

**CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

**Coram:**

- 1. Shri Bhanu Bhushan, Member**
- 2. Shri Rakesh Nath, Member**

**I.A.No. 72/2006 in  
Petition No.127/2005**

**In the matter of**

Approval of transmission tariff for (A) HVDC terminal station at Talcher and Kolar related with Pole-II, (B) 400 kV D/C Kolar-Hossur transmission line along with associated bays at Kolar and Hossur and (C) 400 kV S/C Salem-Udumalpet transmission line along with associated bay extension at Salem and Udumalpet etc. under transmission system associated with Talcher Super Thermal Power Station Stage-II for the period 1.4.2004 to 31.3.2009.

**And in the matter of**

Power Grid Corporation of India Limited

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

**Respondents**

**ORDER**

The Commission by its order dated 9.5.2006 had allowed tariff for (A) HVDC terminal stations at Talcher and Kolar related with Pole-II, (B) 400 kV D/C Kolar-Hossur transmission line along with associated bays at Kolar and Hossur, and (C) 400 kV S/C Salem-Udumalpet transmission line along with the associated bay extensions at Salem and Udumalpet etc. (the transmission assets) under transmission system associated with Talcher Super Power Station Stage-II (the transmission system) in Southern Region for the period from 1.4.2004 to 31.3.2009.

2. The tariff for the block years 2004-2009 was worked out on the basis of gross block of Rs. 77177.86 lakh as on 1.4.2004. The Commission in its said order dated

9.5.2006, had not considered additional capital expenditure during 2004-05 incurred by the petitioner after the date of commercial operation. 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. Through this interlocutory application, the petitioner has prayed for revision of tariff based on additional capitalization incurred during 2004-05 in respect of HVDC terminal station at Talcher and Kolar related with Pole-II and 400 kV D/C Kolar-Hossur transmission line along with associated bays at Kolar and Hossur.

**CAPITAL COST**

4. The petitioner has claimed revision of tariff based on capital cost after accounting for additional capitalization for the year 2004-05. The capital expenditure on the date of commercial operation and additional capitalization on account of works claimed by the petitioner for tariff purpose are given under:

(Rs. in lakh)			
Name of the transmission assets	Capital Expenditure as on 1.4.2004	Additional capital expenditure during 2004-05	Total capital expenditure
HVDC terminal station at Talcher and Kolar related with pole-II	66272.23	41.39	66313.62
400 kV D/C Kolar-Hossur transmission line, along with associated bays at Kolar and Hossur	5316.08	1.20	5317.28

**ADDITIONAL CAPITALIZATION ON WORKS- 2004-05**

5. The petitioner has sought approval of tariff after accounting for additional capital expenditure incurred on account of balance payments. The above expenditure was not considered by the Commission in its order dated 9.5.2006 ibid while approving tariff. The capital expenditure claimed is found to be in order as it was

against the committed liability. Accordingly, the additional capital expenditure as claimed for the respective transmission asset has been allowed. The capital expenditure as claimed by the petitioner is being considered for revision of tariff.

### **DEBT- EQUITY RATIO**

6. Clause (1) of Regulation 54 of the 2004 regulations provides that,-

“(1) In case of the existing projects, debt–equity ratio Considered by the Commission for fixation of tariff for the period ending 31.3.2004 shall be considered for determination of tariff with effect from 01.04.2004:

Provided that in cases where the tariff for the period ending 31.3.2004 has not been determined by the Commission, debt-equity ratio shall be as may be decided by the Commission:

Provided further that in case of the existing projects where additional capitalisation has been completed on or after 1.4.2004 and admitted by the Commission under Regulation 53, equity in the additional capitalisation to be considered shall be :-

- (a) 30% of the additional capital expenditure admitted by the Commission, or
  - (b) equity approved by the competent authority in the financial package, for additional capitalisation, or
  - (c) actual equity employed,
- whichever is the least:

Provided further that in case of additional expenditure admitted under the second proviso, the Commission may considered equity of more than 30% if the transmission licensee is able to satisfy the Commission that deployment of such equity of more than 30% was in the interest of general public.

7. The Note 1 below Regulation 53 lays down that any expenditure on account of committed liabilities within the original scope of work is to be serviced in the normative debt-equity ratio specified in Regulation 54.

8. In the instant case, the approved debt-equity ratio for the transmission system is stated to be 80:20. Therefore, the additional capital expenditure on works for different assets has been considered in the approved debt-equity ratio of 80:20.

Therefore, notional equity considered for revision of tariff in each of the assets is hereinunder:

Name of the transmission assets	Equity (Rs. in lakh)	
	As on 31.3.2004	As on 31.3.2005
HVDC terminal station at Talcher and Kolar related with pole-II	13254.45	13262.72
400 kV D/C Kolar-Hossur transmission line, along with associated bays at Kolar and Hossur	1299.92	1300.16

### **RETURN ON EQUITY**

9. 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.

10. For the reasons recorded in para 8 above, equity as given in the table under that para has been considered. However, return on equity for the year 2004-05 has been allowed on average equity. Accordingly, return on equity allowed each year during the tariff period is given under:

Name of the transmission assets	(Rs. in lakh) Return on equity	
	2004-05	2005-09
HVDC terminal station at Talcher and Kolar related with pole-II	1856.20	1856.78
400 kV D/C Kolar-Hossur transmission line, along with associated bays at Kolar and Hossur	182.01	182.02

### **INTEREST ON LOAN**

11. Based on the revised capital cost, the year-wise details of interest on loan worked out are given hereunder:

HVDC terminal station at Talcher and Kolar related with pole-II

(Rs. in lakh)

Interest on Loan	Up to 31.3.2004	2004-05	2005-06	2006-07	2007-08	2008-09
Gross Loan as per last Order	51439.00					
Addition due to Additional Capitalisation	1741.87					
Addition due to FERV	(-)163.09					
Gross Normative Loan	53017.78	53017.78	53050.90	53050.90	53050.90	53050.90
Cumulative Repayment up to Previous Year		1632.48	5055.24	8805.08	13680.44	18555.81
Net Loan-Opening		51385.30	47995.66	44245.82	39370.45	34495.09
Addition due to additional capitalization		33.11				
Repayment during the year		3422.75	3749.84	4875.36	4875.36	4875.36
Net Loan-Closing		47995.66	44245.82	39370.45	34495.09	29619.72
Average Loan		49690.48	46120.74	41808.13	36932.77	32057.40
Weighted Average Rate of Interest on Loan		6.8406%	6.9270%	6.9957%	7.0566%	7.1360%
<b>Interest</b>		<b>3399.12</b>	<b>3194.78</b>	<b>2924.77</b>	<b>2606.19</b>	<b>2287.61</b>

400 KV D/C Kolar-Hossur Transmission line along with associated bays at kolar and Hosur

(Rs. in lakh)

Interest on Loan	Up to 31.3.2004	2004-05	2005-06	2006-07	2007-08	2008-09
Gross Loan as per last Order	3947.00					
Addition due to Additional Capitalization and FERV up to 31.3.2004	69.16					
Gross Normative Loan	4016.16	4016.16	4017.12	4017.12	4017.12	4017.12
Cumulative Repayment up to Previous Year		34.49	229.67	467.56	808.08	1148.59
Net Loan-Opening		3981.67	3787.45	3549.56	3209.04	2868.53
Addition due to Additional Capitalization		0.96				
Repayment during the year		195.18	237.89	340.52	340.52	340.52
Net Loan-Closing		3787.45	3549.56	3209.04	2868.53	2528.01
Average Loan		3884.56	3668.50	3379.30	3038.79	2698.27
Weighted Average Rate of Interest on Loan		9.4142%	9.3867%	9.3641%	9.3491%	9.3304%
<b>Interest</b>		<b>365.70</b>	<b>344.35</b>	<b>316.44</b>	<b>284.10</b>	<b>251.76</b>

12. The details calculations in support of interest on loan are attached an Annexure-I and Annexure-IA to this order.

## **DEPRECIATION**

13. The revised calculations in support of depreciation allowed on the basis of revised capital cost are appended below:

HVDC terminal station at Talcher and Kolar related with pole-II

(Rs. in lakh)

		Up to 31.3.2004	2004-05	2005-06	2006-07	2007-08	2008-09
Gross Block							
As per Last Order		64872.07					
Addition due to Additional Capitalisation		1741.87	41.39				
Addition due to FERV		(-)341.71					
Gross Block as on 31 <sup>st</sup> March		66272.23	66313.62	66313.62	66313.62	66313.62	66313.62
Depreciation							
Rate of Depreciation			3.6026%	3.6029%	3.6029%	3.6029%	3.6029%
Depreciable Value	90%		59645.01	59682.26	59682.26	59682.26	59682.26
Balance Useful life of the asset			-	-	-	-	-
Remaining Depreciable Value			57122.18	54627.02	50877.18	46001.81	41126.45
<b>Depreciation</b>			<b>2388.26</b>	<b>2389.19</b>	<b>2389.19</b>	<b>2389.19</b>	<b>2389.19</b>

400 KV D/C Kolar-Hossur Transmission line along with associated bays at kolar and Hosur

(Rs. in lakh)

		Up to 31.3.2004	2004-05	2005-06	2006-07	2007-08	2008-09
Gross Block							
As per Last Order		5246.92					
Addition due to Additional Capitalisation		69.16	1.20				
Addition due to FERV		0.00					
Gross Block as on 31 <sup>st</sup> March		5316.08	5317.28	5317.28	5317.28	5317.28	5317.28
Depreciation							
Rate of Depreciation			2.6056%	2.6056%	2.6056%	2.6056%	2.6056%
Depreciable Value	90%		4731.49	4732.57	4732.57	4732.57	4732.57
Balance Useful life of the asset			0.00	0.00	0.00	0.00	0.00
Remaining Depreciable Value			4595.21	4457.76	4265.01	3924.49	3583.98
<b>Depreciation</b>			<b>138.53</b>	<b>138.55</b>	<b>138.55</b>	<b>138.55</b>	<b>138.55</b>

### **ADVANCE AGAINST DEPRECIATION**

14. The petitioner's entitlement to Advance Against Depreciation has also been reworked out and the relevant details are reproduced hereunder:

HVDC terminal station at Talcher and Kolar related with pole-II

(Rs. in lakh)

	2004-05	2005-06	2006-07	2007-08	2008-09
1/10 <sup>th</sup> of Gross Loan(s)	5301.78	5305.09	5305.09	5305.09	5305.09
Repayment of the Loan	3422.75	3749.84	4875.36	4875.36	4875.36
Minimum of the above	3422.75	3749.84	4875.36	4875.36	4875.36

Depreciation during the year	2388.26	2389.19	2389.19	2389.19	2389.19
(A) Difference	1034.49	1360.66	2486.18	2486.18	2486.18
Cumulative Repayment of the Loan	5055.24	8805.08	13680.44	18555.81	23431.17
Cumulative Depreciation/ Advance against Depreciation	4911.08	7444.42	11194.27	16069.63	20945.00
(B) Difference	144.15	1360.66	2486.18	2486.18	2486.18
<b>Advance against Depreciation Minimum of (A) and (B)</b>	<b>144.15</b>	<b>1360.66</b>	<b>2486.18</b>	<b>2486.18</b>	<b>2486.18</b>

400 KV D/C Kolar-Hossur Transmission line along with associated bays at kolar and Hosur

(Rs. in lakh)

	2004-05	2005-06	2006-07	2007-08	2008-09
Advance against Depreciation					
1/10 <sup>th</sup> of Gross Loan(s)	401.62	401.71	401.71	401.71	401.71
Repayment of the Loan	195.18	237.89	340.52	340.52	340.52
Minimum of the above	195.18	237.89	340.52	340.52	340.52
Depreciation during the year	138.53	138.55	138.55	138.55	138.55
(A) Difference	56.64	99.34	201.97	201.97	201.97
Cumulative Repayment of the Loan	229.67	467.56	808.08	1148.59	1489.11
Cumulative Depreciation/ Advance against Depreciation	274.81	413.36	606.11	946.63	1287.14
(B) Difference	(-)45.14	54.20	201.97	201.97	201.97
<b>Advance against Depreciation Minimum of (A) and (B)</b>	<b>0.00</b>	<b>54.20</b>	<b>201.97</b>	<b>201.97</b>	<b>201.97</b>

## OPERATION & MAINTENANCE EXPENSES

15. There is no change in O & M expenses approved under order dated 9.5.2006

## INTEREST ON WORKING CAPITAL

16. The revised computations in support of interest on working capital consequent to increase in return on equity, interest on loan and depreciation are appended hereinbelow.

HVDC terminal station at Talcher and Kolar related with pole-II

(Rs. in lakh)

		2004-05	2005-06	2006-07	2007-08	2008-09
Maintenance Spares		691.08	732.55	776.50	823.09	872.48
O & M expenses		39.84	41.44	43.10	44.81	46.61
Receivables		1414.28	1590.16	1739.39	1689.70	1640.23
Total		2,145.19	2,364.15	2,558.99	2,557.60	2,559.31
<b>Interest</b>	10.25%	<b>219.88</b>	<b>242.33</b>	<b>262.30</b>	<b>262.15</b>	<b>262.33</b>

400 KV D/C Kolar-Hossur Transmission line along with associated bays at kolar and Hosur

(Rs. in lakh)

		2004-05	2005-06	2006-07	2007-08	2008-09
Maintenance Spares		55.62	58.95	62.49	66.24	70.22

O & M expenses		7.30	7.59	7.90	8.20	8.54
Receivables		132.30	138.54	159.56	154.76	150.04
Total		195.22	205.08	229.95	229.21	228.80
<b>Interest</b>	10.25%	<b>20.01</b>	<b>21.02</b>	<b>23.57</b>	<b>23.49</b>	<b>23.45</b>

## TRANSMISSION CHARGES

17. The summary sheets showing the revised basic details of capital cost and other related aspects is annexed to this order as Annexure-II and Annexure-IIA. The revised transmission charges being allowed for the transmission assets, excluding 400 kV S/C Salem-Udmalpet transmission line, in suppression of the transmission charges approved under order dated 9.5.2006 are summarised below:

HVDC terminal station at Talcher and Kolar related with pole-II

(Rs. in lakh)

	2004-05	2005-06	2006-07	2007-08	2008-09
Depreciation	2388.26	2389.19	2389.19	2389.19	2389.19
Interest on Loan	3399.12	3194.78	2924.77	2606.19	2287.61
Return on Equity	1856.20	1856.78	1856.78	1856.78	1856.78
Advance against Depreciation	144.15	1360.66	2486.18	2486.18	2486.18
Interest on Working Capital	219.88	242.33	262.30	262.15	262.33
O & M Expenses	478.04	497.25	517.14	537.71	559.30
<b>Total</b>	<b>8485.66</b>	<b>9540.98</b>	<b>10436.35</b>	<b>10138.20</b>	<b>9841.39</b>

400 KV D/C Kolar-Hossur Transmission line along with associated bays at kolar and Hosur

(Rs. in lakh)

	2004-05	2005-06	2006-07	2007-08	2008-09
Depreciation	138.53	138.55	138.55	138.55	138.55
Interest on Loan	365.70	344.35	316.44	284.10	251.76
Return on Equity	182.01	182.02	182.02	182.02	182.02
Advance against Depreciation	0.00	54.20	201.97	201.97	201.97
Interest on Working Capital	20.01	21.02	23.57	23.49	23.45
O & M Expenses	87.57	91.07	94.79	98.45	102.51
<b>Total</b>	<b>793.82</b>	<b>831.21</b>	<b>957.34</b>	<b>928.58</b>	<b>900.26</b>

18. In all other respects including the transmission charges approved for 400 kV S/C Salem-Udmalpet transmission line, the order dated 9.5.2006 shall continue to apply.

19. This order disposes of I.A.No.72/2006.



Sd-/  
**(RAKESH NATH)**  
MEMBER

sd-/  
**(BHANU BHUSHAN)**  
MEMBER

New Delhi dated the 20<sup>th</sup> April 2007

**Annexure -I**

**CALCULATION OF WEIGHTED AVERAGE RATE OF INTEREST ON LOAN**

**HVDC Terminal station at Talcher and Kolar related with pole-II**

(Rs. in Lakh)

	<b>Details of Loan</b>	<b>2004-05</b>	<b>2005-06</b>	<b>2006-07</b>	<b>2007-08</b>	<b>2008-09</b>
<b>1</b>	<b>Bond-IX</b>					
	Net Loan-Opening	2273.40	2020.80	1768.20	1515.60	1263.00
	Repayment during the year	252.60	252.60	252.60	252.60	252.60
	Net Loan-Closing	2020.80	1768.20	1515.60	1263.00	1010.40

	Average Loan	2147.10	1894.50	1641.90	1389.30	1136.70
	Rate of Interest	12.25%	12.25%	12.25%	12.25%	12.25%
	Interest	263.02	232.08	201.13	170.19	139.25
	Repayment Schedule	10 Annual instalments from 22.08.2003				
<b>2</b>	<b>Bond-X</b>					
	Net Loan-Opening	4804.00	4403.67	4003.33	3603.00	3202.67
	Repayment during the year	400.33	400.33	400.33	400.33	400.33
	Net Loan-Closing	4403.67	4003.33	3603.00	3202.67	2802.33
	Average Loan	4603.83	4203.50	3803.17	3402.83	3002.50
	Rate of Interest	10.90%	10.90%	10.90%	10.90%	10.90%
	Interest	501.82	458.18	414.55	370.91	327.27
	Repayment Schedule	12 Annual instalments from 21-6-2004				
<b>3</b>	<b>Bond- XI Option 1</b>					
	Net Loan-Opening	3508.00	3508.00	3215.67	2923.33	2631.00
	Repayment during the year	0.00	292.33	292.33	292.33	292.33
	Net Loan-Closing	3508.00	3215.67	2923.33	2631.00	2338.67
	Average Loan	3508.00	3361.83	3069.50	2777.17	2484.83
	Rate of Interest	9.80%	9.80%	9.80%	9.80%	9.80%
	Interest	343.78	329.46	300.81	272.16	243.51
	Repayment Schedule	12 Annual instalments from 07-12-2005				
<b>4</b>	<b>Bond- XII</b>					
	Net Loan-Opening	247.00	247.00	226.42	205.83	185.25
	Repayment during the year	0.00	20.58	20.58	20.58	20.58
	Net Loan-Closing	247.00	226.42	205.83	185.25	164.67
	Average Loan	247.00	236.71	216.13	195.54	174.96
	Rate of Interest	9.70%	9.70%	9.70%	9.70%	9.70%
	Interest	23.96	22.96	20.96	18.97	16.97
	Repayment Schedule	12 Annual Instalments from 28.03.2006				
<b>5</b>	<b>Bond- XIII Option 1</b>					
	Net Loan-Opening	13015.00	13015.00	13015.00	11930.42	10845.83
	Repayment during the year	0.00	0.00	1084.58	1084.58	1084.58
	Net Loan-Closing	13015.00	13015.00	11930.42	10845.83	9761.25
	Average Loan	13015.00	13015.00	12472.71	11388.13	10303.54
	Rate of Interest	8.63%	8.63%	8.63%	8.63%	8.63%
	Interest	1123.19	1123.19	1076.39	982.80	889.20
	Repayment Schedule	12 Annual inatalments from 31-7-2006				
<b>6</b>	<b>PNB-II</b>					
	Net Loan-Opening	1028.00	942.33	856.67	771.00	685.33
	Repayment during the year	85.67	85.67	85.67	85.67	85.67
	Net Loan-Closing	942.33	856.67	771.00	685.33	599.67
	Average Loan	985.17	899.50	813.83	728.17	642.50
	Rate of Interest	8.60%	8.60%	8.60%	8.60%	8.60%
	Interest	84.72	77.36	69.99	62.62	55.26
	Repayment Schedule	12 Annual Instalments from 08.3.2005				
<b>7</b>	<b>OBC</b>					
	Net Loan-Opening	1616.00	1481.33	1346.67	1212.00	1077.33
	Repayment during the year	134.67	134.67	134.67	134.67	134.67
	Net Loan-Closing	1481.33	1346.67	1212.00	1077.33	942.67
	Average Loan	1548.67	1414.00	1279.33	1144.67	1010.00
	Rate of Interest	8.60%	8.60%	8.60%	8.60%	8.60%
	Interest	133.19	121.60	110.02	98.44	86.86
	Repayment Schedule	12 Annual Instalments from 22.03.2005				
<b>8</b>	<b>KFW ECA- Hermes (Fixed)</b>					

	Net Loan-Opening	16426.72	14697.59	12968.46	11239.33	9510.20
	Repayment during the year	1729.13	1729.13	1729.13	1729.13	1729.13
	Net Loan-Closing	14697.59	12968.46	11239.33	9510.20	7781.07
	Average Loan	15562.16	13833.02	12103.89	10374.76	8645.63
	Rate of Interest	3.91450%	3.91450%	3.91450%	3.91450%	3.91450%
	Interest	609.18	541.49	473.81	406.12	338.43
	Repayment Schedule	Half yearly Instalments for 10 years from 31.03.2004				
<b>9</b>	<b>KFW Hermes (Floating)</b>					
	Net Loan-Opening	2658.79	2378.92	2099.05	1819.18	1539.32
	Repayment during the year	279.87	279.87	279.87	279.87	279.87
	Net Loan-Closing	2378.92	2099.05	1819.18	1539.32	1259.45
	Average Loan	2518.85	2238.99	1959.12	1679.25	1399.38
	Rate of Interest	0.67%	0.67%	0.67%	0.67%	0.67%
	Interest	16.94	15.06	13.18	11.29	9.41
	Repayment Schedule	Half yearly Instalments for 10 years from 31.03.2004				
<b>10</b>	<b>KFW Commercial (Fixed)</b>					
	Net Loan-Opening	3142.48	2811.70	2480.91	2150.13	1819.34
	Repayment during the year	330.78	330.78	330.78	330.78	330.78
	Net Loan-Closing	2811.70	2480.91	2150.13	1819.34	1488.56
	Average Loan	2977.09	2646.31	2315.52	1984.74	1653.95
	Rate of Interest	5.54029%	5.54029%	5.54029%	5.54029%	5.54029%
	Interest	164.94	146.61	128.29	109.96	91.63
	Repayment Schedule	Half yearly Instalments for 10 years from 31.03.2004				
<b>11</b>	<b>KFW Commercial (Floating)</b>					
	Net Loan-Opening	831.11	743.62	656.13	568.65	481.16
	Repayment during the year	87.49	87.49	87.49	87.49	87.49
	Net Loan-Closing	743.62	656.13	568.65	481.16	393.67
	Average Loan	787.36	699.88	612.39	524.90	437.41
	Rate of Interest	1.5125%	1.5125%	1.5125%	1.5125%	1.5125%
	Interest	11.91	10.59	9.26	7.94	6.62
	Repayment Schedule	Half yearly Instalments for 10 years from 31.03.2004				
	<b>Total Loan</b>					
	Net Loan-Opening	49550.50	46249.96	42636.51	37938.47	33240.43
	Repayment during the year	3300.54	3613.45	4698.04	4698.04	4698.04
	Net Loan-Closing	46249.96	42636.51	37938.47	33240.43	28542.39
	Average Loan	47900.23	44443.23	40287.49	35589.45	30891.41
	Rate of Interest	6.8406%	6.9270%	6.9957%	7.0566%	7.1360%
	<b>Interest</b>	3276.65	3078.58	2818.39	2511.40	2204.41

## Annexure-IA

### CALCULATION OF WEIGHTED AVERAGE RATE OF INTEREST ON LOAN

400 KV D/C Kolar-Hossur Transmission line along with associated bays at kolar and Hosur

(Rs. in Lakh)

	Details of Loan	2004-05	2005-06	2006-07	2007-08	2008-09
<b>1</b>	<b>Bond-IX</b>					
	Net Loan-Opening	305.10	271.20	237.30	203.40	169.50
	Repayment during the year	33.90	33.90	33.90	33.90	33.90
	Net Loan-Closing	271.20	237.30	203.40	169.50	135.60
	Average Loan	288.15	254.25	220.35	186.45	152.55
	Rate of Interest	12.25%	12.25%	12.25%	12.25%	12.25%
	Interest	35.30	31.15	26.99	22.84	18.69
	Repayment Schedule	10 Annual instalments from 22.08.2003				
<b>2</b>	<b>Bond-X</b>					
	Net Loan-Opening	644.00	590.33	536.67	483.00	429.33
	Repayment during the year	53.67	53.67	53.67	53.67	53.67
	Net Loan-Closing	590.33	536.67	483.00	429.33	375.67
	Average Loan	617.17	563.50	509.83	456.17	402.50
	Rate of Interest	10.90%	10.90%	10.90%	10.90%	10.90%
	Interest	67.27	61.42	55.57	49.72	43.87
	Repayment Schedule	12 Annual instalments from 21-6-2004				
<b>3</b>	<b>Bond- XI Option 1</b>					
	Net Loan-Opening	470.00	470.00	430.83	391.67	352.50
	Repayment during the year	0.00	39.17	39.17	39.17	39.17
	Net Loan-Closing	470.00	430.83	391.67	352.50	313.33
	Average Loan	470.00	450.42	411.25	372.08	332.92
	Rate of Interest	9.80%	9.80%	9.80%	9.80%	9.80%
	Interest	46.06	44.14	40.30	36.46	32.63
	Repayment Schedule	12 Annual instalments from 7-12-2005				
<b>4</b>	<b>Bond- XII</b>					
	Net Loan-Opening	33.00	33.00	30.25	27.50	24.75
	Repayment during the year	0.00	2.75	2.75	2.75	2.75
	Net Loan-Closing	33.00	30.25	27.50	24.75	22.00
	Average Loan	33.00	31.63	28.88	26.13	23.38
	Rate of Interest	9.70%	9.70%	9.70%	9.70%	9.70%
	Interest	3.20	3.07	2.80	2.53	2.27
	Repayment Schedule	12 Annual Instalments from 28.3.2006				
<b>5</b>	<b>Bond- XIII Option 1</b>					
	Net Loan-Opening	1210.00	1210.00	1210.00	1109.17	1008.33
	Repayment during the year	0.00	0.00	100.83	100.83	100.83
	Net Loan-Closing	1210.00	1210.00	1109.17	1008.33	907.50
	Average Loan	1210.00	1210.00	1159.58	1058.75	957.92
	Rate of Interest	8.63%	8.63%	8.63%	8.63%	8.63%
	Interest	104.42	104.42	100.07	91.37	82.67
	Repayment Schedule	12 annual inatalments from 31-7-2006				
<b>6</b>	<b>PNB-II</b>					
	Net Loan-Opening	627.00	574.75	522.50	470.25	418.00
	Repayment during the year	52.25	52.25	52.25	52.25	52.25
	Net Loan-Closing	574.75	522.50	470.25	418.00	365.75
	Average Loan	600.88	548.63	496.38	444.13	391.88
	Rate of Interest	8.60%	8.60%	8.60%	8.60%	8.60%
	Interest	51.68	47.18	42.69	38.19	33.70
	Repayment Schedule	12 Annual Instalments from 8.3.2005				
	Net Loan-Opening	624.00	572.00	520.00	468.00	416.00
	Repayment during the year	52.00	52.00	52.00	52.00	52.00
	Net Loan-Closing	572.00	520.00	468.00	416.00	364.00
	Average Loan	598.00	546.00	494.00	442.00	390.00

Rate of Interest	8.60%	8.60%	8.60%	8.60%	8.60%
Interest	51.43	46.96	42.48	38.01	33.54
Repayment Schedule	12 Annual Instalments from 22.3.2005				
<b>Total Loan</b>					
Net Loan-Opening	3913.10	3721.28	3487.55	3152.98	2818.42
Repayment during the year	191.82	233.73	334.57	334.57	334.57
Net Loan-Closing	3721.28	3487.55	3152.98	2818.42	2483.85
Average Loan	3817.19	3604.42	3320.27	2985.70	2651.13
Rate of Interest	9.4142%	9.3867%	9.3641%	9.3491%	9.3304%
<b>Interest</b>	359.36	338.34	310.91	279.14	247.36

## Annexure-II

Summary Sheet			
<b>Name of the Company:</b>	PGCIL		
<b>Name of the Element:</b>	Talcher HVDC Terminal stations at Talcher and Kolar related with Pole-II		
<b>Actual DOCO:</b>	1.3.2003		
<b>Petition No.:</b>	127/2005		
<b>Tariff setting Period:</b>	2004-09		
(Rs.in lakh)			
<b>1</b>	<b>Capital Cost of the Project as on DOCO</b>		<b>64872.07</b>
<b>2</b>	<b>Additional Capitalization during 2001-04(works)</b>		<b>1741.87</b>
	For the year 2002-03	1731.49	
	For the year 2003-04	10.38	
	Total	1741.87	
<b>3</b>	<b>Additional Capitalization during 2001-04 (FERV)</b>		<b>(-)341.71</b>
	For the year 2002-03	(-)126.03	
	For the year 2003-04	(-)215.68	
	Total	(-)341.71	
<b>4</b>	<b>Total Capital Cost as on 1.4.2004(1+2+3)</b>		<b>66272.23</b>

5	<b>Additional Capitalization during 2004-09</b>				<b>41.39</b>
	For the year 2004-05				41.39
	Total				
6	<b>Admitted Capital Cost as on 1.4.2005(4+5)</b>				<b>66313.62</b>
7	<b>Means of Finance :</b>				
		<b>As on 1-4-2004</b>		<b>As on 1-4-2005</b>	
	Debt	80.00%	53017.78	80.00%	53050.90
	Equity	20.00%	13254.45	20.00%	13262.72
	Total	100.00%	66272.23	100.00%	66313.62
8	<b>Gross Loan</b>				
	<b>As on</b>		<b>1.4.2004</b>	<b>1.4.2005</b>	
			<b>53017.78</b>	<b>53050.90</b>	
9	<b>Cumulative Repayment up to 31.3.2009 :</b>				<b>23431.17</b>
	Repaid up to 31.3.2004			<b>1583.87</b>	
	1.4.2001 to 31.3.2004 (ACE & FERV)			48.61	
	1.4.2004 to 31.3.2009			21798.69	
	Total			23431.17	
10	<b>Balance Loan to be repaid beyond 31.03.2009 :</b>				<b>29619.72</b>
11	<b>Depreciation recovered up to 31.03.09 :</b>				<b>23431.17</b>
		<b>Dep</b>	<b>AAD</b>	<b>Total</b>	
	Recovered up to 31.3.2004	2531.43	0.00	2531.43	
	1.4.2001 to 31.3.2004 (ACE & FERV)	(-)8.61	0.00	(-)8.61	
	1.4.2004 to 31.03.2009	11945.01	8963.34	20908.35	
	Total			23431.17	
12	<b>Balance Depreciation to be recovered beyond 31.03.2009 :</b>				<b>36251.08</b>
	<b>Capital cost for the purpose of Depreciation</b>			<b>64872.07</b>	
	<b>ACE + FERV during 2001-04</b>			<b>1400.16</b>	
	<b>Capital cost as 1.4.2004</b>			<b>66272.23</b>	
	<b>ACE during 2004-05</b>			<b>41.39</b>	
	<b>Capital cost as 1.4.2005</b>			<b>66313.62</b>	
	<b>Less: Land Cost</b>			<b>0.00</b>	
				<b>66313.62</b>	
	<b>90% of Capital Cost as above</b>			<b>59682.26</b>	
	<b>Cum. Depreciation to be recovered upto 31.03.09</b>			<b>23431.17</b>	
	<b>Balance Depreciation to be recovered beyond 31.03.09</b>			<b>36251.08</b>	

## Annexure-IIA

Summary Sheet				
<b>Name of the Company:</b>		PGCIL		
<b>Name of the Element:</b>		400 KV D/C Kolar- Hosur Line along with associated bays at Kolar and Hosur		
<b>Actual DOCO:</b>		1/4/2003		
<b>Petition No.:</b>		127/2005		
<b>Tariff setting Period:</b>		2004-09		
(Rs.in lakh)				
1	<b>Capital Cost of the Project as on DOCO</b>			<b>5246.92</b>
2	<b>Additional Capitalization during 2003-04</b>			69.16
3	<b>Admitted Capital Cost as on 1.4.2004 (1+2)</b>			<b>5316.08</b>
4	<b>Additional Capitalization during 2004-09</b>			1.20
	For the year 2004-05		1.20	
	Total		1.20	
5	<b>Admitted Capital Cost as on 1.4.2005(3+4)</b>			<b>5317.28</b>

<b>6</b>	<b>Means of Finance :</b>					
			<b>As on 1-4-2004</b>		<b>As on 1-4-2005</b>	
	Debt		75.55%	4016.16	75.55%	4017.12
	Equity		24.45%	1299.92	24.45%	1300.16
	Total		100.00%	5316.08	100.00%	5317.28
<b>7</b>	<b>Gross Loan</b>					
	<b>As on 1.4.2004</b>	<b>4016.16</b>	<b>As on 1.4.2005</b>		<b>4017.12</b>	
<b>8</b>	<b>Cumulative Repayment up to 31.3.2009 :</b>					<b>1489.11</b>
	Repaid up to 31.3.2004					34.49
	1.4.2004 to 31.3.2005					195.18
	1.4.2005 to 31.3.2009					1259.44
	Total					1489.11
<b>9</b>	<b>Balance Loan to be repaid beyond 31.3.2009 :</b>					<b>2528.01</b>
<b>10</b>	<b>Depreciation recovered up to 31.3.2009 :</b>					<b>1489.11</b>
		<b>Dep</b>			<b>AAD</b>	<b>Total</b>
	Recovered up to 31.3.2004	136.28			0.00	136.28
	1.4.2004 to 31.3.2005	138.53			0.00	138.53
	1.4.2005 to 31.3.2009	554.20			660.10	1214.29
	Total					1489.11
<b>11</b>	<b>Balance Depreciation to be recovered beyond 31.3.2009 :</b>					<b>3243.46</b>
	<b>Capital cost for the purpose of Depreciation</b>					<b>5246.92</b>
	<b>ACE during 2003-04</b>					<b>69.16</b>
	<b>Capital cost as 1.4.2004</b>					<b>5316.08</b>
	<b>ACE during 2004-05</b>					<b>1.20</b>
	<b>Capital cost as 1.4.2005</b>					<b>5317.28</b>
	<b>Less: Land Cost</b>					<b>58.87</b>
						<b>5258.41</b>
	<b>90% of Capital Cost as above</b>					<b>4732.57</b>
	<b>Cum. Depreciation to be recovered up to 31.3.2009</b>					<b>1489.11</b>
	<b>Balance Depreciation to be recovered beyond 31.3.2009</b>					<b>3243.46</b>