

Element wise Break-up of Project Cost for Transmission System

POWERGRID CORPORATION OF INDIA LIMITED  
EASTERN REGION

EAST-WEST TRANSMISSION CORRIDOR STRENGTHENING SCHEME

400 KV D/C ROURKELA- RAIGARH TRANSMISSION LINE AND ASSOCIATED BAYS AT ROURKELA S/S & RAIGARH S/S  
AND FSC PACKAGE AT RAIPUR S/S.

Name of Transmission Licensee

Name of Region

Name of the project

Name of Transmission Element.

SI No	Break Down	Cost in Rs. Crore			Variation	Reason for Variation	Admitted Cost
		As per Original Estimates	As on CQP	Liabilities/Provisions			
1	2	3	4	5	7	8	
6.7	Busbars / Conductors / Insulators	0.52	0.52	0.00	0.00		
6.8	Outdoor Lighting	0.17	0.08	0.00	0.12		
6.9	Emergency D G Self/Auxiliaries	0.34	0.33	0.08	-0.07		
6.10	Grounding System	0.00	0.00	0.00	0.00		
6.11	Structure for Switchyard	1.11	1.62	0.64	-1.15	Due to higher tendered cost	
	<b>Total Substation Equipments</b>	<b>67.06</b>	<b>44.55</b>	<b>4.63</b>	<b>17.88</b>		
7.0	Spares	0.00	0.00	0.00	0.00		
8.0	Taxes and Duties						
8.1	Custom Duty	0.00	0.00	0.00	0.00		
8.2	Other Taxes and Duties	0.00	0.00	0.00	0.00		
8.3	Total taxes and Duties	0.00	0.00	0.00	0.00		
	<b>Total Substation</b>	<b>69.98</b>	<b>47.27</b>	<b>4.82</b>	<b>17.90</b>		
9.0	Construction and Precommissioning expenses						
9.1	Site Supervision and site admn etc	0.00	0.00	0.00	0.00		
9.2	Tools and Plants	0.00	0.00	0.00	0.00		
9.3	Construction Insurance	0.00	0.00	0.00	0.00		
	<b>Total Construction and Pre commissioning expenses</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		
10.0	Overheads						
10.1	Establishments	23.26	8.96	0.00	14.30	As per actual	
10.2	Audit and Accounts						
10.3	Contingency						
	<b>Total Overheads</b>	<b>23.26</b>	<b>8.96</b>	<b>0.00</b>	<b>14.30</b>		
11.0	Project Cost without Total Cost ( Plant & Equipment )	315.30	252.49	14.79	48.02		
12.0	Total Cost ( Plant and Equipment )						
12.1	Interest During Construction ( IDC )	15.19	20.92	0.00	-5.73	As per actual	
12.2	Financing Charges ( FC )		0.00	0.00	0.00		
12.3	Foreign Exchange Rate Variation ( FERV )		-0.89	0.00	0.89	As per actual	
12.4	Hedging Cost.		0.00	0.00	0.00		
	<b>Total of IDC, FC, FERV &amp; Hedging Cost.</b>	<b>15.19</b>	<b>20.04</b>	<b>0.00</b>	<b>-4.84</b>		
13.0	Capital Cost including IDC, FC, FERV & Hedging Cost.	330.50	272.5294	14.7887	43.18		



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## Break up of Construction / Supply / Service Packages

Name of Transmission Licensee: **POWER GRID CORPORATION OF INDIA LIMITED**  
 Name of Region: **EASTERN REGION**

Name of the project: **EAST-WEST TRANSMISSION CORRIDOR STRENGTHENING SCHEME**

Name of Transmission Element: **400 KV D/C ROURKELA- RAIGARH TRANSMISSION LINE AND ASSOCIATED BAYS AT ROURKELA S/S & RAIGARH S/S AND FSC PACKAGE AT RAIPUR S/S.**

Sr. No.	Name / No. of Construction / Supply / Service Package	Scope of works (in line with head of cost break-ups as applicable)	Whether awarded through ICB/DCB/Departmentally/Deposit work etc.	No. of Bids received	Date of award	Date of start of work	Date of completion of work	Value of award in (Rs. Crs)	Firm or with Escalation in prices	Actual expenditure till the completion or upto COD which ever is earlier (Rs.Cr.)
								Amended		
1	M/s TATA Projects Ltd C-46202-L195A-1/NOA-I/2379 dated 10.07.2007	400/220 KV Rourkela- Raigarh T/L (SUPPLY)	ICB	9	10.07.2007	01.09.2007	25.03.2011	59.92	Escalation	68.48
2	M/s TATA Projects Ltd C-46202-L195A-1/NOA-II/2380 dated 10.07.2007	400/220 KV Rourkela- Raigarh T/L (ERECTION)	ICB	9	10.07.2007	01.02.2008	30.03.11 (Ant.)	25.43	Escalation	19.72
3	M/s Sterlite Technologies Ltd C-46201-L175A-3/P-112/LOA/2622 dated 29.08.2008	Conductor pkg	DCB	3	29.08.2008	01.11.2008	31.04.2010	82.28	Firm	85.31
4	M/s Aditya Biria Insulators C-46201-L179-1/P-112/NOA/2451 dated 20.02.2008	Insulator pkg	ICB	4	20.02.2008	01.04.2008	31.07.2010	9.65	Escalation	10.77
5	M/s Areva T & D Ltd C-46204-S119A-1/P-112/NOA-I/2436 dated 18/02/2008	Bay Extensions Package at Rourkela S/S and Raigarh S/S(SUPPLY)	ICB	6	18.02.2008	10.03.2008	10.11.2010	27.67	Escalation	15.24
6	M/s Areva T & D Ltd C-46204-S119A-1/P-112/NOA-II/2437 dated 18/02/2008	Bay Extensions Package Rourkela S/S and Raigarh S/S(ERECTION)	ICB	6	18.02.2008	10.03.2008	10.11.2010	4.51	Escalation	2.58
7	M/s ABB C-46205-S162-1/CA-II/ 2905 dt 17.03.2009	400 KV Bay extension at Raipur with FSC (CIF Price Component + Training charges)	ICB	1	17.03.2009	20.03.2009	01.01.2010	SEK 37.52 Millions.	Firm	29.32
8	M/s ABB C-46205-S162-1/CA-III/ 2906 dt 17.03.2009	400 KV Bay extension at Raipur with FSC (Ex Works price component including Type testing)	ICB	1	17.03.2009	20.03.2009	01.01.2010	INR 3.64 Crs	Firm	
9	M/s ABB C-46205-S162-1/CA-III/ 2907 dt 17.03.2009	400 KV Bay extension at Raipur with FSC (Inland transportation, insurance and installation charges)	ICB	1	17.03.2009	20.03.2009	01.01.2010	INR 4.08 Crs	Firm	



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Details of elementwise cost

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**  
 Name of Region: **WESTERN REGION**  
 Name of the Project: **Eastern-Western inter-regional link**  
 Name of the Transmission Element: **Combined Assets of Eastern-Western Inter Regional Link(Anticipated :DOCO :01-APR-2011**  
 Date of Commercial Operation of the Transmission element: **01-APR-2011**

(Rs in Lakhs)

Transmission Lines						
S.NO.	Name of line	Apporitioned approved Cost	Completed Cost	Covered in the present petition Yes/No	If No, petition No.	
1	400kV D/C Raigarh-Raipur TL alongwith associated bays(Asset I)	24855.51	22737.69			
2	400kv D/C Ranchi-Rourkela TL alongwith associated bays (Asset II)	22465.67	17903.13			
3	400 kV D/C Rourkela-Raigarh TL Along with associated bays and 40% Fixed Series Compensation (FSC) along with 5-15% Thyristor Controlled Series Capacitor(TCSC) on both the circuits of Raigarh – Raipur 400KV D/C line at Raipur (Asset III)	33048.82	28731.81			
	<b>Total</b>	<b>80370.00</b>	<b>69372.63</b>			
	<b>Grand Total</b>	<b>80370.00</b>	<b>69372.63</b>			

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Financial package upto COD

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**  
 Name of Region: **WESTERN REGION**  
 Name of the Project: **Eastern-Western inter-regional link**  
 Name of the Transmission Element: **Combined Assets of Eastern-Western Inter Regional Link-(Anticipated :DOCO :01-APR-2011**  
 Project Cost as on COD/31.03.2009: **0.00 (Rs. in Lakhs)**  
 Date of Commercial Operation of the Transmission element: **01-APR-2011(Anticipated)**

(Rs in Lacs)

REVISED 400 KV D/C Raipur-Raigarh TL along with associated bays						
1	Financial Package as Approved		Financial Package as on COD /31.03.2011		As Admitted on COD /31.03.2009	
	Currency	Amount	Currency	Amount	Currency	Amount
	2	3	4	5	6	7
Loans						
Loans - Domestic						
Loans - Foreign						
<b>Total Loans</b>		17398.86		15702.88		
Equity						
Foreign						
Domestic						
Notional						
<b>Total Equity</b>		7456.65		6729.81		
Debt Equity Ratio		70.00:30.00		70.00:30.00		
<b>Total Cost</b>		<b>24855.51</b>		<b>22432.69</b>		
400 kV D/C Ranchi-Rourkela TL with Associated Bays						
1	Financial Package as Approved		Financial Package as on COD /31.03.2011		As Admitted on COD /31.03.2009	
	Currency	Amount	Currency	Amount	Currency	Amount
	2	3	4	5	6	7
Loans						
Loans - Domestic						
Loans - Foreign						
<b>Total Loans</b>		15725.97		12324.31		
Equity						
Foreign						
Domestic						
Notional						
<b>Total Equity</b>		6739.70		5281.85		
Debt Equity Ratio		70.00:30.00		70.00:30.00		
<b>Total Cost</b>		<b>22465.67</b>		<b>17606.16</b>		
(i)400kV D/C Rourkela-Raigarh Transmission Line and associated bays at Rourkela and Raigarh and (ii) FSC package at Raipur S/S (Anticipated :DOCO :01-APR-2011						
1	Financial Package as Approved		Financial Package as on COD /31.03.2011		As Admitted on COD /31.03.2009	
	Currency	Amount	Currency	Amount	Currency	Amount
	2	3	4	5	6	7



Financial package upto COD

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**  
 Name of Region: **WESTERN REGION**  
 Name of the Project: **Eastern-Western inter-regional link**  
 Name of the Transmission Element: **Combined Assets of Eastern-Western Inter Regional Link-(Anticipated :DOCO :01-APR-2011**  
 Project Cost as on COD/31.03.2009: **0.00 (Rs. in Lakhs)**  
 Date of Commercial Operation of the Transmission element: **01-APR-2011 (Anticipated)**

(Rs in Lacs)

Loans						
Loans - Domestic						
Loans - Foreign						
<b>Total Loans</b>		23134.17		19077.04		
Equity						
Foreign						
Domestic						
Notional						
<b>Total Equity</b>		9914.65		8175.88		
Debt Equity Ratio		70.00:30.00		70.00:30.00		
<b>Total Cost</b>		<b>33048.82</b>		<b>27252.92</b>		
<b>Combined Assets of Eastern-Western Inter Regional Link-(Anticipated</b>						
	<b>Financial Package as Approved</b>		<b>Financial Package as on COD /31.03.2011</b>		<b>As Admitted on COD /31.03.2009</b>	
	<b>Currency</b>	<b>Amount</b>	<b>Currency</b>	<b>Amount</b>	<b>Currency</b>	<b>Amount</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
Loans						
Loans - Domestic						
Loans - Foreign						
<b>Total Loans</b>		56259.00		47104.24		
Equity						
Foreign						
Domestic						
Notional						
<b>Total Equity</b>		24111.00		20187.53		
Debt Equity Ratio		70.00:30.00		70.00:30.00		
<b>Total Cost</b>		<b>80370.00</b>		<b>67291.77</b>		
	<b>Debt</b>	<b>Equity</b>	<b>Total</b>			
<b>Add Cap For 2011-2012</b>			1521.17			
<b>Add Cap For 2012-2013</b>			559.69			
<b>Add Cap For 2011-2012</b>	<b>Actual</b>	<b>Normative</b>				
Debt		1064.82				
Equity		456.35				
<b>Total</b>		<b>1521.17</b>				
<b>Add Cap For 2012-2013</b>	<b>Actual</b>	<b>Normative</b>				
Debt		391.78				



Financial package upto COD

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.  
Name of Region: WESTERN REGION  
Name of the Project: Eastern-Western inter-regional link  
Name of the Transmission Element: Combined Assets of Eastern-Western Inter Regional Link-(Anticipated :DOCO :01-APR-2011  
Project Cost as on CQD/31.03.2009: 0.00 (Rs. in Lakhs)  
Date of Commercial Operation of the Transmission element: 01-APR-2011 (Anticipated)

				(Rs in Lacs)
Equity		167.91		
Total		559.69		
Total Capital Cost with ADDCAP upto 01.04.2013		69372.63		

  
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Statement of Additional Capitalisation after COD

Name of the Transmission Licensee:  
Name of Region:  
Name of the Project:  
Name of the Transmission Element:  
COD:

POWERGRID CORPORATION OF INDIA LTD.  
WESTERN REGION  
Eastern-Western inter-regional link  
Combined Assets of Eastern-Western Inter Regional Link(Anticipated :<sup>Notioned</sup> DOCO :01-APR-2011  
01-APR-2011

Sl.No.	Year	Work/Equipment proposed to be added after COD upto cut off date/ beyond cut off date	Amount capitalised and proposed to be capitalised	Justification as per propose	Regulation under which covered	Admitted Cost
1	2	3	4	5	6	7
1.	2011-2012	TR LINE	858.68			
		SUB STATION	656.17			
		PLCC	6.32			
	Total		1521.17			
2.	2012-2013	TR LINE	461.75	Rev.9(1) of-2009		
		SUB STATION	97.94			
	Total		559.69	Rev 9(1) of-2009		

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Financing of Additional Capitalisation

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.

Name of the Region: WESTERN REGION

Name of the Project: Eastern-Western inter-regional link

Name of the Transmission Element: Combined Assets of Eastern-Western Inter Regional Link(Anticipated):DOCO :01-APR-2011

Notional

Financial Year (Starting from COD)	From COD to31- Mar-2012	AddCap for 2012-2013	Projected/Actual				Admitted				(Rs in Lacs)
			Year3	Year4	Year5& So on	Year1	Year2	Year3	Year4	Year5 & so on	
1	2	3	4	5	6	7	8	9	10	11	
Amount capitalised in Work/Equipmen t	1521.17	559.69									
Financing Details											
Loan-1											
Loan-2											
Loan-3 and so on											
Total Loan	1064.82	391.78									
Equity	456.35	167.91									
Internal Resources											
Others											
Total	1521.17	559.69									

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## Calculation of Depreciation Rate

Name of the Transmission Licensee:

POWERGRID CORPORATION OF INDIA LTD.

Name of Region:

WESTERN REGION

Name of the Project:

Eastern-Western inter-regional link

Name of the Transmission Element:

Combined Assets of Eastern-Western Inter Regional Link(Anticipated <sup>Notional</sup> :DOCO :01-APR-2011

(Rs in Lacs)

Sl.No.	Name of the Assets	Gross Block as on 31.03.2011 or as on COD, whichever is later	Addcap during the year	Gross Block as on 31.03.2012 or as on COD, whichever is later	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount up to 31.03.2012
	1	2	3	4	5	6=Col.4 X Col.5
<b>2011-2012</b>						
1	FREEHOLD LAND	0.00	0.00	0.00	0.00%	0.00
2	BUILDING	323.36	0.00	323.36	3.34%	10.80
3	TR LINE	57655.13	858.68	58513.81	5.28%	3066.86
4	SUB STATION	9052.05	656.17	9708.22	5.28%	495.27
5	PLCC	261.23	6.32	267.55	6.33%	16.74
6	LEASEHOLD LAND	0.00	0.00	0.00	3.34%	0.00
	<b>Total</b>	<b>67291.77</b>	<b>1521.17</b>	<b>68812.94</b>		<b>3589.67</b>
<b>Weighted Average Rate of Depreciation (%)</b>						<b>5.27</b>
<b>Elapsed Life</b>						<b>1</b>
Sl.No.	Name of the Assets	Gross Block as on 31.03.2012 or as on COD, whichever is later	Addcap during the year	Gross Block as on 31.03.2013 or as on COD, whichever is later	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount up to 31.03.2013
	1	2	3	4	5	6=Col.4 X Col.5
<b>2012-2013</b>						
7	FREEHOLD LAND	0.00	0.00	0.00	0.00%	0.00
8	BUILDING	323.36	0.00	323.36	3.34%	10.80
9	TR LINE	58513.81	461.75	58975.56	5.28%	3101.72
10	SUB STATION	9708.22	97.94	9806.16	5.28%	515.18
11	PLCC	267.55	0.00	267.55	6.33%	16.94
12	LEASEHOLD LAND	0.00	0.00	0.00	3.34%	0.00
	<b>Total</b>	<b>68812.94</b>	<b>559.69</b>	<b>69372.63</b>		<b>3644.64</b>
<b>Weighted Average Rate of Depreciation (%)</b>						<b>5.27</b>
<b>Elapsed Life</b>						<b>2</b>
Sl.No.	Name of the Assets	Gross Block as on 31.03.2013 or as on COD, whichever is later	Addcap during the year	Gross Block as on 31.03.2014 or as on COD, whichever is later	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount up to 31.03.2014
	1	2	3	4	5	6=Col.4 X Col.5
<b>2013-2014</b>						
13	FREEHOLD LAND	0.00	0.00	0.00	0.00%	0.00
14	BUILDING	323.36	0.00	323.36	3.34%	10.80
15	TR LINE	58975.56	0.00	58975.56	5.28%	3113.91
16	SUB STATION	9806.16	0.00	9806.16	5.28%	517.77
17	PLCC	267.55	0.00	267.55	6.33%	16.94
18	LEASEHOLD LAND	0.00	0.00	0.00	3.34%	0.00
	<b>Total</b>	<b>69372.63</b>	<b>0.00</b>	<b>69372.63</b>		<b>3659.41</b>
<b>Weighted Average Rate of Depreciation (%)</b>						<b>5.28</b>
<b>Elapsed Life</b>						<b>3</b>

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Statement of Depreciation

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**  
 Name of Region: **WESTERN REGION**  
 Name of the Project: **Eastern-Western inter-regional link**  
 Name of the Transmission Element: **Combined Assets of Eastern-Western Inter Regional Link(Anticipated)**

**Notional**  
 :DOCO :01-APR-2011

Financial Year	(Rs in Lacs)													
	Upto 2000-2001	2001-2002	2002-2003	2003-2004	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Depreciation on Capital Cost												3,549.48	3,549.48	3,549.48
Depreciation on Additional Capitalisation														
Amount of Additional Capitalisation												1,521.17	559.69	
Depreciation Amount														
Details of FERV												40.19	95.16	109.94
Amount of FERV on which depreciation charged														
Depreciation Amount														
Depreciation Recovered during the year												3,589.67	3,644.64	3,659.41
Advance against Depreciation recovered during the year														
Depreciation and Advance against Depreciation recovered during the year												3,589.67	3,644.64	3,659.41
Cumulative Depreciation And Advance against Depreciation recovered upto the year											881.25	4,470.92	8,115.55	11,774.96

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Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.  
Name of Region: WESTERN REGION  
Name of the Project: Eastern-Western inter-regional link  
Name of the Transmission Element: Combined Assets of Eastern-Western Inter Regional Link(Anticipated APR-2011) <sup>Notional</sup> :DOCO :01-

(Rs in Lacs)

Particulars	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
<b>IBRD IV</b>						
Gross Loan Opening				9479.30	9479.30	9479.30
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening				9479.30	9479.30	9479.30
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						209.81
Net Loan Closing				9479.30	9479.30	9269.50
Average Net Loan				9479.30	9479.30	9374.40
Rate of Interest on Loan		0%	0%	1.72%	1.72%	1.72%
Interest on Loan				163.04	163.04	161.24
<b>IBRD IV ADDL</b>						
Gross Loan Opening				1221.75	1221.75	1221.75
Cumulative Repayments of Loans upto Previous Year						20.65
Net Loans Opening				1221.75	1221.75	1201.10
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year					20.65	41.66
Net Loan Closing				1221.75	1201.10	1159.44
Average Net Loan				1221.75	1211.43	1180.27
Rate of Interest on Loan		0%	0%	1.96%	1.96%	1.96%
Interest on Loan				23.95	23.74	23.13
<b>IBRD IV</b>						
Gross Loan Opening				6304.31	6304.31	6304.31
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening				6304.31	6304.31	6304.31
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						139.54
Net Loan Closing				6304.31	6304.31	6164.78
Average Net Loan				6304.31	6304.31	6234.55
Rate of Interest on Loan		0%	0%	1.72%	1.72%	1.72%
Interest on Loan				108.43	108.43	107.23
<b>IBRD IV</b>						
Gross Loan Opening				7521.76	7521.76	7521.76
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening				7521.76	7521.76	7521.76
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						166.48
Net Loan Closing				7521.76	7521.76	7355.28
Average Net Loan				7521.76	7521.76	7438.52
Rate of Interest on Loan		0%	0%	1.72%	1.72%	1.72%
Interest on Loan				129.37	129.37	127.94
<b>IBRD IV ADDL</b>						
Gross Loan Opening				274.00	274.00	274.00



Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**  
 Name of Region: **WESTERN REGION**  
 Name of the Project: **Eastern-Western inter-regional link**  
 Name of the Transmission Element: **Combined Assets of Eastern-Western Inter Regional Link(Anticipated APR-2011)** National  
DOC0 :01-

(Rs in Lacs)

Particulars	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
Cumulative Repayments of Loans upto Previous Year						4.63
Net Loans Opening				274.00	274.00	269.37
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year					4.63	9.34
Net Loan Closing				274.00	269.37	260.03
Average Net Loan				274.00	271.69	264.70
Rate of Interest on Loan		0%	0%	1.96%	1.96%	1.96%
Interest on Loan				5.37	5.33	5.19
<b>BONDS XXIX</b>						
Gross Loan Opening				2922.00	2922.00	2922.00
Cumulative Repayments of Loans upto Previous Year						243.50
Net Loans Opening				2922.00	2922.00	2678.50
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year					243.50	243.50
Net Loan Closing				2922.00	2678.50	2435.00
Average Net Loan				2922.00	2800.25	2556.75
Rate of Interest on Loan		0%	0%	9.2%	9.2%	9.2%
Interest on Loan				268.82	257.62	235.22
<b>BOND XXVIII</b>						
Gross Loan Opening				4867.00	4867.00	4867.00
Cumulative Repayments of Loans upto Previous Year						405.58
Net Loans Opening				4867.00	4867.00	4461.42
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year					405.58	405.58
Net Loan Closing				4867.00	4461.42	4055.83
Average Net Loan				4867.00	4664.21	4258.63
Rate of Interest on Loan		0%	0%	9.33%	9.33%	9.33%
Interest on Loan				454.09	435.17	397.33
<b>BOND XXVIII</b>						
Gross Loan Opening				7983.00	7983.00	7983.00
Cumulative Repayments of Loans upto Previous Year						665.25
Net Loans Opening				7983.00	7983.00	7317.75
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year					665.25	665.25
Net Loan Closing				7983.00	7317.75	6652.50
Average Net Loan				7983.00	7650.38	6985.12
Rate of Interest on Loan		0%	0%	9.33%	9.33%	9.33%
Interest on Loan				744.81	713.78	651.71
<b>BONDS XXIX</b>						
Gross Loan Opening				1781.00	1781.00	1781.00
Cumulative Repayments of Loans upto Previous Year						148.42
Net Loans Opening				1781.00	1781.00	1632.58

75



Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**  
 Name of Region: **WESTERN REGION**  
 Name of the Project: **Eastern-Western inter-regional link**  
 Name of the Transmission Element: **Combined Assets of Eastern-Western Inter Regional Link(Anticipated APR-2011)** Notional  
:DOCO :01-

(Rs in Lacs)

Particulars	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year					148.42	148.42
Net Loan Closing				1781.00	1632.58	1484.17
Average Net Loan				1781.00	1706.79	1558.38
Rate of Interest on Loan		0%	0%	9.2%	9.2%	9.2%
Interest on Loan				163.85	157.02	143.37
<b>BOND-XXXIV</b>						
Gross Loan Opening				3265.52	3265.52	3265.52
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening				3265.52	3265.52	3265.52
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						
Net Loan Closing				3265.52	3265.52	3265.52
Average Net Loan				3265.52	3265.52	3265.52
Rate of Interest on Loan		0%	0%	8.84%	8.84%	8.84%
Interest on Loan				288.67	288.67	288.67
<b>BONDS XXX</b>						
Gross Loan Opening				101.00	101.00	101.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening				101.00	101.00	101.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						8.42
Net Loan Closing				101.00	101.00	92.58
Average Net Loan				101.00	101.00	96.79
Rate of Interest on Loan		0%	0%	8.8%	8.8%	8.8%
Interest on Loan				8.89	8.89	8.52
<b>BONDS XXX</b>						
Gross Loan Opening				215.00	215.00	215.00
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening				215.00	215.00	215.00
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						17.92
Net Loan Closing				215.00	215.00	197.08
Average Net Loan				215.00	215.00	206.04
Rate of Interest on Loan		0%	0%	8.8%	8.8%	8.8%
Interest on Loan				18.92	18.92	18.13
<b>Total</b>						
Gross Loan Opening				45935.66	45935.66	45935.66
Cumulative Repayments of Loans upto Previous Year						1488.03
Net Loans Opening				45935.66	45935.66	44447.63
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year					1488.03	2055.91
Net Loan Closing				45935.66	44447.63	42391.71



Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.  
Name of Region: WESTERN REGION  
Name of the Project: Eastern-Western inter-regional link  
Name of the Transmission Element: Combined Assets of Eastern-Western Inter Regional Link(Anticipated APR-2011) <sup>Notional</sup> :DOCO :01-

(Rs in Lacs)

Particulars	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
Average Net Loan				45935.66	45191.64	43419.67
Interest on Loan				2378.23	2310.00	2167.69
Weighted Average Rate of Interest on Loans				5.1773%	5.1116%	4.9924%

*Namdeo*  
Petitioner





**NATIONAL STOCK EXCHANGE  
OF INDIA LIMITED**

**NIFTY 50**

Stock of the nation

Ref.: NSE/LIST/ 151475-T

November 15, 2010

The Manager (Finance)  
Power Grid Corporation Limited  
Saudamini,  
Plot No.2, Sector – 29,  
Gurgaon(Haryana) – 122 001.

**Kind Attn. : Mr. K.C. Pant**

Dear Sir,

**Sub: Listing of Secured Redeemable, Non-Convertible, Non Cumulative,  
Redeemable, Taxable Bonds (Series – XXXIV) issued by Power Grid  
Corporation of India Limited**

This has reference to your listing application for the listing of Secured Redeemable, Non-Convertible, Non Cumulative, Redeemable, Taxable Bonds (Series-XXXIV), issued by you.

In this connection, we are pleased to inform you that the securities as specified in the application are duly listed on the WDM segment with effect from November 15, 2010 and all members have been suitably informed as per details given in Annexure I.

A Trade Statistics report will be provided to you on a monthly basis in the first week of the following month, if the security was traded during the previous month. This report will contain price volume details for each day traded.

Yours truly,  
For National Stock Exchange of India Limited

Johnson Joseph  
Chief Manager

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Authorised Signatory  
Power Grid Corporation of India Ltd.  
Plot No. 2, Sector-29, Gurgaon-122001 (HARYANA)





**Annexure I**  
**Power Grid Corporation of India Limited**  
**Details of Securities**

Sr. No.	Issue Description	Security Type	Security	Issue	Allotment amount (In lakhs)	Maturity date
1	POWER GRID CORP 8.84% 2014 (S-XXXIV, STRPP-A)	PT	PGC14A	8.84%	29062.5	21-Oct-2014
2	POWER GRID CORP 8.84% 2015 (S-XXXIV, STRPP-B)	PT	PGC15A	8.84%	29062.5	21-Oct-2015
3	POWER GRID CORP 8.84% 2016 (S-XXXIV, STRPP-C)	PT	PGC16A	8.84%	29062.5	21-Oct-2016
4	POWER GRID CORP 8.84% 2017 (S-XXXIV, STRPP-D)	PT	PGC17A	8.84%	29062.5	21-Oct-2017
5	POWER GRID CORP 8.84% 2018 (S-XXXIV, STRPP-E)	PT	PGC18A	8.84%	29062.5	21-Oct-2018
6	POWER GRID CORP 8.84% 2019 (S-XXXIV, STRPP-F)	PT	PGC19A	8.84%	29062.5	21-Oct-2019
7	POWER GRID CORP 8.84% 2020 (S-XXXIV, STRPP-G)	PT	PGC20A	8.84%	29062.5	21-Oct-2020
8	POWER GRID CORP 8.84% 2021 (S-XXXIV, STRPP-H)	PT	PGC21A	8.84%	29062.5	21-Oct-2021
9	POWER GRID CORP 8.84% 2022 (S-XXXIV, STRPP-I)	PT	PGC22A	8.84%	29062.5	21-Oct-2022
10	POWER GRID CORP 8.84% 2023 (S-XXXIV, STRPP-J)	PT	PGC23A	8.84%	29062.5	21-Oct-2023
11	POWER GRID CORP 8.84% 2024 (S-XXXIV, STRPP-K)	PT	PGC24A	8.84%	29062.5	21-Oct-2024
12	POWER GRID CORP 8.84% 2025 (S-XXXIV, STRPP-L)	PT	PGC25A	8.84%	29062.5	21-Oct-2025

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Power Grid Corporation of India Ltd.  
Plot No. 2, Sector-29, Gurgaon-122001 (HARYANA)





**Power Grid Corporation of India Ltd**



(Rupees in Crore)  
As at 31st March, 2010  
As at 31st March, 2009

**Schedule 05A - Secured loans(Contd.)**

**Description**

**BONDS XXIX SERIES**

9.20% Taxable, Secured, Redeemable, Non-Convertible, Non-Cumulative Bonds of Rs. 1.50 crore each consisting of 12 STRPP's of Rs. 12.50 lakh each redeemable at par in 12(twelve) equal annual installments w.e.f 12.03.2013

1297.50

Secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambheti Taluka Kaparada in district Valsad Gujarat and floating charge on the assets of the company.

\* Included under Unsecured Loans in previous year due to non completion of legal formalities

**BONDS XXX SERIES**

8.80% Taxable, Secured, Redeemable, Non-Convertible, Non-Cumulative Bonds of Rs. 1.50 crore each consisting of 12 STRPP's of Rs. 12.50 lakh each redeemable at par in 12(twelve) equal annual installments w.e.f 29.09.2013

2332.50

Secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambheti Taluka Kaparada in district Valsad Gujarat and floating charge on the assets of the company.

**BONDS XXXI SERIES**

8.90% Taxable, Secured, Redeemable, Non-Convertible, Non-Cumulative Bonds of Rs. 1.50 crore each consisting of 12 STRPP's of Rs. 12.50 lakh each redeemable at par in 12(twelve) equal annual installments w.e.f 25.02.2014  
Secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambheti Taluka Kaparada in district Valsad Gujarat and floating charge on the assets of the company.

2047.50

**BONDS XXXII SERIES**

8.84% Taxable, Secured, Redeemable, Non-Convertible, Non-Cumulative Bonds of Rs. 1.50 crore each consisting of 12 STRPP's of Rs. 12.50 lakh each redeemable at par in 12(twelve) equal annual installments w.e.f 29.03.2014  
Secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambheti Taluka Kaparada in district Valsad Gujarat and floating charge on the assets of the company.

1035.00

21171.83

15112.07

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Authorised Signatory

Power Grid Corporation of India Ltd.  
Plot No. 2, Sector-29, Gurgaon-122001 (HARYANA)





Schedule 05 A - Secured Loans (Contd...)

Description	(Rupees in Crore)	
	As at 31st March, 2009	As at 31st March, 2008
b) 9.20% Taxable, Secured, Redeemable, Non-Cumulative, Non-Convertible bonds of Rs. 3 crore each consisting of 6 STRPPs of Rs. 50 lakh each, redeemable at par in 6 (six) equal annual installments w.e.f 07-12-2003  Secured by way of Registered Bond Trust Deed ranking pari passu, on immovable property situated at Mouje Ambheti, Taluka Kaparada in District Valsad Gujarat and mortgage & hypothecation on assets of Uri Transmission system	362.00	34.50 441.75
<b>BONDS XII SERIES</b> 9.70% Taxable, Secured, Redeemable, Non-Cumulative, Non-Convertible Bonds of Rs 1.5 crore each consisting of 12 STRPPs of Rs. 12.50 lakh each, redeemable at par in 12 (twelve) equal annual installments w.e.f 28.03.2006.  Secured by way of Registered Bond Trust Deed ranking pari-passu on immovable property situated at Mouje Ambheti Taluka Kaparada in District Valsad, Gujarat and mortgage and hypothecation on assets of Kayamkulam & Ramagundam Hyderabad Transmission System	123.00	138.38
<b>BONDS XIII SERIES</b> a) 8.63% Taxable, Secured, Redeemable, Non-Cumulative, Non-Convertible Bonds of Rs 1.5 crore each consisting of 12 STRPPs of Rs. 12.50 lakh each, redeemable at par in 12 (twelve) equal annual installments w.e.f 31.07.2006.  Secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambheti, Taluka Kaparada in District Valsad, Gujarat and mortgage & hypothecation on assets of Kishenour Moga & Dulhasti Contingency Transmission System	607.50	675.00
b) 7.85% Taxable, Secured, Redeemable, Non-cumulative, Non-convertible Bonds of Rs 1.5 crore each consisting of 06 STRPPs of Rs 25 lakh each, redeemable at par in 6 (six) equal annual installments w.e.f 31.07.2003  Secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambheti, Taluka Kaparada in District Valsad, Gujarat and mortgage & hypothecation on assets of NLC Lines Trichy, Neyveli- Bahoor Line, Neyveli-Trichy Transmission System	607.50	41.75 776.75
<b>BONDS XIV SERIES</b> 6.10% Taxable, Secured, Redeemable, Non-Cumulative, Non-Convertible Bonds of Rs. 1.5 crore each consisting of 12 STRPP's of Rs. 12.50 Lakhs each redeemable at par in 12 (twelve) equal annual installments w.e.f. 17.07.2004.  Secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambheti Taluka Kaparada in district Valsad, Gujarat and floating charge on the assets of the Company.	407.75	466.00

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 Power Grid Corporation of India Ltd.  
 Plot No. 2, Sector-29, Gurgaon-122001 (HARYANA)



Schedule 05 A - Secured Loans (Contd...)

Description	(Rupees in Crore)	
	As at 31st March, 2009	As at 31st March, 2008
<b>BONDS XV SERIES</b>		
6.68% Taxable, Secured, Non-Cumulative, Non-Convertible Bonds of Rs. 1.50 crore each consisting of 12 STRPP's of Rs 12.50 lakhs each redeemable at par in 12 (twelve) equal annual installments w.e.f 23.02.2008.	750.00	825.00
Secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at mouje Ambheti, Taluka Kaparada in district Valsad, Gujarat and floating charge on the assets of the Company.		
<b>BONDS XVI SERIES</b>		
7.10% Taxable, Secured, Redeemable, Non-Convertible, Non-Cumulative Bonds of Rs. 1.00 crore each consisting of 10 STRPP's of Rs. 10.00 lakh each redeemable at par in 10 (Ten) equal annual installments w.e.f. 18.02.2009	675.00	750.00
Secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambheti, Taluka Kaparada in district Valsad, Gujarat and floating charge on the assets of the Company.		
<b>BONDS XVII SERIES</b>		
7.39% Taxable, Secured, Redeemable, Non-Convertible, Non-Cumulative Bonds of Rs. 1.00 Crore each consisting of 10 STRPP's of Rs. 10.00 lakh each redeemable at par in 10 (ten) equal annual installments w.e.f 22.09.2009	1000.00	1000.00
Secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambheti, Taluka Kaparada in district Valsad, Gujarat and floating charge on the assets of the Company.		
<b>BONDS XVIII SERIES</b>		
8.15% Taxable, Secured, Redeemable, Non-Convertible, Non-Cumulative Bonds of Rs. 1.50 crore each consisting of 12 STRPP's of Rs. 12.50 lakh each redeemable at par in 12 (twelve) equal annual installments w.e.f 09.03.2010.	999.00	999.00
Secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambheti, Taluka Kaparada in district Valsad, Gujarat and floating charge on the assets of the Company.		
<b>BONDS XIX SERIES</b>		
9.25% Taxable, Secured, Redeemable, Non-Convertible, Non-Cumulative Bonds of Rs. 1.50 crore each consisting of 12 STRPP's of Rs. 12.50 lakh each redeemable at par in 12 (twelve) equal annual installments w.e.f 24.07.2010	495.00	495.00
Secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambheti, Taluka Kaparada in district Valsad, Gujarat and floating charge on the assets of the Company.		



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 Power Grid Corporation of India Ltd.  
 Plot No. 2, Sector-29, Gurgaon-122001 (HARYANA)



Schedule 05 A - Secured Loans (Contd...)

Description	(Rupees in Crore)	
	As at 31st March, 2009	As at 31st March, 2008
<b>BONDS XX SERIES</b>		
8.93% Taxable, Secured, Redeemable, Non-Convertible, Non-Cumulative Bonds of Rs. 1.50 crore each consisting of 12 STRPP's of Rs. 12.50 lakh each redeemable at par in 12(twelve) equal annual installments w.e.f 07.09.2010 Secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambheti, Taluka Kaparada in district Valsad, Gujarat and floating charge on the assets of the Company.	1500.00	1500.00
<b>BONDS XXI SERIES</b>		
8.73% Taxable, Secured, Redeemable, Non-Convertible, Non-Cumulative Bonds of Rs. 1.50 crore each consisting of 12 STRPP's of Rs. 12.50 lakh each redeemable at par in 12 (Twelve) equal annual installments w.e.f. 11.10.2010 Secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambheti, Taluka Kaparada in district Valsad, Gujarat and floating charge on the assets of the Company.	510.00	510.00
<b>BONDS XXII SERIES</b>		
8.68% Taxable, Secured, Redeemable, Non-Convertible, Non-Cumulative Bonds of Rs. 1.50 crore each consisting of 12 STRPP's of Rs. 12.50 lakh each redeemable at par in 12(twelve) equal annual installments w.e.f 07.12.2010. Secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambheti, Taluka Kaparada in district Valsad, Gujarat and floating charge on the assets of the Company.	690.00	690.00
<b>BONDS XXIII SERIES</b>		
9.25% Taxable, Secured, Redeemable, Non-Convertible, Non-Cumulative Bonds of Rs. 1.50 crore each consisting of 12 STRPP's of Rs. 12.50 lakh each redeemable at par in 12(twelve) equal annual installments w.e.f 09.02.2011 Secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambheti, Taluka Kaparada in district Valsad, Gujarat and floating charge on the assets of the company.	307.50	307.50
<b>BONDS XXIV SERIES</b>		
9.95% Taxable, Secured, Redeemable, Non-Convertible, Non-Cumulative Bonds of Rs. 1.50 crore each consisting of 12 STRPP's of Rs. 12.50 lakh each redeemable at par in 12(twelve) equal annual installments w.e.f 26.03.2011 Secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambheti, Taluka Kaparada in district Valsad, Gujarat and floating charge on the assets of the Company.	799.50	799.50

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 Power Grid Corporation of India Ltd.  
 Plot No. 2, Sector-29, Gurgaon-122001 (HARYANA)



Schedule 05 A - Secured Loans (Contd...)

Description	(Rupees in Crore)	
	As at 31st March, 2009	As at 31st March, 2008
<b>BONDS XXV SERIES</b>		
10.10% Taxable, Secured, Redeemable, Non-Convertible, Non-Cumulative Bonds of Rs. 1.50 crore each consisting of 12 STRPP's of Rs. 12.50 lakh each redeemable at par in 12(twelve) equal annual installments w.e.f 12.06.2011  Secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambheti, Taluka Kaparada in district Valsad, Gujarat and floating charge on the assets of the Company.	1065.00	*
<b>BONDS XXVI SERIES</b>		
9.30% Taxable, Secured, Redeemable, Non-Convertible, Non-Cumulative Bonds of Rs. 1.50 crore each consisting of 12 STRPP's of Rs. 12.50 lakh each redeemable at par in 12(twelve) equal annual installments w.e.f 07.03.2012  Secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambheti, Taluka Kaparada in district Valsad, Gujarat and floating charge on the assets of the Company.	999.00	*
<b>BONDS XXVII SERIES</b>		
9.47% Taxable, Secured, Redeemable, Non-Convertible, Non-Cumulative Bonds of Rs. 1.50 crore each consisting of 12 STRPP's of Rs. 12.50 lakh each redeemable at par in 12(twelve) equal annual installments w.e.f 31.03.2012  Secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambheti, Taluka Kaparada in district Valsad, Gujarat and floating charge on the assets of the Company.	705.00	*
* Bonds XXV to XXVII series are included under Unsecured Loans in previous year		
<b>BONDS XXVIII SERIES</b>		
→ 9.33% Taxable, Secured, Redeemable, Non-Convertible, Non-Cumulative Bonds of Rs. 1.50 crore each consisting of 12 STRPP's of Rs. 12.50 lakh each redeemable at par in 12(twelve) equal annual installments w.e.f 15.12.2012  Secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambheti, Taluka Kaparada in district Valsad, Gujarat and floating charge on the assets of the Company.	2400.00	
	15112.07	10488.81

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*Handwritten Signature*  
 Authorised Signatory  
 Power Grid Corporation of India Ltd.  
 Plot No. 2, Sector-29, Gurgaon-122001 (HARYANA)





Schedule 05 A - Secured Loans (Contd...)

Description	(Rupees in Crore)	
	As at 31st March, 2009	As at 31st March, 2008
<b>Term Loans from Banks/ Financial Institutions</b>		
Secured by a floating charge on the fixed assets of the Company		
Indian Overseas Bank	40.00	50.00
Corporation Bank	45.00	55.00
Punjab National Bank-Loan-I	80.00	100.00
Punjab National Bank-Loan-II	175.00	200.00
Oriental Bank of Commerce	145.84	166.67
Life Insurance Corporation of India-II	439.95	514.12
Life Insurance Corporation of India-III	36.24	43.72
	962.03	1129.51
<b>ICICI Bank Ltd.</b>		
Secured by first pari passu charge over the assets of the Company	60.00	75.00
<b>Bank of India, Cayman Islands</b>	379.84	317.29
Secured by a Floating charge on the immovable properties of the company		
<b>Loan from Asian Development Bank , Philippines</b> (Guaranteed by Govt. of India)		
<b>ADB-I</b>	654.00	569.45
Secured by pari passu interest in the liens created on the assets as security for the debts.		
<b>ADB-II</b>	1168.13	948.76
Secured by pari passu interest in the liens created on the assets as security for the debts.		
<b>ADB-III</b>	1406.11	671.00
Secured by pari passu interest in the liens created on the assets as security for the debts.		
	3228.24	2189.21
<b>Loan from International Bank for Reconstruction and Development, USA</b> (Guaranteed by Govt. of India)		
<b>PSDP I</b>	515.12	502.23
Secured by equitable mortgage of immovable properties and hypothecation of movable properties of Vindhyachal and Rihand Transmission system.		
<b>PSDP-II</b>	2025.77	1660.15
Secured by pari passu interest in the liens created on the assets as security for the debts.		
<b>PSDP-III</b>	1867.42	1189.93
Secured by pari passu interest in the liens created on the assets as security for the debts.		
<b>PSDP-IV</b>	1137.76	
Secured by pari passu interest in the liens created on the assets as security for the debts.		
	5546.07	3352.31
<b>Total Secured Loans</b>		10176.18
Due for repayment/redemption within one year		7063.32
		17552.13
		1233.00
		994.44

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*[Signature]*  
 Authorised Signatory  
 Power Grid Corporation of India Ltd.  
 Plot No. 2, Sector-29, Gurgaon-122001 (HARYANA)



Schedule 05 B - Unsecured Loans

Description	(Rupees in Crore)	
	As at 31st March, 2009	As at 31st March, 2008
<b>LOANS THROUGH BONDS</b>		
<b>BONDS XXV SERIES</b>		
10.10% Taxable, Secured, Redeemable, Non-Convertible, Non-Cumulative Bonds of Rs. 1.50 crore each consisting of 12 STRPP's of Rs. 12.50 lakh each redeemable at par in 12 (twelve) equal annual installments w.e.f 12.06.2011	*	1065.00
To be secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambheti Taluka Kaparada in district Valsad Gujarat and floating charge on the assets of the company.		
<b>BONDS XXVI SERIES</b>		
9.30% Taxable, secured, Redeemable, Non-Convertible, Non-Cumulative Bonds of Rs. 1.50 crore each consisting of 12 STRPP's of Rs. 12.50 lakh each redeemable at par in 12 (twelve) equal annual installments w.e.f 07.03.2012	*	999.00
To be secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambheti Taluka Kaparada in district Valsad Gujarat and floating charge on the assets of the company.		
<b>BONDS XXVII SERIES</b>		
9.47% Taxable, Secured, Redeemable, Non-Convertible, Non-Cumulative Bonds of Rs. 1.50 crore each consisting of 12 STRPP's of Rs. 12.50 lakh each redeemable at par in 12 (twelve) equal annual installments w.e.f 31.03.2012	*	705.00
To be secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambheti Taluka Kaparada in district Valsad Gujarat and floating charge on the assets of the company.		
*Bonds XXV to XXVII series are included under Secured Loans in Current year		
<b>BONDS XXIX SERIES</b>		
9.20% Taxable, Secured, Redeemable, Non-Convertible, Non-Cumulative Bonds of Rs. 1.50 crore each consisting of 12 STRPP's of Rs. 12.50 lakh each redeemable at par in 12 (twelve) equal annual installments w.e.f 12.03.2013	1297.50	
To be secured by way of Registered Bond Trust Deed ranking pari passu on immovable property situated at Mouje Ambheti Taluka Kaparada in district Valsad Gujarat and floating charge on the assets of the company.		
	1297.50	2769.00

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*[Signature]*  
 Authorised Signatory  
 Power Grid Corporation of India Ltd.  
 Plot No. 2, Sector-29, Gurgaon-122001 (HARYANA)





Schedule 05 B - Unsecured Loans (Contd...)

Description	(Rupees in Crore)	
	As at 31st March, 2009	As at 31st March, 2008
Loans in Indian Currency		
Short Term Loans from Banks	750.00	750.00
Term Loans		
Power Finance Corporation Limited	<u>35.00</u>	<u>45.00</u>
	785.00	795.00
Loans in Foreign Currency		
From Foreign Banks & Financial Institutions		
Loans Guaranteed by Govt of India		
a. Natixis Banque (Formerly Credit National), France	137.00	134.51
b. Japan International Cooperation Agency (Formerly Japan Bank for International Cooperation), Japan	172.59	139.42
c. European Investment Bank, Luxembourg	<u>94.58</u>	<u>101.27</u>
	404.17	375.20
Others		
Kreditanstalt fur Wiederaufbau, Germany	558.40	610.94
Skandinaviska Enskilda Banken AB(publ), Sweden	<u>132.11</u>	<u>161.21</u>
	690.51	772.15
	<u>1094.68</u>	<u>1147.35</u>
	1094.68	1147.35
Total Unsecured Loans	<u>3177.18</u>	<u>4711.35</u>
Due for repayment/redemption within one year	935.35	918.48

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*Dainjay*  
 Authorised Signatory  
 Power Grid Corporation of India Ltd.  
 Plot No. 2, Sector-29, Gurgaon-122001 (HARYANA)





Calculation of Interest on Normative Loan

Name of the Transmission Licensee: POWERGRID CORPORATION OF INDIA LTD.  
 Name of Region: WESTERN REGION  
 Name of the Project: Eastern-Western inter-regional link  
 Name of the Transmission Element: Combined Assets of Eastern-Western Inter Regional Link(Anticipated APR-2011) National  
:DOCO :01-

Particulars	(Rs in Lacs)					
	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
1	2	3	4	5	6	7
Gross Normative Loan - Opening				47,104.24	48,169.06	48,560.84
Cumulative repayment of Normative Loan upto previous year				881.25	4,470.92	8,115.56
Net Normative loan - Opening				46,222.99	43,698.14	40,445.28
Increase/Decrease due to ACE during the Year				1,064.82	391.78	
Repayments of Normative Loan during the year				3,589.67	3,644.64	3,659.41
Net Normative loan - Closing				43,698.14	40,445.28	36,785.87
Average Normative Loan				44,960.56	42,071.71	38,615.58
Weighted average Rate of Interest on actual Loans				5.1773%	5.1116%	4.9924%
Interest on Normative loan				2,327.75	2,150.52	1,927.85

  
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Plot No. 2, Sector-29, Gurgaon-122001 (HARYANA)



Loans in Foreign Currency

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**  
 Name of Region: **WESTERN REGION**  
 Name of the Project: **Eastern-Western inter-regional link**  
 Name of the Transmission Element: **Combined Assets of Eastern-Western Inter Regional Link(Anticipated <sup>Notional</sup> APR-2011 :DOCO :01-**

Particulars	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
1	2	3	4	5	6	7
<b>IBRD IV (USD in LACs) EXCHANGE RATE : 45.69</b>						
Gross Loan Opening				207.47	207.47	207.47
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening				207.47	207.47	207.47
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						4.59
Net Loan Closing				207.47	207.47	202.88
Average Net Loan				207.47	207.47	205.17
Rate of Interest on Loan				1.72%	1.72%	1.72%
Interest on Loan				3.57	3.57	3.53
<b>IBRD IV ADDL (USD in LACs) EXCHANGE RATE : 45.69</b>						
Gross Loan Opening				26.74	26.74	26.74
Cumulative Repayments of Loans upto Previous Year						0.45
Net Loans Opening				26.74	26.74	26.29
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year					0.45	0.91
Net Loan Closing				26.74	26.29	25.38
Average Net Loan				26.74	26.51	25.83
Rate of Interest on Loan				1.96%	1.96%	1.96%
Interest on Loan				0.52	0.52	0.51
<b>IBRD IV (USD in LACs) EXCHANGE RATE : 46.26</b>						
Gross Loan Opening				136.28	136.28	136.28
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening				136.28	136.28	136.28
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						3.02
Net Loan Closing				136.28	136.28	133.26
Average Net Loan				136.28	136.28	134.77
Rate of Interest on Loan				1.72%	1.72%	1.72%
Interest on Loan				2.34	2.34	2.32
<b>IBRD IV (USD in LACs) EXCHANGE RATE : 45.29</b>						
Gross Loan Opening				166.08	166.08	166.08
Cumulative Repayments of Loans upto Previous Year						
Net Loans Opening				166.08	166.08	166.08
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year						3.68
Net Loan Closing				166.08	166.08	162.40
Average Net Loan				166.08	166.08	164.24
Rate of Interest on Loan				1.72%	1.72%	1.72%
Interest on Loan				2.86	2.86	2.82
<b>IBRD IV ADDL (USD in LACs) EXCHANGE RATE : 45.29</b>						
Gross Loan Opening				6.05	6.05	6.05
Cumulative Repayments of Loans upto Previous Year						0.10
Net Loans Opening				6.05	6.05	5.95
Add : Drawal(s) during the year						
Less : Repayments(s) of Loans during the year					0.10	0.21
Net Loan Closing				6.05	5.95	5.74
Average Net Loan				6.05	6.00	5.84
Rate of Interest on Loan				1.96%	1.96%	1.96%
Interest on Loan				0.12	0.12	0.11





INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT  
STATEMENT OF ACCOUNT

As of 31-DEC-2010  
Loan No. 48900 Country India Product SCL

IV

Borrower of Record	POWER GRID CORPORATION OF INDIA LIMITED	Currency of Commitment	USD
Guarantor	CONTROLLER OF AID ACCOUNTS & AUDIT	Original Principal	600,000,000.00
Commitment Rate	0.000000	Cancellations	0.00
Current Interest Rate	0.520000	Disbursed	485,887,364.64
Maturity Dates	15-Nov-2013 , 15-May-2028	Recalled/Prepaid	0.00
Payment Dates	15-May , 15-Nov	Unwithdrawn Balance	114,112,635.36

Subloan : 001

SL/Tr	Ccy	Disbursed	Recalled/Prepaid	Outstanding	Current USD Eq.	Rate	Fix/Var
001	USD	485,887,364.64	0.00	485,887,364.64	485,887,364.64	0.520000	V
		485,887,364.64	0.00	485,887,364.64	485,887,364.64		

+ 1.20 Quisfe  
→ 1.72

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*[Signature]*  
Authorized Signatory  
Power Grid Corporation of India Ltd.  
Plot No. 2, Sector-29, Gurgaon-122001 (HARYANA)





ADD L

**INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT  
STATEMENT OF ACCOUNT**

As of 31-DEC-2010

Loan No. 75930 Country India Product FSL

Borrower of Record	POWER GRID CORPORATION OF INDIA LIMITED	Currency of Commitment	USD
Guarantor	CONTROLLER OF AID ACCOUNTS & AUDIT	Original Principal	400,000,000.00
Commitment Rate	0.000000	Cancellations	0.00
Current Interest Rate	0.760000	Disbursed	249,632,788.05
Maturity Dates	01-Feb-2013 , 01-Aug-2038	Recalled/Prepaid	0.00
Payment Dates	01-Feb , 01-Aug	Unwithdrawn Balance	150,367,211.95

**Subloan : 001**

SL/Tr	Ccy	Disbursed	Recalled/Prepaid	Outstanding	Current USD Eq.	Rate	Fix/Var
	USD	249,632,788.05	0.00	249,632,788.05	249,632,788.05	0.760000	v
		<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
		249,632,788.05	0.00	249,632,788.05	249,632,788.05		

71.20

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*[Signature]*

Authorised Signatory  
Power Grid Corporation of India Ltd.  
Plot No. 2, Sector-29, Gurgaon-122001 (HARYANA)



Calculation of Interest on Working Capital

Name of the Transmission Licensee:

POWERGRID CORPORATION OF INDIA LTD.

Name of Region:

WESTERN REGION

Name of the Project:

Eastern-Western inter-regional link

*National*

Name of the Transmission Element:

Combined Assets of Eastern-Western Inter Regional Link(Anticipated 1:DOCO :01-APR-2011

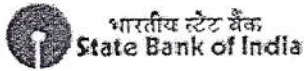
(Rs in Lacs)

Sl. No.	Particulars	Existing 2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014
1	2	3	4	5	6	7	8
1	O and M Expenses				101.93	107.75	113.90
2	Maintenance Spares				183.47	193.95	205.01
3	Receivables				1,830.75	1,831.49	1,811.51
4	Total Working Capital				2,116.15	2,133.19	2,130.42
5	Rate of Interest			13.00	13.00*	13.00	13.00
6	Interest on Working Capital				275.10	277.31	276.95

\* SBI PLR at on 14-02-11

*[Signature]*  
Petitioner





## INTEREST RATES

**State Bank of India** provides information on the various Interest rates offered by it on various loans and deposit schemes.

Details of Up-to-date interest rates scheme-wise is given in the sections one could click on to.

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Call **1800112211** (tollfree from BSNL/MTNL)

or

New Contact Centre Access Numbers.

•	Domestic deposits (below Rs one crore) interest rates revised w.e.f. <b>14.02.2011.</b>
•	Domestic deposits (Rs one crore & above) interest rates revised w.e.f. <b>07.12.2010.</b>
•	BPLR (State Bank Advance Rate) revised upwards by 25 bps from 12.75% p.a. to 13.00% p.a. w.e.f <b>14.02.2011.</b>
•	Base Rate revised upwards by 25 bps from 8.00% p.a. to 8.25% p.a. w.e.f <b>14.02.2011</b>

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 Power Grid Corporation of India Ltd.  
 Plot No. 2, Sector-29, Gurgaon-122001 (HARYANA)



Draw Down Schedule for Calculation of IDC & Financing Charges

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**  
 Name of Region: **WESTERN REGION**  
 Name of the Project: **Eastern-Western inter-regional link**  
 Name of the Transmission Element: **Combined Assets of Eastern-Western Inter Regional Link(Anticipated APR-2011)** Notional  
:DOCO :01-

(Rs in Lacs)

Draw Down Schedule for Calculation of IDC & Financing Charges										
Sl.No	Drawn Down	Quarter 1			Quarter 2			Quarter n(COD)		
Sl.No	Particulars	Quantum In Foreign Currency	Exchange Rate on Draw Down Date	Amount In Indian Rupee	Quantum In Foreign Currency	Exchange Rate on Draw Down Date	Amount In Indian Rupee	Quantum In Foreign Currency	Exchange Rate on Draw Down Date	Amount In Indian Rupee
<b>1.</b>	<b>Loans</b>									
<b>1.1</b>	<b>Foreign Loans</b>									
<b>1.2</b>	<b>Indian Loans</b>									
<b>1.2.1</b>	<b>IBRD IV</b>									
	Draw Down Amount									9479.30
	IDC									
	Financing Charges									
<b>1.2.2</b>	<b>IBRD IV</b>									
	Draw Down Amount									6304.31
	IDC									
	Financing Charges									
<b>1.2.3</b>	<b>IBRD IV</b>									
	Draw Down Amount									7521.76
	IDC									
	Financing Charges									
<b>1.2.4</b>	<b>IBRD IV ADDL</b>									
	Draw Down Amount									1221.75
	IDC									
	Financing Charges									
<b>1.2.5</b>	<b>IBRD IV ADDL</b>									
	Draw Down Amount									274.00
	IDC									
	Financing Charges									
	Total Foreign Loans									
	Draw Down Amount									24801.14
	IDC									0.00
	Financing Charges									0.00
<b>1.2</b>	<b>Indian Loans</b>									
<b>1.2.1</b>	<b>BOND XXVIII</b>									
	Draw Down Amount									7983.00
	IDC									
	Financing Charges									
<b>1.2.2</b>	<b>BOND XXVIII</b>									
	Draw Down Amount									4867.00
	IDC									
	Financing Charges									
<b>1.2.3</b>	<b>BONDS XXIX</b>									
	Draw Down Amount									2922.00
	IDC									
	Financing Charges									
<b>1.2.4</b>	<b>BONDS XXIX</b>									
	Draw Down Amount									1781.00
	IDC									
	Financing Charges									
<b>1.2.5</b>	<b>BONDS XXX</b>									
	Draw Down Amount									101.00
	IDC									
	Financing Charges									
<b>1.2.6</b>	<b>BONDS XXX</b>									
	Draw Down Amount									215.00
	IDC									
	Financing Charges									
<b>1.2.7</b>	<b>BOND-XXXIV</b>									



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Draw Down Schedule for Calculation of IDC & Financing Charges

Name of the Transmission Licensee: **POWERGRID CORPORATION OF INDIA LTD.**  
 Name of Region: **WESTERN REGION**  
 Name of the Project: **Eastern-Western inter-regional link**  
 Name of the Transmission Element: **Combined Assets of Eastern-Western Inter Regional Link(Anticipated APR-2011)** Notional  
:DOCO :01-

(Rs in Lacs)

Draw Down Schedule for Calculation of IDC & Financing Charges										
Sl.No	Drawn Down	Quarter 1			Quarter 2			Quarter n(COD)		
Sl.No.	Particulars	Quantum In Foreign Currency	Exchange Rate on Draw Down Date	Amount In Indian Rupee	Quantum In Foreign Currency	Exchange Rate on Draw Down Date	Amount In Indian Rupee	Quantum In Foreign Currency	Exchange Rate on Draw Down Date	Amount In Indian Rupee
	Draw Down Amount									3265.52
	IDC									
	Financing Charges									
	<b>Total Indian Loans</b>									
	Draw Down Amount									21134.52
	IDC									0.00
	Financing Charges									0.00
	<b>Total of Loans Drawn</b>									
	Draw Down Amount									45935.66
	IDC									4493.58
	Financing Charges									0.00
2	<b>Equity</b>									
2.1	Foreign Equity Drawn									
2.2	Indian Equity Drawn									0
	<b>Total Equity Deployed</b>									0.00

The project has been funded through domestic loans and foreign loans allocated from the common pool based on the phasing of expenditure and IDC has been booked accordingly. As the loans are allocated from common pool, quarter wise drawl is not furnished.

  
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Encl.-9

Calculation for apportioned tariff for period 2011-2012

Asset	Exp. Upto (Notional anticipated) DOCO 01.04.2011	Ratio=cost of line component of Asset-III/cost of Combined Asset I+II+III	Transmission tariff(lakhs) from 01.04.2011 to 31.03.2012	Transmission tariff(lakhs)2011-12(for 1 month)	Transmission tariff from 01.05.2011 to 30.03.2012	Transmission tariff from 01.04.2011 to 30.04.2011
Asset-III	27252.92					
*Asset-III(400 kV D/C Rourkela-Raigarh TL along with associated bays excluding FSC )	23925.30	<b>0.3555</b>	3905.50	325.46		
Combined Asset-I+II+III	67291.77		10984.52	915.38	10659.06	589.92

\* Worked out as the basis of cost of FSC as on 01.04.2011(anticipated DOCO) as RS. 3327.62 lakhs.

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## INDEX

CHECK LIST  
PART-III

Name of the Company

Power Grid Corporation of India Ltd.

Name of the Project :

Eastern-Western inter-regional link

Name of the Transmission Element:

Asset-I : 400kV D/C Raigarh-Raipur TL alongwith associated bays, Asset-II: 400kV D/C Ranchi-Rourkela TL alongwith associated bays and Asset-III: 400 kV D/C Rourkela-Raigarh TL along with associated bays and 40% Fixed Series Compensation (FSC) along with 5-15% Thyristor Controlled Series Capacitor(TCSC) on both the circuits of Raigarh – Raipur 400kV D/C line at Raipur end

Name of Region:

Western Region

Checklist of Forms and other information/ documents for tariff filing for Transmission System

Form No.	Tariff Filing Formats (Transmission)	Tick
FORM- 1	Summary Sheet	Yes
FORM-1A	Calculation of Return on Equity	Yes
FORM-2	Details of Transmission Lines and Substations	Yes
FORM-3	Normative Parameters considered for tariff calculations	Yes
FORM- 4	Details of Foreign loans	Not applicable and hence not enclosed
FORM-4A	Details of Foreign Equity	Not applicable and hence not enclosed
FORM-5	Abstract of Admitted Cost for the existing Projects	Not applicable and hence not enclosed
FORM-5A	Abstract of Project Cost Estimates and Schedule of Commissioning for the new Projects	Yes
FORM-5B	Element wise Break-up of Project Cost for Transmission System	Yes
FORM-5C	Break-up of Construction/Supply/Service packages	Yes
FORM-5D	Details of elementwise cost	Yes
FORM-6	Financial Package upto COD	Yes
FORM- 7	Details of Project Specific Loans	Not applicable and hence not enclosed
FORM- 8	Details of Allocation of corporate loans to various transmission elements	Not applicable and hence not enclosed
FORM-9	Statement of Additional Capitalisation after COD	Yes
FORM-9A	Statement of capital cost	Yes
FORM- 10	Financing of Additional Capitalisation	Yes
FORM- 11	Calculation of Depreciation Rate	Yes
FORM- 12	Statement of Depreciation	Yes
FORM- 13	Calculation of Weighted Average Rate of Interest on Actual Loans	Yes
FORM- 13A	Calculation of Interest on Normative Loans	Yes
FORM-13I	Loans in Foreign Currency	Yes
FORM-13B	Calculation of Interest on Working Capital	Yes
FORM- 14	Draw down Schedule for Calculation of IDC & Financing Charges	Yes
FORM-14A	Actual Cash Expenditure	Not applicable and hence not enclosed

Other Information/ Documents		Tick
Sl. No.	Information/Document	
1	Certificate of incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association ( For New Station setup by a company making tariff application for the first time to CERC)	- Not Applicable -
2	Regionwise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures for the new Transmission System & for the relevant years.	Audit of Accounts for FY 2010-11 shall be submitted soon after audit
3	Copies of relevant loan Agreements	--
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package.	--
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	Equity contribution by GOI (69.42%) and others(30.58%)
6	Copies of the BPTA/TSA with the beneficiaries, if any	--
7	Detailed note giving reasons of time and cost over run, if applicable.	--
8	Any other relevant information. (Please specify)	--

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