CENTRAL ELECTRICITY REGULATORY COMMISSION NEW DELHI

Coram:

- 1. Dr. Pramod Deo, Chairperson
- 2. Shri R.Krishnamoorthy, Member
- 3. Shri S.Jayaraman, Member
- 2. Shri V.S.Verma, Member

Petition No.91/2006

In the matter of

Approval of incentive based on availability of transmission system for the year 2005-06 for Western Region.

And in the matter of

Power Grid Corporation of India Limited, Gurgaon

..Petitioner

Vs

- 1. Madhya Pradesh State Electricity Board, Jabalpur
- 2. Maharashtra State Electricity Distribution Co. Ltd., Mumbai
- Gujarat Urja Vikas Nigam Ltd., Baroda
- 4. Electricity Department, Government of Goa, Panaji
- 5. Electricity Department, Administration of Daman & Diu, Daman
- 6. Electricity Department, Administration of Dadra Nagar Haveli, Silvassa
- 7. Chhattisgarh State Electricity Board, Raipur
- 8. Madhya Pradesh Audyogik Kandra, IndoreRespondents

The following were present:

- 1. Shri U.K.Tyaqi, PGCIL
- 2. Shri V.V.Sharma, PGCIL
- 3. Shri M.M.Mondal, PGCIL
- 4. Shri Prashant Sharma, PGCIL
- 5. Shri S.K.Niranjan, PGCIL

ORDER (DATE OF HEARING: 23.4.2009)

The petitioner seeks approval for incentive for the year 2005-06 for its transmission system in Western Region, in terms of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2004 (hereinafter referred to as "the regulations").

2. Regulation 51 of the regulations provides that:

- 51. Target Availability for recovery of full transmission charges:
 - (1) AC System: 98%
 - (2) HVDC bio-pole links and HVDC back-to-back stations: 95%
- 3. Regulation 60 of the regulations, as amended, inter alia, provides that,-
 - (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. Member-Secretary, WRPC under his letter dated 9.5.2006 has certified the availability of intra-regional system of Western Region and inter-regional links connecting WR to other regions except links with Northern Region and Southern Region. The availability of the Ramagudam-Bhadrawati AC links and Vindhyachal HVDC back-to-back has been certified by Member-Secretary, SRPC and NRPC respectively during 2005-06. The necessary details of certified availability are as under:

S.No.	Assets	Availability
1	Intra-regional AC transmission system	99.75%
2.	Inter-regional HVDC systems (AC)	
	Ramgundam-Bhadrawati I & II transmission line (SR-WR)	99.69%
	Raipur-Rourkela transmission line (WR-ER)	99.12%
3.	Inter-regional HVDC systems	
	Bhadrawati back-to-back I & II (SR-WR)	99.14%
	Vindhyachal HVDC back-to-back (WR-NR)	98.48%
4.	Inter-regional AC System	
	Korba-Budhipadar transmission line	99.50%

5. The petitioner has claimed incentive as under:

(Rs. in lakh) S.No. Pro rata Incentive Assets equity 1 Intra-regional AC transmission system 68075.89 1191.33 2. Inter-regional HVDC systems (AC) Ramgundam-Bhadrawati I & II (SR-WR) 20.48 1211.75 Raipur-Rourkela (WR-ER) 1538.92 17.24 3. Inter-regional HVDC system Bhadrawati back-to-back I & II (SR-WR) 3958.57 163.88 Vindhyachal HVDC back-to-back (WR-NR) 4156.44 144.64 4. Inter-regional AC System Korba-Budhipadar transmission line 441.29 6.62 Total 1544.19

- 6. M. P. Power Trading Company Ltd. (MPPTCL) has filed its reply.
- 7. Incentive has been worked out considering the availability as certified by the Member-Secretary, WRPC, Member-Secretary SRPC and Member-Secretary, NRPC. The petitioner shall be entitled to incentive as under:

(Rs. in lakh)

				(110: III laitil)	
S.	Assets	Equity	Pro rata	Incentive	
No.			equity	Amount	
1	Intra-regional AC transmission	70467.67	67932.15	1188.81	
	system				
2.	Inter-regional HVDC systems				
	(AC)				
	Ramgundam-Bhadrawati I & II (SR-	1211.75	1211.75	20.48	
	WR)				
	Raipur-Rourkela (WR-ER)	1538.92	1538.92	17.24	
3.	Inter-regional HVDC system				
	Bhadrawati back-to-back I & II (SR-	3958.57	3958.57	163.88	
	WR)				
	Vindhyachal HVDC back-to-back	4156.44	4156.44	144.64	
	(WR-NR)				
4.	Inter-regional AC System				
	Korba-Budhipadar transmission line	441.29	441.29	6.62	
	1.0.24 244 inpadar transmission into	20	111.20	3.02	
	Total		79239.12	1541.67	
	lotai		13233.12	1341.07	

8. The details of calculations in support of the incentive allowed by us are given in the Annexure attached.

9. It is noted that there are differences between the incentive amount claimed by

the petitioner and allowed by us. This is on account of difference in equity considered

for tariff purpose. The petitioner has shown the total equity as Rs. 79382.85 lakh For

the assets which had been declared under commercial operation during 2005-06, pro

rata equity on the basis of number of months of that year has been worked out. Thus,

the total of pro rata equity has been calculated as Rs. 79239.11 lakh. In case of

Raipur-Rourkela transmission line equity as per petitioner is Rs. 3216.58 lakh

whereas we have calculated pro rata equity as Rs. 3151.93 lakh. Similarly, in case of

Khandwa sub-station and LILO pro rata equity as per the petitioner is Rs. 2160.77

lakh and we have calculated as Rs. 2081.69 lakh.

10. The Commission in its order dated 4.9.2006, had provisionally allowed

incentive of 80% of that claimed by the petitioner in this petition. The provisional

incentive charged by the petitioner shall be adjusted against final incentive for the year

2004-05 approved by us in this order.

11. The incentive approved shall be shared by the respondents, the beneficiaries in

the Western Region, in proportion of the transmission charges for the year 2005-06

paid by them in the region.

12. This order disposes of Petition No. 91/2006.

Sd-

sd/-

sd/-

(V.S.VERMA)

(S.JAYARAMAN)

(R.KRISHNAMOORTHY) **MEMBER**

(DR. PRAMOD DEO) **CHAIRPERSON**

New Delhi dated the 22th July 2009

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ANNEXURE

	-(4) - 0	ı		1	ı	T	AINI	NEXURE
	of the Company: PGCIL			<u> </u>				
Name	of the Region: Western							
	on No.:91/2006- Incentive e years 2005-06							
								Rs. In lakh
Name of the Transmission System/ Line (1)		Petition No. And date of Tariff Order (2)	D.O.C.O. (3)	Equity as per CERC order (4)	Period during the year (Year) (5)	Availability of the Transmissi on System - 05-2009 (6)	Availab ility eligible for incenti ve (7)	Incentive amount (8) =(4)*(5)*(7)
(A)	INTRA REGIONAL AC SYSTEM							
	Basic availability for incentive							98.00%
1	KORBA	117/2004 Order dt 14- 02-2008	Before 31.03.2001	11538.51	1.00	99.75%	1.75%	201.92
2	VINDHYACHAL STAGE-I TR.SYSTEM	111/2004 Order dt 14- 02-2008	-do-	13494.13	1.00	99.75%	1.75%	236.15
3	KAWAS	114/2004 Order dt 14- 03-2008	-do-	1569.86	1.00	99.75%	1.75%	27.47
4	KAKARPAR	115/2004 Order dt 14- 03-2008	-do-	2485.50	1.00	99.75%	1.75%	43.50
5.1	GANDHAR-DEHGAM & GHANDHAR-BHARUCH	112/2004 Order dt 11- 03-2008	-do-	5872.33	1.00	99.75%	1.75%	102.77
5.2	GANDHAR-PADHE I/C PADGHE S/S	112/2004 order dt 14- 02-2006	-do-	4594.51	1.00	99.75%	1.75%	80.40
5.3	GANDHAR-GANDHAR	112/2004 order dt 14- 02-2006	-do-	227.97	1.00	99.75%	1.75%	3.99
6	VINDHAYACHAL ADDITIONS-STAGE-I TR. SYSTEM	72/2004 Order Dt 29- 04-2008	-do-	5327.50	1.00	99.75%	1.75%	93.23
7	REACTOR AT CHANDRAPUR	116/2004 Order dt 29- 04-2008	-do-	207.92	1.00	99.75%	1.75%	3.64
8.1	400 kV D/C VINDHAYACHAL-SATNA & SATNA-BINA LINE		-do-	4013.69	1.00	99.75%	1.75%	70.24
8.2	400 kV S/C KORBA-RAIPUR T/L,315 MVA ICT-I ,BUS REACTOR AT RAIPUR & LILO OF KORBA-BHILAI CKTIII,	73/2004 Order Dt 29- 04-2008	-do-	961.06	1.00	99.75%	1.75%	16.82
8.3	315 MVA ICT II WITH LILO OF 400 KV D/C BHILAI CHANDRAPUR LINE CKT		-do-	131.62	1.00	99.75%	1.75%	2.30
9.1	400 kV D/C Kolhapur- Mapusa (Circuit-I),ICT-I with associated bays	61/2005 Order dt 29- 04-2008	01.01.2003	1025.35	1.00	99.75%	1.75%	17.94
9.2			01.12.2002	2159.11	1.00	99.75%	1.75%	37.78

		1						
10	FSC & TCSC for Raipur- Rourkela line	11/2005 Order dt 27- 10-2006	01.11.2004	3151.93	1.00	99.75%	1.75%	55.16
11	Khandwa S/S & LILO of Itarsi- Dhule at Khandwa	149/2005 Order dt 26- 10-2006	01.02.2005	2081.69	1.00	99.75%	1.75%	36.43
12.1	Tarapur- Padghe Ckt-I		01.03.2005	1446.35	1.00	99.75%	1.75%	25.31
12.2	Tarapur- Padghe Ckt-II, 400 kV Tarapur- Boisar TL & LILO of Gandhar- Padghe TL	135/2006 Order Dt 06- 02-2007	01.08.2005	2077.21	0.67	99.75%	1.75%	24.23
12.3	220 kV Tarapur- Boisar TL		1.09.2005	1971.51	0.58	99.75%	1.75%	20.13
13	Raipur- Chandrapur (Bhadrawati) Line	134/2006 Order Dt 06.02.2007	01.06.2005	6129.92	0.83	99.75%	1.75%	89.39
	SUB TOTAL (A)			70467.6 7				1188.81
(B)	INTER REGIONAL AC PROJECTS							
	Basic availability for incentive							98.00%
14	RAMGUNDAM- CHANDRAPUR (50%)	138/2004 Order Dt 14- 02-2008	Before 31.03.2001	1211.75	1.00	99.69%	1.69%	20.48
15	RAIPUR- ROURKELA (50%)	63/2005 Order dt 09- 05-2006	01.04.2003	1538.92	1.00	99.12%	1.12%	17.24
16	Korba-Budhipadar line in Western Region (2/3 rd equity for WR)	69/2004 Order Dt 29- 04-2008	Before 31.03.2001	441.29	1.00	99.50%	1.50%	6.62
	SUB TOTAL (B)			3191.96				44.33
(C)	INTER REGIONAL HVDC PROJECTS							
	Basic availibility for incentive							95.00%
17	Singrauli-Vindhyachal TL along with HVDC back to back station at Vindhyachal in NR & WR (50%)	113/2004 Order Dt 14- 02-2008	Before 31.03.2001	4156.44	1.00	98.48%	3.48%	144.64
18	CHANDRAPUR HVDC (50%)	137/2004 Order Dt 16- 04-2008	-do-	3958.57	1.00	99.14%	4.14%	163.88
	SUB TOTAL (C)			8115.00				308.53
	TOTAL			81774.6 3				1541.68