	70.71	73.90	73.90	73.90
	Repayment Schedule	10 Annual	Instalments for	rom 22.09.200	09
10	Bond- XVIII (For ACE) (Date of Drawal 09.03.2006)				
	Gross Loan opening	0.00	30.00	30.00	30.00
	Cumulative Repayment upto DOCO/previous year	0.00	0.00	0.00	0.00
	Net Loan-Opening	0.00	30.00	30.00	30.00
	Additions during the year	30.00	0.00	0.00	0.00
	Repayment during the year	0.00	0.00	0.00	0.00
	Net Loan-Closing	30.00	30.00	30.00	30.00
	Average Loan	15.00	30.00	30.00	30.00
	Rate of Interest	8.15%	8.15%	8.15%	8.15%
	Interest	1.22	2.45	2.45	2.45
	Repayment Schedule	12 annual	inatalments f	rom 09.03.20	10
11	PNB-II				
	Gross Loan opening	581.00	581.00	581.00	581.00
	Cumulative Repayment upto DOCO/previous year	48.42	96.83	145.25	193.67
	Net Loan-Opening	532.58	484.17	435.75	387.33
	Additions during the year	0.00	0.00	0.00	0.00
	Repayment during the year	48.42	48.42	48.42	48.42
	Net Loan-Closing	484.17	435.75	387.33	338.92
	Average Loan	508.38	459.96	411.54	363.13
	Rate of Interest	8.60%	8.60%	8.60%	8.60%
	Interest	43.72	39.56	35.39	31.23
	Repayment Schedule	12 Annual	Instalments for	rom 08.3.200	5
					<u> </u>

12	OBC				
	Gross Loan opening	484.00	484.00	484.00	484.00
	Cumulative Repayment upto DOCO/previous year	40.33	80.67	121.00	161.33
	Net Loan-Opening	443.67	403.33	363.00	322.67
	Additions during the year	0.00	0.00	0.00	0.00
	Repayment during the year	40.33	40.33	40.33	40.33
	Net Loan-Closing	403.33	363.00	322.67	282.33
	Average Loan	423.50	383.17	342.83	302.50
	Rate of Interest	8.60%	8.60% 8.60%		8.60%
	Interest	36.42	32.95	29.48	26.02
	Repayment Schedule	12 Annual Instalments from 22.03.2005			
	Total Loan				
	Gross Loan opening	17509.00	17539.00	17539.00	17539.00
	Cumulative Repayment upto DOCO/previous year	288.82	632.60	1481.89	2472.00
	Net Loan-Opening	17220.18	16906.40	16057.11	15067.00
	Additions during the year	30.00	0.00	0.00	0.00
	Repayment during the year	343.79	849.28	990.12	1455.12
	Net Loan-Closing	16906.40	16057.11	15067.00	13611.88
	Average Loan	17063.29	16481.76	15562.06	14339.44
	Rate of Interest	8.2442%	8.2248%	8.1769%	8.1467%
	Interest	1406.74	1355.59	1272.50	1168.20

Annexure - II

				Sumn	nary Shee	t				
Na	me of the Compa	ny:			PGCIL					
	me of the Elemer								nthapuram ar m Transmiss	
	tual date of com	mercial opera	tion		1.8.2005					
	tition No.:				136/2006	<u> </u>				
Ta	riff setting Period	:			2004-09					(D
1	Capital Cost of t	ho Project as	on Data of	aammaraia	Longratio	<u> </u>				(Rs.in lakh) 24333.47
	-	_	OII Date OI	Commercia	Operatio					
2	Additional Capit	alisation		F (1	0004.05				0.00	600.21
				For the year					0.00 600.21	
					3					
				Total					600.21	
	Total Capital Co									24333.47
3	Total Capital Co	st as on 1.4.2	006(1+2)							24933.68
4	Means of Finance	ce:								
		As on date of		As on 1.4.	2005			As on 1.4	.2006	
	Duli	commercial			74.050/	47500		74.040/	47000 45	1
	Debt	71.95%	17509.00		71.95%	17509		71.91%	17929.15	1
	Equity	28.05%	6824.47		28.05%	6824.		28.09%	7004.53	
	Total	100.00%	24333.47		100.00%	24333	3.47	100.00%	24933.68	
5	Gross Loan:	1						I	Γ	
	A									
	As on date of commercial operation 17509.00 Notional Loan corresponding to ACE during 2004-05 0.00									
		rresponding to	ACE during	2004-05					0.00	
	As on 1.4.2005	***************	^ C	2005.00					17509.00	
	Notional Loan co As on 1.4.2006	rresponding to	ACE during	2005-06					420.15 17929.15	
6	Cumulative Rep	avmont un to	21 2 2000 -						17929.13	4085.68
U	Cumulative Kep	Up to Date of	commercia	loperation					288.82	4005.00
		From Date of		•	31.3.200	9			3796.86	1
		Total							4085.68	
7	Balance Loan to		vond 31.3.2	009 :						13843.47
8	Depreciation red									3796.86
							Dep	AAD	Total	0100100
		From date of	commercial	operation to	31.3.2009		80.25	1316.61	3796.86	1
				Total				l	3796.86	1
	Balance Deprec	iation to be re	covered be	yond 31.3.2	: 009					18246.14
				Capital co	st for the	purpos	se of		24333.47	
		Depreciation								
								0.00		
				ACE durin					600.21	-
				Capital co		2000			24933.68	-
				Less: Lan	u Cost				441.46 24492.22	-
				90% of Ca	nital Coot	ac aba	240		22043.00	-
				Cum. Dep				ed up to	3796.86	-
				31.3.2009				-]
				Balance D beyond 31		n to be	e recov	ered	18246.14	