

**CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI**

Petition No. 162/2009

Coram:

**Shri V.S. Verma, Member
Shri M. Deena Dayalan, Member**

Date of Hearing: 17.09.2013

Date of Order: 12.12.2013

In the matter of

Approval of incentive under Regulation 86 of Central Electricity Regulatory Commission (Conduct of Business) Regulations, 1999 and Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2004 based on availability of transmission system of Northern Region for year 2008-2009.

And in the matter of

Power Grid Corporation of India Limited
"Saudamini", Plot No.2, Sector-29,
Gurgaon-122 001.

.....**Petitioner**

Vs

1. Rajasthan Rajya Vidyut Prasaran Nigam Ltd.,
Vidyut Bhawan, Vidyut Marg,
Jaipur- 302 005
2. Ajmer Vidyut Vitran Nigam Ltd.,
400 kV GSS Building (Ground Floor), Ajmer Road,
Heerapura, Jaipur.
3. Jaipur Vidyut Vitran Nigam Ltd.,
400 kV GSS Building (Ground Floor), Ajmer Road,
Heerapura, Jaipur.
4. Jodhpur Vidyut Vitran Nigam Ltd.,
400 kV GSS Building (Ground Floor), Ajmer Road,
Heerapura, Jaipur.
5. Himachal Pradesh State Electricity Board,
Vidyut Bhawan, Kumar House Complex Building II
Shimla-171 004.



6. Punjab State Electricity Board
The Mall, Patiala-147 001.
7. Haryana Power Generation Corporation Ltd.,
Shakti Bhawan, Sector-6,
Panchkula (Haryana)-134 109.
8. Power Development Department,
Govt. of Jammu and Kashmir,
Mini Secretariat, Jammu.
9. UP Power Corporation Ltd.,
Shakti Bhawan, 14, Ashok Marg,
Lucknow-226 001.
10. Delhi Transco Ltd.,
Shakti Sadan, Kotla Road,
New Delhi-110 002.
11. BSES Yamuna Power Ltd.,
BSES Bhawan, Nehru Place,
New Delhi.
12. BSES Rajdhani Power Ltd.,
BSES Bhawan, Nehru Place,
New Delhi.
13. North Delhi Power Ltd.,
33kV S/STN Building,
Hudson Line, Kingsway Camp,
New Delhi.
14. New Delhi Municipal Council,
Palika Kendra, Sansad Marg,
New Delhi-110 001.
15. Chandigarh Administration,
Sector-9, Chandigarh.
16. Uttarakhand Power Corporation Ltd.,
Urja Bhawan, Kanwali Road,
Dehradun.

17. North Central Railway,
Allahabad.

.....Respondents

Representatives of the Petitioner : Shri S.S Raju, PGCIL
Shri M.M. Mondal, PGCIL
Shri B.K. Sahoo, PGCIL
Shri B.C. Pant, PGCIL
Shri J. Mazumdar, PGCIL
Shri Shashi Bhusan, PGCIL

Counsel for the Respondents : Nil

ORDER

This is a petition filed by Power Grid Corporation Limited (PGCIL) seeking approval of incentive for the year 2008-09 for its transmission system in Northern Region under Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2004 (hereinafter referred to as "the 2004 Tariff Regulations").

2. Regulation 51 of the 2004 Tariff Regulations provides that:-

"51. Target Availability for recovery of full transmission charges

(1) AC System : 98%

(2) HVDC bi-pole links and HVDC back-to-back stations : 95%

Note 1

Recovery of fixed charges below the level of target availability shall be on pro rata basis. At zero availability, no transmission charges shall be payable.

Note 2

The target availability shall be calculated in accordance with procedure specified in Appendix-III."



3. Clause(1) of Regulation 60 of the 2004 Tariff Regulations provides that:-

"60. Incentive :

- (1) The transmission licensee shall be entitled to incentive @ 1% of equity for each percentage point of increase in annual availability beyond the target availability prescribed under regulation 51, in accordance with the following formula:
Incentive=Equity x [Annual availability achieved –Target availability]/100
- (2) Incentive shall be shared by the long-term customers in the ratio of their average allotted transmission capacity for the year."

4. The petitioner initially submitted, along with the petition, the availability of the regional transmission system, inter-regional transmission system and bilateral transmission system on the basis of the availability certificate issued by the Member Secretary, NRPC on 16.4.2009. The petitioner has later filed the revised availability of the various transmission systems, vide affidavit dated 4.3.2013, on the basis of the availability certificate issued by the Member Secretary, NRPC on 21.2.2013. Accordingly, the petitioner has submitted the revised the incentive calculations based on the revised availability and the % of availability eligible for incentive of all the assets commissioned upto 31.3.2009. The details of certified availability, target availability and availability eligible for incentive are given below:-

(All figures in %)

S. No.	Category of assets	Availability (%)	TARGET AVAILABILITY (%)	% FOR INCENTIVE
1	2	3	4	5= 3-4
1	Regional AC system			
(i)	AC Transmission System of NR (excluding bi-lateral transmission system)	99.6743 %	98.00%	1.6743%
(ii)	Regional HVDC (Rihand Dadri-Bipole) system	98.2726%	95.00%	3.2726%
(iii)	Regional HVDC (Sasaram BTB) system	98.9377%	95.00%	3.9377%
2	Inter Regional Transmission system			
(i)	400 kV Sing- Vindhyachal D/C line	100.0000%	98.00%	2.0000%
(ii)	AC system (Agra Gwalior Line)	99.9488%	98.00%	1.9488%

(iii)	Other AC System	99.9507%	98.00%	1.9507%
(iv)	HVDC system	98.8122%	95.00%	3.8122%
3	Bilateral Transmission System			
(i)	Bilateral transmission system with UP	99.9698%	98.00%	1.9698%
(ii)	Bilateral transmission system with Haryana	99.7901%		1.7901%
(iii)	Bilateral transmission system with (Powergrid Punjab)	99.8228%		1.8228%
(iv)	Bilateral transmission system with (Powergrid –Uttarakhand)	100.00%		2.00%
(v)	Bilateral transmission system with (Powergrid –Rajasthan)	100.00%		2.00%

5. As provided in the 2004 Tariff Regulations, the incentive for the year 2008-09 has been worked out considering the availability of transmission system as certified by the Member Secretary, NRPC and the equity of all the assets commissioned during the period 2004-09 in the Northern Region. The details of the incentive claimed by the petitioner and the incentive allowed are as under:-

(₹ in lakh)

Category of assets	Equity Amount as per PGCIL (Submitted in the petition vide affidavit dated 31-08-2009)	Incentive amount as per PGCIL (Submitted in the petition vide affidavit dated 31-08-2009)	Equity amount as worked Out	Incentive amount as worked out	Difference in incentive worked out and claimed
1	2	3	4	5	5-3
Regional AC system					
(i) AC Transmission System of NR (excluding Bi-lateral transmission system)	324412.29	5449.81	326577.54	5467.89	18.08
(ii) Regional HVDC (Rihand Dadri-Bipole) system	34479.44	1128.37	34479.44	1128.37	0.00
(iii) Regional HVDC (Sasaram BTB) system	1618.10	63.72	1679.57	66.14	2.42
Inter Regional Transmission system					
(i) AC system	2795.22	54.47	2831.23	55.17	0.70
(ii) HVDC system	4156.44	158.45	4156.44	158.45	0.00

Bilateral Transmission System					
(i) Bilateral transmission system with UP	920.47	18.13	920.48	18.13	0.00
(ii) Bilateral transmission system with Haryana	1561.47	27.60	729.66	13.06	-14.54
Total	369943.42	6900.54	371374.34	6907.22	6.68

6. The details of calculation in support of the incentive allowed are given in the attached Annexure.

7. The assets at Srl. Nos. 111 to 114 of the Annexure were part of the Inter-Regional Transmission till the end of the year 2007-08. However, as per the Commission's order dated 28.3.2008 in Petition No.85/2007, in the matter of "Proposed Approach for Sharing of Charges for and Losses in inter-State Transmission System" the above said assets are considered in the Regional Assets pool since 1.4.2008 and accordingly, the incentive has been calculated for the year 2008-09.

8. The Commission in its order dated 24.11.2009, as an interim measure allowed 90% of the incentive claimed by the petitioner in the petition. The provisional incentive charges allowed shall be adjusted by the petitioner against final incentive allowed for the year 2008-09 in the instant order.

9. The incentive allowed in the instant order in respect of Northern Regional transmission assets shall be shared by the respondents, the beneficiaries in the Northern Region, in proportion to the transmission charges shared by them in the region as provided in the 2004 Tariff Regulations.

10. This order disposes of Petition No. 162/2009

sd/-

(M. Deena Dayalan)
Member

sd/-

(V. S. Verma)
Member



ANNEXURE
(₹ in lakh)

Incentive for Financial Year 2008-09											
Name of the Transmission System/Line (1)	Petition No. (2)	Date of order (3)	D.O.C.O. (4)	Pro-rata Equity as claimed by PGCIL (5)	Average Equity as per Tariff Order (6)	Period during the year (7)	Pro-rata equity (8) = (7)*(6)	Availability as per Engg Input (9)	Availability eligible for incentive (10)	Incentive amount (11) =(8)*(10)	
A	Regional AC System										
	Target availability for incentive (AC System)									98.00%	
1	ANTA Transmission System	98/2004	29.02.2008	Before 01.04.92	2879.66	2879.66	1.00	2879.66	99.6743%	1.6743%	48.21
2	AURAIYA Transmission System	105/2004	29.02.08	-do-	5081.43	5081.43	1.00	5081.43	99.6743%	1.6743%	85.08
3	SINGARAUJI Transmission System	149/2010	29.09.2010	-do-	11798.08	11779.89	1.00	11779.89	99.6743%	1.6743%	197.23
4	RIHAND Transmission System	96/2004	29.02.08	-do-	27891.22	27891.22	1.00	27891.22	99.6743%	1.6743%	466.98
5	BAIRASIUL Transmission System	101/2004	22.01.08	-do-	316.08	316.08	1.00	316.08	99.6743%	1.6743%	5.29
6	TANAKPUR Transmission System	108/2004	22.01.08	-do-	1044.50	1044.50	1.00	1044.50	99.6743%	1.6743%	17.49
7	MOGA-HISSAR,HISSAR-BHIWANI Transmission system	106/2004	22.01.08	01.12.94, 01.07.95	6275.00	6275.00	1.00	6275.00	99.6743%	1.6743%	105.06
8	BAWANA-BHIWANI,BAWANA-HISSAR (MBTL)		27.03.06	01.02.98 01.09.97	1101.73	1101.73	1.00	1101.73	99.6743%	1.6743%	18.45
9	Chamera Hydro Electric Project Stage-I Transmission System	109/2004	29.02.08	01.05.94	12046.63	12046.63	1.00	12046.63	99.6743%	1.6743%	201.70
10	SALAL -I	110/2004	22.01.08	Before 01.04.1992	1528.50	1528.50	1.00	1528.50	99.6743%	1.6743%	25.59
11	Salal Stage-II Transmission System	103/2004	22.01.08	Before 01.04.1995	5073.89	5073.89	1.00	5073.89	99.6743%	1.6743%	84.95
12	URI Hydro Electric Project Transmission System	100/2004	23.11.05	01.04.97	9266.00	9266.00	1.00	9266.00	99.6743%	1.6743%	155.14
13	CHAMERA-KISHANPUR Transmission System	99/2004	06.09.05	01.10.97	4834.00	4834.00	1.00	4834.00	99.6743%	1.6743%	80.94
14	ICT-I AT KISHANPUR S/S under Dulhasti Transmission System	104/2004	09.09.05	01.10.97	2999.00	2999.00	1.00	2999.00	99.6743%	1.6743%	50.21
15	RAPP B-ANTA	77/2004	19.05.08	01.08.2000	468.46	468.46	1.00	468.46	99.6743%	1.6743%	7.84



16	RAPP B-CHITTORGARH		13.01.06	01.01.98	1215.05	1215.05	1.00	1215.05	99.6743%	1.6743%	20.34
17	RAPP-UDAIPUR		19.05.08	01.01.2000	405.40	405.40	1.00	405.40	99.6743%	1.6743%	6.79
18	ADDL.TRANSFORMER RIHAND DADRI	107/2004	07.09.05	01.10.2000	1840.94	1840.94	1.00	1840.94	99.6743%	1.6743%	30.82
19	UNCHAHAHAR-KANPUR-I	82/2004	19.05.08	01.06.99	251.52	251.52	1.00	251.52	99.6743%	1.6743%	4.21
20	UNCHAHAHAR-KANPUR-II	(IA		01.01.2000	85.62	85.62	1.00	85.62	99.6743%	1.6743%	1.43
21	PANKI-MAINPURI	30/2005)		01.12.2000	147.73	147.73	1.00	147.73	99.6743%	1.6743%	2.47
22	SERIES CAPACITORS PAMPORE	68/2004	04.01.06	01.06.99	183.05	183.05	1.00	183.05	99.6743%	1.6743%	3.06
23	KISHENPUR MOGA CKT-I	84/2004	19.05.08	01.05.2000	5037.55	5037.55	1.00	5037.55	99.6743%	1.6743%	84.34
24	KISHENPUR MOGA CKT-II			01.02.2001	7997.35	7997.35	1.00	7997.35	99.6743%	1.6743%	133.90
25	ICT-III AT MOGA & BUS REACTOR AT KISHENPUR			01.03.2000	180.79	180.79	1.00	180.79	99.6743%	1.6743%	3.03
26	Transformer at MALERKOTLA	131/2005	22.09.06	01.04.96	459.12	459.12	1.00	459.12	99.6743%	1.6743%	7.69
27	BAWANA-BHIWANI,BAWANA-HISSAR,NJTL		22.09.06	01.02.98	891.60	891.60	1.00	891.60	99.6743%	1.6743%	14.93
28	HISSAR-JAIPUR,NJTL		22.09.06	01.08.97	2800.42	2800.42	1.00	2800.42	99.6743%	1.6743%	46.89
29	ABDULLAPUR-BAWANA,NALAGARH-HISSAR		19.05.08	01.01.2000	7199.36	7199.36	1.00	7199.36	99.6743%	1.6743%	120.54
30	ICT-I AT JAIPUR		22.09.06	01.10.2000	471.50	471.50	1.00	471.50	99.6743%	1.6743%	7.89
31	2 NOS.LILO BAYS WITH ICT-I AT JAIPUR		22.09.06	01.12.2000	40.41	40.41	1.00	40.41	99.6743%	1.6743%	0.68
32	ICT-II AT JAIPUR		22.09.06	01.03.01	119.33	119.33	1.00	119.33	99.6743%	1.6743%	2.00
33	LILO OF CMTL & ICT-I AT JALANDHAR		19.05.08	01.01.01	1410.51	1410.51	1.00	1410.51	99.6743%	1.6743%	23.62
34	ICT-II AT JALANDHAR		22.09.06	01.01.01	324.25	324.25	1.00	324.25	99.6743%	1.6743%	5.43
35	JALANDHAR-DASUYA		19.05.08	01.01.01	339.43	339.43	1.00	339.43	99.6743%	1.6743%	5.68
36	ICT-I AT NALAGARH		19.05.08	01.09.2000	228.88	228.88	1.00	228.88	99.6743%	1.6743%	3.83
37	ICT-II AT NALAGARH		19.05.08	01.03.2000	139.91	139.91	1.00	139.91	99.6743%	1.6743%	2.34
38	BUS REACTOR AT NALAGARH		19.05.08	01.04.2000	69.17	69.17	1.00	69.17	99.6743%	1.6743%	1.16
39	JALANDHAR-HAMIRPUR	35/2005	30.04.08	01.09.2001	428.01	428.01	1.00	428.01	99.6743%	1.6743%	7.17
40	SINGARAULI-KANPUR LINE-I	72/2005	30.04.08	01.01.2003	161.71	161.71	1.00	161.71	99.6743%	1.6743%	2.71
41	SINGRAULI -KANPUR LINE-II			01.01.2003	706.34	706.34	1.00	706.34	99.6743%	1.6743%	11.83
42	ICT -I AT ALLAHABAD			01.02.2003	499.39	499.39	1.00	499.39	99.6743%	1.6743%	8.36
43	ICT -II AT ALLAHABAD			01.01.2003	455.72	455.71	1.00	455.71	99.6743%	1.6743%	7.63
44	ICT -IV AT BALLABHGARH	70/2005	28.04.06	01.07.2002	175.63	175.62	1.00	175.62	99.6743%	1.6743%	2.94
45	FACT, BALLABHGARH	60/2005	09.05.06	01.07.2002	372.75	372.75	1.00	372.75	99.6743%	1.6743%	6.24
46	SPECIAL ENERGY METERS	2/2006 (IA 7/2007)	12.03.07	01.05.2002	433.95	433.95	1.00	433.95	99.6743%	1.6743%	7.27
47	Bhiwadi s/s with LILO of Ballabgarh- Jaipur line	102/2010	15.10.2010	01.03.2003	1944.68	1991.10	1.00	1991.10	99.6743%	1.6743%	33.34



48	Meerut-Mandola-I	141/2005	06.02.07	01.10.2003	666.53	666.53	1.00	666.53	99.6743%	1.6743%	11.16
49	Meerut-Mandola-II	(IA		01.04.2003	549.32	549.32	1.00	549.32	99.6743%	1.6743%	9.20
50	ICT-II at Meerut	74/2006)		01.04.2003	267.73	267.73	1.00	267.73	99.6743%	1.6743%	4.48
51	ICT-III at Meerut			01.07.2003	444.76	444.76	1.00	444.76	99.6743%	1.6743%	7.45
52	Panki- Naubasta Trans. Line	102/2005 (IA 1/2007)	22.01.07	01.10.2003	628.59	628.59	1.00	628.59	99.6743%	1.6743%	10.52
53	Series Compensation on Panki-Muradnagar	118/2005 (IA 3/2007)	25.01.07	01.02.2004	368.71	368.71	1.00	368.71	99.6743%	1.6743%	6.17
54	LILO Chamera-I --Kishanpur	9/2006	24.10.06	01.08.2003	1193.57	1193.57	1.00	1193.57	99.6743%	1.6743%	19.98
55	Nathpajhakri- Nallagarh	131/2005	19.05.08	01.04.2003	8353.29	8353.29	1.00	8353.29	99.6743%	1.6743%	139.86
56	Nathpajhakri- Abdullapur			01.04.2003	7213.06	7213.06	1.00	7213.06	99.6743%	1.6743%	120.77
57	Agra- Agra	77/2010	16.06.2010	01.07.2003	609.82	619.44	1.00	619.44	99.6743%	1.6743%	10.37
58	Dhauliganga- Bareilly TL	243/2009	11.02.2010	01.08.2005	4461.82	4475.23	1.00	4475.23	99.6743%	1.6743%	74.93
59	Patiala- Malerkotla T/L, ICT- I at Patiala & LILO at Kaithal	70/2009	07.09.09	01.10.2005	3389.42	3389.41	1.00	3389.41	99.6743%	1.6743%	56.75
60	ICT I&II at Kaithal	236/2009	15.02.2010	01.11.2005	1161.15	1171.48	1.00	1171.48	99.6743%	1.6743%	19.61
61	ICT-II at Patiala & LILO of Nalagarh- Hissar at Patiala			01.12.2005	1156.40	1159.44	1.00	1159.44	99.6743%	1.6743%	19.41
62	ICT I&II at Mainpuri			01.01.2006	1196.25	1205.77	1.00	1205.77	99.6743%	1.6743%	20.19
63	2 nos 220 kV Bays at Abdullapur S/S under Rihand Stage-II			01.11.2006	151.20	152.92	1.00	152.92	99.6743%	1.6743%	2.56
64	Rihand- Allahabad- Mainpuri- Ballabgarh			01.06.2005	17945.15	17971.07	1.00	17971.07	99.6743%	1.6743%	300.89
65	Dadri- Panipat TL under Rihand Stage-II			01.04.2006	1617.11	1620.95	1.00	1620.95	99.6743%	1.6743%	27.14
66	ICT-I at Meerut S/S under Tehri transmission system	57/2009	20.07.2009	01.08.2005	729.09	729.09	1.00	729.09	99.6743%	1.6743%	12.21
67	Tehri-Meerut Ckt-I TL under Tehri Transmission System	263/2009	11.03.2010	01.04.2006	10257.91	10264.75	1.00	10264.75	99.6743%	1.6743%	171.86
68	Tehri Meerut Ckt-II, Meerut-Muzaffarnagar TL Under Tehri Transmission System			01.06.2006	11843.25	11847.76	1.00	11847.76	99.6743%	1.6743%	198.37
69	ICT at Muzaffarnagar TL under Tehri Transmission System			01.02.2007	504.19	513.43	1.00	513.43	99.6743%	1.6743%	8.60
70	400KV Bareilly Substation (UPPCL) (Extension) & Mandaula S/S (Extension)	311/2009	24.05.2010	01.05.2006	724.80	724.91	1.00	724.91	99.6743%	1.6743%	12.14
71	400 kV D/C Lucknow -Unnao TL , Gorakhpur (Powergrid)-Gorakhpur (UPPCL) 400 kV D/C line with bays, etc.			01.08.2006	7661.88	7709.72	1.00	7709.72	99.6743%	1.6743%	129.08



72	Jalandhar-Amritsar TL, ICT-I withj Bays at Amritsar Substation	272/2009	16.03.2010	1.05.2006	2428.14	2453.02	1.00	2453.02	99.6743%	1.6743%	41.07
73	ICT-II at Gorakhpur	74/2009	23.07.2009	01.08.2006	365.86	365.85	1.00	365.85	99.6743%	1.6743%	6.13
74	LILO of Bawana-Bhiwani TL at Bahadurgarh with ICT at Bahadurgarh	272/2009	16.03.2010	01.11.2006	1680.41	1705.22	1.00	1705.22	99.6743%	1.6743%	28.55
75	Kishenpur-Wagoora TL	234/2009	10.02.2010	01.11.2006	5716.04	5902.17	1.00	5902.17	99.6743%	1.6743%	98.82
76	Agra-Bassi TL Under NRSS-I	274/2009	23.02.2010	01.01.2007	6278.20	6312.90	1.00	6312.90	99.6743%	1.6743%	105.70
77	Kanpur-Auriya	327/2009	19.08.2010	01.10.2006	2423.66	2449.10	1.00	2449.10	99.6743%	1.6743%	41.01
78	LILO of 400KV Singrauli-Vindhyacal Corridor 2nd 400KV (ckt.)	273/2009	12.01.2010	01.05.2007	532.35	549.65	1.00	549.65	99.6743%	1.6743%	9.20
79	400KV Balia-Lucknow Ckt.I & II, 400KV Balia-Mau Ckt.I, 400KV D/c Patna-Balia Line including ass.bays at patna & Balia	4/2010	02.06.2010	1.5.2007	22180.67	22397.96	1.00	22397.96	99.6743%	1.6743%	375.01
80	400 kV Balia-Mau Ckt-II, 40% FSC at Lucknow as 400 kV D/C Lucknow-Balia transmission line			01.06.2007	1557.16	1569.03	1.00	1569.03	99.6743%	1.6743%	26.27
81	80 MVAR Bus Reactor of Biharshariff substation			1.7.2007	235.44	244.89	1.00	244.89	99.6743%	1.6743%	4.10
82	400 kV Lucknow-Bareilly Ckt-I & II along with associated bays			1.8.2007	8348.32	8495.93	1.00	8495.93	99.6743%	1.6743%	142.25
83	400 kV D/C Biharshariff-Balia transmission line Ckt-I with associated bays			1.9.2007	10330.63	10524.31	1.00	10524.31	99.6743%	1.6743%	176.21
84	400 kV D/C Biharshariff-Balia transmission line Ckt-II with associated bays			1.11.2007	3707.22	3727.95	1.00	3727.95	99.6743%	1.6743%	62.42
85	220 S/C KV Unchahaar-Raibareilly Ckt-III	293/2009	03.03.2010	01.08.2007	1253.79	1317.86	1.00	1317.86	99.6743%	1.6743%	22.06
86	ICT 220KV/132 KV Raibareilly S/S			01.11.2007	254.84	266.58	1.00	266.58	99.6743%	1.6743%	4.46
87	LILO of Ckt-I 400KV D/c Ballabgarh-Dadri TL & ICT-I at Maharanibagh	311/2009	24.05.2010	01.09.2007	4096.64	4224.76	1.00	4224.76	99.6743%	1.6743%	70.74
88	315 MVA 400/220/33 kV ICT-II at Maharanibagh GIS along with associated bays under Tala HEP			01.10.2007	1097.52	1120.99	1.00	1120.99	99.6743%	1.6743%	18.77



89	Two nos 400 kV bays at Kanpur sub-station associated with Kanpur-Auraiya transmission line	327/2009	19.08.2010	01.06.2007	210.66	217.37	1.00	217.37	99.6743%	1.6743%	3.64
90	LILO of 400 kV D/C Bareilly-Mandola transmission line at Bareilly and Bus Reactor at Bareilly			01.08.2007	1758.86	1859.43	1.00	1859.43	99.6743%	1.6743%	31.13
91	LILO of 400 kV S/C Lucknow-Moradabad transmission line at Bareilly			01.09.2007	1112.30	1141.50	1.00	1141.50	99.6743%	1.6743%	19.11
92	LILO of 400 kV Lucknow (UPPCL)-Sultanpur (UPPCL) transmission line at Lucknow			01.01.2008	1633.82	1652.09	1.00	1652.09	99.6743%	1.6743%	27.66
93	Dulhasti-Kishenpur	138/2007	01.12.2008	01.04.2007	7194.43	7194.43	1.00	7194.43	99.6743%	1.6743%	120.46
94	400KV Auto Transformer-III at Wagoora	135/2008	22.04.2009	01.06.2007	402.41	402.41	1.00	402.41	99.6743%	1.6743%	6.74
95	50 MVAR Bus reactor at Hissar S/s	65/2010	18.06.2010	01.07.2007	41.35	43.97	1.00	43.97	99.6743%	1.6743%	0.74
96	FATEHABAD S/S ALONGWITH LILO OF 400 KV MOGA HISSAR AT FATEHABAD NRSS III			01.02.2008	2833.20	2910.79	1.00	2910.79	99.6743%	1.6743%	48.74
97	315 MVA ICT-IV at Moga S/s Ass. With Augmentation of Transmission Capacity at Moga & Amritsar	292/2009	11.03.2010	01.07.2007	361.44	375.59	1.00	375.59	99.6743%	1.6743%	6.29
98	ICT-II and 2 nos feeder bays at Amritsar sub-station, and 400 kV Bus reactor and line bays at Moga sub-station asso with Augmentation of Transmission Capacity at Moga & Amritsar			01.03.2008	629.28	640.28	1.00	640.28	99.6743%	1.6743%	10.72
99	80 MVAR, 420 k V Bus Reactor at Lucknow Sub-Station (NRSS-I)	161/2009	22.02.2010	01.05.2008	165.38	183.81	0.92	168.49	99.6743%	1.6743%	2.82
100	Second 400 kV S/C Bareilly-Moradabad TL along with associated bays (NRSS-I)	161/2009		01.06.2008	1715.95	2111.31	0.83	1759.43	99.6743%	1.6743%	29.46
101	220 kV Zainkot III & IV Bays at Wagoora Sub-Station (NRSS-II)	135/2008	22.04.2009	01.04.2008	143.50	143.25	1.00	143.25	99.6743%	1.6743%	2.40



102	400kV Jalandhar-Ludhiana line with associated bays, 400kV Ludhiana-Malerkotla line with associated bays, 80 MVAR Bus Reactor 315 MVA, 400/220/33kV ICT-I	150/2008	15.02.2010	01.06.2008	3227.00	3905.96	0.83	3254.97	99.6743%	1.6743%	54.50
103	220 kV Lalton Kalan I & II line bay, 220kV Jagraon line bay, 315 MVA, 400/220/33kV ICT -II, 400kV ICT-II Malerkotla T/L Tie bay, 400 kV ICT -I - Patiala T/L tie bay, 400kV Bus Reactor -Koldam - II tie bay, 400 kV Jalandhar T/L - Kodam-I tie, bay, 220kV Dhandari line bay, 220kV Transfer Bus Coupler bay, 220kV Bus Coupler bay with associated bays at Ludhiana sub station (NRSS-III)			01.07.2008	511.48	860.39	0.75	645.29	99.6743%	1.6743%	10.80
104	400kV D/C RAPP - KANKROLI T/L ALONG WITH ASSOCIATED BAYS, 315MVA ICT-II & 2 nos 220 kV line bays at Kankroli S/Stn (RAPP 5&6)	43/2010	05.08.2010	01.04.2008	7977.26	8337.72	1.00	8337.72	99.6743%	1.6743%	139.60
105	50 MVAR Bus Reactor at Kankroli S/Stn (RAPP-5&6)	169/2009	25.01.2010	01.01.2009	92.65	383.75	0.25	95.94	99.6743%	1.6743%	1.61
106	Kota-Merta Ckt I & II	251/2009	10.05.2010	01.02.2009	1450.33	8766.27	0.17	1461.05	99.6743%	1.6743%	24.46
107	ICTT II AT FATEHABAD(SSS-II)	65/2010	18.06.2010	01.04.2008	300.53	301.34	1.00	301.34	99.6743%	1.6743%	5.05
108	LILO of Tanakpur-Bareilly at Sitarganj	01/2011	04.10.2011	01.03.2009	125.36	1049.28	0.08	87.44	99.6743%	1.6743%	1.46
109	Special Protection Scheme for Rihand-Dadri Bipole	249/2009	16.03.2010	01.08.2008	37.79	60.78	0.67	40.52	99.6743%	1.6743%	0.68
110	315 MVA 400/220kV ICT-I alongwith associated bays & two no. 220kV line bays at Kankroli S/S(RAPP-5 & 6)	169/2009	25.01.2010	01.08.2008	565.87	854.77	0.67	569.85	99.6743%	1.6743%	9.54
111	Sarnath- Allahabad AC Portion	64/2005	09.05.06	01.12.2002	271.45	271.45	1.00	271.45	99.6743%	1.6743%	4.54
112	400 kV Biharshariff- Sasaram-Sarnath Line & Bay	216/2010	12.01.2011	01.07.2001	3312.85	3320.57	1.00	3320.57	99.6743%	1.6743%	55.60
113	TCS & 2Nos. OF 400 KV BAYS AT GORAKHPUR S/S ASSOCIATED WITH 400KV MUZAFFARPUR-GORAKHPUR	312/2009	03.11.2010	01.09.2006	2557.92	2568.92	1.00	2568.92	99.6743%	1.6743%	43.01



	LINE OF POWERLINKS TRANSMISSION LTD.										
114	2Nos. 400KV bays at Muzzafarpur with the reactors for Muzzafarpur-Gorakhpur line of Powerlinks transmission ltd.			01.09.2006	576.08	594.90	1.00	594.90	99.6743%	1.6743%	9.96
	Total Regional AC Transmission System				324412.29	336527.64		326577.54			5467.89
115	Target availability for incentive (HVDC System)										95.00%
116	Rihand HVDC	96/2004	29.02.08	Before 01.04.1992	34479.44	34479.44	1.00	34479.44	98.2726%	3.2726%	1128.37
117	Sasaram HVDC Portion	228/2010	02.05.2011	01.12.2002	1618.10	1679.57	1.00	1679.57	98.9377%	3.9377%	66.14
	Total HVDC				36097.54	36159.01		36159.01			1194.51
	SUB TOTAL (A)				360509.83	372686.65		362736.54			6662.40
B	Inter Regional AC Elements										
118	Agra-Gwalior 765KV S/C Line & Ass. Bays & S/s (50%)	313/2009	08.04.2010	01.04.2007	2795.22	2831.23	1.00	2831.23	99.9488%	1.9488%	55.17
	Total Inter Regional AC Transmission system				2795.22	2831.23		2831.23			55.17
119	Vindhyachal HVDC (50%)	113/2004	14.02.08	Before 01.04.1992	4156.44	4156.44	1.00	4156.44	98.8122%	3.8122%	158.45
	SUB TOTAL (B)				6951.66	6987.66		6987.66			213.63
C	Bi- lateral Transmission System										
120	FARIDABAD-SAMAYAPUR	52/2007	18.06.2008	01.06.1999	913.38	455.55	1.00	455.55	99.7901%	1.7901%	8.15
121	FARIDABAD-PALLA			01.02.2000	648.09	274.11	1.00	274.11	99.7901%	1.7901%	4.91
	Haryana Bilateral Lines				1561.47	729.66		729.66			13.06
122	ALLAHABAD-REWA ROAD CKT-I	133/2005 (IA 8/2007)	09.05.2006	01.01.2003	26.07	26.07	1.00	26.07	99.9698%	1.9698%	0.51
123	Allahabad- Rewa Road Ckt-II		09.03.2007	01.08.2003	14.89	14.89	1.00	14.89	99.9698%	1.9698%	0.29
124	LILO of Modipuram- Simbholi			01.07.2003	85.08	85.08	1.00	85.08	99.9698%	1.9698%	1.68
125	Modipuram- Nara			01.04.2003	30.38	30.38	1.00	30.38	99.9698%	1.9698%	0.60
126	Mau- Balia	45/2006	09.01.2007	01.05.2003	203.07	203.07	1.00	203.07	99.9698%	1.9698%	4.00
127	Allahabad- Phulpur	130/2005	28.10.2006	01.06.2004	444.41	444.41	1.00	444.41	99.9698%	1.9698%	8.75
128	Meerut- Shatabdinagar TL	31/2009	08.06.2009	01.01.2006	116.57	116.58	1.00	116.58	99.9698%	1.9698%	2.30
	UP Bilateral Lines				920.47	920.48		920.48			18.13
	SUB TOTAL (C)				2481.94	1650.14		1650.14			31.19
	Total				369943.43	381324.45		371374.34			6907.22

