

**CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

**Coram**

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

**In the matter of**

**Petition No. 77/2004**

Approval of tariff in respect of transmission system associated with RAPP-B Project in Northern Region for the period from 1.4.2004 to 31.3.2009.

**In the matter of**

**Petition No. 82/2004**

Approval of tariff in respect of transmission system associated with Unchahar Stage – II in Northern Region for the period from 1.4.2004 to 31.3.2009.

**In the matter of**

**Petition No. 84/2004**

Approval of tariff in respect of Kishenpur -Moga transmission system in Northern Region for the period from 1.4.2004 to 31.3.2009 and Additional Capitalisation.

**In the matter of**

**Petition No. 131/2005**

Approval of tariff in respect of 400 kV Nathpa Jhakri transmission system in Northern Region for the period from 1.4.2004 to 31.3.2009 and Additional Capitalisation.

**And in the matter of**

Power Grid Corporation of India Ltd., Gurgaon

**.... Petitioner**

Vs

1. Rajasthan Rajya Vidyut Prasaran Nigam Ltd., Jaipur
2. Ajmer Vidyut Vitaran Nigam Ltd., Ajmer
3. Jaipur Vidyut Vitaran Nigam Ltd., Jaipur
4. Jodhpur Vidyut Vitaran Nigam Ltd., Jodhpur

5. Himachal Pradesh State Electricity Board, Shimla
6. Punjab State Electricity Board, Patiala
7. Haryana Vidyut Prasaran Nigam Ltd., Panchkula
8. Power Development Deptt. Govt of Jammu & Kashmir, Jammu
9. Uttar Pradesh Power Corporation Ltd., Lucknow
10. Delhi Transmission Corporation Ltd, New Delhi
11. Chief Engineer & Secy, Engineering Deptt. Chandigarh
12. Uttaranchal Power Corporation Ltd, Dehradun

.....Respondents

**In the matter of**

**Petition No. 97/2004**

Approval of tariff in respect transmission system associated with Faridabad Gas Based Combined Cycle Power Project in Northern Region for the period from 1.4.2004 to 31.3.2009 and Additional Capitalisation during 2001-04.

**And in the matter of**

Power Grid Corporation of India Ltd., Gurgaon

.... **Petitioner**

Vs

Haryana Vidyut Prasaran Nigam Ltd., Panchkula

.....**Respondent**

## **ORDER**

In these petitions, the petitioner, Power Grid Corporation of India Limited, had sought approval of tariff in respect of its various transmission assets in Northern Region for the period from 1.4.2004 to 31.3.2009, based on the Central Electricity Regulatory Commission (Terms & Conditions of Tariff) Regulations 2004 (hereinafter referred to as "the 2004 regulations"). On completion of pleadings and after hearing the parties, final tariff in respect of these assets was awarded by different orders. The details of capital cost, equity considered at the time of award of tariff and the summary of the tariff

awarded in each case are given in the Annexures I to V attached. While awarding tariff, the Commission adopted capital cost, loan, equity, etc considered for determination of tariff for the period 1.4.2001 to 31.3.2004. Also, FERV for the period up to 31.3.2004 was capitalized and apportioned between debt and equity in the same ratio as considered for the period 1.4.2001 to 31.3.2004.

2. Tamil Nadu Electricity Board (TNEB) filed Appeal No. 135/2005 in the Appellate Tribunal for Electricity against order dated 30.6.2006 of the Commission in Petition No 40/2002, vide which while fixing transmission tariff in respect of 400 kV D/C Kaiga-Sirsi transmission line along with associated bays for the period 1.4.2001 to 31.3.2004, the methodology similar to that adopted in respect of the various transmission assets was followed as regards apportionment of FERV into debt and equity. TNEB had, *inter alia*, questioned the methodology of bifurcation of FERV into debt and equity for the purpose of tariff determination. This appeal, as also some other linked appeals were disposed of by the Appellate Tribunal through a common judgment dated 4.10.2006. The Tribunal vide its judgment dated 4.10.2006 held as under:

“16. According to Explanation 1 to clause 4.4 (c), the premium raised by the Transmission Utility while issuing share capital and investment of internal resources created out of free reserve of the existing utility, if any, for the funding of the project, shall also be reckoned as paid up capital for the purpose of computing the return on equity subject to fulfillment of certain conditions. Explanation also makes no provision for increasing the equity beyond 50% of the book value of the transmission system. Once the fixed cost has been agreed to be financed in a certain ratio of debt and equity, the equity can be affected by FERV only if the equity is in foreign exchange. The provision of FERV as a pass through has been kept to ensure that any liability or gain, if any, arising on account of any variation in foreign exchange rates (whether debt or equity) is passed on to the beneficiary. In case there is no FERV liability or gain, as the case may be, there will not be any FERV adjustment. In the instant case the additional liability arising on account of

FERV shall have an impact only on the debt liability and not equity capital. In this view of the matter, we hold that FERV adjustment is to be made in respect of debt liability and not in respect of the equity. Accordingly, we hold that the CERC is only to make adjustment in respect of debt liability and not in respect of the equity.

17. In view of the aforesaid discussion, the appeal is partly allowed to the extent indicated above. The Central Electricity Regulatory Commission shall re-calculate the effect of FERV on the debt liability.“

3. In terms of judgment dated 4.10.2006 of the Appellate Tribunal in Appeal No 135 of 2005 and other related appeals, addition of notional equity on account of FERV is not to be considered for computation of return on equity. As a consequence, the entire amount of FERV forms part of loan.

4. The above decision was reiterated by the Appellate Tribunal in its judgment dated 22.12.2006 in Appeal No 161 Of 2006 (M.P. State Electricity Board Vs. Power grid Corporation of India and Others) which related to transmission tariff for Vindhyaachal Stage - I Additional Transmission System in Western Region for the period 1.4.2001 to 31.3.2004.

5. Further, North Eastern Electric Power Corporation Ltd. (NEEPCO) filed Appeal No. 159 of 2005 before the Appellate Tribunal for Electricity which was disposed of vide judgment dated 31.10.2007. The Appellate Tribunal vide the above judgment held, *inter alia*, that interest on loan capital should be determined based on normative debt repayment formula. A similar methodology has been decided by the Appellate Tribunal in some of the appeals filed by NTPC Ltd.

6. The above rulings of the Appellate Tribunal, on the question of apportionment of FERV and computation of interest on loan have been

considered to be judgments in *rem* and thereby have been applied in all cases of similar nature to re-calculate the transmission charges.

7. Accordingly, the transmission charges for the period 1.4.2001 to 31.3.2004 for the transmission assets covered in the present order have been revised by order dated 8.2.2008. The revised transmission charges allowed for the said period are also incorporated in the Annexures I to V attached, separately for each asset.

8. In the light of the forgoing discussion, the transmission charges for the transmission assets forming subject-matter of the present order for the period 2004-09 are also being revised, and the revised transmission charges are summarized in the annexures. It is to be noted that there is no change in O & M component of the tariff because this was allowed on normative basis for per km line length and per bay. O & M charges already approved, therefore, hold good. Other components of tariff (except depreciation), including Advance Against Depreciation, wherever applicable, already allowed have been recalculated.

9. The petitioner shall adjust the balance amount recoverable/refundable, as the case may be, against the future bills within six months, from the date of this order.

10. It is brought out that but for revision of debt and equity in line with the Appellate Tribunal's judgments dated 4.10.2006 and 31.10.2007, and computation of interest on loan in accordance with the methodology decided by the Appellate Tribunal in the order dated 31.10.2007 *ibid.* generally the

methodology considered for re-computation of the transmission charges is the same as originally considered.

11. The revision of tariff allowed is subject to decision of the Hon`ble Supreme Court in the appeals filed by the petitioner against the Appellate Tribunal's judgment dated 4.10.2006.

**Sd/  
(R KRISHNAMOORTHY)  
MEMBER  
New Delhi dated 19<sup>th</sup> May 2008**

**Sd/  
(BHANU BHUSHAN)  
MEMBER**

## Annexure-I

1. Petition No. 77/2004
2. Subject: Approval of transmission charges for the transmission system associated with RAPP-B Project in Northern Region for the period from 1.4.2004 to 31.3.2009.
3. Date of order of approval of tariff: 13.1.2006
4. **Original order**

(a) Computation of capital cost

(Rs.in lakh)			
Name of the Element	Admitted capital cost as on 31.3.2004	FERV for the period 1.4.2001 to 31.3.2004	Total Capital expenditure
(i) 220 kV S/C RAPP B-Udaipur transmission line with associated bays at Udaipur end and LILO of 220 kV D/C RAPP A-Kota line at RAPP-B including PLCC system	4624.50	(-)17.60	4606.89
(ii) 220 KV S/C RAPP B-Anta transmission line with associated bays at Anta end	2181.05	(-)10.07	2170.97
(iii) 220 KV D/C RAPP-B – Chittorgarh transmission line with associated bays at Chittorgarh end	4211.05	0.00	4211.05
<b>Total</b>	11016.60	(-)27.66	10988.94

(b) Computation of equity

(Rs. in lakh)

	Equity as per previous order	Notional equity arising out of FERV during 2001-04	Total equity
220 kV S/C RAPP B-Udaipur transmission line with associated bays at Udaipur end and LILO of 220 kV D/C RAPP A-Kota line at RAPP-B including PLCC system	407.26	0.00	407.26
220 KV S/C RAPP B-Anta transmission line with associated bays at Anta end	469.88	(-) 10.07	459.80
220 KV D/C RAPP-B – Chittorgarh transmission line with associated bays at Chittorgarh end	1215.05	0.00	1215.05

(c) Computation of interest on loan

(i) 220 kV S/C RAPP B-Udaipur transmission line with associated bays at Udaipur end and LILO of 220 kV D/C RAPP A-Kota line at RAPP-B including PLCC system

(Rs. in lakh)

Details of loan	Up to 31.3.2004	2004-05	2005-06	2006-07	2007-08	2008-09
Interest on loan						
Gross Loan as on 1.4.2001	4217.24					
Addition due to Additional Capitalisation	0.00					
Addition due to FERV	(-)17.60					
Gross Normative Loan	4199.64	4199.64	4199.64	4199.64	4199.64	4199.64
Cumulative Repayment up to Previous Year		2609.08	2846.08	3083.08	3320.08	3557.08
Net Loan-Opening		1590.56	1353.56	1116.56	879.56	642.56
Repayment during the year		237.00	237.00	237.00	237.00	175.65
Net Loan-Closing		1353.56	1116.56	879.56	642.56	466.91
Average Loan		1472.06	1235.06	998.06	761.06	554.74
Weighted Average Rate of Interest on Loan		8.63%	8.39%	8.03%	7.45%	6.74%
Interest		127.06	103.60	80.13	56.67	37.39

(ii) 220 kV S/C RAPP B-Anta transmission line with associated bays at Anta end

(Rs. in lakh)

Details of loan	Up to 31.3.2004	2004-05	2005-06	2006-07	2007-08	2008-09
Interest on loan						
Gross Loan as on 1.4.2001	1711.17					
Addition due to Additional Capitalisation	0.00					
Addition due to FERV	0.00					
Gross Normative Loan	1711.17	1711.17	1711.17	1711.17	1711.17	1711.17
Cumulative Repayment up to Previous Year		745.50	847.44	964.30	1081.17	1198.04
Net Loan-Opening		965.67	863.73	746.86	630.00	513.13
Repayment during the year		101.94	116.87	116.87	116.87	100.12
Net Loan-Closing		863.73	746.86	630.00	513.13	413.01
Average Loan		914.70	805.30	688.43	571.56	463.07
Weighted Average Rate of Interest on Loan		9.40%	8.77%	8.42%	8.17%	7.89%
Interest		85.95	70.60	57.99	46.69	36.53



(iii) 220 KV D/C RAPP-B – Chittorgarh transmission line with associated bays at Chittorgarh end

(Rs. in lakh)

Details of loan	Up to 31.3.2004	2004-05	2005-06	2006-07	2007-08	2008-09
Interest on loan						
Gross Loan as on 1.4.2001	2996.00					
Addition due to Additional Capitalisation	0.00					
Addition due to FERV	0.00					
Gross Normative Loan	2996.00	2996.00	2996.00	2996.00	2996.00	2996.00
Cumulative Repayment up to Previous Year		2558.57	2673.33	2788.10	2902.87	2996.00
Net Loan-Opening		437.43	322.67	207.90	93.13	0.00
Repayment during the year		114.77	114.77	114.77	93.13	0.00
Net Loan-Closing		322.67	207.90	93.13	0.00	0.00
Average Loan		380.05	265.28	150.52	46.57	0.00
Weighted Average Rate of Interest on Loan		10.51%	10.60%	10.76%	11.06%	11.86%
Interest		39.93	28.13	16.20	5.15	0.00

(d) Summary of the transmission charges awarded

(Rs. in lakh)

	220 kV S/C RAPP B-Udaipur transmission line with associated bays at Udaipur end and LILO of 220 kV D/C RAPP A-Kota line at RAPP-B including PLCC system					220 kV S/C RAPP B-Anta transmission line with associated bays at Anta end					220 KV D/C RAPP-B – Chittorgarh transmission line with associated bays at Chittorgarh end				
	2004-05	2005-06	2006-07	2007-08	2008-09	2004-05	2005-06	2006-07	2007-08	2008-09	2004-05	2005-06	2006-07	2007-08	2008-09
Depreciation	125.06	125.06	125.06	125.06	125.06	60.34	60.34	60.34	60.34	60.34	114.77	114.77	114.77	114.77	91.11
Interest on Loan	127.06	103.60	80.13	56.67	37.39	85.95	70.60	57.99	46.69	36.53	39.93	28.13	16.20	5.15	0.00
Return on Equity	57.02	57.02	57.02	57.02	57.02	64.37	64.37	64.37	64.37	64.37	170.11	170.11	170.11	170.11	170.11
Advance against Depreciation	111.94	111.94	111.94	111.94	50.58	41.60	56.53	56.53	56.53	39.78	0.00	0.00	0.00	0.00	0.00
Interest on Working Capital	15.57	15.61	15.68	15.78	14.91	8.44	8.65	8.66	8.71	8.50	14.66	14.94	15.24	15.58	15.65
O & M Expenses	80.40	83.60	87.07	90.36	94.16	47.87	49.78	51.82	53.82	56.04	114.73	119.31	124.22	128.96	134.34
Total	517.05	496.83	476.90	456.82	379.13	308.57	310.27	299.72	290.46	265.57	454.20	447.25	440.53	434.56	411.21

## 5. Revised tariff for the period 2001-04

- (a) Date of order: 8.2.2008 in Petition No. 50/2002
- (b) Equity and return on equity

(Rs. in lakh)

	220 kV S/C RAPP B-Udaipur line with associated bays at Udaipur end and 220 kV D/C LILO of RAPP A-Kota line at RAPP-B including PLCC system			220 KV S/C RAPP B-Anta Transmission line with associated bays at Anta end		
	2001-2002	2002-2003	2003-2004	2001-2002	2002-2003	2003-2004
Equity	405.40	405.40	405.40	468.46	468.46	468.46
Return on Equity	64.86	64.86	64.86	74.95	74.95	74.95

## (c) Computation of interest on loan

(Rs. in lakh)

	220 kV S/C RAPP B-Udaipur line with associated bays at Udaipur end and 220 kV D/C LILO of RAPP A-Kota line at RAPP-B including PLCC system			220 KV S/C RAPP B-Anta Transmission line with associated bays at Anta end		
<b>Interest on Loan</b>	<b>2001-02</b>	<b>2002-03</b>	<b>2003-04</b>	<b>2001-02</b>	<b>2002-03</b>	<b>2003-04</b>
Gross Loan –Opening	4219.10	4219.10	4219.10	1712.59	1712.59	1712.59
Cumulative Repayment up to Previous Year	0.00	2385.00	2402.10	0.00	651.00	655.70
Net Loan-Opening	4219.10	1834.10	1817.00	1712.59	1061.59	1056.89
Repayment during the year	2385.00	17.10	212.83	651.00	4.70	89.80
Net Loan-Closing	1834.10	1817.00	1604.16	1061.59	1056.89	967.09
<b>Interest</b>	<b>436.09</b>	<b>194.91</b>	<b>177.55</b>	<b>179.09</b>	<b>113.22</b>	<b>105.85</b>

**6. Revised tariff computation for the period 2004-09**

## (a) Equity and return on equity

(Rs. in lakh)

	220 kV S/C RAPP B-Udaipur line with associated bays at Udaipur end and 220 kV D/C LILO of RAPP A-Kota line at RAPP-B including PLCC system	220 KV S/C RAPP B-Anta Transmission line with associated bays at Anta end
Revised Equity as on 31.3.2004	405.40	468.46
Addition due to Additional Capitalisation during 2001-04	0.00	0.00
Addition due to FERV during 2001-04	0.00	0.00
Total Equity	405.40	468.46
Return on Equity each year	56.76	65.58

## (b) Interest on loan

(i) 220 kV S/C RAPP B-Udaipur line with associated bays at Udaipur end and 220 kV D/C LILO of RAPP A-Kota line at RAPP-B including PLCC system

(Rs. in lakh)

Details of loan		2004-05	2005-06	2006-07	2007-08	2008-09
Gross Loan as on 31.3.2001	4219.10					
Addition due to Additional Capitalisation during 2001-04	0.00					
Addition due to FERV during 2001-04	(-) 17.60					
Gross Normative Loan as on 31.3.2004	4201.49	4201.49	4201.49	4201.49	4201.49	4201.49

Cumulative Repayment upto Previous Year		2619.97	2855.62	3091.28	3326.93	3562.58
Net Loan-Opening		1581.52	1345.87	1110.22	874.56	638.91
Repayment during the year		235.65	235.65	235.65	235.65	174.65
Net Loan-Closing		1345.87	1110.22	874.56	638.91	464.26
Average Loan		1463.70	1228.04	992.39	756.74	551.59
Weighted Average Rate of Interest on Loan		8.6317%	8.3882%	8.0290%	7.4462%	6.7400%
Interest		126.34	103.01	79.68	56.35	37.18

(ii) 220 KV S/C RAPP B-Anta Transmission line with associated bays at Anta end

(Rs. in lakh)

Details of loan		2004-05	2005-06	2006-07	2007-08	2008-09
Gross Loan as on 31.3.2001	1712.59					
Addition due to Additional Capitalisation during 2001-04	0.00					
Addition due to FERV during 2001-04	-10.07					
Gross Normative Loan as on 31.3.2004	1702.51	1702.51	1702.51	1702.51	1702.51	1702.51
Cumulative Repayment upto Previous Year		747.48	848.30	963.88	1079.46	1195.03
Net Loan-Opening		955.03	854.22	738.64	623.06	507.48
Repayment during the year		100.81	115.58	115.58	115.58	99.02
Net Loan-Closing		854.22	738.64	623.06	507.48	408.46
Average Loan		904.62	796.43	680.85	565.27	457.97
Weighted Average Rate of Interest on Loan		9.3967%	8.7667%	8.4240%	8.1692%	7.8895%
Interest		85.01	69.82	57.35	46.18	36.13

(c) Advance Against Depreciation

(Rs. in lakh)

	220 kV S/C RAPP B-Udaipur line with associated bays at Udaipur end and 220 kV D/C LILO of RAPP A-Kota line at RAPP-B including PLCC system					220 KV S/C RAPP B-Anta Transmission line with associated bays at Anta end				
	2004-05	2005-06	2006-07	2007-08	2008-09	2004-05	2005-06	2006-07	2007-08	2008-09
1/10th of Gross loan(s)	420.15	420.15	420.15	420.15	420.15	170.25	170.25	170.25	170.25	170.25
Repayment of loan during the year	235.65	235.65	235.65	235.65	174.65	100.81	115.58	115.58	115.58	99.02
Minimum of the above	235.65	235.65	235.65	235.65	174.65	100.81	115.58	115.58	115.58	99.02
Depreciation during the year	125.06	125.06	125.06	125.06	125.06	60.34	60.34	60.34	60.34	60.34
(A) Difference	110.59	110.59	110.59	110.59	49.59	40.47	55.24	55.24	55.24	38.68
Cumulative repayment of the loan	2855.62	3091.28	3326.93	3562.58	3737.23	848.30	963.88	1079.46	1195.03	1294.05
Cumulative Depreciation/ Advance against Depreciation	1137.22	1372.88	1608.53	1844.18	2079.84	436.99	537.81	653.39	768.97	884.55

(B) Difference	1718.40	1718.40	1718.40	1718.40	1657.40	411.30	426.07	426.07	426.07	409.51
Advance against Depreciation Minimum of (A) and (B)	110.59	110.59	110.59	110.59	49.59	40.47	55.24	55.24	55.24	38.68

(d) Interest on Working Capital

(Rs. in lakh)

	220 kV S/C RAPP B-Udaipur line with associated bays at Udaipur end and 220 kV D/C LILO of RAPP A-Kota line at RAPP-B including PLCC system					220 KV S/C RAPP B-Anta Transmission line with associated bays at Anta end				
	2004-05	2005-06	2006-07	2007-08	2008-09	2004-05	2005-06	2006-07	2007-08	2008-09
Maintenance Spares	58.99	62.53	66.28	70.26	74.47	26.93	28.55	30.26	32.08	34.00
O & M expenses	6.70	6.97	7.26	7.53	7.85	3.99	4.15	4.32	4.49	4.67
Receivables	85.78	82.43	79.13	75.81	62.94	51.28	51.57	49.83	48.31	44.21
Total	151.47	151.93	152.67	153.60	145.26	82.21	84.27	84.41	84.87	82.89
Rate of interest	10.25%	10.25%	10.25%	10.25%	10.25%	10.25%	10.25%	10.25%	10.25%	10.25%
<b>Interest</b>	<b>15.53</b>	<b>15.57</b>	<b>15.65</b>	<b>15.74</b>	<b>14.89</b>	<b>8.43</b>	<b>8.64</b>	<b>8.65</b>	<b>8.70</b>	<b>8.50</b>

(e) Revised Annual Transmission charges

(Rs. in lakh)

	220 kV S/C RAPP B-Udaipur line with associated bays at Udaipur end and 220 kV D/C LILO of RAPP A-Kota line at RAPP-B including PLCC system					220 KV S/C RAPP B-Anta Transmission line with associated bays at Anta end				
	2004-05	2005-06	2006-07	2007-08	2008-09	2004-05	2005-06	2006-07	2007-08	2008-09
Depreciation	125.06	125.06	125.06	125.06	125.06	60.34	60.34	60.34	60.34	60.34
Interest on Loan	126.34	103.01	79.68	56.35	37.18	85.01	69.82	57.35	46.18	36.13
Return on Equity	56.76	56.76	56.76	56.76	56.76	65.58	65.58	65.58	65.58	65.58
Advance against Depreciation	110.59	110.59	110.59	110.59	49.59	40.47	55.24	55.24	55.24	38.68
Interest on Working Capital	15.53	15.57	15.65	15.74	14.89	8.43	8.64	8.65	8.70	8.50
O & M Expenses	80.40	83.60	87.07	90.36	94.16	47.87	49.78	51.82	53.82	56.04
<b>Total</b>	<b>514.68</b>	<b>494.59</b>	<b>474.81</b>	<b>454.86</b>	<b>377.63</b>	<b>307.70</b>	<b>309.40</b>	<b>298.99</b>	<b>289.86</b>	<b>265.27</b>

Note: Since 220 kV D/C RAPP-B Chittorgarh transmission line does not involve FERV, tariff in respect of this transmission line has not been revised and, therefore for this transmission line tariff approved by order dated 13.1.2006 shall continue to apply.

## Annexure-II

1. Petition No. 82/2004
2. Subject: Approval of tariff in respect of transmission system associated with Unchahar Stage – II in Northern Region for the period from 1.4.2004 to 31.3.2009.
3. Date of order of approval of tariff: 3.2.2006.
4. **Original order**
  - (a) Computation of capital cost

(Rs.in lakh)

Name of the Element	Admitted capital cost As on 31.3.2004	FERV during 2001-04	Total Capital expenditure
220 kV D/C Unchahar-Kanpur transmission line-I with associated bays	5757.60	(-)189.80	5567.80
220 kV D/C Unchahar-Kanpur transmission line-II with associated bays	5102.90	(-)181.03	4921.87
LILO of one ckt of 220 kV D/C Panki-Mainpuri transmission line	661.29	(-) 22.87	638.42
<b>Total</b>	11531.79	(-)393.70	11128.09

- (b) Computation of equity

(Rs. in lakh)

	Equity as per previous order	Notional equity arising out of FERV during 2001-04	Total equity
220 kV D/C Unchahar-Kanpur transmission line-I with associated bays	267.08	0.00	267.08
220 kV D/C Unchahar-Kanpur transmission line-II with associated bays	90.28	0.00	90.28
LILO of one ckt of 220 kV D/C Panki-Mainpuri transmission line	147.11	(-) 15.78	131.32

## (c) Computation of interest on loan

(Rs. in lakh)

## (i) 220 kV D/C Unchahar-Kanpur transmission line-I with associated bays

Details of loan	Up to 31.3.2004	2004-05	2005-06	2006-07	2007-08	2008-09
Gross Loan as on 1.4.2001	5500.51					
Addition due to Additional Capitalisation	0.00					
Addition due to FERV	(-189.80)					
Gross Normative Loan	5310.71	5310.71	5310.71	5310.71	5310.71	5310.71
Cumulative Repayment up to Previous Year		876.54	1233.90	1609.82	2006.22	2425.19
Net Loan-Opening		4434.17	4076.81	3700.89	3304.49	2885.52
Repayment during the year		357.36	375.93	396.40	418.97	382.85
Net Loan-Closing		4076.81	3700.89	3304.49	2885.52	2502.67
Average Loan		4255.49	3888.85	3502.69	3095.01	2694.10
Weighted Average Rate of Interest on Loan		8.0643%	7.9815%	7.8836%	7.7631%	7.6752%
Interest		343.18	310.39	276.14	240.27	206.78

## (ii) 220 kV D/C Unchahar-Kanpur transmission line-II with associated bays

Details of loan	Up to 31.3.2004	2004-05	2005-06	2006-07	2007-08	2008-09
Gross Loan as on 1.4.2001	5012.62					
Addition due to Additional Capitalisation	0.00					
Addition due to FERV	(-181.03)					
Gross Normative Loan	4831.59	4831.59	4831.59	4831.59	4831.59	4831.59
Cumulative Repayment up to Previous Year		804.48	1110.03	1433.33	1776.20	2140.63
Net Loan-Opening		4027.11	3721.56	3398.26	3055.39	2690.95
Repayment during the year		305.55	323.30	342.87	364.44	342.33
Net Loan-Closing		3721.56	3398.26	3055.39	2690.95	2348.63
Average Loan		3874.33	3559.91	3226.82	2873.17	2519.79
Weighted Average Rate of Interest on Loan		7.9680%	7.8975%	7.8150%	7.7150%	7.6428%
Interest		308.71	281.14	252.18	221.67	192.58

## (iii) LILO of one ckt of 220 kV D/C Panki-Mainpuri transmission line

Details of loan	Up to 31.3.2004	2004-05	2005-06	2006-07	2007-08	2008-09
Gross Loan as on 1.4.2001	514.19					
Addition due to Additional Capitalisation	0.00					
Addition due to FERV	(-7.09)					
Gross Normative Loan	507.10	507.10	507.10	507.10	507.10	507.10
Cumulative Repayment up to Previous Year		79.87	102.62	127.69	155.34	185.82
Net Loan-Opening		427.23	404.48	379.40	351.76	321.27
Repayment during the year		22.75	25.08	27.65	30.48	33.61
Net Loan-Closing		404.48	379.40	351.76	321.27	287.67
Average Loan		415.85	391.94	365.58	336.51	304.47
Weighted Average Rate of Interest on Loan		7.5100%	7.5100%	7.5100%	7.5100%	7.5100%
Interest		31.23	29.43	27.45	25.27	22.87

(d) Summary of the transmission charges awarded

(Rs.in lakh)

	220 kV D/C Unchahar-Kanpur transmission line-I with associated bays					220 kV D/C Unchahar-Kanpur transmission line-II with associated bays					LILO of one ckt of 220 kV D/C Panki-Mainpuri transmission line				
	2004-05	2005-06	2006-07	2007-08	2008-09	2004-05	2005-06	2006-07	2007-08	2008-09	2004-05	2005-06	2006-07	2007-08	2008-09
Depreciation	160.09	160.09	160.09	160.09	160.09	138.71	138.71	138.71	138.71	138.71	19.10	19.10	19.10	19.10	19.10
Interest on Loan	343.18	310.39	276.14	240.27	206.78	308.71	281.14	252.18	221.67	192.58	31.23	29.43	27.45	25.27	22.87
Return on Equity	37.39	37.39	37.39	37.39	37.39	12.64	12.64	12.64	12.64	12.64	18.39	18.39	18.39	18.39	18.39
Advance against Depreciation	0.00	0.00	151.30	258.88	222.76	0.00	90.78	204.15	225.73	203.62	0.00	3.05	8.55	11.38	14.51
Interest on Working Capital	21.35	21.41	24.10	26.04	25.57	19.54	21.24	23.35	23.85	23.67	3.51	3.64	3.81	3.94	4.08
O & M Expenses	177.65	184.76	192.31	199.73	207.97	178.10	185.22	192.79	200.23	208.49	58.60	60.95	63.40	65.91	68.57
<b>Total</b>	<b>739.66</b>	<b>714.04</b>	<b>841.33</b>	<b>922.40</b>	<b>860.56</b>	<b>657.70</b>	<b>729.74</b>	<b>823.82</b>	<b>822.82</b>	<b>779.71</b>	<b>130.82</b>	<b>134.56</b>	<b>140.70</b>	<b>143.99</b>	<b>147.51</b>

5. Revised tariff for the period 2001-04

(a) Date of order: 8.2.2008 in petition No. 68/2002

(b) Equity and return on equity

(Rs. in lakh)

	220 kV D/C Unchahar-Kanpur Transmission Line I with associated bays			220 kV D/C Unchahar-Kanpur Transmission Line II with associated bays			LILO of one circuit of 220 kV D/C Panki-Mainpuri Transmission Line		
	2001-2002	2002-2003	2003-2004	2001-2002	2002-2003	2003-2004	2001-2002	2002-2003	2003-2004
Equity	251.52	251.52	251.52	85.62	85.62	85.62	147.73	147.73	147.73
Return on Equity	40.24	40.24	40.24	13.70	13.70	13.70	23.64	23.64	23.64

(c) Computation of interest on loan

(Rs in lakh)

	220 kV D/C Unchahar-Kanpur Transmission Line I with associated bays			220 kV D/C Unchahar-Kanpur Transmission Line II with associated bays			LILO of one circuit of 220 kV D/C Panki-Mainpuri Transmission Line		
	2001-02	2002-03	2003-04	2001-02	2002-03	2003-04	2001-02	2002-03	2003-04
Gross Loan - Opening	5516.08	5516.08	5516.08	5017.28	5017.28	5017.28	513.56	513.56	513.56
Cumulative Repayment up to previous year	108.16	289.40	496.10	104.79	277.68	473.45	7.30	29.15	53.24
Net Loan-Opening	5407.92	5226.68	5019.97	4912.49	4739.60	4543.83	506.26	484.42	460.32
Repayment during the year	181.24	206.70	388.84	172.89	195.77	336.55	21.85	24.10	26.53
Net Loan-Closing	5226.68	5019.97	4631.13	4739.60	4543.83	4207.28	484.42	460.32	433.79
<b>Interest</b>	<b>466.64</b>	<b>444.71</b>	<b>413.29</b>	<b>414.54</b>	<b>395.06</b>	<b>368.18</b>	<b>38.16</b>	<b>36.37</b>	<b>34.40</b>

## 6. Revised tariff computation for the period 2004-09

### (a) Equity and return on equity

	220 kV D/C Unchahar-Kanpur Transmission Line I with associated bays	220 kV D/C Unchahar-Kanpur Transmission Line II with associated bays	LIFO of one circuit of 220 kV D/C Panki-Mainpuri Transmission Line
Equity as on 31.3.2004	251.52	85.62	147.73
Addition due to Additional Capitalisation during 2001-04	0.00	0.00	0.00
Addition due to FERV during 2001-04	0.00	0.00	0.00
Total Equity	251.52	85.62	147.73
Return on Equity each year	35.21	11.99	20.68

(Rs. in lakh)

### (b) Interest on loan

#### (i) 220 kV D/C Unchahar-Kanpur Transmission Line I with associated bays

(Rs. in lakh)

Details of loan		2004-05	2005-06	2006-07	2007-08	2008-09
Gross Loan as on 31.3.2001	5516.08					
Addition due to Additional Capitalisation during 2001-04	0.00					
Addition due to FERV during 2001-04	(-189.80)					
Gross Normative Loan	5326.27	5326.27	5326.27	5326.27	5326.27	5326.27
Cumulative Repayment upto Previous Year		878.78	1237.22	1614.27	2011.86	2432.08
Net Loan-Opening		4447.49	4089.06	3712.00	3314.42	2894.19
Repayment during the year		358.43	377.06	397.59	420.23	384.00
Net Loan-Closing		4089.06	3712.00	3314.42	2894.19	2510.19
Average Loan		4268.27	3900.53	3513.21	3104.30	2702.19
Weighted Average Rate of Interest on Loan		8.0643%	7.9815%	7.8836%	7.7631%	7.6752%
Interest		344.21	311.32	276.97	240.99	207.40

#### (ii) 220 kV D/C Unchahar-Kanpur Transmission Line II with associated bays

(Rs. in lakh)

Details of loan		2004-05	2005-06	2006-07	2007-08	2008-09
Gross Loan as on 31.3.2001	5017.28					
Addition due to Additional Capitalisation during 2001-04	0.00					



Addition due to FERV during 2001-04	(-181.03					
Gross Normative Loan	4836.24	4836.24	4836.24	4836.24	4836.24	4836.24
Cumulative Repayment upto Previous Year		805.15	1111.00	1434.62	1777.83	2142.63
Net Loan-Opening		4031.10	3725.24	3401.62	3058.42	2693.62
Repayment during the year		305.85	323.62	343.20	364.80	342.67
Net Loan-Closing		3725.24	3401.62	3058.42	2693.62	2350.95
Average Loan		3878.17	3563.43	3230.02	2876.02	2522.28
Weighted Average Rate of Interest on Loan		7.9680%	7.8975%	7.8150%	7.7150%	7.6428%
Interest		309.01	281.42	252.43	221.89	192.77

(iii) LILO of one circuit of 220 kV D/C Panki-Mainpuri Transmission Line

(Rs. in lakh)

Details of loan		2004-05	2005-06	2006-07	2007-08	2008-09
Gross Loan as on 31.3.2001	513.56					
Addition due to Additional Capitalisation during 2001-04	0.00					
Addition due to FERV during 2001-04	(-) 22.87					
Gross Normative Loan	490.69	490.69	490.69	490.69	490.69	490.69
Cumulative Repayment upto Previous Year		79.79	101.67	125.79	152.38	181.69
Net Loan-Opening		410.90	389.02	364.90	338.31	309.00
Repayment during the year		21.88	24.12	26.59	29.32	32.32
Net Loan-Closing		389.02	364.90	338.31	309.00	276.67
Average Loan		399.96	376.96	351.61	323.65	292.83
Weighted Average Rate of Interest on Loan		7.5100%	7.5100%	7.5100%	7.5100%	7.5100%
Interest		30.04	28.31	26.41	24.31	21.99

(c) Advance Against Depreciation

(i) 220 kV D/C Unchahar-Kanpur Transmission Line I with associated bays

(Rs. in lakh)

	2004-05	2005-06	2006-07	2007-08	2008-09
1/10th of Gross loan(s)	532.63	532.63	532.63	532.63	532.63
Repayment of loan during the year	358.43	377.06	397.59	420.23	384.00
Minimum of the above	358.43	377.06	397.59	420.23	384.00
Depreciation during the year	160.09	160.09	160.09	160.09	160.09
(A) Difference	198.34	216.96	237.50	260.13	223.91
Cumulative repayment of the loan	1237.22	1614.27	2011.86	2432.08	2816.09
Cumulative Depreciation/ Advance against Depreciation	1536.97	1697.06	1857.15	2171.95	2592.17
(B) Difference	(-)299.75	-82.79	154.71	260.13	223.91
Advance against Depreciation Minimum of (A) and (B)	0.00	0.00	154.71	260.13	223.91

## (ii) 220 kV D/C Unchahar-Kanpur Transmission Line II with associated bays

(Rs. in lakh)

	2004-05	2005-06	2006-07	2007-08	2008-09
1/10th of Gross loan(s)	483.62	483.62	483.62	483.62	483.62
Repayment of loan during the year	305.85	323.62	343.20	364.80	342.67
Minimum of the above	305.85	323.62	343.20	364.80	342.67
Depreciation during the year	138.71	138.71	138.71	138.71	138.71
(A) Difference	167.14	184.91	204.49	226.09	203.96
Cumulative repayment of the loan	1111.00	1434.62	1777.83	2142.63	2485.29
Cumulative Depreciation/ Advance against Depreciation	1204.51	1343.22	1573.33	1916.54	2281.34
(B) Difference	(-) 93.50	91.41	204.49	226.09	203.96
Advance against Depreciation Minimum of (A) and (B)	0.00	91.41	204.49	226.09	203.96

## (iii) LILO of one circuit of 220 kV D/C Panki-Mainpuri Transmission Line

(Rs. in lakh)

	2004-05	2005-06	2006-07	2007-08	2008-09
1/10th of Gross loan(s)	49.07	49.07	49.07	49.07	49.07
Repayment of loan during the year	21.88	24.12	26.59	29.32	32.32
Minimum of the above	21.88	24.12	26.59	29.32	32.32
Depreciation during the year	19.10	19.10	19.10	19.10	19.10
(A) Difference	2.78	5.02	7.49	10.22	13.22
Cumulative repayment of the loan	101.67	125.79	152.38	181.69	214.02
Cumulative Depreciation/ Advance against Depreciation	105.67	124.77	144.89	171.48	200.79
(B) Difference	(-)4.00	1.02	7.49	10.22	13.22
Advance against Depreciation Minimum of (A) and (B)	0.00	1.02	7.49	10.22	13.22

## (d) Interest on Working Capital

## (i) 220 kV D/C Unchahar-Kanpur Transmission Line I with associated bays

(Rs. in lakh)

	2004-05	2005-06	2006-07	2007-08	2008-09
Maintenance Spares	70.24	74.45	78.92	83.66	88.68
O & M expenses	14.80	15.40	16.03	16.64	17.33
Receivables	123.08	118.80	140.57	153.70	143.36
Total	208.13	208.65	235.52	254.00	249.36
Rate of interest	10.25%	10.25%	10.25%	10.25%	10.25%
<b>Interest</b>	<b>21.33</b>	<b>21.39</b>	<b>24.14</b>	<b>26.04</b>	<b>25.56</b>

## (ii) 220 kV D/C Unchahar-Kanpur Transmission Line II with associated bays

(Rs. in lakh)

	2004-05	2005-06	2006-07	2007-08	2008-09
Maintenance Spares	66.22	70.19	74.40	78.87	83.60
O & M expenses	14.84	15.44	16.07	16.69	17.37
Receivables	109.56	121.67	137.29	137.13	129.93

Total	190.62	207.29	227.76	232.68	230.90
Rate of interest	10.25%	10.25%	10.25%	10.25%	10.25%
<b>Interest</b>	<b>19.54</b>	<b>21.25</b>	<b>23.35</b>	<b>23.85</b>	<b>23.67</b>

(iii) LILO of one circuit of 220 kV D/C Panki-Mainpuri Transmission Line

(Rs. in lakh)

	2004-05	2005-06	2006-07	2007-08	2008-09
Maintenance Spares	7.54	7.99	8.47	8.98	9.52
O & M expenses	4.88	5.08	5.28	5.49	5.71
Receivables	21.99	22.28	23.48	24.03	24.61
Total	34.42	35.35	37.24	38.50	39.84
Rate of interest	10.25%	10.25%	10.25%	10.25%	10.25%
<b>Interest</b>	<b>3.53</b>	<b>3.62</b>	<b>3.82</b>	<b>3.95</b>	<b>4.08</b>

(e) Revised Annual Transmission charges

(Rs.in lakh)

	220 kV D/C Unchahar-Kanpur transmission line-I with associated bays					220 kV D/C Unchahar-Kanpur transmission line-II with associated bays					LILO of one ckt of 220 kV D/C Panki-Mainpuri transmission line				
	2004-05	2005-06	2006-07	2007-08	2008-09	2004-05	2005-06	2006-07	2007-08	2008-09	2004-05	2005-06	2006-07	2007-08	2008-09
Depreciation	160.09	160.09	160.09	160.09	160.09	138.71	138.71	138.71	138.71	138.71	19.10	19.10	19.10	19.10	19.10
Interest on Loan	344.21	311.32	276.97	240.99	207.40	309.01	281.42	252.43	221.89	192.77	30.04	28.31	26.41	24.31	21.99
Return on Equity	35.21	35.21	35.21	35.21	35.21	11.99	11.99	11.99	11.99	11.99	20.68	20.68	20.68	20.68	20.68
Advance against Depreciation	0.00	0.00	154.71	260.13	223.91	0.00	91.41	204.49	226.09	203.96	0.00	1.02	7.49	10.22	13.22
Interest on Working Capital	21.33	21.39	24.14	26.04	25.56	19.54	21.25	23.35	23.85	23.67	3.53	3.62	3.82	3.95	4.08
O & M Expenses	177.65	184.76	192.31	199.73	207.97	178.10	185.22	192.79	200.23	208.49	58.60	60.95	63.40	65.91	68.57
<b>Total</b>	<b>738.49</b>	<b>712.77</b>	<b>843.43</b>	<b>922.19</b>	<b>860.14</b>	<b>657.35</b>	<b>729.99</b>	<b>823.75</b>	<b>822.75</b>	<b>779.58</b>	<b>131.95</b>	<b>133.68</b>	<b>140.90</b>	<b>144.16</b>	<b>147.65</b>

### Annexure-III

1. Petition No. 84/2004
2. Subject: Approval of tariff in respect of Kishenpur \_Moga transmission system in Northern Region for the period from 1.4.2004 to 31.3.2009 and Additional Capitalisation.
3. Date of order of approval of tariff: 24.2.2006; modified vide order dated 14.7.2006
4. **Original order**
  - (a) Computation of capital cost

(Rs.in lakh)

Name of the Element	Capital cost as on 31.3.2004	Additional Capitalization during 2001-04	FERV for the period 2001-04	Total Capital expenditure
800 kV Kishenpur-Moga transmission line -I along with associated bays	43506.00	517.58	(-)397.62	43625.95
800 kV Kishenpur-Moga transmission line-II along with associated bays	39256.92	1359.48	(-)86.56	40529.84
420 kV 63 MVAR Bus Reactor at Kishenpur sub-station with associated bays and 420/220 kV,250 MVA ICT III at Moga sub-station with associated bays	1598.49	0.00	(-)13.16	1585.33
Total	84361.41	1877.06	(-)497.34	85741.12

(b) Computation of equity

(Rs. In lakh)

Name of the Element	Equity as on 31.3.2004	Notional equity on account additional capitalization	Notional equity on account of FERV	Total equity
800 kV Kishenpur-Moga transmission line -I along with associated bays	4567.56	517.58	0.00	5085.14
800 kV Kishenpur-Moga transmission line -II along with associated bays	7738.41	260.07	(-)16.56	7981.92
420 kV 63 MVAR Bus Reactor at Kishenpur sub-station with associated bays and 420/220 kV,250 MVA ICT III at Moga sub-station with associated bays	182.53	0.00	0.00	182.53

(c) Computation of interest on loan

(i) 800 kV Kishenpur-Moga transmission line -I along with associated bays

(Rs. in lakh)

Details of loan		2004-05	2005-06	2006-07	2007-08	2008-09
Gross Loan as on 1.4.2001	38938.44					
Addition due to Additional Capitalisation during 2001-04	0.00					
Addition due to FERV during 2001-04	(-)397.63					
Gross Normative Loan	38540.81	38540.81	38540.81	38540.81	38540.81	38540.81
Cumulative repayment up to previous year		7294.00	10022.17	12750.33	15478.49	18206.65
Net Loan-Opening		31246.80	28518.64	25790.48	23062.32	20334.16
Repayment during the year		2728.16	2728.16	2728.16	2728.16	2544.05
Net Loan-Closing		28518.64	25790.48	23062.32	20334.16	17790.11
Average Loan		29882.72	27154.56	24426.40	21698.24	19062.13
Weighted Average Rate of Interest on Loan		5.8187%	5.7314%	5.6245%	5.4908%	5.3587%
Interest		1738.80	1556.33	1373.86	1191.40	1021.49

(ii) 800 kV Kishenpur-Moga transmission line -II along with associated bays

(Rs. in lakh)

Details of loan		2004-05	2005-06	2006-07	2007-08	2008-09
Gross Loan as on 1.4.2001	31518.51					
Addition due to Additional Capitalisation during 2001-04	1099.41					
Addition due to FERV during 2001-04	(-)70.00					
Gross Normative Loan	32547.92	32547.92	32547.92	32547.92	32547.92	32547.92
Cumulative Repayment up to Previous Year		3349.05	5999.36	8753.33	11507.31	14261.29
Net Loan-Opening		29198.87	26548.56	23794.58	21040.61	18286.63
Repayment during the year		2650.31	2753.98	2753.98	2753.98	2636.62
Net Loan-Closing		26548.56	23794.58	21040.61	18286.63	15650.00
Average Loan		27873.72	25171.57	22417.60	19663.62	16968.32
Weighted Average Rate of Interest on Loan		7.4236%	7.2133%	7.0883%	6.9890%	6.8807%
Interest		2069.25	1815.70	1589.03	1374.28	1167.54

(iii) 420 kV 63 MVAR Bus Reactor at Kishenpur sub-station with associated bays and 420/220 kV, 250 MVA ICT III at Moga sub-station with associated bays

(Rs. in lakh)

Details of loan		2004-05	2005-06	2006-07	2007-08	2008-09
Gross Loan as on 1.4.2001	1415.95					
Addition due to Additional Capitalisation during 2001-04	0.00					
Addition due to FERV during 2001-04	(-)13.16					
Gross Normative Loan	1402.79	1402.79	1402.79	1402.79	1402.79	1402.79
Cumulative Repayment up to Previous Year		232.29	334.62	436.95	539.28	641.61
Net Loan-Opening		1170.50	1068.17	965.84	863.51	761.18
Repayment during the year		102.33	102.33	102.33	102.33	95.74
Net Loan-Closing		1068.17	965.84	863.51	761.18	665.44
Average Loan		1119.34	1017.01	914.68	812.35	713.31
Weighted Average Rate of Interest on Loan		5.8783%	5.7976%	5.6988%	5.5752%	5.4539%
Interest		65.80	58.96	52.13	45.29	38.90

(d) Summary of the transmission charges awarded

Rs.in lakh)

	800 kV Kishenpur-Moga transmission line-I along with associated bays					800 kV Kishenpur-Moga transmission line-II along with associated bays					420 kV 63 MVAR Bus Reactor at Kishenpur sub-station with associated bays and 420/220 kV,250 MVAR ICT III at Moga sub-station with associated bays				
	2004-05	2005-06	2006-07	2007-08	2008-09	2004-05	2005-06	2006-07	2007-08	2008-09	2004-05	2005-06	2006-07	2007-08	2008-09
Depreciation	1167.32	1167.32	1167.32	1167.32	1167.32	1017.48	1017.48	1017.48	1017.48	1017.48	57.07	57.07	57.07	57.07	57.07
Interest on Loan	1738.80	1556.33	1373.86	1191.40	1021.49	2069.25	1815.70	1589.03	1374.28	1167.54	65.80	58.96	52.13	45.29	38.90
Return on Equity	711.92	711.92	711.92	711.92	711.92	1117.47	1117.47	1117.47	1117.47	1117.47	25.55	25.55	25.55	25.55	25.55
Advance against Depreciation	342.69	1560.84	1560.84	1560.84	1376.73	553.96	1736.50	1736.50	1736.50	1619.14	0.00	0.00	0.18	45.26	38.67
Interest on Working Capital	127.95	149.43	149.96	150.69	148.69	134.56	153.75	153.04	152.73	150.72	6.14	6.21	6.28	7.15	7.14
O & M Expenses	118.75	123.49	128.58	133.48	139.05	121.42	126.26	131.47	136.48	142.17	56.24	58.50	60.84	63.26	65.80
<b>Total</b>	<b>4207.43</b>	<b>5269.34</b>	<b>5092.48</b>	<b>4915.65</b>	<b>4565.19</b>	<b>5014.13</b>	<b>5967.16</b>	<b>5744.99</b>	<b>5534.94</b>	<b>5214.53</b>	<b>210.80</b>	<b>206.29</b>	<b>202.05</b>	<b>243.59</b>	<b>233.15</b>

5. Revised tariff for the period 2001-04

(a) Date of order: 8.2.2008 in petition No. 43/2002

(b) Equity and return on equity

(Rs. in lakh)

	800 kV Kishenpur-Moga transmission line Ckt.-I along with associated bays			800 kV Kishenpur-Moga transmission line Ckt.-II along with associated bays			420 kV 63 MVAR Bus Reactor at Kishenpur sub-station with associated bays and 420/220 kV,250 MVA ICT III at Moga		
	2001-2002	2002-2003	2003-2004	2001-2002	2002-2003	2003-2004	2001-2002	2002-2003	2003-2004
Equity	4519.97	4519.97	4519.97	7737.28	7737.28	7737.28	180.79	180.79	180.79
Return on Equity	723.20	723.20	723.20	1237.96	1237.96	1237.96	28.93	28.93	28.93

(c) Computation of interest on loan

(Rs in lakh)

	800 kV Kishenpur-Moga transmission line Ckt.-I along with associated bays			800 kV Kishenpur-Moga transmission line Ckt.-II along with associated bays			420 kV 63 MVAR Bus Reactor at Kishenpur sub-station with associated bays and 420/220 kV,250 MVA ICT III at Moga		
	2001-2002	2002-2003	2003-2004	2001-2002	2002-2003	2003-2004	2001-2002	2002-2003	2003-2004
Gross Loan - Opening	38986.03	38986.03	38986.03	31519.64	31519.64	31519.64	1417.69	1417.69	1417.69
Cumulative Repayment up to previous year	201.62	4719.80	6630.91	8.25	2120.56	2351.41	40.78	184.44	209.29
Net Loan-Opening	38784.41	34266.23	32355.12	31511.39	29399.08	29168.22	1376.91	1233.25	1208.39
Repayment during the year	4518.18	1911.11	628.03	2112.31	230.86	917.09	143.66	24.85	22.07
Net Loan-Closing	34266.23	32355.12	31727.09	29399.08	29168.22	28251.14	1233.25	1208.39	1186.32
<b>Interest</b>	<b>5022.22</b>	<b>4477.84</b>	<b>2760.38</b>	<b>4185.47</b>	<b>3967.97</b>	<b>2706.51</b>	<b>178.93</b>	<b>162.76</b>	<b>103.33</b>

## 6. Revised tariff computation for the period 2004-09

### (a) Equity and return on equity

(Rs. in lakh)

	800 kV Kishenpur- Moga transmission line Ckt.-I along with associated bays	800 kV Kishenpur- Moga transmission line Ckt.-II along with associated bays	420 kV 63 MVAR Bus Reactor at Kishenpur sub- station with associated bays and 420/220 kV,250 MVA ICT III at Moga sub- station with associated bays
Equity as per last Revision	4519.97	7737.28	180.79
Addition due to Additional Capitalisation	517.58	260.07	0.00
Addition due to FERV	0.00	0.00	0.00
Equity	5037.55	7997.35	180.79
Return on Equity	705.26	1119.63	25.31

### (b) Interest on loan

#### (i) 800 kV Kishenpur-Moga transmission line Ckt.-I along with associated bays

(Rs. in lakh)

Details of loan						
		2004-05	2005-06	2006-07	2007-08	2008-09
Gross Loan as on 31.3.2001	38986.03					
Addition due to Additional Capitalisation during 2001-04	0.00					
Addition due to FERV during 2001-04	(-)397.63					
Gross Normative Loan	38588.40	38588.40	38588.40	38588.40	38588.40	38588.40
Cumulative Repayment upto Previous Year		7293.97	10026.29	12758.61	15490.93	18223.25
Net Loan-Opening		31294.43	28562.11	25829.79	23097.47	20365.15
Repayment during the year		2732.32	2732.32	2732.32	2732.32	2547.93
Net Loan-Closing		28562.11	25829.79	23097.47	20365.15	17817.23
Average Loan		29928.27	27195.95	24463.63	21731.31	19091.19
Weighted Average Rate of Interest on Loan		5.8187%	5.7314%	5.6245%	5.4908%	5.3587%
Interest		1741.45	1558.70	1375.96	1193.21	1023.04

#### (ii) 800 kV Kishenpur-Moga transmission line Ckt.-II along with associated bays

(Rs. in lakh)

Details of loan						
		2004-05	2005-06	2006-07	2007-08	2008-09
Gross Loan as on 31.3.2001	31519.64					
Addition due to Additional Capitalisation during 2001-04	1099.41					
Addition due to FERV during 2001-04	-86.56					
Gross Normative Loan	32532.49	32532.49	32532.49	32532.49	32532.49	32532.49

Cumulative Repayment upto Previous Year		3349.43	5998.31	8750.79	11503.28	14255.77
Net Loan-Opening		29183.05	26534.18	23781.70	21029.21	18276.72
Repayment during the year		2648.87	2752.49	2752.49	2752.49	2635.19
Net Loan-Closing		26534.18	23781.70	21029.21	18276.72	15641.53
Average Loan		27858.62	25157.94	22405.45	19652.97	16959.12
Weighted Average Rate of Interest on Loan		7.4236%	7.2133%	7.0883%	6.9890%	6.8807%
Interest		2068.13	1814.72	1588.17	1373.54	1166.91

- (iii) 420 kV 63 MVAR Bus Reactor at Kishenpur sub-station with associated bays and 420/220 kV,250 MVA ICT III at Moga sub-station with associated bays

(Rs. in lakh)

Details of loan		2004-05	2005-06	2006-07	2007-08	2008-09
Gross Loan as on 31.3.2001	1417.69					
Addition due to Additional Capitalisation during 2001-04	0.00					
Addition due to FERV during 2001-04	(-) 13.16					
Gross Normative Loan	1404.53	1404.53	1404.53	1404.53	1404.53	1404.53
Cumulative Repayment upto Previous Year		232.29	334.77	437.25	539.73	642.22
Net Loan-Opening		1172.24	1069.76	967.28	864.79	762.31
Repayment during the year		102.48	102.48	102.48	102.48	95.89
Net Loan-Closing		1069.76	967.28	864.79	762.31	666.42
Average Loan		1121.00	1018.52	916.03	813.55	714.37
Weighted Average Rate of Interest on Loan		5.8783%	5.7976%	5.6988%	5.5752%	5.4539%
Interest		65.90	59.05	52.20	45.36	38.96

(c) Advance Against Depreciation

- (i) 800 kV Kishenpur-Moga transmission line Ckt.-I along with associated bays

(Rs. in lakh)

	2004-05	2005-06	2006-07	2007-08	2008-09
1/10th of Gross loan(s)	3858.84	3858.84	3858.84	3858.84	3858.84
Repayment of loan during the year	2732.32	2732.32	2732.32	2732.32	2547.93
Minimum of the above	2732.32	2732.32	2732.32	2732.32	2547.93
Depreciation during the year	1167.32	1167.32	1167.32	1167.32	1167.32
(A) Difference	1565.00	1565.00	1565.00	1565.00	1380.61
Cumulative repayment of the loan	10026.29	12758.61	15490.93	18223.25	20771.17
Cumulative Depreciation/ Advance against Depreciation	9683.44	11193.61	13925.93	16658.25	19390.57
(B) Difference	342.85	1565.00	1565.00	1565.00	1380.61
Advance against Depreciation Minimum of (A) and (B)	342.85	1565.00	1565.00	1565.00	1380.61



(ii) 800 kV Kishenpur-Moga transmission line Ckt.-II along with associated bays

(Rs. in lakh)

	2004-05	2005-06	2006-07	2007-08	2008-09
1/10th of Gross loan(s)	3253.25	3253.25	3253.25	3253.25	3253.25
Repayment of loan during the year	2648.87	2752.49	2752.49	2752.49	2635.19
Minimum of the above	2648.87	2752.49	2752.49	2752.49	2635.19
Depreciation during the year	1017.48	1017.48	1017.48	1017.48	1017.48
(A) Difference	1631.39	1735.00	1735.00	1735.00	1617.71
Cumulative repayment of the loan	5998.31	8750.79	11503.28	14255.77	16890.96
Cumulative Depreciation/ Advance against Depreciation	5445.40	7015.79	9768.28	12520.76	15273.25
(B) Difference	552.91	1735.00	1735.00	1735.00	1617.71
Advance against Depreciation Minimum of (A) and (B)	552.91	1735.00	1735.00	1735.00	1617.71

(iii) 420 kV 63 MVAR Bus Reactor at Kishenpur sub-station with associated bays and 420/220 kV,250 MVA ICT III at Moga sub-station with associated bays

(Rs. in lakh)

	2004-05	2005-06	2006-07	2007-08	2008-09
1/10th of Gross loan(s)	140.45	140.45	140.45	140.45	140.45
Repayment of loan during the year	102.48	102.48	102.48	102.48	95.89
Minimum of the above	102.48	102.48	102.48	102.48	95.89
Depreciation during the year	57.07	57.07	57.07	57.07	57.07
(A) Difference	45.41	45.41	45.41	45.41	38.81
Cumulative repayment of the loan	334.77	437.25	539.73	642.22	738.10
Cumulative Depreciation/ Advance against Depreciation	425.10	482.18	539.25	596.81	699.29
(B) Difference	-90.33	-44.92	0.49	45.41	38.81
Advance against Depreciation Minimum of (A) and (B)	0.00	0.00	0.49	45.41	38.81

(d) Interest on Working Capital

(i) 800 kV Kishenpur-Moga transmission line Ckt.-I along with associated bays

(Rs. in lakh)

	2004-05	2005-06	2006-07	2007-08	2008-09
Maintenance Spares	537.15	569.38	603.54	639.75	678.14
O & M expenses	9.90	10.29	10.72	11.12	11.59
Receivables	700.58	878.20	848.68	819.16	760.66
Total	1,247.63	1,457.87	1,462.93	1,470.03	1,450.38
Rate of interest	10.25%	10.25%	10.25%	10.25%	10.25%
Interest	127.88	149.43	149.95	150.68	148.66

## (ii) 800 kV Kishenpur-Moga transmission line Ckt.-II along with associated bays

(Rs. in lakh)

	2004-05	2005-06	2006-07	2007-08	2008-09
Maintenance Spares	466.95	494.97	524.66	556.14	589.51
O & M expenses	10.12	10.52	10.96	11.37	11.85
Receivables	835.69	994.47	957.47	922.48	869.10
Total	1,312.75	1,499.96	1,493.08	1,489.99	1,470.46
Rate of interest	10.25%	10.25%	10.25%	10.25%	10.25%
Interest	134.56	153.75	153.04	152.72	150.72

## (iii) 420 kV 63 MVAR Bus Reactor at Kishenpur sub-station with associated bays and 420/220 kV,250 MVA ICT III at Moga sub-station with associated bays

(Rs. in lakh)

	2004-05	2005-06	2006-07	2007-08	2008-09
Maintenance Spares	20.09	21.29	22.57	23.93	25.36
O & M expenses	4.69	4.88	5.07	5.27	5.48
Receivables	35.11	34.36	33.70	40.59	38.85
Total	59.88	60.52	61.34	69.79	69.69
Rate of interest	10.25%	10.25%	10.25%	10.25%	10.25%
Interest	6.14	6.20	6.29	7.15	7.14

## (e) Revised Annual Transmission charges

(Rs.in lakh)

	800 kV Kishenpur-Moga transmission line Ckt.-I along with associated bays					800 Kv Kishenpur-Moga transmission line Ckt.-II along with associated bays					420 kV 63 MVAR Bus Reactor at Kishenpur sub-station with associated bays and 420/220 kV,250 MVA ICT III at Moga sub-station with associated bays				
	2004-05	2005-06	2006-07	2007-08	2008-09	2004-05	2005-06	2006-07	2007-08	2008-09	2004-05	2005-06	2006-07	2007-08	2008-09
Depreciation	1167.32	1167.32	1167.32	1167.32	1167.32	1017.48	1017.48	1017.48	1017.48	1017.48	57.07	57.07	57.07	57.07	57.07
Interest on Loan	1741.45	1558.70	1375.96	1193.21	1023.04	2068.13	1814.72	1588.17	1373.54	1166.91	65.90	59.05	52.20	45.36	38.96
Return on Equity	705.26	705.26	705.26	705.26	705.26	1119.63	1119.63	1119.63	1119.63	1119.63	25.31	25.31	25.31	25.31	25.31
Advance against Depreciation	342.85	1565.00	1565.00	1565.00	1380.61	552.91	1735.00	1735.00	1735.00	1617.71	0.00	0.00	0.49	45.41	38.81
Interest on Working Capital	127.88	149.43	149.95	150.68	148.66	134.56	153.75	153.04	152.72	150.72	6.14	6.20	6.29	7.15	7.14
O & M Expenses	118.75	123.49	128.58	133.48	139.05	121.42	126.26	131.47	136.48	142.17	56.24	58.50	60.84	63.26	65.80
Total	4203.51	5269.20	5092.07	4914.95	4563.94	5014.12	5966.84	5744.79	5534.86	5214.63	210.66	206.14	202.20	243.56	233.10

## Annexure-IV

1. Petition No. 131/2005
2. Subject: Approval of tariff in respect of 400 kV Nathpa Jhakri transmission system in Northern Region for the period from 1.4.2004 to 31.3.2009 and Additional Capitalisation.
3. Date of order of approval of tariff: 22.9.2006
4. **Original order**
  - (a) Computation of capital cost

(Rs.in lakh)

S.No.	Name of the Element	Admitted capital	Additional capitalization on works	Additional capitalizations on FERV for the period 1.4.2001 to 31,3,2004	Total
1.	315 MVA ICT-II at Malerkotla sub-station	918.23	-	-	918.23
2.	400 KV Hissar- Jaipur transmission line with associated bays	11175.00	-	-	11175.00
3.	400 KV Bawana- Bhiwani transmission line (Ckt-I) and Bawana-Bhiwani transmission line (Ckt-II) with associated bays	7352.44	-	-	7352.44
4.	400 KV D/C Abdullapur-Bawana transmission line with associated bays, 315 MVA ICT-II at Abdullapur sub-station, 220 KV Jorian (HVPNL) bay at Abdullapur sub-station; and 400 KV D/C Nalagarh- Hissar transmission line with associated bays	49215.77	377.92	(-)322.71	49270.98
5.	ICT- I at Nalagarh with associated bays	1478.18	-	(-)36.24	1441.94
6.	ICT- II at Nalagarh with associated bays	1316.32	-	(-)40.97	1275.35
7.	ICT-II at Jalandhar with associated bays	1217.86	403.4	-	1621.26
8.	Bus Reactor with associated bays at Nalagarh	616.42	-	(-)23.41	593.01
9.	ICT-I at Jaipur (Bassi) with associated bays	2272.43	85.08	-	2357.51
10	2 Nos. LILO bays associated with ICT-I at Jaipur	184.74	17.32	-	202.06
11	ICT-II at Jaipur (Bassi)with associated	794.90	24.43	-	819.33

	bays				
12	220 KV D/C Jalandhar- Dasuya transmission line along with associated bays at Jalandhar & Dasuya	1527.42	8.13	(-)14.83	1520.72
13	LILO of Chamera- Moga transmission line along with associated bays at Jalandhar	6637.43	-	(-) 120.22	6517.21
14	400 KV D/C Nathpa Jhakri- Nalagarh transmission line with associated bays and 2 nos. 400 KV bays at Nalagarh for Kunihar	33728.30	87.39	(-)107	33708.69
15	400 KV D/C Nathpa Jhakri-Abdullapur transmission line, ICT-I, Bus Reactor and 2 Nos 220 KV bays at Abdullapur for Tepla(HVPNL)	34749.60	24.63	(-)23.58	34750.65
	<b>Total</b>	<b>153185.04</b>	<b>1028.30</b>	<b>(-)688.95</b>	<b>153524.38</b>

(b) Computation of equity

(Rs. in lakh)

	Details of the Assets	Equity as on 312.3.2004	Notional equity on account additional capitalization during 2001-04	Notional equity on account of FERV during 2001-04	Total equity
1	315 MVA ICT-II at Malerkotla sub-station	459.12	0.00	0.00	459.12
2	400 KV Hissar- Jaipur transmission line with associated bays	2800.42	0.00	0.00	2800.42
3	400 KV Bawana- Bhiwani transmission line (Ckt-I) and Bawana- Bhiwani transmission line (Ckt-II) with associated bays	891.60	0.00	0.00	891.60
4	400 KV D/C Abdullapur-Bawana transmission line with associated bays, 315 MVA ICT-II at Abdullapur sub-station, 220 KV Jorian (HVPNL) bay at Abdullapur sub-station; and 400 KV D/C Nalagarh- Hissar transmission line with associated bays	6875.47	377.92	261.19	7514.58
5	ICT- I at Nalagarh with associated bays	230.62	0.00	29.33	259.95
6	ICT- II at Nalagarh with associated bays	145.13	0.00	33.16	178.28

7	ICT-II at Jalandhar with associated bays	161.86	162.39	0.00	324.25
8	Bus Reactor with associated bays at Nalagarh	72.36	0.00	18.95	91.31
9	ICT-I at Jaipur (Bassi) with associated bays	393.43	78.07	0.00	471.50
10	2 Nos. LILO bays associated with ICT-I at Jaipur	31.74	8.67	0.00	40.41
11	ICT-II at Jaipur (Bassi)with associated bays	94.90	24.43	0.00	119.33
12	220 KV D/C Jalandhar-Dasuya transmission line along with associated bays at Jalandhar & Dasuya	320.01	19.26	-35.13	304.14
13	LILO of Chamera- Moga transmission line along with associated bays at Jalandhar	1409.22	0.00	-105.78	1303.44
14	400 KV D/C Nathpa Jhakri-Nalagarh transmission line with associated bays and 2 nos. 400 KV bays at Nalagarh for Kunihar	8353.29	0.00	-107.01	8246.28
15	400 KV D/C Nathpa Jhakri-Abdullapur transmission line, ICT-I, Bus Reactor and 2 Nos 220 KV bays at Abdullapur for Tepla(HVPLN)	7213.06	0.00	-23.58	7189.48

(c) Computation of interest on loan

(Rs. in lakh)

1.315 MVA ICT-II at Malerkotla sub-station						
		2004-05	2005-06	2006-07	2007-08	2008-09
Gross Loan	459.12					
Addition due to Additional Capitalisation	0.00					
Addition due to FERV	0.00					
Gross Normative Loan	459.12	459.12	459.12	459.12	459.12	459.12
Cumulative Repayment upto Previous Year		347.30	380.36	413.41	446.47	459.12
Net Loan-Opening		111.82	78.76	45.70	12.65	0.00
Repayment during the year		33.06	33.06	33.06	12.65	0.00
Net Loan-Closing		78.76	45.70	12.65	0.00	0.00
Average Loan		95.29	62.23	29.17	6.32	0.00
Weighted Average Rate of Interest on Loan		6.3000%	6.3000%	6.3000%	6.3000%	6.3000%
Interest		6.00	3.92	1.84	0.40	0.00

2. 400 KV Hissar- Jaipur transmission line with associated bays						
		2004-05	2005-06	2006-07	2007-08	2008-09
Gross Loan	8374.58					
Addition due to Additional Capitalisation	0.00					
Addition due to FERV	0.00					
Gross Normative Loan	8374.58	8374.58	8374.58	8374.58	8374.58	8374.58
Cumulative Repayment upto Previous Year		3599.37	4087.60	4575.83	5064.07	5552.30
Net Loan-Opening		4775.21	4286.98	3798.75	3310.51	2822.28
Repayment during the year		488.23	488.23	488.23	488.23	488.23
Net Loan-Closing		4286.98	3798.75	3310.51	2822.28	2334.05
Average Loan		4531.09	4042.86	3554.63	3066.40	2578.17
Weighted Average Rate of Interest on Loan		7.1283%	7.0667%	6.9881%	6.8844%	6.7415%
Interest		322.99	285.70	248.40	211.10	173.81
3. 400 KV Bawana- Bhiwani transmission line (Ckt-I) and Bawana- Bhiwani transmission line (Ckt-II) with associated bays						
		2004-05	2005-06	2006-07	2007-08	2008-09
Gross Loan	6460.84					
Addition due to Additional Capitalisation	0.00					
Addition due to FERV	0.00					
Gross Normative Loan	6460.84	6460.84	6460.84	6460.84	6460.84	6460.84
Cumulative Repayment upto Previous Year		2783.60	3158.95	3534.31	3909.67	4285.02
Net Loan-Opening		3677.24	3301.89	2926.53	2551.17	2175.82
Repayment during the year		375.36	375.36	375.36	375.36	375.36
Net Loan-Closing		3301.89	2926.53	2551.17	2175.82	1800.46
Average Loan		3489.57	3114.21	2738.85	2363.50	1988.14
Weighted Average Rate of Interest on Loan		7.1219%	7.0606%	6.9825%	6.8796%	6.7379%
Interest		248.52	219.88	191.24	162.60	133.96
4. 400 KV D/C Abdullapur-Bawana transmission line with associated bays, 315 MVA ICT-II at Abdullapur sub-station, 220 KV Jorian (HVPNL) bay at Abdullapur sub-station; and 400 KV D/C Nalagarh- Hissar transmission line with associated bays						
		2004-05	2005-06	2006-07	2007-08	2008-09
Gross Loan	42340.30					
Addition due to Additional Capitalisation	0.00					
Addition due to FERV	-583.90					
Gross Normative Loan	41756.40	41756.40	41756.40	41756.40	41756.40	41756.40
Cumulative Repayment up to Previous Year		9984.02	13248.99	16513.95	19778.92	23043.88
Net Loan-Opening		31772.37	28507.41	25242.44	21977.48	18712.52
Repayment during the year		3264.96	3264.96	3264.96	3264.96	2866.60
Net Loan-Closing		28507.41	25242.44	21977.48	18712.52	15845.91
Average Loan		30139.89	26874.93	23609.96	20345.00	17279.21
Weighted Average Rate of Interest on Loan		6.6916%	6.5466%	6.3615%	6.1170%	5.8696%
Interest		2016.84	1759.40	1501.95	1244.51	1014.23
5. ICT- I at Nalagarh with associated bays						
		2004-05	2005-06	2006-07	2007-08	2008-09
Gross Loan	1247.56					
Addition due to Additional Capitalisation	0.00					
Addition due to FERV	-65.56					
Gross Normative Loan	1182.00	1182.00	1182.00	1182.00	1182.00	1182.00
Cumulative Repayment up to Previous Year		68.39	129.42	214.81	300.20	385.59
Net Loan-Opening		1113.61	1052.58	967.19	881.80	796.40

Repayment during the year		61.03	85.39	85.39	85.39	81.69
Net Loan-Closing		1052.58	967.19	881.80	796.40	714.71
Average Loan		1083.09	1009.88	924.49	839.10	755.56
Weighted Average Rate of Interest on Loan		5.5350%	5.4864%	5.3655%	5.2199%	5.0625%
Interest		59.95	55.41	49.60	43.80	38.25
<b>6. ICT- II at Nalagarh with associated bays</b>						
		<b>2004-05</b>	<b>2005-06</b>	<b>2006-07</b>	<b>2007-08</b>	<b>2008-09</b>
Gross Loan	1171.19					
Addition due to Additional Capitalisation	0.00					
Addition due to FERV	-74.12					
Gross Normative Loan	1097.07	1097.07	1097.07	1097.07	1097.07	1097.07
Cumulative Repayment up to Previous Year		82.51	155.23	227.94	300.66	373.37
Net Loan-Opening		1014.56	941.84	869.13	796.41	723.70
Repayment during the year		72.72	72.72	72.72	72.72	68.08
Net Loan-Closing		941.84	869.13	796.41	723.70	655.62
Average Loan		978.20	905.49	832.77	760.05	689.66
Weighted Average Rate of Interest on Loan		4.2608%	4.1580%	4.0373%	3.8934%	3.7525%
Interest		41.68	37.65	33.62	29.59	25.88
<b>7. ICT- II at Jalandhar with associated bays</b>						
		<b>2004-05</b>	<b>2005-06</b>	<b>2006-07</b>	<b>2007-08</b>	<b>2008-09</b>
Gross Loan	1056.00					
Addition due to Additional Capitalisation	241.01					
Addition due to FERV	0.00					
Gross Normative Loan	1297.01	1297.01	1297.01	1297.01	1297.01	1297.01
Cumulative Repayment up to Previous Year		203.19	406.38	609.57	812.76	1015.95
Net Loan-Opening		1093.82	890.63	687.44	484.25	281.06
Repayment during the year		203.19	203.19	203.19	203.19	125.32
Net Loan-Closing		890.63	687.44	484.25	281.06	155.74
Average Loan		992.22	789.03	585.84	382.65	218.40
Weighted Average Rate of Interest on Loan		9.9086%	9.7720%	9.5406%	9.0636%	8.5998%
Interest		98.32	77.10	55.89	34.68	18.78
<b>8. Bus Reactor with associated bays at Nalagarh.</b>						
		<b>2004-05</b>	<b>2005-06</b>	<b>2006-07</b>	<b>2007-08</b>	<b>2008-09</b>
Gross Loan	544.06					
Addition due to Additional Capitalisation	0.00					
Addition due to FERV	-42.36					
Gross Normative Loan	501.70	501.70	501.70	501.70	501.70	501.70
Cumulative Repayment up to Previous Year		29.63	59.66	89.69	119.72	149.74
Net Loan-Opening		472.07	442.04	412.01	381.98	351.96
Repayment during the year		30.03	30.03	30.03	30.03	28.69
Net Loan-Closing		442.04	412.01	381.98	351.96	323.27
Average Loan		457.05	427.02	397.00	366.97	337.61
Weighted Average Rate of Interest on Loan		3.6009%	3.5328%	3.4543%	3.3631%	3.2761%
Interest		16.46	15.09	13.71	12.34	11.06
<b>9. ICT-I at Jaipur (Bassi) with associated bays.</b>						
		<b>2004-05</b>	<b>2005-06</b>	<b>2006-07</b>	<b>2007-08</b>	<b>2008-09</b>
Gross Loan	1879.00					
Addition due to Additional Capitalisation	7.01					
Addition due to FERV	0.00					
Gross Normative Loan	1886.01	1886.01	1886.01	1886.01	1886.01	1886.01

Cumulative Repayment up to Previous Year		178.56	367.16	555.77	744.37	932.97
Net Loan-Opening		1707.44	1518.84	1330.24	1141.64	953.04
Repayment during the year		188.60	188.60	188.60	188.60	188.60
Net Loan-Closing		1518.84	1330.24	1141.64	953.04	764.44
Average Loan		1613.14	1424.54	1235.94	1047.34	858.74
Weighted Average Rate of Interest on Loan		10.2946%	10.2937%	10.2924%	10.2907%	10.2883%
Interest		166.07	146.64	127.21	107.78	88.35
<b>10. 2 Nos. LILO bays associated with ICT-I at Jaipur</b>						
		<b>2004-05</b>	<b>2005-06</b>	<b>2006-07</b>	<b>2007-08</b>	<b>2008-09</b>
Gross Loan	153.00					
Addition due to Additional Capitalisation	8.65					
Addition due to FERV	0.00					
Gross Normative Loan	161.65	161.65	161.65	161.65	161.65	161.65
Cumulative Repayment up to Previous Year		15.32	31.48	47.65	63.81	79.98
Net Loan-Opening		146.33	130.16	114.00	97.83	81.67
Repayment during the year		16.16	16.16	16.16	16.16	16.16
Net Loan-Closing		130.16	114.00	97.83	81.67	65.50
Average Loan		138.25	122.08	105.92	89.75	73.59
Weighted Average Rate of Interest on Loan		10.2997%	10.2988%	10.2976%	10.2959%	10.2935%
Interest		14.24	12.57	10.91	9.24	7.57
<b>11. ICT-II at Jaipur (Bassi) with associated bays</b>						
		<b>2004-05</b>	<b>2005-06</b>	<b>2006-07</b>	<b>2007-08</b>	<b>2008-09</b>
Gross Loan	700.00					
Addition due to Additional Capitalisation	0.00					
Addition due to FERV	0.00					
Gross Normative Loan	700.00	700.00	700.00	700.00	700.00	700.00
Cumulative Repayment up to Previous Year		75.13	150.27	225.40	300.53	375.67
Net Loan-Opening		624.87	549.73	474.60	399.47	324.33
Repayment during the year		75.13	75.13	75.13	75.13	75.13
Net Loan-Closing		549.73	474.60	399.47	324.33	249.20
Average Loan		587.30	512.17	437.03	361.90	286.77
Weighted Average Rate of Interest on Loan		11.8173%	11.8641%	11.9270%	12.0160%	12.1515%
Interest		69.40	60.76	52.12	43.49	34.85
<b>12. 220 KV D/C Jalandhar- Dasuya transmission line along with associated bays at Jalandhar &amp; Dasuya</b>						
		<b>2004-05</b>	<b>2005-06</b>	<b>2006-07</b>	<b>2007-08</b>	<b>2008-09</b>
Gross Loan	1207.41					
Addition due to Additional Capitalisation	-11.13					
Addition due to FERV	20.30					
Gross Normative Loan	1216.58	1216.58	1216.58	1216.58	1216.58	1216.58
Cumulative Repayment up to Previous Year		96.23	207.48	323.85	440.21	556.58
Net Loan-Opening		1120.35	1009.09	892.73	776.36	660.00
Repayment during the year		111.26	116.36	116.36	116.36	116.36
Net Loan-Closing		1009.09	892.73	776.36	660.00	543.64
Average Loan		1064.72	950.91	834.55	718.18	601.82
Weighted Average Rate of Interest on Loan		9.5703%	9.4722%	9.3443%	9.1749%	8.9400%
Interest		101.90	90.07	77.98	65.89	53.80
<b>13. LILO of Chamera- Moga transmission line along with associated bays at Jalandhar</b>						
		<b>2004-05</b>	<b>2005-06</b>	<b>2006-07</b>	<b>2007-08</b>	<b>2008-09</b>
Gross Loan	5228.21					



Addition due to Additional Capitalisation	0.00					
Addition due to FERV	-14.45					
Gross Normative Loan	5213.76	5213.76	5213.76	5213.76	5213.76	5213.76
Cumulative Repayment up to Previous Year		277.10	697.43	1123.90	1550.37	1976.83
Net Loan-Opening		4936.66	4516.33	4089.86	3663.40	3236.93
Repayment during the year		420.33	426.47	426.47	426.47	426.47
Net Loan-Closing		4516.33	4089.86	3663.40	3236.93	2810.46
Average Loan		4726.50	4303.10	3876.63	3450.16	3023.70
Weighted Average Rate of Interest on Loan		7.7406%	7.5920%	7.4087%	7.1801%	6.8871%
Interest		365.86	326.69	287.21	247.73	208.24
<b>14. 400 KV D/C Nathpa Jhakri- Nalagarh transmission line with associated bays and 2 nos. 400 KV bays at Nalagarh for Kunihar</b>						
		<b>2004-05</b>	<b>2005-06</b>	<b>2006-07</b>	<b>2007-08</b>	<b>2008-09</b>
Gross Loan	25375.01					
Addition due to Additional Capitalisation	87.39					
Addition due to FERV	0.00					
Gross Normative Loan	25462.40	25462.40	25462.40	25462.40	25462.40	25462.40
Cumulative Repayment up to Previous Year		2638.68	5032.50	7436.57	9878.16	12360.87
Net Loan-Opening		22823.72	20429.90	18025.83	15584.24	13101.53
Repayment during the year		2393.82	2404.07	2441.59	2482.71	2274.65
Net Loan-Closing		20429.90	18025.83	15584.24	13101.53	10826.88
Average Loan		21626.81	19227.87	16805.04	14342.88	11964.20
Weighted Average Rate of Interest on Loan		7.6274%	7.5053%	7.3530%	7.1619%	6.9601%
Interest		1649.56	1443.11	1235.67	1027.22	832.72
<b>15. 400 KV D/C Nathpa Jhakri-Abdullapur transmission line, ICT-I, Bus Reactor and 2 Nos 220 KV bays at Abdullapur for Tepla(HVPLN)</b>						
		<b>2004-05</b>	<b>2005-06</b>	<b>2006-07</b>	<b>2007-08</b>	<b>2008-09</b>
Gross Loan	27536.54					
Addition due to Additional Capitalisation	24.63					
Addition due to FERV	0.00					
Gross Normative Loan	27561.17	27561.17	27561.17	27561.17	27561.17	27561.17
Cumulative Repayment up to Previous Year		6737.86	8797.26	10868.85	12940.44	15012.04
Net Loan-Opening		20823.31	18763.91	16692.32	14620.72	12549.13
Repayment during the year		2059.40	2071.59	2071.59	2071.59	1852.06
Net Loan-Closing		18763.91	16692.32	14620.72	12549.13	10697.07
Average Loan		19793.61	17728.11	15656.52	13584.93	11623.10
Weighted Average Rate of Interest on Loan		7.7322%	7.6483%	7.5414%	7.4019%	7.2729%
Interest		1530.47	1355.90	1180.72	1005.55	845.34

(d) Summary of the transmission charges awarded

(Rs. in lakh)

315 MVA ICT-II at Malerkotla sub-station						
	2004-05	2005-06	2006-07	2007-08	2008-09	
Depreciation	33.06	33.06	33.06	33.06	24.18	
Interest on Loan	6.00	3.92	1.84	0.40	0.00	
Return on Equity	64.28	64.28	64.28	64.28	64.28	
Advance against Depreciation	0.00	0.00	0.00	0.00	0.00	
Interest on Working Capital	3.93	4.00	4.09	4.19	4.16	

O & M Expenses	28.12	29.25	30.42	31.63	32.90
<b>Total</b>	<b>135.38</b>	<b>134.51</b>	<b>133.68</b>	<b>133.55</b>	<b>125.51</b>

**400 KV Hissar- Jaipur transmission line with associated bays**

	<b>2004-05</b>	<b>2005-06</b>	<b>2006-07</b>	<b>2007-08</b>	<b>2008-09</b>
Depreciation	308.42	308.42	308.42	308.42	308.42
Interest on Loan	322.99	285.70	248.40	211.10	173.81
Return on Equity	392.06	392.06	392.06	392.06	392.06
Advance against Depreciation	0.00	0.00	0.00	174.22	179.81
Interest on Working Capital	38.00	38.50	39.08	42.74	43.55
O & M Expenses	119.07	123.82	128.93	133.84	139.42
<b>Total</b>	<b>1180.54</b>	<b>1148.50</b>	<b>1116.88</b>	<b>1262.37</b>	<b>1237.07</b>

**400 KV Bawana- Bhiwani transmission line (Ckt-I) and Bawana- Bhiwani transmission line (Ckt-II) with associated bays**

	<b>2004-05</b>	<b>2005-06</b>	<b>2006-07</b>	<b>2007-08</b>	<b>2008-09</b>
Depreciation	208.64	208.64	208.64	208.64	208.64
Interest on Loan	248.52	219.88	191.24	162.60	133.96
Return on Equity	124.82	124.82	124.82	124.82	124.82
Advance against Depreciation	87.60	166.72	166.72	166.72	166.72
Interest on Working Capital	26.09	27.76	28.11	28.50	28.95
O & M Expenses	129.30	134.47	139.96	145.37	151.36
<b>Total</b>	<b>824.97</b>	<b>882.29</b>	<b>859.49</b>	<b>836.65</b>	<b>814.45</b>

**400 KV D/C Abdullapur-Bawana transmission line with associated bays, 315 MVA ICT-II at Abdullapur sub-station, 220 KV Jorian (HVPNL) bay at Abdullapur sub-station; and 400 KV D/C Nalagarh- Hissar transmission line with associated bays**

	<b>2004-05</b>	<b>2005-06</b>	<b>2006-07</b>	<b>2007-08</b>	<b>2008-09</b>
Depreciation	1334.22	1334.22	1334.22	1334.22	1334.22
Interest on Loan	2016.84	1759.40	1501.95	1244.51	1014.23
Return on Equity	1052.04	1052.04	1052.04	1052.04	1052.04
Advance against Depreciation	0.00	1659.00	1930.74	1930.74	1532.38
Interest on Working Capital	152.02	180.67	185.48	185.80	179.98
O & M Expenses	441.91	459.56	478.41	496.79	517.37
<b>Total</b>	<b>4997.03</b>	<b>6444.89</b>	<b>6482.85</b>	<b>6244.10</b>	<b>5630.22</b>

**ICT- I at Nalagarh with associated bays**

	<b>2004-05</b>	<b>2005-06</b>	<b>2006-07</b>	<b>2007-08</b>	<b>2008-09</b>
Depreciation	51.91	51.91	51.91	51.91	51.91
Interest on Loan	59.95	55.41	49.60	43.80	38.25
Return on Equity	36.39	36.39	36.39	36.39	36.39
Advance against Depreciation	0.00	0.00	0.00	0.00	0.00
Interest on Working Capital	5.20	5.26	5.31	5.37	5.44
O & M Expenses	28.12	29.25	30.42	31.63	32.90
<b>Total</b>	<b>181.57</b>	<b>178.22</b>	<b>173.63</b>	<b>169.10</b>	<b>164.89</b>

**ICT- II at Nalagarh with associated bays**

	<b>2004-05</b>	<b>2005-06</b>	<b>2006-07</b>	<b>2007-08</b>	<b>2008-09</b>
Depreciation	45.91	45.91	45.91	45.91	45.91
Interest on Loan	41.68	37.65	33.62	29.59	25.88
Return on Equity	24.96	24.96	24.96	24.96	24.96
Advance against Depreciation	0.00	0.00	0.00	0.00	0.00
Interest on Working Capital	4.37	4.43	4.50	4.57	4.66
O & M Expenses	28.12	29.25	30.42	31.63	32.90
<b>Total</b>	<b>145.04</b>	<b>142.20</b>	<b>139.41</b>	<b>136.67</b>	<b>134.31</b>

ICT- II at Jalandhar with associated bays					
	2004-05	2005-06	2006-07	2007-08	2008-09
Depreciation	48.14	48.14	48.14	48.14	48.14
Interest on Loan	98.32	77.10	55.89	34.68	18.78
Return on Equity	45.40	45.40	45.40	45.40	45.40
Advance against Depreciation	81.56	81.56	81.56	81.56	77.18
Interest on Working Capital	7.63	7.41	7.19	6.98	6.79
O & M Expenses	56.24	58.50	60.84	63.26	65.80
<b>Total</b>	<b>337.28</b>	<b>318.11</b>	<b>299.02</b>	<b>280.02</b>	<b>262.09</b>

Bus Reactor with associated bays at Nalagarh					
	2004-05	2005-06	2006-07	2007-08	2008-09
Advance against Depreciation	0.00	0.00	0.00	0.00	0.00
Depreciation	21.35	21.35	21.35	21.35	21.35
Interest on Loan	16.46	15.09	13.71	12.34	11.06
Return on Equity	12.78	12.78	12.78	12.78	12.78
Interest on Working Capital	2.39	2.44	2.50	2.56	2.62
O & M Expenses	28.12	29.25	30.42	31.63	32.90
<b>Total</b>	<b>81.1</b>	<b>80.91</b>	<b>80.76</b>	<b>80.66</b>	<b>80.71</b>

ICT-I at Jaipur (Bassi) with associated bays					
	2004-05	2005-06	2006-07	2007-08	2008-09
Depreciation	84.78	84.78	84.78	84.78	84.78
Interest on Loan	166.07	146.64	127.21	107.78	88.35
Return on Equity	66.01	66.01	66.01	66.01	66.01
Advance against Depreciation	0.00	0.00	81.63	103.82	103.82
Interest on Working Capital	11.32	11.28	12.66	13.03	13.03
O & M Expenses	112.48	117.00	121.68	126.52	131.60
<b>Total</b>	<b>440.66</b>	<b>425.70</b>	<b>493.97</b>	<b>501.94</b>	<b>487.59</b>

2 Nos. LILO bays associated with ICT-I at Jaipur					
	2004-05	2005-06	2006-07	2007-08	2008-09
Depreciation	7.79	7.79	7.79	7.79	7.79
Interest on Loan	14.24	12.57	10.91	9.24	7.57
Return on Equity	5.66	5.66	5.66	5.66	5.66
Advance against Depreciation	0.00	0.12	8.37	8.37	8.37
Interest on Working Capital	2.15	2.20	2.39	2.43	2.49
O & M Expenses	56.24	58.50	60.84	63.26	65.80
<b>Total</b>	<b>86.08</b>	<b>86.84</b>	<b>95.95</b>	<b>96.76</b>	<b>97.68</b>

ICT-II at Jaipur (Bassi) with associated bays					
	2004-05	2005-06	2006-07	2007-08	2008-09
Depreciation	29.50	29.50	29.50	29.50	29.50
Interest on Loan	69.40	60.76	52.12	43.49	34.85
Return on Equity	16.71	16.71	16.71	16.71	16.71
Advance against Depreciation	0.02	40.50	40.50	40.50	40.50
Interest on Working Capital	4.46	5.13	5.11	5.09	5.07
O & M Expenses	56.24	58.50	60.84	63.26	65.80
<b>Total</b>	<b>176.32</b>	<b>211.10</b>	<b>204.78</b>	<b>198.54</b>	<b>192.43</b>

220 KV D/C Jalandhar- Dasuya transmission line along with associated bays at Jalandhar & Dasuya					
	2004-05	2005-06	2006-07	2007-08	2008-09
Depreciation	41.93	41.93	41.93	41.93	41.93

Interest on Loan	101.90	90.07	77.98	65.89	53.80
Return on Equity	42.58	42.58	42.58	42.58	42.58
Advance against Depreciation	0.00	38.46	74.44	74.44	74.44
Interest on Working Capital	8.61	9.33	10.01	10.07	10.15
O & M Expenses	135.06	140.48	146.15	151.89	158.06
<b>Total</b>	<b>330.08</b>	<b>362.85</b>	<b>393.08</b>	<b>386.80</b>	<b>380.96</b>

LILO of Chamera- Moga transmission line along with associated bays at Jalandhar					
	2004-05	2005-06	2006-07	2007-08	2008-09
Depreciation	211.53	211.53	211.53	211.53	211.53
Interest on Loan	365.86	326.69	287.21	247.73	208.24
Return on Equity	182.48	182.48	182.48	182.48	182.48
Advance against Depreciation	0.00	0.00	88.16	214.93	214.93
Interest on Working Capital	25.98	25.98	27.54	29.81	29.92
O & M Expenses	171.08	177.95	185.08	192.43	200.17
<b>Total</b>	<b>956.94</b>	<b>924.64</b>	<b>982.01</b>	<b>1078.92</b>	<b>1047.28</b>
400 KV D/C Nathpa Jhakri- Nalagarh transmission line with associated bays and 2 nos. 400 KV bays at Nalagarh for Kunihar					
	2004-05	2005-06	2006-07	2007-08	2008-09
Depreciation	881.25	881.25	881.25	881.25	881.25
Interest on Loan	1649.56	1443.11	1235.67	1027.22	832.72
Return on Equity	1154.48	1154.48	1154.48	1154.48	1154.48
Advance against Depreciation	1512.57	1522.82	1560.34	1601.46	1393.40
Interest on Working Capital	135.19	134.32	134.06	133.98	130.00
O & M Expenses	290.33	301.96	314.20	326.47	339.80
<b>Total</b>	<b>5623.38</b>	<b>5437.94</b>	<b>5280.00</b>	<b>5124.87</b>	<b>4731.65</b>
400 KV D/C Nathpa Jhakri-Abdullapur transmission line, ICT-I, Bus Reactor and 2 Nos 220 KV bays at Abdullapur for Tepla(HVPNL)					
	2004-05	2005-06	2006-07	2007-08	2008-09
Depreciation	939.58	939.58	939.58	939.58	939.58
Interest on Loan	1530.47	1355.90	1180.72	1005.55	845.34
Return on Equity	1006.53	1006.53	1006.53	1006.53	1006.53
Advance against Depreciation	1119.82	1132.01	1132.01	1132.01	912.48
Interest on Working Capital	125.56	125.33	125.03	124.88	121.36
O & M Expenses	278.37	289.51	301.29	312.99	325.84
<b>Total</b>	<b>5000.33</b>	<b>4848.85</b>	<b>4685.16</b>	<b>4521.54</b>	<b>4151.13</b>

## 5. Revised tariff for the period 2001-04

- Date of order: 8.2.2008 in Petition No. 73/2002
- Equity and return on equity

Name of the asset	Year	Equity	Return on equity
400 kV D/C Abdullapur-Bawana transmission line with associated bays,315 MVA ICT-II at Abdullapur sub-station,220 kV Jorian (HVPNL) bay at Abdullapur sub-station and 400 kV D/C Nalagarh Hissar transmission line with associated bays	2001-02	6821.44	1091.43
	2002-03	6821.44	1091.43
	2003-04	6821.44	1091.43

ICT-I at Nalagarh	2001-02	228.88	36.62
	2002-03	228.88	36.62
	2003-04	228.88	36.62
ICT-II at Nalagarh	2001-02	139.91	22.39
	2002-03	139.91	22.39
	2003-04	139.91	22.39
Bus Reactor with associated bays at Nalagarh	2001-02	69.17	11.07
	2002-03	69.17	11.07
	2003-04	69.17	11.07
220 kV D/C Jalandhar-Dasuya transmission line along with associated bays at Jalandhar & Dasuya	2001-02	320.17	51.23
	2002-03	320.17	51.23
	2003-04	320.17	51.23
400/220 kV ICT-I and LILO of Chamera-Moga transmission line along with associated bays at Jalandhar	2001-02	1410.51	225.68
	2002-03	1410.51	225.68
	2003-04	1410.51	225.68

(c) Computation of interest on loan

(Rs in lakh)

Name of the asset	Year	Gross Loan-Opening	Cumulative Repayment up to previous year	Net Loan Opening	Repayment during the year	Net Loan Closing	Interest
1. 400 kV D/C Abdullapur-Bawana transmission line with associated bays, 315 MVA ICT-II at Abdullapur sub-station, 220 kV Jorian (HVPNL) bay at Abdullapur sub-station and 400 kV D/C Nalagarh Hissar line with associated bays	2001-02	42394.33	83.08	42311.25	4692.42	37618.82	5531.47
	2002-03	42394.33	4775.50	37618.82	2310.76	35308.07	4938.49
	2003-04	42394.33	7086.26	35308.07	2954.70	32353.36	3660.77
2. ICT-I at Nalagarh	2001-02	1249.30	0.00	1249.30	36.00	1213.30	113.52
	2002-03	1249.30	36.00	1213.30	1.20	1212.10	109.46
	2003-04	1249.30	37.20	1212.10	32.99	1179.11	100.10
3. ICT-II at Nalagarh	2001-02	1176.41	0.49	1175.92	45.51	1130.41	105.36
	2002-03	1176.41	46.00	1130.41	1.50	1128.91	100.20
	2003-04	1176.41	47.50	1128.91	37.51	1091.40	88.54
4. Bus Reactor with associated bays at Nalagarh	2001-02	547.25	0.00	547.25	13.00	534.25	43.95
	2002-03	547.25	13.00	534.25	7.61	526.64	42.19
	2003-04	547.25	20.61	526.64	9.97	516.66	38.08

5. 220 kV D/C Jalandhar-Dasuya transmission line alongwith associated bays at Jalandhar & Dasuya	2001-02	1207.25	0.00	1207.25	0.00	1207.25	130.70
	2002-03	1207.25	0.00	1207.25	0.00	1207.25	128.91
	2003-04	1207.25	0.00	1207.25	95.50	1111.75	119.64
6. 400/220 kV ICT-I and LILO of Chamera-Moga transmission line along with associated bays at Jalandhar	2001-02	5226.92	0.00	5226.92	0.00	5226.92	508.77
	2002-03	5226.92	0.00	5226.92	0.00	5226.92	507.54
	2003-04	5226.92	0.00	5226.92	277.87	4949.05	486.96

## 6. Revised tariff computation for the period 2004-09

### (a) Equity and return on equity

(Rs. in lakh)

	Details of the Assets	Equity As per last Order/revision	Addition due to additional capitalization	Addition due to FERV	Equity	Return on equity
1	400 KV D/C Abdullapur-Bawana transmission line with associated bays, 315 MVA ICT-II at Abdullapur sub-station, 220 KV Jorian (HVPNL) bay at Abdullapur sub-station; and 400 KV D/C Nalagarh- Hissar transmission line with associated bays	6821.44	377.92	0.00	7199.36	1007.91
2	ICT- I at Nalagarh with associated bays	228.88	0.00	0.00	228.88	32.04
3	ICT- II at Nalagarh with associated bays	139.91	0.00	0.00	139.91	19.59
4	Bus Reactor with associated bays at Nalagarh	69.17	0.00	0.00	69.17	9.68
5	220 KV D/C Jalandhar- Dasuya transmission line along with associated bays at Jalandhar & Dasuya	320.17	19.26	0.00	339.43	47.52

6	LILO of Chamera-Moga transmission line along with associated bays at Jalandhar	1410.51	0.00	0.00	1410.51	197.47
7	400 KV D/C Nathpa Jhakri-Nalagarh transmission line with associated bays and 2 nos. 400 KV bays at Nalagarh for Kunihar	8353.29	0.00	0.00	8353.29	1169.46
8	400 KV D/C Nathpa Jhakri-Abdullapur transmission line, ICT-I, Bus Reactor and 2 Nos 220 KV bays at Abdullapur for Tepla(HVPNL)	7213.06	0.00	0.00	7213.06	1009.83

(b) Interest on loan

(Rs. in lakh)

1. 400 KV D/C Abdullapur-Bawana transmission line with associated bays, 315 MVA ICT-II at Abdullapur sub-station, 220 KV Jorian (HVPNL) bay at Abdullapur sub-station; and 400 KV D/C Nalagarh- Hissar transmission line with associated bays						
		2004-05	2005-06	2006-07	2007-08	2008-09
Gross Loan as on 1.4.2001	42394.33					
Addition due to Additional Capitalisation during 2001-04	0.00					
Addition due to FERV during 2001-04	(-) 322.71					
Gross Normative Loan	42071.61	42071.61	42071.61	42071.61	42071.61	42071.61
Cumulative Repayment up to Previous Year		10045.58	13336.61	16627.64	19918.67	23209.70
Net Loan-Opening		32026.03	28735.00	25443.97	22152.94	18861.91
Repayment during the year		3291.03	3291.03	3291.03	3291.03	2889.49
Net Loan-Closing		28735.00	25443.97	22152.94	18861.91	15972.42
Average Loan		30380.51	27089.48	23798.45	20507.42	17417.16
Weighted Average Rate of Interest on Loan		6.6916%	6.5466%	6.3615%	6.1170%	5.8696%
Interest		2032.94	1773.44	1513.94	1254.44	1022.33
2. ICT- I at Nalagarh with associated bays						
		2004-05	2005-06	2006-07	2007-08	2008-09
Gross Loan as on 1.4.2001	1249.30					
Addition due to Additional Capitalisation during 2001-04	0.00					
Addition due to FERV during 2001-04	(-) 36.24					
Gross Normative Loan	1213.06	1213.06	1213.06	1213.06	1213.06	1213.06
Cumulative Repayment up to Previous Year		70.04	132.68	220.33	307.97	395.62
Net Loan-Opening		1143.03	1080.38	992.74	905.09	817.44
Repayment during the year		62.64	87.65	87.65	87.65	83.85

Net Loan-Closing		1080.38	992.74	905.09	817.44	733.59
Average Loan		1111.70	1036.56	948.91	861.26	775.52
Weighted Average Rate of Interest on Loan		5.5350%	5.4864%	5.3655%	5.2199%	5.0625%
Interest		61.53	56.87	50.91	44.96	39.26
<b>3. ICT- II at Nalagarh with associated bays</b>						
		<b>2004-05</b>	<b>2005-06</b>	<b>2006-07</b>	<b>2007-08</b>	<b>2008-09</b>
Gross Loan as on 1.4.2001	1176.41					
Addition due to Additional Capitalisation during 2001-04	0.00					
Addition due to FERV during 2001-04	(-) 40.97					
Gross Normative Loan	1135.45	1135.45	1135.45	1135.45	1135.45	1135.45
Cumulative Repayment up to Previous Year		84.91	160.20	235.49	310.79	386.08
Net Loan-Opening		1050.54	975.25	899.95	824.66	749.36
Repayment during the year		75.29	75.29	75.29	75.29	70.49
Net Loan-Closing		975.25	899.95	824.66	749.36	678.87
Average Loan		1012.89	937.60	862.30	787.01	714.12
Weighted Average Rate of Interest on Loan		4.2608%	4.1580%	4.0373%	3.8934%	3.7525%
Interest		43.16	38.99	34.81	30.64	26.80
<b>4. Bus Reactor with associated bays at Nalagarh.</b>						
		<b>2004-05</b>	<b>2005-06</b>	<b>2006-07</b>	<b>2007-08</b>	<b>2008-09</b>
Gross Loan as on 1.4.2001	547.25					
Addition due to Additional Capitalisation	0.00					
Addition due to FERV	(-) 23.41					
Gross Normative Loan	523.84	523.84	523.84	523.84	523.84	523.84
Cumulative Repayment up to Previous Year		30.70	62.07	93.43	124.80	156.17
Net Loan-Opening		493.14	461.77	430.40	399.03	367.67
Repayment during the year		31.37	31.37	31.37	31.37	29.97
Net Loan-Closing		461.77	430.40	399.03	367.67	337.70
Average Loan		477.45	446.09	414.72	383.35	352.68
Weighted Average Rate of Interest on Loan		3.6009%	3.5328%	3.4543%	3.3631%	3.2761%
Interest		17.19	15.76	14.33	12.89	11.55
<b>5. 220 KV D/C Jalandhar- Dasuya transmission line along with associated bays at Jalandhar &amp; Dasuya</b>						
		<b>2004-05</b>	<b>2005-06</b>	<b>2006-07</b>	<b>2007-08</b>	<b>2008-09</b>
Gross Loan as on 1.4.2001	1207.25					
Addition due to Additional Capitalisation	(-) 11.13					
Addition due to FERV	(-) 14.83					
Gross Normative Loan	1181.29	1181.29	1181.29	1181.29	1181.29	1181.29
Cumulative Repayment up to Previous Year		93.45	201.48	314.46	427.45	540.44
Net Loan-Opening		1087.85	979.82	866.83	753.84	640.85
Repayment during the year		108.03	112.99	112.99	112.99	112.99
Net Loan-Closing		979.82	866.83	753.84	640.85	527.86
Average Loan		1033.83	923.32	810.33	697.35	584.36
Weighted Average Rate of Interest on Loan		9.5703%	9.4722%	9.3443%	9.1749%	8.9400%
Interest		98.94	87.46	75.72	63.98	52.24
<b>6. LILO of Chamera- Moga transmission line along with associated bays at Jalandhar</b>						
		<b>2004-05</b>	<b>2005-06</b>	<b>2006-07</b>	<b>2007-08</b>	<b>2008-09</b>
Gross Loan as on 1.4.2001	5226.92					
Addition due to Additional Capitalisation during 2001-04	0.00					
Addition due to FERV during 2001-04	(-) 120.22					
Gross Normative Loan	5106.69	5106.69	5106.69	5106.69	5106.69	5106.69
Cumulative Repayment up to Previous Year		271.48	683.17	1100.87	1518.58	1936.28
Net Loan-Opening		4835.22	4423.52	4005.82	3588.12	3170.41



Repayment during the year		411.70	417.70	417.70	417.70	417.70
Net Loan-Closing		4423.52	4005.82	3588.12	3170.41	2752.71
Average Loan		4629.37	4214.67	3796.97	3379.26	2961.56
Weighted Average Rate of Interest on Loan		7.7406%	7.5920%	7.4087%	7.1801%	6.8871%
Interest		358.34	319.98	281.31	242.64	203.96
<b>7. 400 KV D/C Nathpa Jhakri- Nalagarh transmission line with associated bays and 2 nos. 400 KV bays at Nalagarh for Kunihar</b>						
		<b>2004-05</b>	<b>2005-06</b>	<b>2006-07</b>	<b>2007-08</b>	<b>2008-09</b>
Gross Loan as on 1.4.2001	25375.01					
Addition due to Additional Capitalisation during 2001-04	87.39					
Addition due to FERV during 2001-04	(-) 107.01					
Gross Normative Loan	25355.39	25355.39	25355.39	25355.39	25355.39	25355.39
Cumulative Repayment up to Previous Year		2628.70	5012.34	7406.19	9837.41	12309.56
Net Loan-Opening		22726.69	20343.05	17949.20	15517.99	13045.83
Repayment during the year		2383.64	2393.85	2431.21	2472.16	2264.98
Net Loan-Closing		20343.05	17949.20	15517.99	13045.83	10780.85
Average Loan		21534.87	19146.13	16733.59	14281.91	11913.34
Weighted Average Rate of Interest on Loan		7.6274%	7.5053%	7.3530%	7.1619%	6.9601%
Interest		1642.55	1436.97	1230.42	1022.86	829.18
<b>8. 400 KV D/C Nathpa Jhakri-Abdullapur transmission line, ICT-I, Bus Reactor and 2 Nos 220 KV bays at Abdullapur for Tepla(HVPLN)</b>						
		<b>2004-05</b>	<b>2005-06</b>	<b>2006-07</b>	<b>2007-08</b>	<b>2008-09</b>
Gross Loan as on 1.4.2001	27536.54					
Addition due to Additional Capitalisation during 2001-04	24.63					
Addition due to FERV during 2001-04	(-) 23.58					
Gross Normative Loan	27537.58	27537.58	27537.58	27537.58	27537.58	27537.58
Cumulative Repayment up to Previous Year		6735.80	8793.07	10862.52	12931.97	15001.42
Net Loan-Opening		20801.78	18744.51	16675.06	14605.61	12536.16
Repayment during the year		2057.27	2069.45	2069.45	2069.45	1850.14
Net Loan-Closing		18744.51	16675.06	14605.61	12536.16	10686.02
Average Loan		19773.15	17709.79	15640.34	13570.89	11611.09
Weighted Average Rate of Interest on Loan		7.7322%	7.6483%	7.5414%	7.4019%	7.2729%
Interest		1528.89	1354.49	1179.50	1004.51	844.47

(c) Advance Against Depreciation

(Rs. in lakh)

<b>1. 400 KV D/C Abdullapur-Bawana transmission line with associated bays, 315 MVA ICT-II at Abdullapur sub-station, 220 KV Jorian (HVPLN) bay at Abdullapur sub-station; and 400 KV D/C Nalagarh- Hissar transmission line with associated bays</b>					
	<b>2004-05</b>	<b>2005-06</b>	<b>2006-07</b>	<b>2007-08</b>	<b>2008-09</b>
1/10th of Gross Loan(s)	4207.16	4207.16	4207.16	4207.16	4207.16
Repayment of the Loan	3291.03	3291.03	3291.03	3291.03	2889.49
Minimum of the above	3291.03	3291.03	3291.03	3291.03	2889.49
Depreciation during the year	1334.22	1334.22	1334.22	1334.22	1334.22
(A) Difference	1956.81	1956.81	1956.81	1956.81	1555.27
Cumulative Repayment of the Loan	13336.61	16627.64	19918.67	23209.70	26099.19
Cumulative Depreciation/ Advance against Depreciation	13525.23	14859.46	17961.86	21252.89	24543.93
(B) Difference	(-) 188.62	1768.19	1956.81	1956.81	1555.27
Advance against Depreciation	0.00	1768.19	1956.81	1956.81	1555.27

Minimum of (A) and (B)					
<b>2. ICT- I at Nalagarh with associated bays</b>					
	<b>2004-05</b>	<b>2005-06</b>	<b>2006-07</b>	<b>2007-08</b>	<b>2008-09</b>
1/10th of Gross Loan(s)	121.31	121.31	121.31	121.31	121.31
Repayment of the Loan	62.64	87.65	87.65	87.65	83.85
Minimum of the above	62.64	87.65	87.65	87.65	83.85
Depreciation during the year	51.91	51.91	51.91	51.91	51.91
(A) Difference	10.73	35.74	35.74	35.74	31.94
Cumulative Repayment of the Loan	132.68	220.33	307.97	395.62	479.47
Cumulative Depreciation/ Advance against Depreciation	279.52	331.43	383.34	435.25	487.16
(B) Difference	(-)146.84	-111.10	-75.36	-39.62	-7.69
Advance against Depreciation Minimum of (A) and (B)	0.00	0.00	0.00	0.00	0.00
<b>3. ICT- II at Nalagarh with associated bays</b>					
	<b>2004-05</b>	<b>2005-06</b>	<b>2006-07</b>	<b>2007-08</b>	<b>2008-09</b>
1/10th of Gross Loan(s)	113.54	113.54	113.54	113.54	113.54
Repayment of the Loan	75.29	75.29	75.29	75.29	70.49
Minimum of the above	75.29	75.29	75.29	75.29	70.49
Depreciation during the year	45.91	45.91	45.91	45.91	45.91
(A) Difference	29.38	29.38	29.38	29.38	24.58
Cumulative Repayment of the Loan	160.20	235.49	310.79	386.08	456.58
Cumulative Depreciation/ Advance against Depreciation	296.86	342.78	388.69	434.60	480.52
(B) Difference	(-) 136.66	-107.28	-77.90	-48.52	-23.94
Advance against Depreciation Minimum of (A) and (B)	0.00	0.00	0.00	0.00	0.00
<b>4. Bus Reactor with associated bays at Nalagarh.</b>					
	<b>2004-05</b>	<b>2005-06</b>	<b>2006-07</b>	<b>2007-08</b>	<b>2008-09</b>
1/10th of Gross Loan(s)	52.38	52.38	52.38	52.38	52.38
Repayment of the Loan	31.37	31.37	31.37	31.37	29.97
Minimum of the above	31.37	31.37	31.37	31.37	29.97
Depreciation during the year	21.35	21.35	21.35	21.35	21.35
(A) Difference	10.02	10.02	10.02	10.02	8.62
Cumulative Repayment of the Loan	62.07	93.43	124.80	156.17	186.14
Cumulative Depreciation/ Advance against Depreciation	134.69	156.04	177.39	198.73	220.08
(B) Difference	(-) 72.63	-62.61	-52.59	-42.57	-33.95
Advance against Depreciation Minimum of (A) and (B)	0.00	0.00	0.00	0.00	0.00
<b>5. 220 KV D/C Jalandhar- Dasuya transmission line along with associated bays at Jalandhar &amp; Dasuya</b>					
	<b>2004-05</b>	<b>2005-06</b>	<b>2006-07</b>	<b>2007-08</b>	<b>2008-09</b>
1/10th of Gross Loan(s)	118.13	118.13	118.13	118.13	118.13
Repayment of the Loan	108.03	112.99	112.99	112.99	112.99
Minimum of the above	108.03	112.99	112.99	112.99	112.99
Depreciation during the year	41.93	41.93	41.93	41.93	41.93
(A) Difference	66.10	71.06	71.06	71.06	71.06
Cumulative Repayment of the Loan	201.48	314.46	427.45	540.44	653.43
Cumulative Depreciation/ Advance against Depreciation	243.46	285.39	356.39	469.38	582.37
(B) Difference	(-) 41.98	29.08	71.06	71.06	71.06
Advance against Depreciation Minimum of (A) and (B)	0.00	29.08	71.06	71.06	71.06

6. LILO of Chamera- Moga transmission line along with associated bays at Jalandhar					
	2004-05	2005-06	2006-07	2007-08	2008-09
1/10th of Gross Loan(s)	510.67	510.67	510.67	510.67	510.67
Repayment of the Loan	411.70	417.70	417.70	417.70	417.70
Minimum of the above	411.70	417.70	417.70	417.70	417.70
Depreciation during the year	211.53	211.53	211.53	211.53	211.53
(A) Difference	200.16	206.17	206.17	206.17	206.17
Cumulative Repayment of the Loan	683.17	1100.87	1518.58	1936.28	2353.99
Cumulative Depreciation/ Advance against Depreciation	1039.14	1250.67	1462.20	1730.11	2147.81
(B) Difference	(-) 355.97	-149.80	56.37	206.17	206.17
Advance against Depreciation Minimum of (A) and (B)	0.00	0.00	56.37	206.17	206.17
7. 400 KV D/C Nathpa Jhakri- Nalagarh transmission line with associated bays and 2 nos. 400 KV bays at Nalagarh for Kunihar					
	2004-05	2005-06	2006-07	2007-08	2008-09
1/10th of Gross Loan(s)	2535.54	2535.54	2535.54	2535.54	2535.54
Repayment of the Loan	2383.64	2393.85	2431.21	2472.16	2264.98
Minimum of the above	2383.64	2393.85	2431.21	2472.16	2264.98
Depreciation during the year	881.25	881.25	881.25	881.25	881.25
(A) Difference	1502.39	1512.60	1549.96	1590.91	1383.73
Cumulative Repayment of the Loan	5012.34	7406.19	9837.41	12309.56	14574.54
Cumulative Depreciation/ Advance against Depreciation	2994.44	5378.08	7771.92	10203.14	12675.30
(B) Difference	2017.91	2028.11	2065.48	2106.42	1899.25
Advance against Depreciation Minimum of (A) and (B)	1502.39	1512.60	1549.96	1590.91	1383.73
8. 400 KV D/C Nathpa Jhakri-Abdullapur transmission line, ICT-I, Bus Reactor and 2 Nos 220 KV bays at Abdullapur for Tepla(HVPL)					
	2004-05	2005-06	2006-07	2007-08	2008-09
1/10th of Gross Loan(s)	2753.76	2753.76	2753.76	2753.76	2753.76
Repayment of the Loan	2057.27	2069.45	2069.45	2069.45	1850.14
Minimum of the above	2057.27	2069.45	2069.45	2069.45	1850.14
Depreciation during the year	939.58	939.58	939.58	939.58	939.58
(A) Difference	1117.69	1129.87	1129.87	1129.87	910.56
Cumulative Repayment of the Loan	8793.07	10862.52	12931.97	15001.42	16851.57
Cumulative Depreciation/ Advance against Depreciation	2929.26	4986.53	7055.98	9125.43	11194.88
(B) Difference	5863.82	5876.00	5876.00	5876.00	5656.69
Advance against Depreciation Minimum of (A) and (B)	1117.69	1129.87	1129.87	1129.87	910.56

(d) Interest on Working Capital

(Rs. in lakh)

1. 400 KV D/C Abdullapur-Bawana transmission line with associated bays, 315 MVA ICT-II at Abdullapur sub-station, 220 KV Jorian (HVPL) bay at Abdullapur sub-station; and 400 KV D/C Nalagarh- Hissar transmission line with associated bays					
	2004-05	2005-06	2006-07	2007-08	2008-09
Maintenance Spares	613.42	650.22	689.24	730.59	774.42
O & M expenses	36.83	38.30	39.87	41.40	43.11
Receivables	828.09	1087.56	1079.44	1039.30	936.14
Total	1,478.33	1,776.08	1,808.55	1,811.29	1,753.68
Interest	<b>151.53</b>	<b>182.05</b>	<b>185.38</b>	<b>185.66</b>	<b>179.75</b>

2. ICT- I at Nalagarh with associated bays					
	2004-05	2005-06	2006-07	2007-08	2008-09
Maintenance Spares	18.08	19.17	20.32	21.54	22.83
O & M expenses	2.34	2.44	2.54	2.64	2.74
Receivables	29.79	29.21	28.42	27.64	26.92
Total	50.22	50.82	51.28	51.82	52.49
Interest	<b>5.15</b>	<b>5.21</b>	<b>5.26</b>	<b>5.31</b>	<b>5.38</b>
3. ICT- II at Nalagarh with associated bays					
	2004-05	2005-06	2006-07	2007-08	2008-09
Maintenance Spares	16.10	17.07	18.09	19.18	20.33
O & M expenses	2.34	2.44	2.54	2.64	2.74
Receivables	23.51	23.02	22.53	22.04	21.63
Total	41.96	42.52	43.15	43.86	44.70
Interest	<b>4.30</b>	<b>4.36</b>	<b>4.42</b>	<b>4.50</b>	<b>4.58</b>
4. Bus Reactor with associated bays at Nalagarh.					
	2004-05	2005-06	2006-07	2007-08	2008-09
Maintenance Spares	7.44	7.89	8.36	8.86	9.39
O & M expenses	2.34	2.44	2.54	2.64	2.74
Receivables	13.12	13.07	13.04	13.01	13.01
Total	22.90	23.40	23.93	24.51	25.14
Interest	<b>2.35</b>	<b>2.40</b>	<b>2.45</b>	<b>2.51</b>	<b>2.58</b>
5. 220 KV D/C Jalandhar- Dasuya transmission line along with associated bays at Jalandhar & Dasuya					
	2004-05	2005-06	2006-07	2007-08	2008-09
Maintenance Spares	17.73	18.80	19.92	21.12	22.39
O & M expenses	11.26	11.71	12.18	12.66	13.17
Receivables	55.35	59.28	65.40	64.41	63.49
Total	84.34	89.78	97.50	98.18	99.05
Interest	<b>8.64</b>	<b>9.20</b>	<b>9.99</b>	<b>10.06</b>	<b>10.15</b>
6. LILO of Chamera- Moga transmission line along with associated bays at Jalandhar					
	2004-05	2005-06	2006-07	2007-08	2008-09
Maintenance Spares	79.76	84.54	89.62	94.99	100.69
O & M expenses	14.26	14.83	15.42	16.04	16.68
Receivables	160.76	155.51	159.82	180.01	174.88
Total	254.77	254.88	264.86	291.04	292.25
Interest	<b>26.11</b>	<b>26.13</b>	<b>27.15</b>	<b>29.83</b>	<b>29.96</b>
7. 400 KV D/C Nathpa Jhakri- Nalagarh transmission line with associated bays and 2 nos. 400 KV bays at Nalagarh for Kunihar					
	2004-05	2005-06	2006-07	2007-08	2008-09
Maintenance Spares	357.52	378.97	401.71	425.81	451.36
O & M expenses	24.19	25.16	26.18	27.21	28.32
Receivables	936.86	906.09	879.89	854.15	788.91
Total	1,318.57	1,310.22	1,307.78	1,307.17	1,268.59
Interest	<b>135.15</b>	<b>134.30</b>	<b>134.05</b>	<b>133.99</b>	<b>130.03</b>
8. 400 KV D/C Nathpa Jhakri-Abdullapur transmission line, ICT-I, Bus Reactor and 2 Nos 220 KV bays at Abdullapur for Tepla(HVPNL)					
	2004-05	2005-06	2006-07	2007-08	2008-09
Maintenance Spares	368.35	390.45	413.87	438.71	465.03
O & M expenses	23.20	24.13	25.11	26.08	27.15
Receivables	833.32	808.10	780.85	753.61	691.94
Total	1,224.86	1,222.67	1,219.83	1,218.40	1,184.12
Interest	<b>125.55</b>	<b>125.32</b>	<b>125.03</b>	<b>124.89</b>	<b>121.37</b>

## (e) Revised Annual Transmission charges

(Rs. in lakh)

1. 400 KV D/C Abdullapur-Bawana transmission line with associated bays, 315 MVA ICT-II at Abdullapur sub-station, 220 KV Jorian (HVPNL) bay at Abdullapur sub-station; and 400 KV D/C Nalagarh- Hissar transmission line with associated bays					
	2004-05	2005-06	2006-07	2007-08	2008-09
Depreciation	1334.22	1334.22	1334.22	1334.22	1334.22
Interest on Loan	2032.94	1773.44	1513.94	1254.44	1022.33
Return on Equity	1007.91	1007.91	1007.91	1007.91	1007.91
Advance against Depreciation	0.00	1768.19	1956.81	1956.81	1555.27
Interest on Working Capital	151.53	182.05	185.38	185.66	179.75
O & M Expenses	441.91	459.56	478.41	496.79	517.37
<b>Total</b>	<b>4968.52</b>	<b>6525.37</b>	<b>6476.67</b>	<b>6235.83</b>	<b>5616.85</b>
2. ICT- I at Nalagarh with associated bays					
	2004-05	2005-06	2006-07	2007-08	2008-09
Depreciation	51.91	51.91	51.91	51.91	51.91
Interest on Loan	61.53	56.87	50.91	44.96	39.26
Return on Equity	32.04	32.04	32.04	32.04	32.04
Advance against Depreciation	0.00	0.00	0.00	0.00	0.00
Interest on Working Capital	5.15	5.21	5.26	5.31	5.38
O & M Expenses	28.12	29.25	30.42	31.63	32.90
<b>Total</b>	<b>178.75</b>	<b>175.28</b>	<b>170.54</b>	<b>165.85</b>	<b>161.49</b>
3. ICT- II at Nalagarh with associated bays					
	2004-05	2005-06	2006-07	2007-08	2008-09
Depreciation	45.91	45.91	45.91	45.91	45.91
Interest on Loan	43.16	38.99	34.81	30.64	26.80
Return on Equity	19.59	19.59	19.59	19.59	19.59
Advance against Depreciation	0.00	0.00	0.00	0.00	0.00
Interest on Working Capital	4.30	4.36	4.42	4.50	4.58
O & M Expenses	28.12	29.25	30.42	31.63	32.90
<b>Total</b>	<b>141.08</b>	<b>138.09</b>	<b>135.16</b>	<b>132.27</b>	<b>129.78</b>
4. Bus Reactor with associated bays at Nalagarh.					
	2004-05	2005-06	2006-07	2007-08	2008-09
Depreciation	21.35	21.35	21.35	21.35	21.35
Interest on Loan	17.19	15.76	14.33	12.89	11.55
Return on Equity	9.68	9.68	9.68	9.68	9.68
Advance against Depreciation	0.00	0.00	0.00	0.00	0.00
Interest on Working Capital	2.35	2.40	2.45	2.51	2.58
O & M Expenses	28.12	29.25	30.42	31.63	32.90
<b>Total</b>	<b>78.69</b>	<b>78.44</b>	<b>78.23</b>	<b>78.07</b>	<b>78.06</b>
5. 220 KV D/C Jalandhar- Dasuya transmission line along with associated bays at Jalandhar & Dasuya					
	2004-05	2005-06	2006-07	2007-08	2008-09
Depreciation	41.93	41.93	41.93	41.93	41.93
Interest on Loan	98.94	87.46	75.72	63.98	52.24
Return on Equity	47.52	47.52	47.52	47.52	47.52
Advance against Depreciation	0.00	29.08	71.06	71.06	71.06
Interest on Working Capital	8.64	9.20	9.99	10.06	10.15
O & M Expenses	135.06	140.48	146.15	151.89	158.06
<b>Total</b>	<b>332.09</b>	<b>355.67</b>	<b>392.37</b>	<b>386.44</b>	<b>380.96</b>
6. LILO of Chamera- Moga transmission line along with associated bays at Jalandhar					
	2004-05	2005-06	2006-07	2007-08	2008-09
Depreciation	211.53	211.53	211.53	211.53	211.53
Interest on Loan	358.34	319.98	281.31	242.64	203.96

Return on Equity	197.47	197.47	197.47	197.47	197.47
Advance against Depreciation	0.00	0.00	56.37	206.17	206.17
Interest on Working Capital	26.11	26.13	27.15	29.83	29.96
O & M Expenses	171.08	177.95	185.08	192.43	200.17
<b>Total</b>	<b>964.54</b>	<b>933.06</b>	<b>958.91</b>	<b>1080.07</b>	<b>1049.27</b>
<b>7. 400 KV D/C Nathpa Jhakri- Nalagarh transmission line with associated bays and 2 nos. 400 KV bays at Nalagarh for Kunihar</b>					
	<b>2004-05</b>	<b>2005-06</b>	<b>2006-07</b>	<b>2007-08</b>	<b>2008-09</b>
Depreciation	881.25	881.25	881.25	881.25	881.25
Interest on Loan	1642.55	1436.97	1230.42	1022.86	829.18
Return on Equity	1169.46	1169.46	1169.46	1169.46	1169.46
Advance against Depreciation	1502.39	1512.60	1549.96	1590.91	1383.73
Interest on Working Capital	135.15	134.30	134.05	133.99	130.03
O & M Expenses	290.33	301.96	314.20	326.47	339.80
<b>Total</b>	<b>5621.13</b>	<b>5436.54</b>	<b>5279.34</b>	<b>5124.93</b>	<b>4733.45</b>
<b>8. 400 KV D/C Nathpa Jhakri-Abdullapur transmission line, ICT-I, Bus Reactor and 2 Nos 220 KV bays at Abdullapur for Tepla(HVPNL)</b>					
	<b>2004-05</b>	<b>2005-06</b>	<b>2006-07</b>	<b>2007-08</b>	<b>2008-09</b>
Depreciation	939.58	939.58	939.58	939.58	939.58
Interest on Loan	1528.89	1354.49	1179.50	1004.51	844.47
Return on Equity	1009.83	1009.83	1009.83	1009.83	1009.83
Advance against Depreciation	1117.69	1129.87	1129.87	1129.87	910.56
Interest on Working Capital	125.55	125.32	125.03	124.89	121.37
O & M Expenses	278.37	289.51	301.29	312.99	325.84
<b>Total</b>	<b>4999.91</b>	<b>4848.61</b>	<b>4685.10</b>	<b>4521.66</b>	<b>4151.65</b>

Note: The transmission charges in respect of the following assets have not been revised since they do not involve FERV and in their case the transmission charges already shall continue to apply:

1. 315 MVA ICT-II at Malerkotla sub-station
2. 400 KV Hissar- Jaipur transmission line with associated bays
3. 400 KV Bawana- Bhiwani transmission line (Ckt-I) and Bawana- Bhiwani transmission line (Ckt-II) with associated bays
4. ICT-II at Jalandhar with associated bays
5. ICT-I at Jaipur (Bassi) with associated bays
6. 2 Nos. LILO bays associated with ICT-I at Jaipur
7. ICT-II at Jaipur (Bassi) with associated bays

## Annexure-V

1. Petition No. 97/2004
2. Subject: Approval of transmission charges for the transmission system associated with Faridabad Gas Based Combined Power Project in Northern Region for the period from 1.4.2004 to 31.3.2009.
3. Date of order of approval of tariff: 27.1.2006
4. **Original order**
  - (a) Computation of capital cost

(Rs.in lakh)

Name of the Element	Admitted capital cost	Additional Capitalisation	FERV for the period 1.4.2001 to 31.3.2004	Capital expenditure
220 KV D/C Faridabad-Samaypur transmission line with associated bays	2438.33	-	-	2438.33
220 KV D/C Faridabad-Palla Ttransmission line with associated bays	1945.86	178.61	(-) 12.28	2112.19
<b>Total</b>	4384.19	178.61	(-) 12.28	4550.52

### (b) Computation of equity

(Rs. in lakh)

Name of the Element	Equity as on 31.3.2001	Notional equity for additional capitalisation during 2001-04	Notional equity on account of FERV during 2001-04	Total equity
220 KV D/C Faridabad-Samaypur Transmission line with associated bays	1554.33	0.00	0.00	1554.33
220 KV D/C Faridabad-Palla Transmission line with associated bays	1180.27	0.00	(-) 12.28	1167.99

## (c) Computation of interest on loan

(Rs. in lakh)

Details of loan	220 KV D/C Faridabad-Samaypur transmission line with associated bays						220 KV D/C Faridabad-Palla transmission line with associated bays					
	Up to 31.3.2004	2004-05	2005-06	2006-07	2007-08	2008-09	Up to 31.3.2004	2004-05	2005-06	2006-07	2007-08	2008-09
Interest on loan												
Gross Loan	884.00						765.59					
Addition due to Additional Capitalisation	0.00						178.61					
Addition due to FERV	0.00						0.00					
Gross Normative Loan	884.00	884.00	884.00	884.00	884.00	884.00	944.20	944.20	944.20	944.20	944.20	944.20
Cumulative Repayment up to Previous Year		147.87	276.03	404.20	532.37	660.53		113.23	225.93	338.62	451.32	564.02
Net Loan-Opening		736.13	607.97	479.80	351.63	223.47		830.97	718.27	605.57	492.87	380.17
Repayment during the year		128.17	128.17	128.17	128.17	113.57		112.70	112.70	112.70	112.70	101.53
Net Loan-Closing		607.97	479.80	351.63	223.47	109.90		718.27	605.57	492.87	380.17	278.64
Average Loan		672.05	543.88	415.72	287.55	166.68		774.62	661.92	549.22	436.52	329.41
Weighted Average Rate of Interest on Loan		10.3439%	10.3697%	10.4113%	10.4901%	10.8246%		7.8381%	7.5867%	7.2321%	6.6945%	5.9158%
<b>Interest</b>		<b>69.52</b>	<b>56.40</b>	<b>43.28</b>	<b>30.16</b>	<b>18.04</b>		<b>60.72</b>	<b>50.22</b>	<b>39.72</b>	<b>29.22</b>	<b>19.49</b>

## (d) Summary of the transmission charges awarded

(Rs.in lakh)

	220 KV D/C Faridabad-Samaypur transmission line with associated bays					220 KV D/C Faridabad-Palla transmission line with associated bays				
	2004-05	2005-06	2006-07	2007-08	2008-09	2004-05	2005-06	2006-07	2007-08	2008-09
Depreciation	72.49	72.49	72.49	72.49	72.49	61.12	61.12	61.12	61.12	61.12
Interest on Loan	69.52	56.40	43.28	30.16	18.04	60.72	50.22	39.72	29.22	19.49
Return on Equity	217.61	217.61	217.61	217.61	217.61	163.52	163.52	163.52	163.52	163.52
Advance against Depreciation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.36	33.30
Interest on Working Capital	11.91	11.96	12.02	12.10	12.21	11.30	11.42	11.56	11.91	12.47
O & M Expenses	120.51	125.35	130.38	135.54	141.01	147.72	153.66	159.82	166.15	172.85
<b>Total</b>	<b>492.03</b>	<b>483.80</b>	<b>475.78</b>	<b>467.90</b>	<b>461.36</b>	<b>444.38</b>	<b>439.94</b>	<b>435.74</b>	<b>443.28</b>	<b>462.74</b>

## 5. Revised tariff for the period 2001-04 (220 KV D/C Faridabad-Palla Transmission line with associated bays)

(a) Date of order: 8.2.2008 in petition No. 54/2002

(b) Equity and return on equity

(Rs. in lakh)

	2001-02	2002-03	2003-04
Equity	1171.66	1171.66	1171.66



Return on equity	187.47	187.47	187.47
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(c) Computation of interest on loan

(Rs. in lakh)			
Interest on Loan	2001-02	2002-03	2003-04
Gross Loan –Opening	774.20	774.20	774.20
Cumulative Repayment up to Previous Year	0.00	0.00	13.40
Net Loan-Opening	774.20	774.20	760.80
Repayment during the year	0.00	13.40	78.55
Net Loan-Closing	774.20	760.80	682.25
<b>Interest</b>	80.12	73.81	68.75

**6. Revised tariff computation for the period 2004-09 (220 kV D/C Faridabad – Palla)**

(a) Equity and return on equity

(Rs. in lakh)	
Revised Equity	1171.66
Addition due to Additional Capitalisation	0.00
Addition due to FERV	0.00
Total Equity	1171.66
Return on Equity each year	164.03

(b) Interest on loan

(Rs. in lakh)						
Details of loan		2004-05	2005-06	2006-07	2007-08	2008-09
Gross Loan as on 1.4.2001	774.20					
Addition due to Additional Capitalisation during 2001-04	178.61					
Addition due to FERV during 2001-04	-12.28					
Gross Normative Loan	940.52	940.52	940.52	940.52	940.52	940.52
Cumulative Repayment upto Previous Year		111.79	224.19	336.58	448.98	561.37
Net Loan-Opening		828.73	716.33	603.94	491.54	379.15
Repayment during the year		112.39	112.39	112.39	112.39	101.26
Net Loan-Closing		716.33	603.94	491.54	379.15	277.89
Average Loan		772.53	660.14	547.74	435.35	328.52
Weighted Average Rate of Interest on Loan		7.8381%	7.5867%	7.2321%	6.6945%	5.9158%
Interest		60.55	50.08	39.61	29.14	19.43

## (c) Advance Against Depreciation

(Rs. in lakh)

	2004-05	2005-06	2006-07	2007-08	2008-09
1/10th of Gross loan(s)	94.05	94.05	94.05	94.05	94.05
Repayment of loan during the year	112.39	112.39	112.39	112.39	101.26
Minimum of the above	94.05	94.05	94.05	94.05	94.05
Depreciation during the year	61.12	61.12	61.12	61.12	61.12
(A) Difference	32.93	32.93	32.93	32.93	32.93
Cumulative repayment of the loan	224.19	336.58	448.98	561.37	662.63
Cumulative Depreciation/ Advance against Depreciation	370.01	431.13	492.26	553.38	622.50
(B) Difference	-145.82	-94.55	-43.28	7.99	40.14
Advance against Depreciation	0.00	0.00	0.00	7.99	32.93
Minimum of (A) and (B)					

## (d) Interest on Working Capital

(Rs. in lakh)

	2004-05	2005-06	2006-07	2007-08	2008-09
Maintenance Spares	23.86	25.30	26.81	28.42	30.13
O & M expenses	12.31	12.81	13.32	13.85	14.40
Receivables	74.12	73.39	72.69	73.38	77.14
Total	110.30	111.49	112.82	115.65	121.67
Rate of interest	10.25%	10.25%	10.25%	10.25%	10.25%
<b>Interest</b>	<b>11.31</b>	<b>11.43</b>	<b>11.56</b>	<b>11.85</b>	<b>12.47</b>

## (e) Revised Annual Transmission charges

(Rs. in lakh)

	<b>2004-05</b>	<b>2005-06</b>	<b>2006-07</b>	<b>2007-08</b>	<b>2008-09</b>
Depreciation	61.12	61.12	61.12	61.12	61.12
Interest on Loan	60.55	50.08	39.61	29.14	19.43
Return on Equity	164.03	164.03	164.03	164.03	164.03
Advance against Depreciation	0.00	0.00	0.00	7.99	32.93
Interest on Working Capital	11.31	11.43	11.56	11.85	12.47
O & M Expenses	147.72	153.66	159.82	166.15	172.85
<b>Total</b>	<b>444.73</b>	<b>440.33</b>	<b>436.15</b>	<b>440.30</b>	<b>462.84</b>

Note: The transmission charges in respect of 220 kV Faridabad Samaypur Transmission line are not being revised since the transmission line does not involve FERV and the transmission charges already approved shall continue to apply.