CENTRAL ELECTRICITY REGULATORY COMMISSION NEW DELHI

Coram:

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

I.A.No.29/2007 in Petition No.105/2005

In the matter of

Approval of transmission charges for Hiriyur sub-station (including 315 MVA Auto Transformer), LILO of Davangere-Hoody 400 kV D/C line at Hiriyur and additional bays at Kolar and Hosur sub-station for 2nd circuit of Kolar-Hosur 400 kV D/C transmission line under System Strengthening Scheme-II in Southern Region for the period from 1.4.2004 to 31.3.2009.

And in the matter of

Power Grid Corporation of India Limited

..Petitioner

\/s

- 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
- 6. Electricity Department, Govt. of Goa, Panaji

Respondents

ORDER

The Commission by its order dated 5.5.2006 had allowed tariff for Hiriyur substation (including 315 MVA Auto Transformer), LILO of Davangere-Hoody 400 kV D/C transmission line at Hiriyur and additional bays at Kolar and Hosur sub-stations for 2nd circuit of Kolar-Hosur 400 kV D/C line under the System Strengthening Scheme-II in Southern Region for the period from 1.4.2004 to 31.3.2009,

2. The tariff for the block years 2004-09 was worked out on the basis of gross block of Rs. 4264.04 lakh as on 1.4.2004. The Commission in its said order dated 5.5.2006, had not considered additional capital expenditure incurred by the petitioner during 2004-05. The petitioner was granted liberty to approach the Commission for

revision of tariff for period 2004-09 in accordance with law based on additional capital expenditure incurred during 2004-05.

- 3. Meanwhile, the petitioner filed Interlocutory application No. 71/2006 in said petition for revision of tariff based on additional capitalisation incurred during 2004-05 for the transmission system. Accordingly, tariff was revised by order dated 26.4.2007. While revising tariff, Commission has considered Rs. 879.71 lakh as total normative loan repayment for the period 2005-09 in respect of 400 kV Hiriyur sub-station including 315 MVA Auto Transformer and LILO of Davangere-Hoody 400 kV D/C line at Hiriyur (the transmission asset).
- 4. Through this interlocutory application, the respondent, Tamil Nadu Electricity Board (TNEB) has pointed out that the Commission has considered Rs. 879.71 lakh as total normative loan repayment as against an amount of Rs. 873. 97 lakh, resulting in excess tariff award to the tune of Rs. 4.15 lakh for the period 2005-09 and has accordingly, sought correction in the order dated 26.4.2007 ibid.
- 5. We have perused the records and are satisfied that there are inadvertent mathematical errors in the computation of total normative loan repayment and these errors need to be rectified.
- 6. Accordingly the interest on loan component of tariff in respect of the transmission asset is revised as under, which will supersede the interest allowed in the table given under para 11 of the order dated 26.4.2007:

INTEREST ON LOAN

(Rs. in lakh)

Interest on Loan	Up to	2004-05	2005-06	2006-07	2007-08	2008-09
	31.3.2004					
Gross Loan as per last Order	2480.00					
Addition due to Additional	97.12					
Capitalization						
Additions due to FERV	0.00					
Gross Normative Loan	2577.12	2577.12	2795.88	2795.88	2795.88	2795.88
Cumulative Repayment up to		47.00	170.69	299.31	463.07	692.02
Previous Year						
Net Loan-Opening		2530.12	2625.20	2496.57	2332.81	2103.86
Addition due to Additional		218.76				
Capitalization						
Repayment during the year		123.69	128.63	163.76	228.95	228.95
Net Loan-Closing		2625.20	2496.57	2332.81	2103.86	1874.91
Average Loan		2577.66	2560.88	2414.69	2218.34	1989.38
Weighted Average Rate of Interest		8.64%	8.57%	8.49%	8.42%	8.37%
on Loan						
Interest		222.63	219.34	204.94	186.81	166.51

ADVANCE AGAINST DEPECIATION

7. The petitioner's entitlement to Advance Against Deprecation has also been recalculated based on the revised calculation of interest on loan and the relevant details are reproduced hereunder, which will supersede the Advance Against Deprecation allowed in the table given under para 14 of the order dated 26.4.2007:

(Rs. in lakh)

	2004-05	2005-06	2006-07	2007-08	2008-09
Advance against Depreciation					
1/10 th of Gross Loan(s)	257.71	279.59	279.59	279.59	279.59
Repayment of the Loan	123.69	128.63	163.76	228.95	228.95
Minimum of the above	123.69	128.63	163.76	228.95	228.95
Depreciation during the year	123.69	128.63	128.63	128.63	128.63
(A) Difference	0.00	0.00	35.13	100.33	100.33
Cumulative Repayment of the Loan	170.69	299.31	463.07	692.02	920.98
Cumulative Depreciation/ Advance against Depreciation	142.74	271.36	399.99	563.75	792.70
(B) Difference	27.95	27.95	63.08	128.28	128.28
Advance against Depreciation Minimum of (A) and (B)	0.00	0.00	35.13	100.33	100.33

INTEREST ON WORKING CAPITAL

8. The revision of interest on the above noted two components of tariff has resulted in marginal adjustments in interest on working capital. The petitioners entitlement to interest on working capital as revised which will supersede the interest

on working capital allowed in the table given under para 16 of the order dated 26.4.2007 is given hereunder.

(Rs. in lakh)

		2004-05	2005-06	2006-07	2007-08	2008-09
Maintenance Spares		35.28	37.40	39.64	42.02	44.54
O & M expenses		18.78	19.54	20.32	21.13	21.98
Receivables		125.21	128.19	133.35	143.03	141.37
Total		179.28	185.13	193.31	206.17	207.89
Interest	10.25%	18.38	18.98	19.81	21.13	21.31

9. The summary sheet showing the revised basic details of the transmission asset is annexed to this order as Annexure I. The revised transmission charges being allowed in respect of transmission asset in suppression of the transmission charges approved under order dated 26.4.2007 are summarised below:

(Rs. in lakh)

	2004-05	2005-06	2006-07	2007-08	2008-09
Depreciation	123.69	128.63	128.63	128.63	128.63
Interest on Loan	222.63	219.34	204.94	186.81	166.51
Return on Equity	161.19	167.75	167.75	167.75	167.75
Advance against Depreciation	0.00	0.00	35.13	100.33	100.33
Interest on Working Capital	18.38	18.98	19.81	21.13	21.31
O & M Expenses	225.39	234.45	243.83	253.52	263.70
Total	751.27	769.15	800.09	858.17	848.22

- 10. In all other respects order dated 26.4.2007 shall continue to apply.
- 11. This order disposes of I.A.No.29/2007.

Sd-/
(R.KRISHNAMOORTHY)
MEMBER
New Delhi dated the 8th August 2007

sd-/ (BHANU BHUSHAN) MEMBER

Annexure-I

		7 7			
Summary Sheet					
Name of the Company:	PGCIL				

Nar	me of the Element:							A auto transfo	rmer &	
Act	tual DOCO:		LILO of Davangere- Hoody 400 KV D/C line) 1st February 2004							
	ition No.:	105/2005								
Tar	iff setting Period:	2004-09								
	<u> </u>	<u> </u>							(Rs.in lakh)	
1	Capital Cost of the Project									
2	Admitted Capital C	ost as on 1.4.2004 for	Calc	ulation	of D	edt and	Equity		3493.15	
3	Additional Capitali	nal Capitalisation(works)								
	For the year	For the year 2001-02								
	For the year	2002-03						0.00		
	For the year	2003-04						188.45		
	Total							188.45		
4	Additional Capitali	sation during 2004-05	to 20	08-09					312.52	
	For the year	2004-05						312.52		
	Total							312.52		
5	-	as on 1.4.2005(2+3+4)							3994.12	
6	Means of Finance :									
		As on 1-4-2004			As	on 1-4-2				
	Debt	70.00%		577.12		70.00		2795.88		
	Equity	30.00%		104.48		30.00		1198.24		
	Total	100.00%	3	3681.60		100.00	00.00% 3994.12			
7	Gross Loan:								2795.88	
		As on 1-4-2004								
8		ment up to 31.3.2009 :						920.98		
	Repaid up to							47.00		
		31.3.2004 (ACE & FER	,					0.00		
	1.4.2004 to	31.3.2009								
	Total							920.98		
9		e repaid beyond 31.03.		:					1874.91 893.03	
10	Depreciation recov	preciation recovered up to 31.3.2009 :								
				Dep			AAD	Total		
		up to 31.3.2004			0.05		0.00	19.05		
		31.3.2004 (ACE & FER	V)		0.00		0.00	0.00		
	1.4.2004 to	31.3.2009		638.20			235.78	873.98		
11	Total							893.03	2670.09	
11		Balance Depreciation to be recovered beyond 31.3.2009 : Capital cost for the purpose of Depreciation 3493.15								
	•	Capital cost for the purpose of Depreciation ACE + FERV during 2001-02 to 2003-04								
		as 01.04.2004	04.2004 5			188.45 3681.60 312.52				
	ACE during 2									
	Capital cost									
	Less: Land C					3994.12 35.10				
	Less. Lailu C	,03t						3959.02		
	90% of Capit	al Cost as above	as above							
			o be recovered up to 31.3.2009							
		Balance Depreciation to be recovered beyond 2670					893.03 2670.09			