

# Formats

**INDEX OF FORMATS**

*Formats for Transmission*

S.No.	Format No.	Description
1	Form 1	Aggregate Revenue Requirement
2	Form 2	Return on Equity
3	Form: 2.2	Details of Additional RoE
4	Form 3	Details of Transmission Lines and Sub-Stations
5	Form 4	Transmission Losses
6	Form 5	Transmission Availability Factor
7	Form 6	Income from investments, Non-tariff income and Other Business
8	Form 7	Open Access related charges
9	Form 8	Operations and Maintenance Expenses
10	Form 8.1	Employee Expenses
11	Form 8.2	Repair & Maintenance Expenditure
12	Form 8.3	Administration & General Expenses
13	Form 9.1	Statement of Total Gross Fixed Asset
14	Form 9.2	Deposit works and grants/subsidies towards cost of capital assets
15	Form 9.3	Statement of GFA funded through Deposit Works/Capital Subsidy/Grant
16	Form 9.4	Statement of GFA excluding Assets funded through Deposit Works/Capital Subsidy/Grant
17	Form: 9.5	Element wise Break-up of Project/Asset/Element Cost for Transmission System or Communication System
18	Form: 9.6	Break-up of Construction/Supply/Service Packages
19	Form: 9.7	Details of elementwise cost of the project
20	Form: 9.8	Statement of Additional Capitalisation after COD
21	Form: 9.9	Financing of Additional Capitalisation
22	Form: 9.A	Incidental Expenditure during Construction
23	Form: 9.B	Statement of De-capitalisation
24	Form 10.1	Statement of Asset wise Depreciation
25	Form: 10.2	Statement of Depreciation
26	Form: 11.1	Statement of Capital Expenditure
27	Form: 11.2	Statement of Capital Works-in-Progress
28	Form: 11.3	Statement of Capital Expenditure & Schedule of Completion of New Schemes
29	Form: 11.4	Break-up of Scheme-wise Capital Expenditure for New Schemes
30	Form: 12	Draw Down Schedule for Calculation of IDC & Financing Charges
31	Form: 13	Details of Capital Cost and Financing Structure
32	Form: 14	Details of Financial Packages
33	Form: 14.1	Financial Package upto COD
34	Form: 15.1	Statement of Outstanding Loans
35	Form: 15.2	Calculation of Weighted Average Interest Rate of Interest on Actual Loans *
36	Form: 15.3	Calculation of Interest on Normative Loan
37	Form 16	Interest and Finance Charges
38	Form 17	Details of Interest on Working Capital
39	Form 18	Investment Plan
40	Form 19	Investment Plan
41	Form 20	Summary of Truing Up
42	Form 21.1	Shunt Capacitor Addition / Repair Program
43	Form 21.2	Electrical Accidents
44	Form 21.3	Failure of Transformers

**Form 1****Aggregate Revenue Requirement**

(Figures in Rs Crore)

S.No.	Particulars	Reference Form	Previous Year (n-1)	Current Year (n)			Ensuing Year (n+1)
			(Actuals/Audited)	Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)	Projected
<b>A.</b>	<b>Energy</b>						
1	Energy Available (MU)	Form 4	13973	5383	9990	15373	16910
2	Energy Transmitted (MU)	Form 4	13734	5305	9822	15127	16639
3	Transmission Loss %	Form 4	1.71%	1.44%	1.69%	1.60%	1.60%
<b>B</b>	<b>Revenue</b>						
1	Revenue from Tariffs	Form 20	295.30				
	<b>Total Revenue</b>		<b>295.30</b>				
<b>C</b>	<b>Expenditure</b>						
1	Net O&M expenses	Form 20	96.32			140.37	159.76
2	Interest charges	Form 20	59.33			54.50	79.64
3	Guarantee Fees	Form 20	0.00			#REF!	#REF!
4	Depreciation	Form 20	77.60			60.92	82.51
2	Interest on Working Capital	Form 20	11.61			11.02	15.42
3	Reasonable Return	Form 20	29.44			38.66	57.68
4	Income Tax	Form 20	26.44				
5	Add : Gain/loss (on account of controllable items) of license	Form 20	16.82				
3	Gross Expenditure	Form 20	317.56			305.47	395.01
4	Less: Non-Tariff Income	Form 20	6.11			6.42	6.74
5	Net Expenditure	Form 20	311.45			299.05	388.27
6	Add : True up of previous years including carrying cost	Form 20	40.71			-6.52	66.45
4	Less: SLDC related expense	Form 20	9.12			14.35	19.81
	Add: Impact of revised year wise capitalisation of REC II S	Form 20				-4.16	
<b>D</b>	<b>Aggregate Revenue Requirement</b>	Form 20	<b>343.03</b>			<b>274.02</b>	<b>434.91</b>
<b>H</b>	<b>Surplus(+) / Shortfall(-) (B)-(D)</b>		<b>-47.73</b>				
<b>F</b>	<b>Capacity of Transmission System (in MW)</b>						

Name of Transmission Licensee

Power Transmission Corporation of Uttarakhand Limited

**Form 2**

**Return on Equity**

(Figures in Rs Crore)

S.No.	Item	Previous Year (n-1)	Current Year (n)			Ensuing Year (n+1)
		(Actuals / Audited)	Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)	Projected
1	Equity at the beginning of the year	179.17			200.69	298.18
2	Capitalisation during the year	76.43			324.98	524.82
3	Equity portion of capitalisation	<b>21.52</b>			97.49	147.94
4	Equity at the end of the year	200.69			298.18	446.12
	<b>Return Computation</b>					
5	<b>Return on Equity on average of opening and closing balance of equity</b>	<b>29.44</b>			<b>38.66</b>	<b>57.68</b>

Petitioner

Name of Transmission Licensee

Power Transmission Corporation of Uttarakhand Limited

**Form: 2.2**

**Details of Additional RoE**

(Figures in Rs Crore)

Project/ Element	Completion Time as per Investment approval			Actual Completion time			Qualifying time schedule(as per regulation) (in months)
	Start Date	Scheduled COD (Date)	Months	Start Date	Actual COD (Date)	Months	

N/A

**Petitioner**

Name of Transmission Licensee Power Transmission Corporation of Uttarakhand Limited

### Form 3

#### Details of Transmission Lines and Sub-Station

#### Transmission Lines

(Figures in Rs Crore)

S No.	Name of Line	Type of Line AC/ HVDC	S/C or D/C	No. of Sub-conductor	Voltage Level kV	Line Length Ckt Kms	Date of Commercial Operation	Covered in the Present Petition	
								Yes / No	If No, Petition No. and Year
1	400 KV Rishikesh - Moradabad Line	AC	S.C.	Moose	400KV	157.00	1983	yes	
2	400 KV Rishikesh -Puhana PGCIL Muzaffarnagar	AC	S.C.	Moose	400KV	112.49	31.3.1984	yes	
3	LILO of Rishikesh-Moradabad line at 400 KV S/S Kashipur (Near Dhampur)	AC	D/C	ACSR Moose	400KV	119.00	11/11/2006	yes	
4	220 KV Rishikesh-Chamba	AC	S.C.	ACSR Zebra	220KV	40.50	31.3.1983	yes	
5	220 KV Chamba-Dharasu	AC	S.C.	ACSR Zebra	220KV	38.56	31.3.1983	yes	
6	220 KV Chhibro- Khodri I Ckt.	AC	S.C.	Deer	220KV	5.77	1973	yes	
7	220 KV Chhibro- Khodri II Ckt.	AC	S.C.	Deer	220KV	8.60	1975	yes	
8	220 KV Khodri-Rishikesh	AC	S.C.	Deer	220KV	79.63	Mar-76	yes	
9	220 KV Dharasu-Uttarkashi-I	AC	S.C.	ACSR Zebra	220KV	25.00	22.3.1986	yes	
10	220 KV Dharasu-Uttarkashi-II	AC	S.C.	ACSR Zebra	220KV	24.70	22.3.1986	yes	
11	220 KV Rishikesh- Dharasu-I	AC	S.C.	ACSR Zebra	220KV	79.96	22.3.1986	yes	
12	220 KV Rishikesh-SIDCUL	AC	S.C.	ACSR-Deer	220KV	24.53	17.9.1979	yes	
13	(Haridwar)	AC		ACSR-Deer					yes
14	220 KV Haridwar-Puhana	AC	S.C.	ACSR-Deer	220 KV	23.31		yes	
15	220 KV Puhana-Roorkee	AC	S.C.	ACSR-Deer	220 KV	16.00		yes	
16	220 KV Pantnagar - Baikunthapur	AC	S.C.	ACSR Zebra	220KV	70.72	26/07/2002	yes	
17	220KV Pantnagar - Kamalwaganja	AC	S.C.	ACSR Zebra	220KV	37.32	26/07/2002	yes	
18	220 KV Railway Traction (2 Phase)	AC	S.C.	ACSR Zebra	220 KV	4.80	15/07/2005	yes	
19	LILO OF 220 KV Rishikesh - Muzaffarnagar line at 220 KV S/s Roorkee	AC	D.C.		220 KV	0.10	11/2/2005	yes	
20	220 KV Rishikesh-Dharasu- II	AC	S.C.	ACSR Zebra	220KV	80.40	23.4.2009	yes	
21	220 KV Chamba-Ghansali	AC	S.C.	ACSR Zebra	220KV	35.79	30.9.2009	yes	
22	220KV Kashipur - Berhani line	AC	D.C.	ACSR Zebra	220KV	53.60	1/1/2011	yes	
23	220 KV Ghansali-Bhilangana line	AC	D.C.	ACSR Zebra	220 KV	39.00	21.10.2011	yes	
24	LILO of 220 KV Roshnabad - Roorkee line at 400 KV S/s Puhana	AC	D.C.	ACSR Panther	220 KV	10.00	24.11.2010	yes	

25	220 KV Berhani - Pantnagar line	AC	D.C.	ACSR Zebra	220 KV	71.06	01.01.2011/ Jan 2013	yes		
26	132 KV Roorkee-Saharanpur	AC	S.C.	ACSR-Panther	132KV	30.72	1958	yes		
27	132 KV Roorkee-Manglore	AC	S.C.	ACSR-Wolf	132KV	13.89	1959	yes		
28	132 KV Roorkee-Laksar	AC	S.C.	ACSR-Wolf	132KV	26.50	1959	yes		
29	132 KV Roorkee-SIDCUL(Haridwar)	AC	S.C.	ACSR-Panther	132KV	31.15	17.9.1979	yes		
30	132 KV Roorkee-Jwalapur	AC	S.C.	ACSR-Panther	132KV	26.57	7.12.1978	yes		
31	132 KV Jwalapur-Chilla	AC	D.C.	ACSR-Panther	132KV	16.89	12.08.1973	yes		
32	132 KV Jwalapur-Rishikesh	AC	S.C.	ACSR-Panther	132KV	22.97	9.1.1979	yes		
33	132 KV Chilla-Nazibabad	AC	S.C.	ACSR-Panther	132KV	53.13	16.6.1995	yes		
34	132 KV Najibabad-Kotdwar	AC	S.C.	ACSR-Panther	132KV	23.78	16.6.1995	yes		
35	132 KV Rishikesh-Bindal	AC	S.C.	ACSR-Panther	132KV	44.73	31.3.1983	yes		
36	132 KV Rishikesh-Majra	AC	S.C.	ACSR-Panther	132KV	41.14	22.8.1966	yes		
37	132 KV Majra-Kulhal-I	AC	S.C.	ACSR-Panther	132KV	41.77	31.3.1983	yes		
38	132 KV Majra-Kulhal-II	AC	S.C.	ACSR-Panther	132KV	44.29	16.4.1976	yes		
39	132 KV Majra-Purkul	AC	S.C.	ACSR-Panther	132KV	22.77	27.3.1983	yes		
40	132 KV Dhalipur-Dhakrani	AC	S.C.	ACSR-Panther	132KV	6.60	1966	yes		
41	132 KV Khodri-Dhakrani	AC	S.C.	ACSR-Panther	132KV	22.77	Apr-72	yes		
42	132 KV Dhalipur-Kulhal	AC	S.C.	ACSR-Panther	132KV	44.61	Apr-72	yes		
43	132 KV Dhalipur-Purkul	AC	S.C.	ACSR-Panther	132KV	13.96	3.3.1984	yes		
44	132 KV Bindal-Majra	AC	D.C.	ACSR-Panther	132KV	8.54	31.3.1992	yes		
45	132 KV Rishikesh-Srinagar	AC	S.C.	ACSR-Panther	132KV	78.00	30.6.1980	yes		
46	132KV Ramnagar - Kalagarh	AC	S/C	ACSR Panther	132KV	69.40	21/09/1978	yes		
47	132KV Jaspur - Kalagarh	AC	S/C	ACSR Panther	132KV	32.74	21/09/1978	yes		
48	132KV Kashipur - Bazpur	AC	S/C	ACSR Panther	132KV	15.62	31/12/1988	yes		
49	132KV Kichha - Richha	AC	S/C	ACSR Panther	132KV	7.6	30/03/1993	yes		
50	132 Kv Kichha - CPP	AC	S/C	ACSR Panther	132KV	18.57	30/03/1993	yes		
51	132 Kv Haldwani - Bhowali	AC	S/C	ACSR Panther	132KV	14.06	1/12/1978	yes		
52	132 Kv Bhowali - Almora	AC	S/C	ACSR Panther	132KV	31.04	17/11/1979	yes		
53	66 KV Roorkee-Pathri-I	AC	S.C.	ACSR-Dog	66KV	20.68	1956	yes		
54	66 KV Roorkee-Pathri-II	AC	S.C.	ACSR-Dog	66KV	20.68	1956	yes		
55	132 KV Laksar-Nehtaur line	AC	S.C.	ACSR Panther	132 KV	53.5		yes		
56	220KV Pantnagar - 132 KV Haldwani	AC	S/C	ACSR Panther	132 KV	39.8		yes		
57	132 KV Kashipur - Thakurdwara line	AC	S/C	ACSR Panther	132 KV	14.3	-	yes		
58	132 KV Jwalapur-Bhupatwala	AC	S.C.	ACSR-Panther	132KV	10.27	2.12.2003	yes		
59	132 KV Chilla-BPT - Rishikesh	AC	S.C.	ACSR-Panther	132KV	53.13	2.12.2003	yes		
60	132 Kv Almora - Pithoragarh	AC	S/C	ACSR Panther	132KV	76.4	6/2/2003	yes		
61	132 Kv Kamaluaganja - Bazpur	AC	S/C	ACSR Panther	132KV	44.24	26/07/2003	yes		
62	132 Kv Kamaluaganja - Haldwani	AC	S/C on D/C Tower	ACSR Panther	132KV	8.4	26/07/2003	yes		
63	132 KV Kashipur (400 KV S/s) - Ramnagar	AC	S/C	ACSR Panther	132KV	20	7/9/2005	yes		
64	132KV Kichha-Sitarganj	AC	S/C on D/C Tower	ACSR Panther	132KV	32.15	1/7/2006	yes		
65	132 Kv Almora - Ranikhet	AC	S/C	ACSR Panther	132KV	22.66	2/12/2006	yes		
66	132KV Pantnagar - Rudrapur	AC	S/C	ACSR Panther	132KV	7.6	5/8/2006	yes		
67	132 KV Kashipur (400 KV S/s) - Jaspur	AC	S/C	ACSR Panther	132KV	20	24/12/2006	yes		
68	132 Kv Kichha - Rudrapur	AC	S/C	ACSR Panther	132KV	20.31	5/8/2006	yes		

69	132 KV Manglore-AIS-I	AC	S.C.	ACSR-Panther	132KV	7	27.10.06	yes		
70	132 KV Manglore-AIS-II	AC	S.C.	ACSR-Panther	132KV	7	27.11.06	yes		
71	132 KV Kashipur (400 KV S/s) - Kashipur 132 KV S/s) 1st	AC	S/C	ACSR Panther	132KV	5.5	13/01/2006	yes		
72	132 KV Kashipur (400 KV S/s) - Kashipur (132 KV S/s) IInd	AC	S/C	ACSR Panther	132KV	6.05	13/01/2006	yes		
73	132 KV Roorkee-Bhagwanpur	AC	S.C.	ACSR-Panther	132KV	20.14	24/05/2006	yes		
74	132 KV Bhagwanpur-Saharanpur	AC	S.C.	ACSR-Panther	132 KV	26.62	24/05/2006	yes		
75	132 KV Manglore - Nehtaur	AC	S.C.	ACSR-Panther	132 KV	73.73	26/10/2006	yes		
76	132 KV Jwalapur - SIDCUL (Haridwar)	AC	S.C.	ACSR-Panther	132KV	0.12	5/6/2007	yes		
77	132KV Khatima- Sitarganj	AC	D/C	ACSR Wolf	132KV	24.3	1/7/2007	yes		
78	132KV Kashipur- IGL	AC	S/C	ACSR Panther	132KV	2.39	21/07/2007	yes		
79	132KV Kashipur- KVS	AC	S/C	ACSR Panther	132KV	1.03	21/07/2007	yes		
80	132 Kv Sitarganj - Dohna	AC	S/C	ACSR Panther	132 KV	105.5	25/08/2007	yes		
81	132 KV Laksar-RBNS Sugar Mill	AC	S.C.	ACSR-Panther	132KV	4.2	1.4.2008	yes		
82	132 Kv Sitarganj - PGCIL (220 KV S/s)	AC	S/C	ACSR Panther	132 KV	0.05	2/3/2009	yes		
83	132 KV Kotdwar-Satpuli	AC	S.C. on D.C.	ACSR-Panther	132KV	46.7	28.01.2010	yes		
84	132 KV Kashipur (400 KV S/s) - Bazpur	AC	S/C on D/C Tower	ACSR Panther	132KV	15.62	10-Feb	yes		
85	LILO of Rishikesh - Srinagar line at 132 KV S/s Srinagar	AC	D/C	ACSR Panther	132 KV	3.286	Dec. 2011	yes		
86	132 KV Second Circuit Sitarganj - Kichcha line	AC	S/C	ACSR Panther	132 KV	32.15	17.01.2011	yes		
87	LILO of 132 KV Kashipur (Old) - Thakurdwara line at 220 KV S/s Mahuakheraganj	AC	D/C	ACSR Panther	132 KV	13.018	24.11.11	yes		
88	LILO of 132 KV Roorkee - Nehtaur line at 132 KV S/s Laksar	AC	D/C	ACSR Panther	132 KV	6	16.07.2007	yes		
89	LILO OF SITARGANJ -KICCHA LINE	AC	D/C	ACSR Panther	132 KV		09.10.2012	yes		
90	LILO 132 Kashipur-Moradabad at 220 Mahuakheraganj	AC	D/C	ACSR Panther	132 KV	6.509	03.07.2012	yes		
91	132kV Satpuli- Sringar	AC	D/C	ACSR Panther	132 KV	104.8	25.02.2013	yes		
92	LILO of 220kV Khodri- Rishikesh line at S/s Dehradun	AC	D/C	ACSR Zebra	220 KV	5.03	30.01.2014	yes		
93	220 KV D/C Line from 400 KV S/s Kashipur to 220 KV S/s Mahuakheraganj	AC	D/C	ACSR Zebra	220 KV	33.46	10-05-14	yes		
94	LILO of 132 KV Majra-Rishikesh line at 132 KV S/S Laltappar	AC	D/C	ACSR Panther	132 KV	3	13.02.15	yes		
95	LILO of 132 KV Kulhal-Majra Line at 220 KV S/s Dehradun	AC	D/C	ACSR Panther	132 KV	2	29.07.15	yes		
96	132 KV LILO line at 132 KV S/s Chu	AC	D/C	ACSR Panther	132 KV	1	15.12.2015	yes		
97	132 KV D/C Srinagar-Simli Line	AC	A/C	ACSR Panther	132 KV	64.5	24.04.2016	yes		
<b>Sub-Stations</b>										
		<b>Type of Sub-Station</b>	<b>Voltage</b>	<b>No. of Transformer</b>		<b>No. of Bays</b>	<b>Date of Commissioning</b>	<b>Covered in the Present Petition</b>		

S No.	Name of Sub-Station	Conventional/GIS/ HVDC terminal/ HVDC back to	Voltage Level kV	s/Reactors/SVC, etc. (with capacity)	400 kV	220 kV	132 kV & below	Date of Commercial Operation	Yes / No	If No, Petition No. and Year
1	400 KV S/S Rishikesh	Conventional	400/220 KV	1x315+1x 240				16.12.1983	Yes	
2	400 KV S/S Kashipur	Conventional	400/220 KV	2x315				11.11.2006	Yes	
3	220 KV S/S Rishikesh	Conventional	220/132 KV	2x160				12.12.1974	Yes	
4	220 KV S/S Chamba	Conventional	220/33 KV	2x25				23.9.1980	Yes	
5	220 KV S/S Haldwani	Conventional	220/132 KV	1 x 200				26.07.2002	Yes	
6	220 KV S/S Roorkee	Conventional	220/132 KV	2x 160				10.6.2005	Yes	
7	220 KV S/S Pantnagar	Conventional	220/132 KV	2x160				09.07.2005	Yes	
8	220 KV S/S SIDCUL, Haridwar	Conventional	220/132 KV	2x60				19.6.2006	Yes	
9	220 KV S/S Mahuakheraganj	Conventional	220/132 KV	2 x 100				24.11.2011	Yes	
10	220 KV S/S Dehradun	Conventional	220/132 KV	2 x 160				30.01.2014	Yes	
11	132 KV S/S Rishikesh	Conventional	132/33 KV	1x 12.5				16.8.1966	Yes	
12	132 KV S/S Roorkee	Conventional	132/33 KV	3x40				1956	Yes	
13	132 KV S/S Roorkee	Conventional	132/66 KV	2x20				1956	Yes	
14	132 KV S/S Jwalapur	Conventional	132/33 KV	2x40				12.8.1973	Yes	
15	132 KV S/S Srinagar	Conventional	132/33 KV	1x40 +1x20				31.3.1981	Yes	
16	132 KV S/S Srinagar	Conventional	132/66 KV	1x(3x5)+20				31.3.1981	Yes	
17	132 KV S/S Kotdwar	Conventional	132/33 KV	2x40				28.3.1995	Yes	
18	132 KV S/S Bindal	Conventional	132/33 KV	2x40				19.6.1992	Yes	
19	132 KV S/S Purkulgoan	Conventional	132/33 KV	1x20 + 1x40				27.3.1983	Yes	
20	132 KV S/S Bhowali	Conventional	132/33 KV	2x(3x5)+20				12/1/1978	Yes	
21	132 KV S/S Kathgodam	Conventional	132/33 KV	2x40				4.10.1978	Yes	
22	132 KV S/S Kathgodam	Conventional	132/66 KV	1x20				4.10.1978	Yes	
23	132 KV S/S Kichha	Conventional	132/33KV	2x40				30.03.1993	Yes	
24	132 KV S/S Almora	Conventional	132/33KV	3x20				17.11.1979	Yes	
25	132 KV S/S Kashipur	Conventional	132/33KV	3x40				21.09.1978	Yes	
26	132 KV S/S Bazpur	Conventional	132/33KV	1x40+1x80				31.12.1988	Yes	
27	132 KV S/S Majra	Conventional	132/33 KV	3x40				22.08.1966	Yes	
28	132 KV S/S Bhupatwala	Conventional	132/33 KV	2x40				30.12.2003	Yes	
29	132 KV S/S Manglore	Conventional	132/33 KV	2x40				27.10.2006	Yes	
30	132 KV S/S Bhagwanpur	Conventional	132/33 KV	2x40+1x20				25.5.2006	Yes	
31	132 KV S/S Rudrapur	Conventional	132/33KV	2x40				08.05.2006	Yes	
32	132 KV S/S Pithoragarh	Conventional	132/33KV	2x(3x5)+2x20				02.06.2003	Yes	
33	132 KV S/S Ranikhet	Conventional	132/33KV	2x(3x5)+20				14.12.2006	Yes	
34	132 KV S/S Jaspur	Conventional	132/33KV	2x40				24.12.2006	Yes	
35	132 KV S/S Ramnagar	Conventional	132/33KV	1x20+1x40				09.07.2005	Yes	
36	132 KV S/s Sitarganj	Conventional	132/33 KV	2X40				16.07.2007	Yes	
37	132 KV S/S Laksar	Conventional	132/33 KV	2x40				26.07.2007	Yes	
38	132 KV S/s Simli	Conventional	132/33 KV	2X20				27.07.2009	Yes	
39	132 KV S/S Satpuli	Conventional	132/33 KV	2x20				02.02.2011	Yes	
40	132 KV S/s SIDCUL Sitarganj	Conventional	132/33	2x40				09.10.2012	Yes	



Name of Transmission Licensee

Power Transmission Corporation of Uttarakhand Limited

**Form 4**

**Transmission Losses**

S.No	Loss Calculation	Previous Year (n-1)	Current Year (n)			Ensuing Year (n+1)
		(Actuals / Audited)	Apr-July (Actual)	Aug-Mar (Estimated)	Total (April - March)	Projected*
1	Total Energy Delivered by Generating Stations in the State and interstate tie-lines to the Transmission System of the Licensee (MU)	13973.20	5382.80	9990.00	15372.80	16910.00
2	Energy Delivered by Grid S/Ss to Distribution Licensees/EHT Consumers (MU)	13734.03	5305.21	9821.63	15126.83	16639.00
3	<b>Transmission loss in system (1-2) (mu)</b>	239.17	77.59	168.37	245.96	271.00
4	<b>Transmission loss in system (%) {(1-2)/1}</b>	1.71%	1.44%	1.69%	1.60%	1.60%

*Assumptions made, if any, should be clearly indicated at appropriate places.*

\*10% Annual increment over previous year of total energy and 1.60% transmission losses are assumed for (n+1) Year

**Petitioner**

Name of Transmission Licensee

Power Transmission Corporation of Uttarakhand Limited

### Form 5

### Transmission Availability Factor

S.No	Particulars	Previous Year (n-1)	Current Year (n)			Ensuing Year (n+1)
		(Actuals/Audited)	Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March) (Estimated)	Projected
1	Transmission Availability Factor	99.46%	99.63%	>99%	>99%	>99%

Petitioner

Name of Transmission Licensee

Power Transmission Corporation of Uttarakhand Limited

**Form 6****Income from investments, Non-tariff income and Other Business**

(Figures in Rs Crore)

S.No	Particulars	Previous Year (n-1)	Current Year (n)			Ensuing Year (n+1)
		(Actuals / Audited)	Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)	Projected
<b>A</b>	<b>Income from Investments</b>					
1	Interest Income from Investments	-			-	
2	Interest on fixed deposits	0.05	0.28		0.37	0.39
3	Interest from Banks other than Fixed Deposits	-	-		-	-
4	Interest on any other items	-	2.76		3.64	3.82
	<b>Sub-Total (a)</b>	<b>0.05</b>	<b>3.04</b>	<b>-</b>	<b>4.01</b>	<b>4.21</b>
<b>B</b>	<b>Other Non Tariff Income</b>				-	-
1	Interest on loans and Advances to Staff	-	-		-	-
2	Interest on Loans and Advances to Lessors	-	-		-	-
3	Interest on Advances to Suppliers / Contractors	3.47	0.77		1.01	1.07
4	Gain on Sale of Fixed Assets	-	-		-	-
5	Income/Fee/Collection against staff welfare activities	-	-		-	-
6	Revenue from surcharges for late payment	-	-		-	-
7	Revenue from surcharge for low power factor and other penal charges	-	-		-	-
8	Miscellaneous receipts	2.59	1.06		1.40	1.47
9	Misc. charges from consumers	-	-		-	-
	<b>Sub-Total (b)</b>	<b>6.06</b>	<b>1.83</b>	<b>-</b>	<b>2.41</b>	<b>2.53</b>
<b>C</b>	<b>Income from Other Business</b>				-	-
	Income from other business under Section 41 of EA, 2003	-	-		-	-
	<b>Total (a)+(b)+( c)</b>	<b>6.11</b>	<b>4.87</b>	<b>1.55</b>	<b>6.42</b>	<b>6.74</b>

Petitioner

Name of Transmission Licensee

Power Transmission Corporation of Uttarakhand Limited

**Form 7**

**Open Access related charges**

(Figures in Rs Crore)

S.No	Particulars	Previous Year (n-1)	Current Year (n)			Ensuing Year (n+1)
		(Actuals / Audited)	Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)	Projected
1	Grid support charges					
2	Reactive energy drawl charges					
3	Scheduling and system operation charges	1.33	0.82	0.90	1.72	1.72
4	Inter-state transmission charges (for open access consumers)	4.43	1.85	2.04	3.89	3.89
5	Handling and Service Charges					
6	Any other levies as approved by the Commission					
	<b>Total</b>	<b>5.76</b>	<b>2.67</b>	<b>2.94</b>	<b>5.61</b>	<b>5.61</b>

Petitioner



Name of Transmission Licensee

Power Transmission Corporation of Uttarakhand Limited

**Form 8.1**  
**Employee Expenses**

(Figures in Rs Crore)

S.No	Particulars	Previous Year (n-1)	Current Year (n)			Ensuing Year (n+1)	Remarks
		(Actuals/ Audited)	Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)	Projected	
<b>A</b>	<b>Employee's Cost (Other Than Covered In 'C'&amp;'D')</b>						
1	Salaries	18.22	10.90	14.50	25.40	29.15	
2	Additional Pay / Dearness Allowance (DA)	20.28	13.32	14.96	28.28	32.45	
3	Other Allowances & Relief	3.07	2.02	2.26	4.28	4.91	
4	Interim Relief / Wage Revision	0.00	0.00	0.00	0.00	0.00	
5	Honorarium/Overtime	0.00	0.00	0.00	0.00	0.00	
6	Statutory bonus/ Ex-gratia	0.20	0.00	0.28	0.28	0.32	
		0.00	0.00	0.00	0.00	0.00	
	<b>Sub Total</b>	<b>41.77</b>	<b>26.24</b>	<b>32.01</b>	<b>58.25</b>	<b>66.84</b>	
<b>B</b>	<b>Other Costs</b>						
1	Medical Expenses Reimbursement	0.73	0.38	0.64	1.02	1.17	
2	Travelling Allowance(Conveyance Allowance)	0.00	0.00	0.00	0.00	0.00	
3	Leave Travel Assistance	0.00	0.00	0.00	0.00	0.00	
4	Earned Leave Encashment	7.16	1.54	8.45	9.99	11.46	
5	Payment Under Workman's Compensation And Gratuity	0.01	0.00	0.01	0.01	0.01	
6	Subsidised Electricity To Employees	0.00	0.00	0.00	0.00	0.00	
7	Any Other Item	0.00	0.00	0.00	0.00	0.00	
8	Staff Welfare Expenses	0.12	0.09	0.08	0.16	0.18	
	<b>Sub Total</b>	<b>8.02</b>	<b>2.00</b>	<b>9.18</b>	<b>11.18</b>	<b>12.83</b>	
<b>C</b>	<b>Apprentice And Other Training Expenses</b>	0.00	0.00	0.00	0.00	0.00	
<b>D</b>	<b>Contribution To Terminal Benefits</b>	0.00	0.00	0.00	0.00	0.00	
1	Provident Fund Contribution	3.80	2.17	3.12	5.30	6.08	
2	Provision for PF Fund	0.00	0.00	0.00	0.00	0.00	
3	Any Other Items	4.29	1.72	4.26	5.98	6.86	
	<b>Total C</b>	<b>8.09</b>	<b>3.89</b>	<b>7.38</b>	<b>11.28</b>	<b>12.94</b>	
<b>E</b>	<b>Grand Total</b>	<b>57.88</b>	<b>32.14</b>	<b>48.57</b>	<b>80.71</b>	<b>92.61</b>	
<b>F</b>	Employee expenses capitalised	0.16	0.00	0.00	0.23	0.26	
<b>G</b>	<b>Net Employee expenses (E)-(F)</b>	<b>57.71</b>	<b>32.14</b>	<b>48.57</b>	<b>80.48</b>	<b>92.34</b>	
	Impact of 7th Pay Commission	0.00	0.00	0.00	18.98	18.47	
	<b>Total Employee Costs</b>	<b>57.71</b>	<b>32.14</b>	<b>48.57</b>	<b>99.46</b>	<b>110.81</b>	

Name of Transmission Licensee

Power Transmission Corporation of Uttarakhand Limited

**Form 8.1**  
**Employee Expenses**

(Figures in Rs Crore)

S.No	Particulars	Previous Year (n-1)	Current Year (n)			Ensuing Year (n+1)	Remarks
		(Actuals/ Audited)	Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)	Projected	

## B. Details of number of employees

S. No.	Item	Previous Year (n-1)	Current Year (n)			Ensuing Year (n+1)	Remarks
		(Actuals/ Audited)	Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)	Projected	
<b>A</b>	<b>Officer/Managerial Cadre</b>						
1	Technical	185	185	239	239	245	
2	Administrative	8	8	8	8	8	
3	Accounts and finance	15	15	15	15	14	
4	Other (Please specify)	0	0	0	0	0	
		0	0	0	0	0	
<b>B</b>	<b>Staff Cadre</b>						
5	<b>Technical</b>	0	0	0	0	0	
5.1	Grade I	78	78	78	78	79	
5.2	Grade II	107	107	161	161	166	
5.3	Grade III	390	390	573	573	619	
5.4	Grade IV	45	45	44	44	65	
		0	0	0	0	0	
6	<b>Administrative</b>	0	0	0	0	0	
6.1	Grade I	6	6	6	6	6	
6.2	Grade II	2	2	2	2	2	
6.3	Grade III	93	93	99	99	100	
6.4	Grade IV	20	20	18	18	16	
		0	0	0	0	0	
7	<b>Accounts and finance</b>	0	0	0	0	0	
7.1	Grade I	5	5	5	5	4	
7.2	Grade II	10	10	10	10	10	
7.3	Grade III	42	42	42	42	44	
7.4	Grade IV	0	0	0	0	0	
		0	0	0	0	0	
8	<b>Others (please specify)</b>	0	0	0	0	0	
8.1	Grade I	89	89	89	89	89	
8.2	Grade II	119	119	173	173	178	
8.3	Grade III	525	525	714	714	763	
8.4	Grade IV	65	65	62	62	81	
	<b>Total Employees</b>	<b>798</b>	<b>798</b>	<b>1038</b>	<b>1038</b>	<b>1111</b>	

Name of Transmission Licensee

Power Transmission Corporation of Uttarakhand Limited

**Form 8.2****Repair & Maintenance Expenditure**

(Figures in Rs Crore)

S. No	Particulars	Previous Year (n-1)	Current Year (n)			Ensuing Year (n+1)	Remarks
		(Actuals / Audited)	Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)	Projected	
1	Plant and Machinery	15.91	5.69	11.68	17.37	22.99	
2	Building	1.91	1.11	0.97	2.08	2.75	
3	Civil Works	0.00		-	0.00	0.00	
4	Hydraulic Works	0.00		-	0.00	0.00	
5	Lines, Cables Net Works etc.	3.95	2.27	2.03	4.31	5.70	
6	Vehicles						
7	Furniture and Fixtures	0.05	0.04	0.02	0.06	0.08	
8	Office Equipments						
9	Station Supplies						
10	Other Credits to R&M Charges	0.00		-	0.00	0.00	
	<b>Total (1 to 10)</b>	<b>21.82</b>	<b>9.11</b>	<b>14.70</b>	<b>23.81</b>	<b>31.53</b>	

Name of Transmission Licensee      Power Transmission Corporation of Uttarakhand Limited

**Form 8.3  
Administration & General Expenses**

(Figures in Rs Crore)

S.No	Particulars	Previous Year (n-1)	Current Year (n)			Ensuing Year (n+1)	Remarks
		(Actuals / Audited)	Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)	Projected	
<b>A</b>	<b>Administrative Expenses</b>						
1	Rent rates and taxes						
	Lease / Rent	0.00	0.00	0.00	0.00	0.00	
	Rates & Taxes	0.00	0.00	0.00	0.00	0.00	
2	Insurance	0.00	0.00	0.00	0.00	0.00	
3	Revenue Stamp Expenses Account	0.00	0.00	0.00	0.00	0.00	
4	Telephone, Postage, Telegram & Telex Charges	0.65	0.35	0.32	0.67	0.68	
5	Incentive & Award To Employees/Outsiders	0.00	0.00	0.00	0.00	0.00	
6	Consultancy Charges	0.38	0.20	0.19	0.39	0.39	
7	Technical Fees	0.24	0.13	0.12	0.24	0.25	
8	Other Professional Charges	0.16	0.09	0.08	0.16	0.17	
9	Conveyance And Travelling	0.44	0.23	0.21	0.45	0.45	
10	License And Registration Fee Of						
	Plant And Machinery	0.00	0.00	0.00	0.00	0.00	
	Vehicles	0.00	0.00	0.00	0.00	0.00	
11	Vehicle Expenses (Other Than Trucks And Delivery Vans)						
	Vehicles Running Expenses Petrol And Oil	0.73	0.39	0.36	0.75	0.76	
	Hiring Of Vehicles	1.71	0.90	0.83	1.74	1.77	
12	Security / Service Charges Paid To Outside Agencies	5.75	3.05	2.81	5.86	5.97	
	<b>Sub-Total 'A' (1 To 12)</b>	<b>10.07</b>	<b>5.33</b>	<b>4.92</b>	<b>10.25</b>	<b>10.44</b>	
<b>B</b>	<b>Other Charges</b>		0.00	0.00	0.00	0.00	
1	Fee And Subscriptions Books And Periodicals	3.32	1.76	1.62	3.38	3.44	
2	Printing And Stationery	0.26	0.14	0.13	0.27	0.27	
3	Advertisement Expenses (Other Than Purchase Related) Exhibition & Demo.	1.25	0.66	0.61	1.28	1.30	
4	Contributions/Donations To Outside Institutes / Associations	0.44	0.23	0.22	0.45	0.46	
5	Electricity Charges To Offices	0.19	0.10	0.09	0.19	0.20	
6	Water Charges	0.03	0.02	0.01	0.03	0.03	
7	Entertainment Charges	0.10	0.05	0.05	0.10	0.10	
8	Miscellaneous Expenses	0.63	0.33	0.31	0.64	0.65	
	<b>Sub-Total 'B' (1 To 8)</b>	<b>6.22</b>	<b>3.30</b>	<b>3.04</b>	<b>6.34</b>	<b>6.45</b>	
<b>C</b>	<b>Legal Charges</b>	<b>0.41</b>	<b>0.22</b>	0.20	<b>0.42</b>	<b>0.43</b>	
<b>D</b>	<b>Auditor's Fee</b>	<b>0.10</b>	<b>0.05</b>	0.05	<b>0.10</b>	<b>0.10</b>	
<b>E</b>	<b>Material Related Expenses</b>			0.00			
1	Freight On Capital Equipments						
2	Purchase Related Advertisement Expenses						
3	Vehicle running and hiring expenses (Truck/ Delivery Van)						
4	Other Freight						
5	Transit Insurance						
6	Octroi						
7	Incidental Stores Expenses						
8	Fabrication Charges						
	<b>Sub Total 'E' (1 To 8)</b>						
<b>F</b>	<b>Grand Total (A To E)</b>	<b>16.79</b>	<b>8.90</b>	<b>8.20</b>	<b>17.10</b>	<b>17.42</b>	
<b>G</b>	<b>Provision for insurance of assets</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	
<b>H</b>	<b>A&amp;G expenses capitalised</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	
	<b>Net A&amp;G Expenses (F - G)</b>	<b>16.79</b>	<b>8.90</b>	<b>8.20</b>	<b>17.10</b>	<b>17.42</b>	

Name of Transmission Licensee

Power Transmission Corporation of Uttarakhand Limited

**Form 9.1****Statement of Total Gross Fixed Asset**

Previous year (n-1)

(Figures in Rs Crore)

Particulars of Assets	Opening balance*	Opening balance**	Additions during the year***	Retirement of assets during the year	Closing balance
a) Land	38.93	30.62	2.32		32.94
b) Building	70.00	55.05	4.18		59.23
c) Major Civil Works	6.07	4.77	0.36		5.13
d) Plant & Machinery	585.97	460.82	34.99		495.81
e) Lines and Cable Network	571.82	449.70	34.15		483.85
f) Vehicles	0.90	0.71	0.05		0.76
g) Furniture and Fixtures	2.60	2.04	0.16		2.20
h) Office Equipment & Other Items	2.22	1.75	0.13		1.88
i) Hydraulic Works	1.49	1.18	0.09		1.26
					0.00
<b>Total</b>	<b>1280.00</b>	<b>1006.64</b>	<b>76.43</b>		<b>1083.07</b>

\*As per actual

\*\*Approved (Used for further calculations)

\*\*\*Includes adjustment of Rs 6.66 Cr on account of LILO of '132kV Almora-Pithoragarh line for 220 kV S/s Pithoragarh (PGCIL)' &amp; '02 No. 220 kV Bay at 400 kV S/s Kashipur'

Current Year (n)

(Figures in Rs Crore)

Particulars of Assets	Opening Balance	Additions of assets during the year		Retirement of assets during the year		Closing balance
		Apr-Sep (Actual)	Oct-Mar (Estimated)	Apr-Sep (Actual)	Oct-Mar (Estimated)	
a) Land	32.94		0.00			32.94
b) Building	59.23	0.00	0.00			59.23
c) Major Civil Works	5.13	0.08	0.15			5.36
d) Plant & Machinery	495.81	12.78	23.45			532.04
e) Lines and Cable Network	483.85	101.38	186.01			771.24
f) Vehicles	0.76	0.00	0.00			0.76
g) Furniture and Fixtures	2.20	0.14	0.26			2.60
h) Office Equipment & Other Items	1.88	0.26	0.48			2.62
i) Hydraulic Works	1.26	0.00	0.00			1.26
<b>Total</b>	<b>1083.07</b>	<b>114.64</b>	<b>210.34</b>	<b>0.00</b>	<b>0.00</b>	<b>1408.05</b>

Ensuing year (n +1)

(Figures in Rs Crore)

Particulars of Assets	Opening balance	Additions during the year	Retirement of assets during the year	Closing balance
a) Land	32.94	11.51		44.45
b) Building	59.23	20.83		80.06
c) Major Civil Works	5.36	2.13		7.49
d) Plant & Machinery	532.04	206.70		738.74
e) Lines and Cable Network	771.24	280.74		1051.98
f) Vehicles	0.76	0.26		1.02
g) Furniture and Fixtures	2.60	0.93		3.53
h) Office Equipment & Other Items	2.62	1.24		3.86
i) Hydraulic Works	1.26	0.48		1.74
<b>Total</b>	<b>1408.05</b>	<b>524.82</b>	<b>0.00</b>	<b>1932.87</b>

Petitioner

Name of Transmission Licensee

Power Transmission Corporation of Uttarakhand Limited

**Form 9.2****Deposit works and grants/subsidies towards cost of capital assets**

(Figures in Rs Crore)

S.No	Particulars	Previous Year (n-1)			Current Year (n)		Ensuing Year (n+1) (Estimate)	
		Balance at the start of the year	Additions during the Year	Balance at the end of the Year	Additions during the Year	Balance at the end of the Year	Additions during the Year	Balance at the end of the Year
1	Consumer Contribution / deposit works Towards Cost Of Capital Assets	53.78	0.44	54.22	(2.26)	51.96	31.70	83.66
2	Grant/subsidies Towards Cost Of Capital Assets	-	118.60	118.60	(118.60)	(0.00)	0.00	0.00
	<b>Total</b>	<b>53.78</b>	<b>119.03</b>	<b>172.82</b>	<b>-120.86</b>	<b>51.96</b>	<b>31.70</b>	<b>83.66</b>

Note: Amount of Contribution against deposit work is amortized upto Sep 16 (for 6 months) Rs. 2.26 Crore

**Form 9.3****Statement of GFA funded through Deposit Works/Capital Subsidy/Grant****Previous year (n-1)**

(Figures in Rs Crore)

Particulars of Assets	Opening balance*	Opening balance**	Additions during the year	Retirement of assets during the year	Closing balance
a) Land	-	-	-	-	-
b) Building	0.53	0.57	-	-	0.57
c) Major Civil Works	0.56	0.60	-	-	0.60
d) Plant & Machinery	28.35	30.44	1.47	-	31.91
e) Lines and Cable Network	51.70	55.51	3.23	-	58.75
f) Vehicles	-	-	-	-	-
g) Furniture and Fixtures	-	-	-	-	-
h) Office Equipment & Other Items	-	-	-	-	-
i) Hydraulic Works	-	-	-	-	-
<b>Total</b>	<b>81.14</b>	<b>87.13</b>	<b>4.70</b>	<b>-</b>	<b>91.83</b>

\*As per actual

\*\*Approved (Used for further calculations)

**Current Year (n)**

(Figures in Rs Crore)

Particulars of Assets	Opening Balance	Additions of assets during the year		Retirement of assets during the year		Closing balance
		Apr-Sep (Actual)	Oct-Mar (Estimated)	Apr-Sep (Actual)	Oct-Mar (Estimated)	
a) Land	-	-	-	-	-	-
b) Building	0.57	-	-	-	-	0.57
c) Major Civil Works	0.60	-	-	-	-	0.60
d) Plant & Machinery	31.91	-	-	-	-	31.91
e) Lines and Cable Network	58.75	-	-	-	-	58.75
f) Vehicles	-	-	-	-	-	-
g) Furniture and Fixtures	-	-	-	-	-	-
h) Office Equipment & Other Items	-	-	-	-	-	-
i) Hydraulic Works	-	-	-	-	-	-
<b>Total</b>	<b>91.83</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>91.83</b>

**Form 9.3****Statement of GFA funded through Deposit Works/Capital Subsidy/Grant**

Ensuing year (n +1)

(Figures in Rs Crore)

Particulars of Assets	Opening balance	Additions during the year	Retirement of assets during the year	Closing balance
a) Land	-	Break-up not available		
b) Building	0.57			
c) Major Civil Works	0.60			
d) Plant & Machinery	31.91			
e) Lines and Cable Network	58.75			
f) Vehicles	-			
g) Furniture and Fixtures	-			
h) Office Equipment & Other Items	-			
i) Hydraulic Works				
<b>Total</b>	91.83	31.70	-	123.53

Petitioner

Name of Transmission Licensee

Power Transmission Corporation of Uttarakhand Limited

**Form 9.4****Statement of GFA excluding Assets funded through Deposit Works/Capital Subsidy/Grant****Previous year (n-1)**

(Figures in Rs Crore)

Particulars of Assets	Opening balance	Additions during the year	Retirement of assets during the year	Closing balance
a) Land	30.62	2.32	0.00	32.94
b) Building	54.48	4.18	0.00	58.66
c) Major Civil Works	4.17	0.36	0.00	4.53
d) Plant & Machinery	430.38	33.52	0.00	463.90
e) Lines and Cable Network	394.19	30.91	0.00	425.10
f) Vehicles	0.71	0.05	0.00	0.76
g) Furniture and Fixtures	2.04	0.16	0.00	2.20
h) Office Equipment & Other Items	1.75	0.13	0.00	1.88
i) Hydraulic Works	1.18	0.09	0.00	1.26
<b>Total</b>	<b>919.51</b>	<b>71.73</b>	<b>0.00</b>	<b>991.24</b>

**Current Year (n)**

(Figures in Rs Crore)

Particulars of Assets	Opening Balance	Additions of assets during the year		Retirement of assets during the year		Closing balance
		Apr-Sep (Actual)	Oct-Mar (Estimated)	Apr-Sep (Actual)	Oct-Mar (Estimated)	
a) Land	32.94	0.00	0.00	0.00	0.00	32.94
b) Building	58.66	0.00	0.00	0.00	0.00	58.66
c) Major Civil Works	4.53	0.08	0.15	0.00	0.00	4.76
d) Plant & Machinery	463.90	12.78	23.45	0.00	0.00	500.13
e) Lines and Cable Network	425.10	101.38	186.01	0.00	0.00	712.49
f) Vehicles	0.76	0.00	0.00	0.00	0.00	0.76
g) Furniture and Fixtures	2.20	0.14	0.26	0.00	0.00	2.60
h) Office Equipment & Other Items	1.88	0.26	0.48	0.00	0.00	2.62
i) Hydraulic Works	1.26	0.00	0.00	0.00	0.00	1.26
<b>Total</b>	<b>991.24</b>	<b>114.64</b>	<b>210.34</b>	<b>0.00</b>	<b>0.00</b>	<b>1316.22</b>

**Ensuing year (n +1)**

(Figures in Rs Crore)

Particulars of Assets	Opening balance	Additions during the year	Retirement of assets during the year	Closing balance
a) Land	32.94	Break-up not available		
b) Building	58.66			
c) Major Civil Works	4.76			
d) Plant & Machinery	500.13			
e) Lines and Cable Network	712.49			
f) Vehicles	0.76			
g) Furniture and Fixtures	2.60			
h) Office Equipment & Other Items	2.62			
i) Hydraulic Works	1.26			
<b>Total</b>	<b>1316.22</b>			

Petitioner

Form: 9.5

132KV Srinagar Simli Line

Garhwal-Projects

## Element wise Break-up of Project/Asset/Element Cost for Transmission System or Communication System

(Figures in Rs lakhs)

Sl. No. (1)	Item	Cost in Rs. Lakh						Liabilities/Provisions (5)	Variation (6=3-4-5)	Reasons for Variation (7)	Admitted Cost (8)
		As per Original Estimates (3)			Actual Capital Expenditure as on COD (4)						
		Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount				
A	TRANSMISSION LINE										
1.0	Preliminary works										
1.1	Design & Engineering										
1.2	Preliminary Investigation, Right of way, forest clearance, PTCC, general civil works etc.			1200			2905.06		1705.06	In scheme there was provision for payments of Forest compensation was Rs 12 Crore. In actual the total amount for all heads NPV etc for forest approval, land premium and lease rent for 30 year is about Rs 29.05 Crore ,out of which Rs 27.05 has been paid to Forest Dept and about Rs 2 crore is to be paid for land premium and lease rent for 30 year to DFO Pauri.	
1.3	<b>Total Preliminary works</b>			<b>1200</b>			<b>2905.06</b>		<b>1705.06</b>		
2.0	Transmission Lines material										
2.1	Towers Steel										
a	Tower steel lot1	2203.2	0.64	1410.048	26.97	0.4746	12.799962		-306.763573		
b	Tower steel lot 2				1680.88	0.6488	1090.4845				
2.2	Conductor	548.1	1.24	679.644	196.265	1.2205	239.54143		-440.102568		
2.3	Earth Wire	91.35	0.41	37.4535	64.614	0.441	28.494774		-8.958726		
2.4	Insulators	Lot		209.7	14730		89.28		-120.42		
2.5	Hardware Fittings	Lot		67.5	Lot		26.68		-40.82		
2.6	Conductor & Earth wire accessories	Lot		9.9	Lot		16.26		6.36	Initially quantities was provisional in LS, after detail survey actual quantities was find out.	
2.7	Spares	Lot							0		
2.8	Erection, Stringing & Civil works including foundation	Lot		3219.3	Lot		2667.2		-552.1		

Sl. No. (1)	Cost in Rs. Lakh							Liabilities/ Provisions (5)	Variation (6=3-4-5)	Reasons for Variation (7)	Admitted Cost (8)
	Item	As per Original Estimates (3)		Actual Capital Expenditure as on COD (4)							
		Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount				
	Price variation	Lot		1010.96			2038.37		1027.41	PV was increased due to delay in construction of Line as the work got delayed due to delay in forest approval which was beyond control of PTCUL. Forest approval was obtained on 14.06.2013. After forest approval the work could not be started due to heavy disaster on 16.06.2013 in District Rudraprayag and Chamoli. The process of tree cutting was started in Jan 2014 as officers of Revenue and Forest Department were deployed in disaster relief work. The work was also delayed due to delay in tree cutting as Forest Department completed tree cutting in the month of March 2016. Due to severe ROW problems at site the progress of work was also hampered.	
	<b>Total Transmission Lines material</b>			<b>7844.5055</b>			<b>9114.1706</b>		<b>1269.665134</b>		
3.0	Crop compensation	LS		18			15.44		-2.56		
4.0	Establishment & audit	LS		888.3			902.28		13.98		
5.0	Taxes and Duties	LS		242.1	Lot				-242.1		
5.1	Service Tax	LS					388.13		388.13	Service tax was paid as per Policy of Government.	
5.2	Insurance charges	LS					76.2		76.2	Insurance charges were paid as per provision of Contract agreement for construction of Line.	
	<b>Total Taxes &amp; Duties</b>	<b>LS</b>		<b>242.1</b>			<b>464.33</b>		<b>222.23</b>		
	<b>Other contingencies(Line shifting,Electrical Inspector fee etc)</b>						6.92		6.92	( Expenses in 33KV,11KV Line of UPCL in corridore of Line shifting and Electrical Inspector Fees etc)	

Sl. No. (1)	Item	Cost in Rs. Lakh						Liabilities/ Provisions (5)	Variation (6=3-4-5)	Reasons for Variation (7)	Admitted Cost (8)
		As per Original Estimates (3)			Actual Capital Expenditure as on COD (4)						
		Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount				
	Interest during construction	-	-	-	-	-	1779.98		1779.98	1. Due to delay in Forest approval and RoW issues the construction work of Line was delayed as a result IDC increased. In scheme there was no provision for IDC.. 2. Forest clearance of Line was obtained on 14.06.2013. 3. Due to heavy disaster during June 2013 in District Rudraprayag and Chamoli tree cutting work could not be started by Forest Department due to deployment of Revenue and Forest Officers for disaster relief work. 4. The process for tree cutting was started in January 2014 and tree cutting was completed in March 2016. 5. Due to severe Right of way problems by Villagers /concern land owners at Line site various activities got delayed.	
	<b>Total -Transmission lines</b>			<b>8992.9055</b>			<b>12283.121</b>	<b>0</b>	<b>3290.215134</b>		
	Cost of material receive back						65.182		65.182		
	<b>Net Cost of Transmission lines</b>			<b>8951</b>			<b>12217.939</b>	<b>0</b>	<b>3266.938634</b>		

1. In case of cost variation, a detailed note giving reasons of such variation should be submitted clearly indicating whether such cost over- run was beyond the control of the transmission licensee.
2. Separate details of free hold/lease hold land should be submitted.

Petitioner



Sl. No. (1)	Cost in Rs. Lakh									
	As per Original Estimates (3)			Actual Capital Expenditure as on COD (4)			Liabilities/ Provisions (5)	Variation (6=3-4-5)	Reasons for Variation (7)	Admitted Cost (8)
	Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount				
	<b>Total Transmission Lines material</b>									
3.0	Taxes and Duties									
3.1	Custom Duty									
3.2	Other Taxes & Duties									
	<b>Total Taxes &amp; Duties</b>									
	<b>Total - Transmission lines</b>									
<b>B.</b>	<b>SUBSTATIONS</b>									
4.0	Preliminary works & land									
4.1	Design & Engineering									
4.2	Land					2.09				
4.3	Site preparation					2.33				
	<b>Total Preliminary works &amp; land</b>			<b>0</b>	<b>0</b>	<b>4.42</b>				
5.0	Civil Works									
5.1	Control Room & Office Building including HVAC					2.23				
5.2	Township & Colony									
5.3	Roads and Drainage									
5.4	Foundation for structures					0.37				
5.5	Misc. civil works					0.59				
	<b>Total Civil Works</b>			<b>0</b>	<b>0</b>	<b>3.19</b>				





Sl. No. (1)	Cost in Rs. Lakh									
	As per Original Estimates (3)			Actual Capital Expenditure as on COD (4)			Liabilities/ Provisions (5)	Variation (6=3-4-5)	Reasons for Variation (7)	Admitted Cost (8)
	Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount				
13.1	Interest During Construction (IDC) (after adjusting interest received from contractor against mob. Adv.)					8.23				
13.2	Financing Charges (FC)									
13.3	Foreign Exchange Rate Variation (FERV)									
13.4	Hedging Cost									
	<b>Total of IDC, FC, FERV &amp; Hedging Cost</b>					<b>8.23</b>				
	<b>Capital cost including IDC, FC, FERV &amp; Hedging Cost</b>		5.56			23.00				

**Note:**

1. In case of cost variation, a detailed note giving reasons of such variation should be submitted clearly indicating whether such cost over- run was beyond the control of the transmission licensee.

**Petitioner**

Name of Transmission Licensee

Power Transmission Corporation of Uttarakhand Limited

Form: 9.5

Kumaun O&amp;M

Element wise Break-up of Project/Asset/Element Cost for Transmission System or Communication System

Name of scheme :Aug. of 132 KV S/s Kathgodam from1x40 MVA to 2x40 MVA(PFC-09303006)

(Figures in Rs Lakhs)

Sl. No. (1)	Cost in Rs. Lakh											
	As per Original Estimates (3)					Actual Capital Expenditure as on COD (4)			Liabilities/Provisions (5)	Variation (6=3-4-5)	Reasons for Variation (7)	Admitted Cost (8)
	Quantity	unit	Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount				
A	<b>TRANSMISSION LINE</b>							Nil				
1.0	Preliminary works							Nil				
1.1	Design & Engineering							Nil				
1.2	Preliminary Investigation, Right of way, forest clearance, PTCC, general civil works etc.							Nil				
1.3	Total Preliminary works							Nil				
2.0	Transmission Lines material							Nil				
2.1	Towers Steel							Nil				
2.2	Conductor							Nil				
2.3	Earth Wire							Nil				
2.4	Insulators							Nil				
2.5	Hardware Fittings							Nil				
2.6	Conductor & Earth wire accessories							Nil				
2.7	Spares							Nil				
2.8	Erection, Stringing & Civil works including foundation							Nil				
	<b>Total Transmission Lines</b>											
3.0	Taxes and Duties							Nil				
3.1	Custom Duty							Nil				
3.2	Other Taxes & Duties							Nil				
	<b>Total Taxes &amp; Duties</b>											
	<b>Total -Transmission lines</b>											
B.	<b>SUBSTATIONS</b>							Nil				
4.0	Preliminary works & land							Nil				
4.1	Design & Engineering							Nil				
4.2	Land							Nil				
4.3	Site preparation							Nil				
	<b>Total Preliminary works &amp; land</b>											

Sl. No. (1)	Cost in Rs. Lakh											
	As per Original Estimates (3)					Actual Capital Expenditure as on COD (4)			Liabilities/Provisions (5)	Variation (6=3-4-5)	Reasons for Variation (7)	Admitted Cost (8)
	Quantity	unit	Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount				
5.0	<b>Civil Works</b>											
5.1	<b>Control Room &amp; Office Building including HVAC</b>											
5.2	Township & Colony											
5.3	Roads and Drainage											
5.4	Foundation for structures(Transformer foundation)	LS				1	0.24	0.24		-0.24		
5.5	Misc. civil works											
a	Earth work	Cum	20	0.00150	0.03	17.48	0.002	0.026		0.00		
b	C.C 1:4:8	Cum	5	0.04123	0.21	1.88	0.050	0.094		0.11		
c	C.C 1:2:4	Cum	17.34	0.05408	0.94	4.92	0.060	0.295		0.64		
d	R.C.C 1:1.5:3	Cum	10	0.06596	0.66	3.03	0.075	0.227		0.43		
e	Brick Work	Cum	6	0.03814	0.23	3.24	0.050	0.162		0.07		
f	12mm Cement Plaster	Sqm	150	0.00130	0.20	38.80	0.002	0.058		0.14		
g	Structural Steel Work in single section	qtl,	6	0.06225	0.37	0.00	0.080	0.000		0.37		
h	Structural Steel Work in Built up section	qtl,	3	0.06650	0.20	1.62	0.080	0.130		0.07		
	<b>Total Civil Works</b>				<b>2.83</b>			<b>1.23</b>		<b>1.60</b>	No cost exclamation	
6.0	<b>Substation Equipments</b>											
6.1	<b>Switchgear (CT,PT, Circuit Breaker, Isolator etc)</b>											
a	PVC Cable 2.5mm <sup>2</sup> 10 core	Km	1	1.95	1.95	0.89	3.91	3.48		-1.53		
b	PVC Cable 2.5mm <sup>2</sup> 6 core	Km	1	1.35	1.35	0.71	2.62	1.86		-0.51		
c	PVC Cable 2.5mm <sup>2</sup> 4 core	Km	1	0.94	0.94	1.00	2.48	2.48		-1.54		
d	PVC Cable 2.5mm <sup>2</sup> 2 core	Km	1	0.68	0.68	0.89	1.45	1.29		-0.61		
e	120 KV L.A	No.	3	0.50	1.50	3.00	0.97	2.90		-1.40		
f	33 KV Circuit Breaker	No.	1	3.65	3.65	1.00	3.94	3.94		-0.29		
g	33 KV CT 800/400/1 A	No.	3	0.50	1.50	3.00	0.77	2.32		-0.82		
h	33 KV Bus Isolater	No.	1	0.55	0.55	1.00	1.02	1.02		-0.47		
i	33 KV L.A	No.	3	0.13	0.39	3.00	0.28	0.84		-0.45		
6.2	<b>Transformers</b>											
a	40 M.V.A T/F	No.	1	320.00	320.00	1.00	244.29	244.29		75.71		
6.3	Compensating Equipment( Reactor, SVCs etc)											
6.4	Control , Relay & Protection Panel	No.	1	11.47	11.47	1.00	19.68	19.68		-8.21		
6.5	PLCC											
6.6	HVDC package											



Sl. No. (1)	Cost in Rs. Lakh											
	As per Original Estimates (3)					Actual Capital Expenditure as on COD (4)			Liabilities/Provisions (5)	Variation (6=3-4-5)	Reasons for Variation (7)	Admitted Cost (8)
	Quantity	unit	Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount				
	<b>Total (Sub-station)</b>											
C	Communication System											
9.1	Preliminary Works											
9.2	Communication System equipment's											
9.3	Taxes and Duties											
	Total											
	(Communication System)											
10.0	<b>Construction and pre-commissioning expenses</b>											
10.1	Site supervision & site administration etc. (electrical inspector visit charges)							0.08				
10.2	Tools and Plants											
10.3	construction Insurance											
	<b>Total Construction and pre commissioning expenses</b>											
11.0	Overheads											
11.1	Establishment				56.07							
11.2	Audit & Accounts											
11.3	Contingency				10.89							
	<b>Total Overheads</b>											
12.0	<b>Cost of Plant &amp; Machinery</b>											
13.0	Capital Cost including Plant & Machinery											
13.1	Interest During Construction (IDC)				14.67							
13.2	Financing Charges (FC)											
13.3	Foreign Exchange Rate Variation (FERV)											
13.4	Hedging Cost											
	<b>Total of IDC, FC, FERV &amp; Hedging Cost</b>											
	<b>Capital cost including IDC, FC, FERV &amp; Hedging Cost</b>				388.48		302.56		85.92			

**Note:**

1. In case of cost variation, a detailed note giving reasons of such variation should be submitted clearly indicating whether such cost over- run was beyond the control of the transmission licensee.
2. Separate details of free hold/lease hold land should be submitted.

Petitioner

## Element wise Break-up of Project/Asset/Element Cost for Transmission System or Communication System

Name of scheme :Aug. of 132 KV S/s Bhowali from6x5 MVA to (6x5+1x20 )MVA (PFC -09303005)

(Figures in Rs Lakhs)

Sl. No. (1)	Cost in Rs. Lakh											
	As per Original Estimates (3)					Actual Capital Expenditure as on COD (4)			Liabilities/Provisions (5)	Variation (6=3-4-5)	Reasons for Variation (7)	Admitted Cost (8)
	Quantity	unit	Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount				
A	<b>TRANSMISSION LINE</b>											
1.0	Preliminary works											
1.1	Design & Engineering											
1.2	Preliminary Investigation, Right of way, forest clearance, PTCC, general civil works etc.											
1.3	Total Preliminary works											
2.0	Transmission Lines material											
2.1	Towers Steel											
2.2	Conductor											
2.3	Earth Wire											
2.4	Insulators											
2.5	Hardware Fittings											
2.6	Conductor & Earth wire accessories											
2.7	Spares											
2.8	Erection, Stringing & Civil works including foundation											
	<b>Total Transmission Lines</b>											
					Nil			Nil				
3.0	Taxes and Duties											
3.1	Custom Duty											
3.2	Other Taxes & Duties											
	<b>Total Taxes &amp; Duties</b>											
					Nil			Nil				
	<b>Total -Transmission lines</b>											
					Nil			Nil				
B.	<b>SUBSTATIONS</b>											
4.0	Preliminary works & land											
4.1	Design & Engineering											
4.2	Land											
4.3	Site preparation											

Sl. No. (1)	Cost in Rs. Lakh											
	As per Original Estimates (3)					Actual Capital Expenditure as on COD (4)			Liabilities/ Provisions (5)	Variation (6=3-4-5)	Reasons for Variation (7)	Admitted Cost (8)
	Quantity	unit	Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount				
	<b>Total Preliminary works &amp; land</b>											
5.0	<b>Civil Works</b>											
5.1	<b>Control Room &amp; Office Building including HVAC</b>											
5.2	Township & Colony											
5.3	Roads and Drainage											
5.4	Foundation for structures(Transformer foundation)	LS				1	1.30	1.30		-1.30		
5.5	Misc. civil works											
a	Earth work	Cum	1890.00	0.0015	2.84	20.66	0.003	0.062		2.78		
b	C.C 1:4:8	Cum	70.00	0.0412	2.89	3.19	0.040	0.128		2.76		
c	C.C 1:2:4	Cum	72.00	0.0541	3.89	16.60	0.055	0.913		2.98		
d	R.C.C 1:1.5:3	Cum	40.00	0.0660	2.64					2.64		
e	Brick Work	Cum	29.00	0.0381	1.11					1.11		
f	12mm Cement Plaster	Sqm	132.00	0.0013	0.17					0.17		
g	Structural Steel Work in single section	qtl,	41.00	0.0623	2.55					2.55		
h	Structural Steel Work in Built up section	qtl,	10.30	0.0665	0.68					0.68		
i	filling of Earth	cum	900.00	0.0025	2.25					2.25		
j	RR stone Masonry	Cum	1171.00	0.0330	38.64					38.64		
k	Dismantling and Refixing Existing Pale Fencing	Rmt.	120.00	0.0070	0.84					0.84		
l	Dismantling and Refixing Existing Security Fencing	Rmt.	120.00	0.0080	0.96					0.96		
m	RR stone Masonry stone Provided by PTCUL	Cum	54.00	0.0220	1.19					1.19		
n	Cutting of Earth	Cum	500.00	0.0010	0.50					0.50		
	Sub total											
	add 20 % for hill											
	<b>Total Civil Works</b>							<b>2.40</b>		<b>70.98</b>	No cost exclamation	

Sl. No. (1)	Cost in Rs. Lakh											
	As per Original Estimates (3)					Actual Capital Expenditure as on COD (4)			Liabilities/ Provisions (5)	Variation (6=3-4-5)	Reasons for Variation (7)	Admitted Cost (8)
	Quantity	unit	Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount				
6.0	<b>Substation Equipments</b>											
6.1	<b>Switchgear (CT,PT, Circuit Breaker, Isolator etc)</b>											
a	PVC Cable 2.5mm <sup>2</sup> 10 core	Km	1	1.95	1.95	1.00	3.91	3.91		-1.96		
c	PVC Cable 2.5mm <sup>2</sup> 4 core	Km	1	0.94	0.94	1.00	2.60	2.60		-1.66		
d	PVC Cable 2.5mm <sup>2</sup> 2 core	Km	1	0.68	0.68	1.00	1.46	1.46		-0.78		
e	50*6 mm G.I Earth Flate	Km	0.4	0.54	0.22	0.31	2.21	0.69		-0.47		
f	145 KV C.T(400/200/1)	No.	3	1.62	4.86	3.00	2.62	7.86		-3.00		
g	145 KV Circuit Breaker	No.	1	8.70	8.70	1.00	10.71	10.71		-2.01		
h	146 KV Bus Isolater	No.	2	2.67	5.34	2.00	1.66	3.32		2.02		
i	120 KV L.A	No.	3	0.50	1.50	3.00	0.97	2.90		-1.40		
j	33 KV Circuit Breaker	No.	1	3.65	3.65	1.00	3.94	3.94		-0.29		
k	33 KV CT 800/400/1 A	No.	3	0.50	1.50	3.00	0.77	2.32		-0.82		
l	33 KV Bus Isolater	No.	1	0.55	0.55	1.00	1.02	1.02		-0.47		
i	33 KV L.A	No.	3	0.13	0.39	3.00	0.28	0.84		-0.45		
6.2	<b>Transformers</b>											
a	20 M.V.A T/F	No.	1	250.00	250.00	1.00	166.97	166.97		83.03		
6.3	Compensating Equipment( Reactor, SVCs etc)											
6.4	Control , Relay & Protection Panel	No.	1	11.47	11.47	1.00	19.68	19.68		-8.21		
6.5	PLCC											
6.6	HVDC package											
6.7	<b>Bus Bars/ conductors/Insulators</b>											
a	Earth Wire 7/10 swg	Km	0.9	0.55	0.50	0	0.00	0.00		0.50		
b	Clamp & connecters	No.	30	0.01	0.30	30	0.022	0.67		-0.37		
c	Flexible copper bond	No.	27	0.01	0.27	27	0.022	0.60		-0.33		
d	Disc Insulators 160KN/120 KN	No.	30	0.015	0.45	30	0.029	0.86		-0.41		
e	Disc Insulators 70KN	No.	30	0.009	0.27	30	0.027	0.79		-0.52		
6.8	<b>Outdoor lighting</b>											
6.9	Emergency D.G. Set											
6.10	Grounding System											
6.11	Structure for switchyard	MT	14.8	0.7	10.36	3.30	1.084	3.57		6.79		
6.12	other	Ls				1.00	1.13	1.13		-1.13		
	<b>Total Substation Equipments</b>				<b>303.90</b>			<b>235.84</b>		<b>68.06</b>		
7	<b>Erection</b>											
a	20 M.V.A T/F	No.	1	5.30	5.30	1	2.71	2.71		2.59		
b	Structure for switchyard	MT.	15.62	0.07	1.09	3.295	0.097	0.32		0.77		



Sl. No. (1)	Cost in Rs. Lakh											
	As per Original Estimates (3)					Actual Capital Expenditure as on COD (4)			Liabilities/ Provisions (5)	Variation (6=3-4-5)	Reasons for Variation (7)	Admitted Cost (8)
	Quantity	unit	Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount				
10.0	<b>Construction and pre-commissioning expenses</b>											
10.1	Site supervision & site administration etc. (electrical inspector visit charges)							0.08				
10.2	Tools and Plants											
10.3	construction Insurance											
	<b>Total Construction and pre commissioning expenses</b>											
11.0	Overheads											
11.1	Establishment							60.48				
11.2	Audit & Accounts											
11.3	Contingency							11.74				
	<b>Total Overheads</b>											
12.0	<b>Cost of Plant &amp; Machinery</b>											
13.0	Capital Cost including Plant & Machinery											
13.1	Interest During Construction (IDC)							15.81				
13.2	Financing Charges (FC)											
13.3	Foreign Exchange Rate Variation (FERV)											
13.4	Hedging Cost											
	<b>Total of IDC, FC, FERV &amp; Hedging Cost</b>											
	<b>Capital cost including IDC, FC, FERV &amp; Hedging Cost</b>							479.33		246.04	233.30	

**Note:**

1. In case of cost variation, a detailed note giving reasons of such variation should be submitted clearly indicating whether such cost over- run was beyond the control of the transmission licensee.
2. Separate details of free hold/lease hold land should be submitted.

Petitioner





Sl. No. (1)	Cost in Rs. Lakh										
	As per Original Estimates (3)				Actual Capital Expenditure			Liabilities/Provisions (5)	Variation (6=3-4-5)	Reasons for Variation (7)	Admitted Cost (8)
		Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount				
10.4	Erection works			12.92			7.92		5	Due to variation in quantity of executed work as per site requirement and also due to difference in rates received through open tender invited by Corporation, following all rules and regulations and order have been placed to the lowest bidder.	
	<b>Total Construction and pre commissioning expenses</b>			<b>12.92</b>			<b>7.92</b>		<b>5</b>		
11.0	Overheads										
11.1	Establishment			52.76							
11.2	Audit & Accounts										
11.3	Contingency			10.24							
	<b>Total Overheads</b>			<b>63</b>							
<b>12.0</b>	<b>Cost of Plant &amp; Machinery</b>										
<b>13.0</b>	<b>Capital Cost including Plant &amp; Machinery</b>										
13.1	Interest During Construction (IDC)			18.4							
13.2	Financing Charges (FC)										
13.3	Foreign Exchange Rate Variation (FERV)										
13.4	Hedging Cost										
	<b>Total of IDC, FC, FERV &amp; Hedging Cost</b>			<b>18.4</b>							
	<b>Capital cost including IDC, FC, FERV &amp; Hedging Cost</b>			<b>422.88</b>			<b>278.31</b>		<b>63.17</b>		

**Note:**

1. In case of cost variation, a detailed note giving reasons of such variation should be submitted clearly indicating whether such cost over-run was beyond the control of the transmission licensee.

Petitioner

Name of Transmission Licensee

Power Transmission Corporation of Uttarakhand Limited

Form: 9.5

Kumaun O&M

Element wise Break-up of Project/Asset/Element Cost for Transmission System or Communication System

Name of scheme :Aug. of 132 KV S/s Bazpur from 2x40 MVA to (1x40+1x80)MVA

(Figures in Rs Lakhs)

Sl. No. (1)	Cost in Rs. Lakh									
	As per Original Estimates (3)			Actual Capital Expenditure			Liabilities/ Provisions (5)	Variation (6=3-4-5)	Reasons for Variation (7)	Admitted Cost (8)
	Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount				
A	TRANSMISSION LINE									
1.0	Preliminary works			Nil			Nil			
1.1	Design & Engineering			Nil			Nil			
1.2	Preliminary Investigation, Right of way, forest clearance, PTCC, general civil works etc.			Nil			Nil			
1.3	Total Preliminary works			Nil			Nil			
2.0	Transmission Lines material			Nil			Nil			
2.1	Towers Steel			Nil			Nil			
2.2	Conductor			Nil			Nil			
2.3	Earth Wire			Nil			Nil			
2.4	Insulators			Nil			Nil			
2.5	Hardware Fittings			Nil			Nil			
2.6	Conductor & Earth wire accessories			Nil			Nil			
2.7	Spares			Nil			Nil			
2.8	Erection, Stringing & Civil works including foundation			Nil			Nil			
	<b>Total Transmission Lines material</b>			Nil			Nil			
3.0	Taxes and Duties			Nil			Nil			
3.1	Custom Duty			Nil			Nil			
3.2	Other Taxes & Duties			Nil			Nil			
	<b>Total Taxes &amp; Duties</b>			Nil			Nil			
	<b>Total -Transmission lines</b>			Nil			Nil			
B.	<b>SUBSTATIONS</b>									
4.0	Preliminary works & land			Nil			Nil			
4.1	Design & Engineering			Nil			Nil			
4.2	Land			Nil			Nil			
4.3	Site preparation			Nil			Nil			
	<b>Total Preliminary works &amp; land</b>			Nil			Nil			
5.0	Civil Works									



Sl. No. (1)	Cost in Rs. Lakh										
	As per Original Estimates (3)				Actual Capital Expenditure			Liabilities/ Provisions (5)	Variation (6=3-4-5)	Reasons for Variation (7)	Admitted Cost (8)
		Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount				
8.00	Taxes and Duties										
8.1	Custom Duty										
8.2	Other Taxes & Duties										
8.3	Total Taxes & Duties										
	Total (Sub-station)										
C	Communication System										
9.1	Preliminary Works										
9.2	Communication System equipment's										
9.3	Taxes and Duties										
	Total (Communication System)										
10.0	<b>Construction and pre-commissioning expenses</b>										
10.1	Site supervision & site administration etc.										
10.2	Tools and Plants										
10.3	construction Insurance										
10.4	Erection works			31.79			16.68		15.11	Due to variation in quantity of executed work as per site requirement and also due to difference in rates received through open tender invited by Corporation, following all rules and regulations and order have been placed to the lowest bidder.	
	<b>Total Construction and pre commissioning expenses</b>			<b>31.79</b>			<b>16.68</b>		<b>15.11</b>		
11.0	Overheads										
11.1	Establishment			146.93							

Sl. No. (1)	Cost in Rs. Lakh										
	As per Original Estimates (3)				Actual Capital Expenditure			Liabilities/ Provisions (5)	Variation (6=3-4-5)	Reasons for Variation (7)	Admitted Cost (8)
		Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount				
11.2	Audit & Accounts										
11.3	Contingency			28.53							
	<b>Total Overheads</b>			<b>175.46</b>							
<b>12.0</b>	<b>Cost of Plant &amp; Machinery</b>										
<b>13.0</b>	Capital Cost including Plant & Machinery										
13.1	Interest During Construction (IDC)			64.07							
13.2	Financing Charges (FC)										
13.3	Foreign Exchange Rate Variation (FERV)										
13.4	Hedging Cost										
	<b>Total of IDC, FC, FERV &amp; Hedging Cost</b>			<b>64.07</b>							
	<b>Capital cost including IDC, FC, FERV &amp; Hedging Cost</b>			<b>1190.51</b>			<b>560.995</b>		<b>389.99</b>		

**Note:**

1. In case of cost variation, a detailed note giving reasons of such variation should be submitted clearly indicating whether such cost over- run was beyond the control of the transmission licensee.
2. Separate details of free hold/lease hold land should be submitted.

**Petitioner**

Element wise Break-up of Project/Asset/Element Cost for Transmission System or Communication System

Name of Scheme: Augmentation of 220 KV S/s Pantnagar after installation of 2X50 MVA, 220/33 KV T/Fs and construction of 02 nos. 220 KV bays and 02 nos. 33 KV bays.

Sr. No. (1)	Cost in Lakh									
	As per Original Estimates (3)			Actual Capital Expenditure			Liabilities/ Provisions (5)	Variation (6=3-4-5)	Reasons for Variation (7)	Admitted Cost (8)
	Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount				
<b>A</b>	<b>TRANSMISSION LINE</b>									
1.0	Preliminary works									
1.1	Design & Engineering									
1.2	Preliminary Investigation, Right of way, forest clearance, PTCC, general civil works etc.									
1.3	Total Preliminary works									
2.0	Transmission Lines material									
2.1	Towers Steel									
2.2	Conductor									
2.3	Earth Wire									
2.4	Insulators									
2.5	Hardware Fittings									
2.6	Conductor & Earth wire accessories									
2.7	Spares									
2.8	Erection, Stringing & Civil works including foundation									
	<b>Total Transmission Lines material</b>									
3.0	Taxes and Duties									
3.1	Custom Duty									
3.2	Other Taxes & Duties									
	<b>Total Taxes &amp; Duties</b>									
	<b>Total -Transmission lines</b>									
<b>B.</b>	<b>SUBSTATIONS</b>									
4.0	Preliminary works & land									
4.1	Design & Engineering									
4.2	Land									
4.3	Site preparation									
	<b>Total Preliminary works &amp; land</b>									
5.0	Civil Works									
5.1	Control Room & Office Building including HVAC									
5.2	Township & Colony									
5.3	Roads and Drainage									
5.4	Foundation for structures									
5.5	Misc. civil works									
	<b>Total Civil Works</b>									
			116.09			139.23		The quantities of different items has varied according to the requirement at site. However the variation in total capital cost of the project is also due to difference in estimated rates of supplies and works and rate		
			<b>116.09</b>			<b>139.23</b>	23.14			

Sr. No. (1)	Cost in Lakh									
	As per Original Estimates (3)			Actual Capital Expenditure			Liabilities/ Provisions (5)	Variation (6=3-4-5)	Reasons for Variation (7)	Admitted Cost (8)
	Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount				
6.0	<b>Substation Equipments</b>									received through open tender.
6.1	Switchgear (CT,PT, Circuit Breaker, Isolator etc)		131.42			109.83				
6.2	Transformers (2X50MVA T/F)		864.00			805.39				
6.3	Compensating Equipment( Reactor, SVCs etc)									
6.4	Control , Relay & Protection Panel		41.00			28.00				
6.5	PLCC									
6.6	HVDC package									
6.7	Bus Bars/ conductors/Insulators		45.13			76.93				
6.8	Outdoor lighting									
6.9	Emergency D.G. Set									
6.1	Grounding System		5.04			1.98				
6.11	Structure for switchyard		40.2			161.22				
6.12	Terminal Kiosk		1.50			1.34				
6.13	Line trap									
	<b>Total Substation Equipments</b>		<b>1128.29</b>			<b>1184.69</b>		56.4		The quantities of different items has varied according to the requirement at site. However the variation in total capital cost of the project is also due to difference in estimated rates of supplies and works and rate received through open tender.
<b>7.00</b>	<b>Spares</b>									
8.00	Taxes and Duties									
8.1	Custom Duty									
8.2	Other Taxes & Duties									
8.3	Total Taxes & Duties									
	Total (Sub-station)									
C	Communication System									
9.1	Preliminary Works									
9.2	Communication System equipment's									
9.3	Taxes and Duties									
	Total (Communication System)									
10.0	<b>Construction and pre-commissioning expenses</b>					32.62				
10.1	Site supervision & site administration etc.									
10.2	Tools and Plants									
10.3	construction Insurance									
10.4	Erection work									
	<b>Total Construction and pre commissioning expenses</b>		<b>32.62</b>			<b>13.34</b>				
11.0	Overheads					197.3				
11.1	Establishment									
11.2	Audit & Accounts									
11.3	Contingency					38.31				
	<b>Total Overheads</b>		<b>235.61</b>							
<b>12.0</b>	<b>Cost of Plant &amp; Machinery</b>									
<b>13.0</b>	Capital Cost including Plant & Machinery									
13.1	Interest During Construction (IDC)									

Sr. No. (1)	Cost in Lakh									
	As per Original Estimates (3)			Actual Capital Expenditure			Liabilities/ Provisions (5)	Variation (6=3-4-5)	Reasons for Variation (7)	Admitted Cost (8)
	Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount				
13.2	Financing Charges (FC)									
13.3	Foreign Exchange Rate Variation (FERV)									
13.4	Hedging Cost									
	<b>Total of IDC, FC, FERV &amp; Hedging Cost</b>					<b>68.80</b>				
	<b>Capital cost including IDC, FC, FERV &amp; Hedging Cost</b>					<b>1581.41</b>			<b>1337.26</b>	

Note:

1. The work is in progress at present. The actual capital expenditure details are till 10th October 2016.

Petitioner

Element wise Break-up of Project/Asset/Element Cost for Transmission System or Communication System

Name of Scheme: Construction of 01 no. 132 KV incoming bay at 132 KV substation Sitarganj from 220 KV substation, PGCIL Sitarganj

Sr. No. (1)	Cost in Lakh									
	As per Original Estimates (3)			Actual Capital Expenditure			Liabilities/ Provisions (5)	Variation (6=3-4-5)	Reasons for Variation (7)	Admitted Cost (8)
	Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount				
A	TRANSMISSION LINE									
1.0	Preliminary works									
1.1	Design & Engineering									
1.2	Preliminary Investigation, Right of way, forest clearance, PTCC, general civil works etc.									
1.3	Total Preliminary works									
2.0	Transmission Lines material									
2.1	Towers Steel									
2.2	Conductor									
2.3	Earth Wire									
2.4	Insulators									
2.5	Hardware Fittings									
2.6	Conductor & Earth wire accessories									
2.7	Spares									
2.8	Erection, Stringing & Civil works including foundation									
	<b>Total Transmission Lines material</b>									
3.0	Taxes and Duties									
3.1	Custom Duty									
3.2	Other Taxes & Duties									
	<b>Total Taxes &amp; Duties</b>									
	<b>Total -Transmission lines</b>									
B.	SUBSTATIONS									
4.0	Preliminary works & land									
4.1	Design & Engineering									
4.2	Land									
4.3	Site preparation									
	<b>Total Preliminary works &amp; land</b>									
5.0	Civil Works									
5.1	Control Room & Office Building including HVAC									
5.2	Township & Colony									
5.3	Roads and Drainage									
5.4	Foundation for structures									
5.5	Misc. civil works									
	<b>Total Civil Works</b>									
6.0	<b>Substation Equipments</b>									
6.1	Switchgear (CT,PT, Circuit Breaker, Isolator etc)									
6.2	Transformers (2X80MVA T/F)									
6.3	Compensating Equipment( Reactor, SVCs etc)									

The quantities of different items has varied according to the requirement at site. Supply of various equipmentst was not covered in estimate as the same were previosult suuplied separately by department. The variation in total capital cost of the project is also due to difference in estimated rates of supplies and works and rate received

Sr. No. (1)	Cost in Lakh									
	As per Original Estimates (3)			Actual Capital Expenditure			Liabilities/ Provisions (5)	Variation (6=3-4-5)	Reasons for Variation (7)	Admitted Cost (8)
	Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount				
6.4	Control, Relay & Protection Panel		9.9			10.10		and rate received through open tender.  The quantities of different items has varied according to the requirement at site. Supply of various equipmentst was not covered in estimate as the same were previousult suuplied separately by department. The variation in total capital cost of the project is also due to difference in estimated rates of supplies and works and rate received through open tender.		
6.5	PLCC									
6.6	HVDC package									
6.7	Bus Bars/ conductors/Insulators		13.668			12.11				
6.8	Outdoor lighting									
6.9	Emergency D.G. Set									
6.10	Grounding System					0.48				
6.11	Structure for switchyard		17.6			17.3				
6.12	Terminal Kiosk									
6.13	Line trap									
	<b>Total Substation Equipments</b>		<b>41.168</b>			<b>67.54</b>				
<b>7.00</b>	<b>Spares</b>									
8.00	Taxes and Duties									
8.1	Custom Duty									
8.2	Other Taxes & Duties									
8.3	Total Taxes & Duties									
	Total (Sub-station)									
C	Communication System									
9.1	Preliminary Works									
9.2	Communication System equipment's									
9.3	Taxes and Duties									
	Total (Communication System)									
10.0	<b>Construction and pre-commissioning expenses</b>		2.0			5.56				
10.1	Site supervision & site administration etc.									
10.2	Tools and Plants									
10.3	construction Insurance									
10.4	Erection work									
	<b>Total Construction and pre commissioning expenses</b>		<b>2.0</b>			<b>5.56</b>				
11.0	Overheads									
11.1	Establishment									
11.2	Audit & Accounts									
11.3	Contingency									
	<b>Total Overheads</b>									
<b>12.0</b>	<b>Cost of Plant &amp; Machinery</b>									
<b>13.0</b>	Capital Cost including Plant & Machinery									
13.1	Interest During Construction (IDC)									
13.2	Financing Charges (FC)									
13.3	Foreign Exchange Rate Variation (FERV)									
13.4	Hedging Cost									

Sr. No. (1)	Cost in Lakh									
	As per Original Estimates (3)			Actual Capital Expenditure			Liabilities/ Provisions (5)	Variation (6=3-4-5)	Reasons for Variation (7)	Admitted Cost (8)
	Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount				
	Total of IDC, FC, FERV & Hedging Cost									
	Capital cost including IDC, FC, FERV & Hedging Cost					48.27			85.01	

**Note:**

1. In case of cost variation, a detailed note giving reasons of such variation should be submitted clearly indicating whether such cost over- run was beyond the control of the transmission licensee.
2. Separate details of free hold/lease hold land should be submitted.

**Petitioner**

Element wise Break-up of Project/Asset/Element Cost for Transmission System or Communication System

Name of Scheme: Development of switchyard including dismantling of chain link fencing and re-erection for 2x50, 220/33 KV T/Fs at 220 KV substation, Pantnagar

Sr. No. (1)	Cost in Lakh									
	As per Original Estimates (3)			Actual Capital Expenditure			Liabilities/ Provisions (5)	Variation (6=3-4-5)	Reasons for Variation (7)	Admitted Cost (8)
	Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount				
A	TRANSMISSION LINE									
1.0	Preliminary works									
1.1	Design & Engineering									
1.2	Preliminary Investigation, Right of way, forest clearance, PTCC, general civil works etc.									
1.3	Total Preliminary works									
2.0	Transmission Lines material									
2.1	Towers Steel									
2.2	Conductor									
2.3	Earth Wire									
2.4	Insulators									
2.5	Hardware Fittings									
2.6	Conductor & Earth wire accessories									
2.7	Spares									
2.8	Erection, Stringing & Civil works including foundation									
	<b>Total Transmission Lines material</b>									
3.0	Taxes and Duties									
3.1	Custom Duty									
3.2	Other Taxes & Duties									
	<b>Total Taxes &amp; Duties</b>									
	<b>Total -Transmission lines</b>									
B.	SUBSTATIONS									
4.0	Preliminary works & land									
4.1	Design & Engineering									
4.2	Land									
4.3	Site preparation									
	<b>Total Preliminary works &amp; land</b>									
5.0	Civil Works									
5.1	Control Room & Office Building including HVAC									
5.2	Township & Colony									
5.3	Roads and Drainage									
5.4	Foundation for structures									
5.5	Misc. civil works									
			36.79			37.50		0.71	The quantities of different items has varied according to the requirement at site. However the variation in total	

Sr. No. (1)	Cost in Lakh									
	As per Original Estimates (3)			Actual Capital Expenditure			Liabilities/ Provisions (5)	Variation (6=3-4-5)	Reasons for Variation (7)	Admitted Cost (8)
	Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount				
	<b>Total Civil Works</b>					<b>36.79</b>				
						<b>37.50</b>		0.71	capital cost of the project is also due to difference in estimated rates of supplies and works and rate received through open tender.	
6.0	<b>Substation Equipments</b>									
6.1	Switchgear (CT,PT, Circuit Breaker, Isolator etc)									
6.2	Transformers (2X80MVA T/F)									
6.3	Compensating Equipment( Reactor, SVCs etc)									
6.4	Control , Relay & Protection Panel									
6.5	PLCC									
6.6	HVDC package									
6.7	Bus Bars/ conductors/Insulators									
6.8	Outdoor lighting									
6.9	Emergency D.G. Set									
6.1	Grounding System									
6.11	Structure for switchyard									
6.12	Terminal Kiosk									
6.13	Line trap									
	<b>Total Substation Equipments</b>									
<b>7.00</b>	<b>Spares</b>									
8.00	Taxes and Duties									
8.1	Custom Duty									
8.2	Other Taxes & Duties									
8.3	Total Taxes & Duties									
	Total (Sub-station)									
C	Communication System									
9.1	Preliminary Works									
9.2	Communication System equipment's									
9.3	Taxes and Duties									
	Total									
	(Communication System)									
10.0	<b>Construction and pre-commissioning expenses</b>									
10.1	Site supervision & site administration etc.									
10.2	Tools and Plants									
10.3	construction Insurance									
10.4	Erection work									
	<b>Total Construction and pre commissioning expenses</b>									
11.0	Overheads									
11.1	Establishment									
11.2	Audit & Accounts									
11.3	Contingency									
	<b>Total Overheads</b>									
<b>12.0</b>	<b>Cost of Plant &amp; Machinery</b>									

Sr. No. (1)	Cost in Lakh									
	As per Original Estimates (3)			Actual Capital Expenditure			Liabilities/ Provisions (5)	Variation (6=3-4-5)	Reasons for Variation (7)	Admitted Cost (8)
	Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount				
13.0	Capital Cost including Plant & Machinery									
13.1	Interest During Construction (IDC)									
13.2	Financing Charges (FC)									
13.3	Foreign Exchange Rate Variation (FERV)									
13.4	Hedging Cost									
	<b>Total of IDC, FC, FERV &amp; Hedging Cost</b>									
	<b>Capital cost including IDC, FC, FERV &amp; Hedging Cost</b>									
			36.79			37.50		0.71		

**Note:**

1. In case of cost variation, a detailed note giving reasons of such variation should be submitted clearly indicating whether such cost over- run was beyond the control of the transmission licensee.
2. Separate details of free hold/lease hold land should be submitted.

**Petitioner**

## Element wise Break-up of Project/Asset/Element Cost for Transmission System or Communication System

(Figures in Rs Crore)

For IC Capacity of 132KV S/S Ranikhet from 2x3x5MVA to 20+2x3x5MVA

Sl. No. (1)	Cost in Rs. Lakh										
	As per Original Estimates (3)			Actual Capital Expenditure as on COD (4)			Liabilities/ Provisions (5)	Variation (6=3-4-5)	Reasons for Variation (7)	Admitted Cost (8)	
		Quantity	Rate	Estimated Amount	Quantity	Rate					Estimated Amount
A	TRANSMISSION LINE										
1.0	Preliminary works										
1.1	Design & Engineering										
1.2	Preliminary Investigation, Right of way, forest clearance, PTCC, general civil works etc.										
1.3	Total Preliminary works										
2.0	Transmission Lines material										
2.1	Towers Steel										
2.2	Conductor										
2.3	Earth Wire										
2.4	Insulators										
2.5	Hardware Fittings										
2.6	Conductor & Earth wire accessories										
2.7	Spares										
2.8	Erection, Stringing & Civil works including foundation										
	<b>Total Transmission Lines</b>										
3.0	Taxes and Duties										
3.1	Custom Duty										
3.2	Other Taxes & Duties										
	<b>Total Taxes &amp; Duties</b>										
	<b>Total -Transmission lines</b>										
B.	<b>SUBSTATIONS</b>										
4.0	Preliminary works & land										
4.1	Design & Engineering										
4.2	Land										
4.3	Site preparation										



Sl. No. (1)	As per Original Estimates (3)			Actual Capital Expenditure as on COD (4)			Liabilities/ Provisions (5)	Variation (6=3-4-5)	Reasons for Variation (7)	Admitted Cost (8)
		Quantity	Rate	Estimated Amount	Quantity	Rate				
10.0	<b>Construction and pre-commissioning expenses</b>									
10.1	Site supervision & site administration etc.									
10.2	Tools and Plants									
10.3	construction Insurance									
10.4	Erection works			22.38		23.56		1.18		
	<b>Total Construction and pre commissioning expenses</b>			<b>22.38</b>		<b>23.56</b>		<b>1.18</b>		
11.0	Overheads									
11.1	Establishment									
11.2	Audit & Accounts									
11.3	Contingency			4.3						
	<b>Total Overheads</b>									
<b>12.0</b>	<b>Cost of Plant &amp; Machinery</b>									
<b>13.0</b>	Capital Cost including Plant & Machinery									
13.1	Interest During Construction (IDC)									
13.2	Financing Charges (FC)									
13.3	Foreign Exchange Rate Variation (FERV)									
13.4	Hedging Cost									
	<b>Total of IDC, FC, FERV &amp; Hedging Cost</b>									
	<b>Capital cost including IDC, FC, FERV &amp; Hedging Cost</b>			<b>145.51</b>		<b>119.74</b>		<b>-25.77</b>		

**Note:**

1. In case of cost variation, a detailed note giving reasons of such variation should be submitted clearly indicating whether such cost over- run was beyond the control of the transmission licensee.
2. Separate details of free hold/lease hold land should be submitted.

**Petitioner**

# Power Transmission Corporation of Uttarakhand Ltd

**Garhwal O&M**

Form 9.5

Figure in Rs. Lakh

**Element Wise Break-up of Project / Asset / Element Cost for Transmission System or Communication System**

**Name of Scheme -Installation of 1 no. 40MVA T/F & Construction of 01 no. 33Kv Bay at 132kv S/s Bhupatwala**

S.No.	Cost in Rs. Lakh								
	As per original Estimates			Actual Capital Expenditure			Liabilities/P rovisions	Variation	Admitted Cost
	Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount			
<b>A.</b>	<b>TRANSMISSION LINE</b>					NIL		NIL	
1	Preliminary Works					NIL		NIL	
1.1	Design & Engineering					NIL		NIL	
1.2	Preliminary investigation . Right of way forest clearance PTCC, general civil works etc .					NIL		NIL	
	Total Preliminary Works					NIL		NIL	
						NIL		NIL	
2	Transmission line material					NIL		NIL	
2.1	Towers Steel					NIL		NIL	
2.2	Conductor					NIL		NIL	
2.3	Earth Wire					NIL		NIL	
2.4	Insulators					NIL		NIL	
2.5	Hardware Fittings					NIL		NIL	
2.6	Conductor & Earth Wire Accessories					NIL		NIL	
2.7	Spares					NIL		NIL	
2.8	Erection, Stringing & Civil works including foundation					NIL		NIL	
	Total Transmission Lines materials					NIL		NIL	
						NIL		NIL	
3	Taxes And Duties					NIL		NIL	
3.1	Custom Duty					NIL		NIL	
3.2	Other Taxes & Duties					NIL		NIL	
	Total Taxes & Duties					NIL		NIL	
						NIL		NIL	
	Total - Transmission lines					NIL		NIL	
						NIL		NIL	
<b>B.</b>	<b>SUBSTATIONS</b>					NIL		NIL	
4	Preliminary works & land					NIL		NIL	
4.1	Design & Engineering					NIL		NIL	

S.No.	Cost in Rs. Lakh								
	As per original Estimates			Actual Capital Expenditure			Liabilities/P rovisions	Variation	Admitted Cost
	Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount			
4.2	Land		NIL			NIL		NIL	
4.3	Site Preparation		NIL			NIL		NIL	
	Total Preliminary works & land		NIL			NIL		NIL	
			NIL			NIL		NIL	
5	Civil Works		NIL			NIL		NIL	
5.1	Control Room & Office Building including HVAC		NIL			NIL		NIL	
5.2	Township & Colony		NIL			NIL		NIL	
5.3	Roads & Drainage		NIL			NIL		NIL	
5.4	Foundation for structures		21.6			41.24		19.64	
5.5	Misc Civil works		25.5			15.29		-10.21	
	Total Civil Works		<b>47.1</b>			<b>56.53</b>		9.43	
			NIL			NIL		NIL	
6	Substation Equipments		NIL			NIL		NIL	
6.1	Switchgear (C.T.,P.T, C.B., Isolator etc.)		88.02			133.98		45.96	
6.2	Transformers		328.31			306.77		-21.54	
6.3	Compensating Equipment ( Reactor SVCs etc.)		NIL			NIL		NIL	
6.4	Control Relays & Protection panels		16.62	1 + 1		18.85		2.23	
6.5	PLCC		NIL			NIL		NIL	
6.6	HVDC Package		NIL			NIL		NIL	
6.7	Bus Bars /Conductors / Insulators		18.44			31.73		13.29	
6.8	Outdoor lighting		4.8			3.35		-1.45	
6.9	Emergency D.G. Set		NIL			NIL		NIL	
6.1	Grounding System		NIL			NIL		NIL	
6.11	Structure for Switchyard		16.48	21.57		19.34		2.86	
6.12	Total Substation Equipments		<b>472.67</b>			<b>514.02</b>		41.35	
6.13	Spares		NIL			NIL		NIL	
			NIL			NIL		NIL	
7	Taxes and Duties		NIL			NIL		NIL	
7.1	Custom Duty		NIL			NIL		NIL	
7.2	Other Taxes and Duties		NIL			NIL		NIL	
7.3	Total Taxes and Duties		NIL			NIL		NIL	
			NIL			NIL		NIL	
	Total Substation		<b>511.22</b>			<b>563.89</b>		52.67	
			NIL			NIL		NIL	
<b>C.</b>	Communication System		NIL			NIL		NIL	
8	Preliminary Works		NIL			NIL		NIL	
8.1	Communication System Equipments		NIL			NIL		NIL	
8.2	Taxes and Duties		NIL			NIL		NIL	
	Total Communication System		NIL			NIL		NIL	

S.No.	Cost in Rs. Lakh								
	As per original Estimates			Actual Capital Expenditure			Liabilities/P rovisions	Variation	Admitted Cost
	Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount			
			NIL			NIL		NIL	
9	Construction and Pre - Commissioning expenses		NIL			NIL		NIL	
9.1	Site Supervision & site administration etc.		NIL			NIL		NIL	
9.2	Tools and Plants		NIL			NIL		NIL	
9.3	Construction insurance		NIL			NIL		NIL	
9.4	Erection work		14.67			16.28		1.61	
	Total Construction and Pre commissioning expenses		<b>14.67</b>			<b>16.28</b>		1.61	
			NIL			NIL		NIL	
10	Overheads		NIL			NIL		NIL	
10.1	Establishment		NIL			NIL		NIL	
10.2	Audit & Accounts		NIL			NIL		NIL	
10.3	Contingency		NIL			NIL		NIL	
10.4	Total Overheads		NIL			NIL		NIL	
			NIL			NIL		NIL	
11	Cost of Plant & Machinery		NIL			NIL		NIL	
			NIL			NIL		NIL	
12	Capital cost including Plant & Machinery		NIL			NIL		NIL	
12.1	Interest During construction (IDC)		NIL			NIL		NIL	
12.2	Financing Charges (FC)		NIL			NIL		NIL	
12.3	Foreign Exchange Rate Variation (FERV)		NIL			NIL		NIL	
12.4	Hedging Cost		NIL			NIL		NIL	
12.5	Total of IDC,FC,FERV & Hedging cost		NIL			NIL		NIL	
	Capital Cost including IDC,FC,FERV & Hedging cost		<b>1045.66</b>			<b>1150.72</b>		<b>105.06</b>	

**Note:**

1. In case of cost Variation , a Detailed note giving reasons of such variation should be submitted clearly indicated whether such cost over - run was beyond the control of the transmission licensee

Petitioner

# Power Transmission Corporation of Uttarakhand Ltd

## Garhwal O&M

Form 9.5

Figure in Rs. Lakh

Element Wise Break-up of Project / Asset / Element Cost for Transmission System or Communication System

Name of Scheme -Installation of 1 no. 40MVA T/F at 132kv S/s Jwalapur

S.No.	Cost in Rs. Lakh								
	As per original Estimates			Actual Capital Expenditure			Liabilities/P rovisions	Variation	Admitted Cost
	Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount			
<b>A.</b>	<b>TRANSMISSION LINE</b>								
1	Preliminary Works								
1.1	Design & Engineering								
1.2	Preliminary investigation . Right of way forest clearance PTCC, general civil works etc .								
	Total Preliminary Works								
2	Transmission line material								
2.1	Towers Steel								
2.2	Conductor								
2.3	Earth Wire								
2.4	Insulators								
2.5	Hardware Fittings								
2.6	Conductor & Earth Wire Accessories								
2.7	Spares								
2.8	Erection, Stringing & Civil works including foundation								
	Total Transmission Lines materials								
3	Taxes And Duties								
3.1	Custom Duty								
3.2	Other Taxes & Duties								
	Total Taxes & Duties								
	Total - Transmission lines								
<b>B.</b>	<b>SUBSTATIONS</b>								
4	Preliminary works & land								



S.No.	Cost in Rs. Lakh								
	As per original Estimates			Actual Capital Expenditure			Liabilities/Provisions	Variation	Admitted Cost
	Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount			
	Total Communication System								
9	Construction and Pre - Commissioning expenses								
9.1	Site Supervision & site administration etc.								
9.2	Tools and Plants								
9.3	Construction insurance								
9.4	Erection work								
	Total Construction and Pre commissioning expenses					<b>8.51</b>		<b>8.46</b>	<b>-0.05</b>
10	Overheads								
10.1	Establishment								
10.2	Audit & Accounts								
10.3	Contingency								
10.4	Total Overheads								
11	Cost of Plant & Machinery								
12	Capital cost including Plant & Machinery								
12.1	Interest During construction (IDC)								
12.2	Financing Charges (FC)								
12.3	Foreign Exchange Rate Variation (FERV)								
12.4	Hedging Cost								
12.5	Total of IDC,FC,FERV & Hedging cost								
	Capital Cost including IDC,FC,FERV & Hedging cost					<b>395.09</b>		<b>416.67</b>	<b>21.58</b>

**Note:**

1. In case of cost Variation , a Detailed note giving reasons of such variation should be submitted clearly indicated whether such cost over - run was beyond the control of the transmission licensee

Petitioner

**Power Transmission Corporation of Uttarakhand Ltd**  
**( O&M) Division roorkee**

Form 9.5

Garhwal O&M

Figure in Rs. Lakh

Element Wise Break-up of Project / Asset / Element Cost for Transmission System or Communication System

Name of Scheme - Replacement of 01 No defected T/F by new 40MVA132/33KV T/F at 132 KV substation Roorkee

S.No.	Cost in Rs. Lakh								
	As per original Estimates			Actual Capital Expenditure			Liabilities/ Provisions	Variation	Admitted Cost
	Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount			
<b>A.</b>	<b>TRANSMISSION LINE</b>								
1	Preliminary Works								
1.1	Design & Engineering								
1.2	Preliminary investigation . Right of way forest clearance PTCC, general civil works etc .								
	Total Preliminary Works								
2	Transmission line material								
2.1	Towers Steel								
2.2	Conductor								
2.3	Earth Wire								
2.4	Insulators								
2.5	Hardware Fittings								
2.6	Conductor & Earth Wire Accessories								
2.7	Spares								
2.8	Erection, Stringing & Civil works including foundation								
	Total Transmission Lines materials								
3	Taxes And Duties								
3.1	Custom Duty								
3.2	Other Taxes & Duties								
	Total Taxes & Duties								
	Total - Transmission lines								
<b>B.</b>	<b>SUBSTATIONS</b>								
4	Preliminary works & land								
4.1	Design & Engineering								



S.No.	Cost in Rs. Lakh								
	As per original Estimates			Actual Capital Expenditure			Liabilities/ Provisions	Variation	Admitted Cost
	Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount			
	Total Communication System								
9	Construction and Pre - Commissioning expenses								
9.1	Site Supervision & site administration etc.								
9.2	Tools and Plants								
9.3	Construction insurance								
9.4	Erection work					16.815			
	Total Construction and Pre commissioning expenses					<b>16.815</b>			
10	Overheads								
10.1	Establishment								
10.2	Audit & Accounts								
10.3	Contingency								
10.4	Total Overheads								
11	Cost of Plant & Machinery								
12	Capital cost including Plant & Machinery								
12.1	Interest During construction (IDC)					0			
12.2	Financing Charges (FC)								
12.3	Foreign Exchange Rate Variation (FERV)								
12.4	Hedging Cost								
12.5	Total of IDC,FC,FERV & Hedging cost								
	Capital Cost including IDC,FC,FERV & Hedging cost					<b>315.24</b>	<b>0</b>		

**Note:**

1. In case of cost Variation , a Detailed note giving reasons of such variation should be submitted clearly indicated whether such cost over - run was  
Petitioner

# Power Transmission Corporation of Uttarakhand Ltd

Form 9.5

Garhwal O&M

Figure in Rs. Lakh

Element Wise Break-up of Project / Asset / Element Cost for Transmission System or Communication System

Name of Scheme -Installation of 1 no. 50 MVA T/F at 220 kv S/s SIDCUL, Haridwar

S.No.	Cost in Rs. Lakh								
	As per original Estimates			Actual Capital Expenditure			Liabilities/ Provisions	Variation	Admitted Cost
	Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount			
<b>A.</b>	<b>TRANSMISSION LINE</b>								
1	Preliminary Works								
1.1	Design & Engineering								
1.2	Preliminary investigation . Right of way forest clearance PTCC, general civil works etc .								
	Total Preliminary Works								
2	Transmission line material								
2.1	Towers Steel								
2.2	Conductor								
2.3	Earth Wire								
2.4	Insulators								
2.5	Hardware Fittings								
2.6	Conductor & Earth Wire Accessories								
2.7	Spares								
2.8	Erection, Stringing & Civil works including foundation								
	Total Transmission Lines materials								
3	Taxes And Duties								
3.1	Custom Duty								
3.2	Other Taxes & Duties								
	Total Taxes & Duties								
	Total - Transmission lines								
<b>B.</b>	<b>SUBSTATIONS</b>								
4	Preliminary works & land								
4.1	Design & Engineering								



S.No.	Cost in Rs. Lakh								
	As per original Estimates			Actual Capital Expenditure			Liabilities/ Provisions	Variation	Admitted Cost
	Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount			
9	Construction and Pre - Commissioning expenses								
9.1	Site Supervision & site administration etc.								
9.2	Tools and Plants								
9.3	Construction insurance								
9.4	Erection work								
	Total Construction and Pre commissioning expenses								
10	Overheads								
10.1	Establishment								
10.2	Audit & Accounts								
10.3	Contingency								
10.4	Total Overheads								
11	Cost of Plant & Machinery								
12	Capital cost including Plant & Machinery								
12.1	Interest During construction (IDC)								
12.2	Financing Charges (FC)								
12.3	Foreign Exchange Rate Variation (FERV)								
12.4	Hedging Cost								
12.5	Total of IDC,FC,FERV & Hedging cost								
	Capital Cost including IDC,FC,FERV & Hedging cost								

**Note:**

1. In case of cost Variation , a Detailed note giving reasons of such variation should be submitted clearly indicated whether such cost over - run was beyond the control of the transmission licensee

Petitioner

**Augmentation of 132KV S/S Srinagar** from 15MVA To 20MVA T/F by procurement , erection & commissioning of 01 no 132/66KV 20MVA T/F.

**Form: 9.5**

**Garhwal O&M**

**Element wise Break-up of Project/Asset/Element Cost for Transmission System or Communication System**

Sl. No. (1)	Cost in Rs. Lakh									
	As per Original Estimates (3)			Actual Capital Expenditure as on COD (4)			Liabilities/ Provisions (5)	Variation (6=3-4-5)	Reasons for Variation (7)	Admitted Cost (8)
	Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount				
A	TRANSMISSION LINE									
1.0	Preliminary works									
1.1	Design & Engineering									
1.2	Preliminary Investigation, Right of way, forest clearance, PTCC, general civil works etc.									
1.3	Total Preliminary works									
2.0	Transmission Lines material									
2.1	Towers Steel									
2.2	Conductor									
2.3	Earth Wire									
2.4	Insulators									
2.5	Hardware Fittings									
2.6	Conductor & Earth wire accessories									
2.7	Spares									
2.8	Erection, Stringing & Civil works including foundation									
	<b>Total Transmission Lines material</b>									
3.0	Taxes and Duties									
3.1	Custom Duty									
3.2	Other Taxes & Duties									
	<b>Total Taxes &amp; Duties</b>									
	<b>Total -Transmission lines</b>									
B.	SUBSTATIONS									
4.0	Preliminary works & land									
4.1	Design & Engineering									
4.2	Land									
4.3	Site preparation									
	<b>Total Preliminary works &amp; land</b>									
5.0	Civil Works									



Sl. No. (1)	Cost in Rs. Lakh									
	As per Original Estimates (3)			Actual Capital Expenditure as on COD (4)			Liabilities/ Provisions (5)	Variation (6=3-4-5)	Reasons for Variation (7)	Admitted Cost (8)
	Quantity	Rate	Estimated Amount	Quantity	Rate	Estimated Amount				
10.0	<b>Construction and pre-commissioning expenses</b>									
10.1	Site supervision & site administration etc.									
10.2	Tools and Plants									
10.3	construction Insurance									
	<b>Total Construction and pre commissioning expenses</b>									
11.0	Overheads									
11.1	Establishment									
11.2	Audit & Accounts									
11.3	Contingency									
	<b>Total Overheads</b>									
12.0	<b>Cost of Plant &amp; Machinery</b>									
13.0	Capital Cost including Plant & Machinery									
13.1	Interest During Construction (IDC)									
13.2	Financing Charges (FC)									
13.3	Foreign Exchange Rate Variation (FERV)									
13.4	Hedging Cost									
	<b>Total of IDC, FC, FERV &amp; Hedging Cost</b>									
	<b>Capital cost including IDC, FC, FERV &amp; Hedging Cost</b>									

**Note:**

1. In case of cost variation, a detailed note giving reasons of such variation should be submitted clearly indicating whether such cost over- run was beyond the control of the transmission licensee.
2. Separate details of free hold/lease hold land should be submitted.

Petitioner



Sr. No.	Name/No. of Construction/supply/service package	Scope of works1 (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. Cr./Lakh).	Firm or With Escalation in prices	Actual expenditure till the completion or up to COD whichever is earlier (Rs. Lakh)	Taxes & Duties and IEDC (Rs. Lakh)	IDC, FC, FERV & Hedging cost (Rs. Lakh)	Sub-Total (Rs. Lakh)	Remark
10	Supply of Material for OPGW connectivity in PTCUL under Phase-II of ULDC Projects.	Supply	DCB	2	01.08.2015	01.08.2015	24 Months from the date of LOA (As per agreement)	31.21 Cr.						
11	Supply & Commissioning of Numerical Relays in Kumaon Zone	Supply & Commissioning	DCB	3	29.09.2015	29.09.2015	6 Months from the date of Award	43.72 Lacs						
12	Supply of material for construction of 220 Kv Bay & 132 KV Bay for 160 MVA T/F (220/132 KV) at 220 KV S/s Rishikesh.	Supply	DCB	3	12.10.2015	12.10.2015	5 months from the date of LOA (As per agreement)	1.97 Cr.						
13	Construction of 220 KV S/C Line Piran Kallyar (220 KV S/s) to Puhana (400 KV S/s) PGCIL on D/C Line	Construction	DCB	2	05.12.2015	05.12.2015	11 months from the date of LOA (As per agreement)	6.00 Cr.						
14	Construction of 03 nos. 33 KV Bays ( 02 nos. 220 KV S/s Pantnagar and 01 no. at 132 KV S/s Kiccha)	Construction	DCB	2	17.12.2015	17.12.2015	6 months from the date of LOA (As per agreement)	1.37 Cr.						
15	Construction of 12 No. Type II (D/S) residences, development of terraces, drains, service roads and water supply mains for colony at 400 KV Substation Srinagar (Garhwal)	Construction	DCB	2	14.01.2016	29.01.2016	15 months from the date of start (As per agreement)	2.48 Cr.						
16	Diversion of 220 KV Rishikesh-Dharasu Line circuit Ist, 220 KV Rishikesh-Chamba Line & 220 KV Rishikesh-Dharasu circuit IInd and Diversion work of 132 KV Rishikesh-Srinagar Line	Construction	DCB	2	05.12.2015	05.12.2015	11 months from the date of LOA (As per agreement)	8.98 Cr.						
17	Construction of 06 Nos. Type III (D/S) Residences, development of terraces, drains and pervice road at 400 KV S/s Srinagar (G)	Construction	DCB	4	13.05.2016	28.05.2016	15 months from the date of start (As per agreement)	1.49 Cr.						
18	Construction of 04 Nos. Type IV (D/S) Residences, development of terraces, drains and pervice road at 400 KV S/s Srinagar (G)	Construction	DCB	3	13.05.2016	28.05.2016	15 months from the date of start (As per agreement)	1.47 Cr.						
19	Upgradation of control & protection system and replacement of different substations equipments (Phase-1) under- Package-A (Supply, Erection and commissioning of various equipments like Control & relays panels, NIFPS, GPS clock etc at various substations of Kumaon & Garhwal Zone)		DCB	3	22.07.2016	22.07.2016	6 months from the date of LOA (As per agreement)	31.17 Cr.						
20	220 KV GIS S/s Ghansali	Construction												Agreement was terminate & Fresh tender has been uploaded.
21	220/33 KV GIS S/s IIP Harrawala, Dehradun	Construction	DCB	3	16.06.2015	16.06.2015	18 Months from the date of LOA (As per agreement)	51 Cr.						
22	220 KV D/C Brahmwari - Srinagar Line (Construction of 220 KV D/C Transmission line on single Zebra(rudrapur-Srinagar via ghansali)	Construction	DCB	3	14.08.2015	14.08.2015	24 Months from the date of LOA (As per agreement)	124.68 Cr.						

Sr. No.	Name/No. of Construction/supply/service package	Scope of works1 (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. Cr./Lakh).	Firm or With Escalation in prices	Actual expenditure till the completion or up to COD whichever is earlier (Rs. Lakh)	Taxes & Duties and IEDC (Rs. Lakh)	IDC, FC, FERV & Hedging cost (Rs. Lakh)	Sub-Total (Rs. Lakh)	Remark
23	LILO of 220 KV Dhauliganga - Pithoragarh PGCIL line at 220 KV S/s Baram (Jauljivi).	Construction	DCB	2	14.10.2015	14.10.2015	15 Months from the date of LOA (As per agreement)	12.66 Cr.						
24	Extension of 220/33 KV Piran Kaliyar S/s to 220/132 KV S/s Piran Kaliyar	Supply of material	DCB	2	12.10.2015	12.10.2015	11 Months from the date of LOA (As per agreement)	6.90 Cr.						
25	Construction of Boundary, protection wall Approach road ,culvert, drain & development work at 220 KV Piran kaliyar.	Construction	DCB	5	03.07.2015	18.07.2015	10 Months from the date of LOA (As per agreement)	2.67 Cr.						
26	Appointment of Consulting firm for preparation and approval of Business Plan & Multiyear Tariff Petition	Appointment of Consulting firm	DCB	2	19.10.2015	19.10.2015	(Package- A&B 3-1/2 Yr) & (Packege C 5 -1/2 Yr) from the date of LOA (As per agreement)	98.04 Lacs						
27	Appointment of chartered Accountant firm / cost accounting firm for internal audit assignment of PTCUL for the FY 2015-16.	Appointment of CA	DCB	8	23.02.2016	23.02.2016	Submission of Qtr 1 , 2 & 3 by 31.03.2016 Submission of Qtr - 4 by 31.05.2016	2.82 Lacs						
28	Construction of 03. Nos Type IV (T/S) & 6 Nos Type III (T/S) Residences and associated development work at 220 KV S/s Dehradun	Construction	DCB	3	02.03.2015	17.03.2015	12 Months from the date of LOA (As per agreement)	2.00 Cr.						
29	Construction of 2 no wall foundation at Tower Location No. 74 B, 75B, at Khatima Sitarganj Line 132 KV S/C Line at River Kailash	Construction	DCB	2	13.03.2015	28.03.2015	06 Months from the date of LOA (As per agreement)	1.47 Cr.						
30	Const. of 04 nos. type-IV residence D/S and development works at 132 KV S/s Kashipur.	Construction	DCB	3	21.08.2015	21.08.2015	9 months from the date of LOA (As per agreement)	1.20 Cr.						
31	Const. of 06 nos. type-III residence D/S and development works at 132 KV S/s Kashipur.	Construction	DCB	2	07.08.2015	07.08.2015	9 months from the date of LOA (As per agreement)	1.15 Cr.						
32	Const. of 12 nos. type-II residence D/S and development works at 132 KV S/s Kashipur.	Construction	DCB	3	30.10.2015	30.10.2015	9 months from the date of LOA (As per agreement)	1.66 Cr.						
33	Const. of roads, drains, water supply mians, earth filling, scooter/cycle stand, garage and land development works at 132 KV S/s Kashipur.	Construction	DCB	3	13.08.2015	13.08.2015	9 months from the date of LOA (As per agreement)	72.92 Lakh						
34	Wire mash crate protection work for tower foundations of LILO of 132 KV Kulha-Majra line near 220 KV S/s Dehradun.	protection	DCB	2	29.10.2015	29.10.2015	6 months from the date of LOA (As per agreement)	1.23 Cr.						
35	Construction of 132 KV S/C line on D/C tower from Ranikhet to Bageshwar	Construction	DCB	3	16.02.2015	16.02.2015	15 months from the date of LOA (As per agreement)	25,49 Cr.						

Sr. No.	Name/No. of Construction/supply/service package	Scope of works1 (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. Cr./Lakh).	Firm or With Escalation in prices	Actual expenditure till the completion or up to COD whichever is earlier (Rs. Lakh)	Taxes & Duties and IEDC (Rs. Lakh)	IDC, FC, FERV & Hedging cost (Rs. Lakh)	Sub-Total (Rs. Lakh)	Remark
36	Construction of 220 KV D/C line on Twin Zebra Conductor from Lakhwar to Dehradun and its LILO at Vyasi.	Construction	DCB	3	11.05.2015	11.05.2015	27 months from the date of LOA (As per agreement)	71.96 Cr.						
37	Construction of 132 KV overhead line from 220 KV Sidcul Haridwar to 132 KV S/s Jwalapur, Haridwar.	Construction	DCB	2	30.05.2015	30.05.2015	9 Months from the date of LOA (As per agreement)	2.50 Cr.						
38	Construction of 132 KV S/C line on D/C Tower from Pithrogarh - Champawat (Lohaghat)	Construction	DCB	2	15.04.2015	15.04.2015	24 months from the date of LOA (As per agreement)	40.89 Cr.						
39	Construction of LILO of 220 KV D/C Roorkee (PGCIL) Puhana-Roshnabad line at 220 KV S/s Pirankaliyar	Construction	DCB	2	03.02.2016	03.02.2016	10 months from the date of LOA (As per agreement)	5.92 Cr.						
40	Balance work of Construction of 132 KV Bindal-Purukul Transmission line	Construction	DCB	2	03.02.2016	03.02.2016	9 months from the date of LOA (As per agreement)	2.41 Cr.						
41	Third Party Inspection of equipment/material, civil works, electrical works and tech. audit of S/s and lines.	Inspection	DCB	5	20.08.2016	20.08.2016	12 months from the date of LOA (As per agreement)	14.80 Lakh						
42	Appointment of Chartered Accountant Firm/Cost Accountant firms for Internal Audit assignments of PTCUL for the FY 2016-17	Internal Audit	DCB	5	08.06.2016	08.06.2016	12 months from the date of LOA (As per agreement)	4.74 Lakh						

**Form: 9.7****Details of elementwise cost of the project**

(Figures in Rs Crore)

Name of line	Apportioned approved cost (Rs. Lakh)	Revised cost estimates, if applicable(Rs. Lakh)	Amount capitalized /Proposed to be capitalized	Covered in the present petition
--------------	--------------------------------------	---	--	---------------------------------

N/A

Name of Sub-station	Apportioned approved cost (Rs. Lakh)	Revised cost estimates, if applicable(Rs. Lakh)	Completed Cost (Rs. Lakh)	Covered in the present petition	
				Yes/No	If No, petition No.

N/A

Name of Communication System	Apportioned approved cost (Rs. Lakh)	Revised cost estimates, if applicable(Rs. Lakh)	Completed Cost (Rs. Lakh)	Covered in the present petition	
				Yes/No	If No, petition No.

N/A

Petitioner

**Form: 9.8****Statement of Additional Capitalisation after COD**

(Figures in Rs Crore)

Sr. No.	Year	Work/Equipment proposed to be added after COD upto Cut off Date/beyond Cut- off Date	Amount capitalized /Proposed to be capitalized	Original capitalization date	Justification	Regulations under which covered	Admitted Cost1
1	2015-16 (REC I)	Nil					
2	2016-17 (REC I)	132 KV Srinagar Simli Line	0.90	5/1/2016	Due to payment of bills that were submitted by the contractor after the CoD		
1	2015-16 (REC II)	132 KV Switching S/s, Srinagar	-				
2	2015-16 (REC II)	132 KV Kashipur Bazpur Line	0.14	11/27/2013	Matter was in arbitration, the decision was made in favour of contractor; hence corresponding payment was made		
3	2015-16 (REC II)	LILO of 132 KV Almora Pithoragarh Line at 220 KV Pithoragarh (PGCIL)	0.40	4/30/2014	Due to payment of bills that were submitted by the contractor after the CoD		
4	2016-17 (REC II)	132 KV Switching S/s, Srinagar	0.37	3/31/2016	Due to payment of bills that were submitted by the contractor after the CoD		
5	2016-17 (REC II)	LILO of 132 KV Rishikesh Srinagar at Srinagar	0.01	3/31/2016	Crop compensation was pending		
1	2015-16 (REC IV)	132 KV S/s, Laltappar	0.59	3/1/2015	Civil work for creation of residential colonies; 132 kV substation was already put to use on 01/03/2015	Regulation 22, UERC (Terms and Conditions for Determination of Multi Year Tariff) Regulations, 2015	
2	2015-16 (REC IV)	220 KV S/s, Dehradun	0.61	1/31/2014	Civil work for creation of residential colonies; 220 kV substation was already put to use on 31/01/2014		
3	2015-16 (REC IV)	220 KV Ghuttu Ghansali Line	0.02	3/31/2012	As per the order of forest department, gallery expansion was taken up		
4	2015-16 (REC IV)	132 KV Kulahal Majra Line at 220 KV S/s Dehradun	1.15	7/29/2015	Due to payment of bills that were submitted by the contractor after the CoD		
5	2015-16 (REC IV)	132 KV Majra Rishikesh at 132 KV S/s, Laltappar	0.01	3/1/2015	Due to payment of bills that were submitted by the contractor after the CoD		
6	2015-16 (REC IV)	LILO of 220 KV Khodri Rishikesh at 220 KV S/s, Dehradun	1.13	1/31/2014	To ensure protection of towers falling in the river bed, wire mesh crate protection work was done		
7	2016-17 (REC IV)	220 KV S/s, Dehradun	0.14	1/31/2014	The work was complete, but the rate of extra items sanctioned were finalised at a later stage; hence the payment for the same items was done later		
1	2015-16 (REC V)	220 KV Line from 400 KV Kashipur to 220 KV Mahuakheraganj	0.03	5/10/2014	Crop compensation was pending		
2	2016-17 (REC V)	Nil					
1	2015-16 (Exp.)	Nil					
2	2016-17 (Exp.)	Nil					
1	2015-16 (PFC)	Nil					
2	2016-17 (PFC)	Nil					
TOTAL			5.48				

Name of Transmission Licensee

Power Transmission Corporation of Uttarakhand Limited

**Form: 9.9****Financing of Additional Capitalisation**

(Figures in Rs Crore)

Financial Year (Starting from COD)	Actual/Projected					Admitted				
	FY 16	FY 17	FY 18	FY 19	FY 20	FY 16	FY 17	FY 18	FY 19	FY 20
1	2	3	4	5	6	7	8	9	10	11
<b>Amount capitalised in Work/Equipment</b>	4.07	1.41								
<b>Financing Details</b>										
REC I	0.00	0.63								
REC II	0.38	0.26								
REC IV	2.45	0.10								
REC V	0.02	0.00								
<b>Total</b>	<b>2.85</b>	<b>0.99</b>								
<b>Equity</b>	1.22	0.42								
<b>Internal Resources</b>										
<b>Others</b>										
<b>Total</b>	<b>4.07</b>	<b>1.41</b>								

**Note:**

1 Year 1 refers to Financial Year of COD in case of new elements. For existing elements it is from 2014-15 and Year 2, Year 3 etc. are the subsequent financial years respectively.

2 Loan details for meeting the additional capitalisation requirement should be given as per FORM-9 or 9(A) whichever is relevant.

**Petitioner**

Name of Transmission Licensee

Power Transmission Corporation of Uttarakhand Limited

**Form: 9.A**

**Incidental Expenditure during Construction**

(Figures in Rs Crore)

Sr. No.	Parameters	Year -1	Year-2	Year 3	Year-4	Year-5
A	Expenses:					
1	Employees' Remuneration & Benefits					
2	Finance Costs					
3	Water Charges					
4	<b>Communication Expenses</b>					
5	Power Charges					
6	Other Office and Administrative Expenses					
7	Others (Please Specify Details)					
8	Other pre-Operating Expenses					
	.....					
B	Total Expenses					
	Less: Income from sale of tenders					
	Less: Income from guest house					
	Less: Income recovered from Contractors					
	Less: Interest on Deposits					
	.....					

N/A

Note:IEDC should be duly reconciled with the corresponding figures of Auditor's Certificate.

**Petitioner**



Name of Transmission Licensee

Power Transmission Corporation of Uttarakhand Limited

**Form 10.1****Statement of Asset wise Depreciation****Previous year (n-1)**

(Figures in Rs Crore)

Particulars of Assets	Rate of Depreciation in %	Opening GFA*	Cumulative depreciation*	Opening GFA (eligible for depreciation)	Addition during the year (net of deposit work)	Withdrawals during the year	Closing GFA (eligible for depreciation)	Average GFA	Depreciation	Depreciation (Repayment) actual for FY 2015-16
a) Land		30.62	Break-up not available							
b) Building		55.05								
c) Major Civil Works		4.77								
d) Plant & Machinery		460.82								
e) Lines and Cable Network		449.70								
f) Vehicles		0.71								
g) Furniture and Fixtures		2.04								
h) Office Equipment & Other Items		1.75								
i) Hydraulic Works	5.28%	1.18								
<b>Total</b>	<b>5.28%</b>	<b>1006.64</b>		<b>87.13</b>	<b>919.51</b>	<b>71.73</b>	<b>-</b>	<b>991.24</b>	<b>955.38</b>	<b>50.44</b>

\*Approved

**Current Year (n)**

(Figures in Rs Crore)

Particulars of Assets	Rate of depreciation	Gross Fixed assets						At the end of the year	Average	Depreciation
		At the beginning of the year	Additions during the year (Net of deposit work)		Adjustment & deductions					
			Apr-Sep (Actual)	Oct-Mar (Estimated)	Apr-Sep (Actual)	Oct-Mar (Estimated)				
a) Land										
b) Building										
c) Major Civil Works										
d) Plant & Machinery										
e) Lines and Cable Network										
f) Vehicles										
g) Furniture and Fixtures										
h) Office Equipment & Other Items										
i) Hydraulic Works										
<b>Total</b>	<b>5.28%</b>	<b>991.24</b>	<b>114.64</b>	<b>210.34</b>	<b>0</b>	<b>0</b>	<b>1,316.22</b>	<b>1,153.73</b>	<b>60.92</b>	

**Ensuing year (n +1)**

(Figures in Rs Crore)

Particulars of Assets	Rate of depreciation	Gross Fixed assets					Depreciation
		At the beginning of the year	Additions during the year (Net of deposit work)	Adjustment & deductions	At the end of the year	Average	
a) Land							
b) Building							
c) Major Civil Works							
d) Plant & Machinery							
e) Lines and Cable Network							
f) Vehicles							
g) Furniture and Fixtures							
h) Office Equipment & Other Items							
i) Hydraulic Works							
<b>Total</b>	<b>5.28%</b>	<b>1,316.22</b>	<b>493.12</b>	<b>0</b>	<b>1,809.34</b>	<b>1,562.78</b>	<b>82.51</b>

Petitioner

**Form: 10.2**  
**Statement of Depreciation**

(Figures in Rs Crore)

Financial Year	Upto 2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
<b>Depreciation on Capital Cost</b>																
<b>Depreciation on Additional Capitalisation</b>																
Amount of Additional Capitalisation																
Depreciation Amount																
<b>Detail of FERV</b>																
Amount of FERV on which Depreciation is charged																
Depreciation Amount	N/A															
Depreciation recovered during the year																
Advance against Depreciation recovered during the year																
Depreciation and Advance against Depreciation recovered during the year																
<b>Cummulative Depreciation and Advance against Depreciation recovered upto the year</b>																

Petitioner

Form: 11.1

## Statement of Capital Expenditure

(Figures in Rs Crore)

Particulars	FY of Capitalisation	Previous Year (n-1)	Current Year (n)			Remarks+	Ensuuing Year (n+1)	Remarks+	Total Expenditure Approved by Competent Authority	Total Expenditure Actually Incurred	Remarks++
		Actual / Audited	Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)	Projected					
<b>A) Expenditure Details</b>											
a) Land		4.12	0.19	0.48	0.67		2.29				
b) Building		7.41	0.97	2.40	3.37		11.51				
c) Major Civil Works		0.64	1.16	2.85	4.01		13.68				
d) Plant & Machinery		62.02	93.51	230.51	324.02		1105.34				
e) Lines and Cable Network		60.52	21.38	52.70	74.07		252.69				
f) Vehicles		0.10	0.00	0.00	0.00		0.00				
g) Furniture and Fixtures		0.28	0.07	0.17	0.24		0.81				
h) Office Equipment & Other Items		0.24	1.41	3.48	4.90		16.71				
i) Hydraulic Works		0.16	0.18	0.43	0.61		2.08				
<b>Total (A)</b>		<b>135.47</b>	<b>118.87</b>	<b>293.02</b>	<b>411.89</b>		<b>1405.10</b>				
<b>B) Break up of sources of financing</b>											
<b>Rupee term Loan</b>											
Debt		94.83	83.21	205.11	288.32		983.57				
.....											
<b>Foreign Currency Loan</b>											
Debt 1											
Debt 2											
.....											
<b>Equity</b>											
In Rupees		40.64	35.66	87.91	123.57		421.53				
.....											
<b>Others (Please specify)</b>											
.....											
<b>Total (B)</b>		<b>135.47</b>	<b>118.87</b>	<b>293.02</b>	<b>411.89</b>		<b>1405.10</b>				

**Note:**

- i) The break up wherever required and necessary may be given in respect of Loans and Equity financing supported with respective documentation.  
ii) Copies of Approval from competent authorities (if required) may be furnished in respect of cost of each Scheme, its components and scheme of finance.  
iii) Remarks+: Explain for the causes of deviation if the actual expenditure during the current year is expected to be different from that approved by UERC or other authorised agencies  
iv) Remarks++: Explain for the causes of deviation if the total actual expenditure is different from that approved by UERC or the authorised agencies

Petitioner

**Form: 11.2****Statement of Capital Works-in-Progress**

(Figures in Rs Crore)

Particulars	Previous Year (n-1)	Current Year (n)			Ensuing Year (n+1)	Remarks
	Actual / Audited	Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)	Projected	
<b>(A) Opening balance of CWIP</b>						
(a) Opening balance of CWIP as per books	207.59			266.62	353.5	
(b) Amount of capital liabilities in (a) above						
(c) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in (a) above						
<b>(B) Add: Addition/Adjustment</b>						
(a) Add: Addition/Adjustment in CWIP Amount during the period	135.47	118.87	293.02	411.89	1,405.10	
(b) Amount of capital liabilities in (a) above						
(c) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in (a) above						
<b>(C) Expenses Capitalised</b>						
(a) Capitalization/Transfer to Fixed asset of CWIP Amount during the period	76.43	114.64	210.3	325.0	524.8	
(b) Amount of capital liabilities in (a) above						
(c) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost included in (a) above						
<b>(D) Closing balance of CWIP</b>						
(a) Closing CWIP Amount as per books	<b>266.62</b>			<b>353.5</b>	<b>1,233.8</b>	
(b) Amount of capital liabilities in (a) above						
(c) Amount of (i) IDC (ii) FC (iii) FERV & (iv) Hedging cost in (a) above						

Petitioner

Name of Transmission Licensee

Power Transmission Corporation of Uttarakhand Limited

**Form: 11.3**

**Statement of Capital Expenditure & Schedule of Completion of New Schemes**

(Figures in Rs Crore)

<b>Name of the Line / Sub-Station:</b>					
		<b>Amount</b>			
<b>Capital Cost</b>					
<b>Foreign Exchange Rate considered for capital cost estimates</b>					
<b>Cost Details</b>		<b>Amount</b>	<b>Exchange Rate</b>		
<b>A) Basic Cost</b>		N/A			
Foreign Component (in Foreign Currency)					
Domestic Component					
Total Basic Cost				a	
<b>B) IDC &amp; FC</b>				N/A	
Foreign Component (in Foreign Currency)					
Indian Component					
Total IDC & FC					
<b>C) Total Cost (Including IDC and FC)</b>				c=(a+b)	

Petitioner

**Form: 11.4****Break-up of Scheme-wise Capital Expenditure for New Schemes**Name of the Line / Sub-Station: 

(Figures in Rs Crore)

Particulars	Total Expenditure Approved by Competent Authority	Previous year (n-1) Expenditure Actually Incurred	Current Year (n)		Total Expenditure Incurred upto Current Year	Total Expenditure supposed to be incurred till current year, as per the approved plan	Difference between column 6 and 7	Remarks+	Ensuing Year (n+1)	Ensuing Year (n+2)	Ensuing Year (n+3)
			Apr-Sep (Actual)	Oct-Mar (Estimated)							
1	2	3	4	5	6	7	8	9	10	11	12
<b>A) Expenditure Details</b>											
a) Land											
b) Building											
c) Major Civil Works											
d) Plant & Machinery											
e) Lines and Cable Network											
f) Vehicles											
g) Furniture and Fixtures											
h) Office Equipment & Other Items											
<b>Total (A)</b>											
<b>B) Break up of sources of financing</b>											
a) Loans/ Borrowings											
b) Equity											
c) Others (Please specify)											
<b>Total (B)</b>											

N/A

**Note:**

ii) Remark+: Explain for the causes of difference between 6 and 7.

Petitioner

Name of Transmission Licensee

Power Transmission Corporation of Uttarakhand Limited

**Form: 12**

**Draw Down Schedule for Calculation of IDC & Financing Charges**

(Figures in Rs Crore)

Sl. No.	Draw Down	Quarter 1			Quarter 2			Quarter n (Quarter of Completion and Energisation)		
	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>									
1.1.1	Foreign Loan 1									
	Draw Down Amount									
	IDC									
	Financing Charges									
	FERV									
	Hedging Cost									
1.1.2	Foreign Loan 1									
	Draw Down Amount									
	IDC									
	Financing Charges									
	FERV									
	Hedging Cost									
1.1.n	Foreign Loan n									
	Draw Down Amount									
	IDC									
	Financing Charges									
	FERV									
	Hedging Cost									
<b>1.1</b>	<b>Total Foreign Loans</b>									
	<b>Draw Down Amount</b>									
	<b>IDC</b>									
	<b>Financing Charges</b>									
	<b>FERV</b>									
	<b>Hedging Cost</b>									
<b>1.2</b>	<b>Indian Loans</b>									
1.2.1	Indian Loan 1									
	Draw Down Amount									
	IDC									

N/A

Sl. No.	Draw Down Particulars	Quarter 1			Quarter 2			Quarter n (Quarter of Completion and Energisation)		
		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
	Financing Charges									
1.2.2	Indian Loan 2									
	Draw Down Amount									
	IDC									
	Financing Charges									
1.2.n	Indian Loan n									
	Draw Down Amount									
	IDC									
	Financing Charges									
<b>1.2</b>	<b>Total Indian Loans</b>									
	<b>Draw Down Amount</b>									
	<b>IDC</b>									
	<b>Financing Charges</b>									
<b>1</b>	<b>Total of Loans Drawn</b>									
	<b>IDC</b>									
	<b>Financing Charges</b>									
	<b>FERV</b>									
	<b>Hedging Cost</b>									
<b>2</b>	<b>Equity</b>									
<b>2.1</b>	<b>Foreign Equity Drawn</b>									
<b>2.2</b>	<b>Indian Equity Drawn</b>									
<b>2</b>	<b>Total Equity Deployed</b>									

Note: 1. Drawl of Debt and Equity shall be on pari passu basis quarter wise to meet the Completion schedule. Drawl of higher Equity in beginning is permissible.  
2. Applicable Interest Rates including reset dates used for computation may be furnished separately.

Petitioner

Name of Transmission Licensee

Power Transmission Corporation of Uttarakhand Limited

**Form: 13****Details of Capital Cost and Financing Structure**

(Figures in Rs Crore)

Year ending March	FY of Capitalisation	Previous Year (n-1)	Current Year (n)			Ensuing Year (n+1)	Remarks
		Actual / Audited	Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)	Projected	
<b>Basic Project Financial Parameters</b>							
Capital Cost* (Net of deposit work)		919.51			991.24	1316.22	
Addition during the year		76.43			324.98	524.82	
Deletion during the year		0.00			0.00	0.00	
Gross Capital Cost (A)		995.94			1316.22	1841.04	
Equity against Original Project Cost*		179.17			200.69	298.18	
Addition during the year		21.52			97.49	147.94	
Equity Sub-Total (B)		200.69			298.18	446.12	
Debt outstanding against the original Capital cost*		745.01					
Cumulative repayment		362.90					
Loans opening balance for the year		382.11			381.88	548.45	
New Loans added during the year		50.21			227.49	345.18	
Repayment		50.44			60.92	82.51	
Repayment (Actual)		77.60					
Debt Sub-Total (C)		381.88			548.45	811.12	
Grants against original project cost*		87.13			91.83	91.83	
Addition during the year		4.70			0.00	31.70	
Grants Sub-Total (D)		91.83			91.83	123.53	
<b>Total Financing (B+C+D)</b>		<b>674.40</b>			<b>938.46</b>	<b>1380.77</b>	

\*Approved figures for FY 16

Name of Transmission Licensee

Power Transmission Corporation of Uttarakhand Limited

Form: 14

## Details of Financial Packages

Source of Funds	Amount in FC	Exchange Rate	Amount in Indian Currency (Loan Outstanding / equity)	Terms of Repayment	Moratorium Period	Interest Rate (Average / ROE)	Guarantee Commission	Upfront Fees/ Exposure Premium	% of Total Debt	% of Total Equity	% of Total PC
	(Name of Currency)	(Rs./FC)	(Rs. in Crore)	(Years)	(Years)	(%)	(Rs. in Crore)	(Rs. in Crore)	(%)	(%)	(%)
<b>(A) Debt</b>											
<b>Foreign:</b>											
Loan I											
Loan II											
Loan III											
Loan IV etc.											
<b>Indian:</b>											
<b>Loan I</b>											
REC-I (270001 to 3)			-	10	3	9.54	-	-	70	30	100
REC-II (C-0001 to 8)			48.10	10 Years	3 Years	12.40	-	-	70	30	100
REC-III (3611)			65.43	10 Years	3 Years	12.25	-	-	70	30	100
REC-IV (C-10009)			82.23	10 Years	3 Years	12.17	-	-	70	30	100
REC-V (3637)			55.82	10 Years	3 Years	12.08	-	-	70	30	100
REC XI (5787)			12.13	10 Years	3 Years	12.23	-	-	70	30	100
REC (4365)			7.71	10 Years	3 Years	12.50	-	-	70	30	100
REC (5072)			3.19	10 Years	3 Years	12.50	-	-	70	30	100
REC (5762)			3.02	10 Years	3 Years	12.03	-	-	70	30	100
REC (5011)			1.88	10 Years	3 Years	12.50	-	-	70	30	100
REC (5531)			3.64	10 Years	3 Years	12.38	-	-	70	30	100
REC (5533)			3.03	10 Years	3 Years	12.25	-	-	70	30	100
REC (5534)			2.25	10 Years	3 Years	12.25	-	-	70	30	100
REC (6410)			6.96	10 Years	3 Years	12.50	-	-	70	30	100
REC (5763)			3.49	10 Years	3 Years	12.00	-	-	70	30	100
REC (7085)			4.62	10 Years	3 Years	12.00	-	-	70	30	100
REC (9029)			7.02	12 Years	3 Years	12.00	-	-	70	30	100
REC (8851)			4.35	15 Years	3 Years	12.00	-	-	70	30	100
REC (5765)			2.86	12 Years	3 Years	12.00	-	-	70	30	100
<b>Total REC Loan</b>			<b>317.73</b>				-	-	70	30	100
<b>Loan II</b>									70	30	100
PFC (Nabard Gap Funding)-09303001			112.27	6 Years	6 Months	12.25	-	-	70	30	100
PFC (Capital R&M)-09303002			20.51	10 Years	3 Years	12.42	-	-	70	30	100
PFC (Computer Loan)-09312001			-			12.75	-	-	70	30	100
PFC-09303004			26.10			11.50	-	-	70	30	100





Name of Transmission Licensee

Power Transmission Corporation of Uttarakhand Limited

**Form: 14.1**

**Financial Package upto COD**

(Figures in Rs Crore)

Financial Package as Approved		Financial Package as on COD		As Admitted on COD	
2	3	4	5	6	7
N/A					

Petitioner

**Form: 15.1****Statement of Outstanding Loans**

Previous year (n-1)

(Figures in Rs)

Loan Agency (Source of loan)	Rate of interest (%)	Repayment period (Years)	Balance at the beginning of the year	Amount received during the year	Principal due during the year	Principal redeemed during the year	Principal Overdue at the year end	Principal Due at the year end	Remarks
	Actual/ Audited	Actual/ Audited	Actual/ Audited	Actual/ Audited	Actual/ Audited	Actual/ Audited	Actual/ Audited	Actual/ Audited	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)=(6)-(7)	(9)=(4)+(5)-(6)	(10)
<b>A. Other than state government</b>									
REC I(270001-270003)	9.96	10.00	122696450.00	0.00	122696448.00	122696448.00	0.00	2.00	
REC II (1450001-145008)	12.26	10.00	597963356.00	0.00	117015771.00	117015771.00	0.00	480947585.00	
REC III(14500011)	12.20	10.00	672879751.07	77560000.00	96125678.00	96125678.00	0.00	654314073.07	
REC IV(145009)	12.11	10.00	850415890.51	66357000.00	94490656.00	94490656.00	0.00	822282234.51	
REC V(1183637)	12.07	10.00	627980657.08	0.00	69775628.00	69775628.00	0.00	558205029.08	
REC X (REC 5762)	11.97	10.00	30255000.33	0.00	0.00	0.00	0.00	30255000.33	
REC XI (REC 5787)	12.11	10.00	121332979.05	0.00	0.00	0.00	0.00	121332979.05	
REC 4365	12.16	10.00	77085000.00	0.00	0.00	0.00	0.00	77085000.00	
REC 5011	12.35	10.00	18815475.00	0.00	0.00	0.00	0.00	18815475.00	
REC 5531	12.29	10.00	36379350.00	0.00	0.00	0.00	0.00	36379350.00	
REC 5533	12.25	10.00	30257500.00	0.00	0.00	0.00	0.00	30257500.00	
REC 5534	12.25	10.00	22493800.00	0.00	0.00	0.00	0.00	22493800.00	
REC 5072	12.25	10.00	31851465.00	0.00	0.00	0.00	0.00	31851465.00	
REC 5763	12.00	10.00	34857000.00	0.00	0.00	0.00	0.00	34857000.00	
REC 7085	12.00	10.00	46184150.00	0.00	0.00	0.00	0.00	46184150.00	
REC 6410	12.50	10.00	69648600.00	0.00	0.00	0.00	0.00	69648600.00	
REC 9029	11.25	12.00	0.00	70173000.00	0.00	0.00	0.00	70173000.00	
REC 8851	11.25	15.00	0.00	43475400.00	0.00	0.00	0.00	43475400.00	
REC 5765	11.25	12.00	0.00	28605001.08	0.00	0.00	0.00	28605001.08	
<b>Sub-Total</b>			<b>3391096424.04</b>	<b>286170401.08</b>	<b>500104181.00</b>	<b>500104181.00</b>	<b>0.00</b>	<b>3177162644.12</b>	
PFC (NABARD GAP FUNDING)09303001	12.25	6.00	1224800000.00	0.00	102066664.00	102066664.00	0.00	1122733336.00	
PFC (CAPITAL R&M)(Loan No. 9303002)	12.32	10.00	222718094.00	0.00	17468085.00	17468085.00	0.00	205250009.00	
PFC (COMPUTER LOAN)(9312001)	12.75	5.00	945726.00	0.00	945727.00	945727.00	0.00	-1.00	
PFC (09303004)	11.50	10.00	0.00	260957907.00	0.00	0.00	0.00	260957907.00	
PFC (09303005)	12.16	15.00	13061482.00	2416924.00	0.00	0.00	0.00	15478406.00	
PFC (09303006)	12.16	15.00	18379177.00	1355217.00	0.00	0.00	0.00	19734394.00	
PFC (09303007)	12.16	15.00	31331876.00	6247112.00	1242195.00	1242195.00	0.00	36336793.00	
PFC (09303008)	12.16	15.00	13791823.00	2867962.00	550698.00	550698.00	0.00	16109087.00	
PFC (09303009)	12.16	15.00	3977408.00	3663631.00	0.00	0.00	0.00	7641039.00	
PFC (09303010)	12.25	15.00	18317806.00	0.00	0.00	0.00	0.00	18317806.00	
PFC (09303012)	12.16	15.00	53299400.00	5210800.00	2841607.00	2841607.00	0.00	55668593.00	
PFC (09303014)	11.50	15.00	0.00	31100000.00	0.00	0.00	0.00	31100000.00	
PFC (09303015)	11.50	15.00	0.00	3919650.00				3919650.00	
PFC (09303016)	11.50	15.00	0.00	15387830.00				15387830.00	
PFC STL(9322003)			150777145.00	0.00	150777145.00	150777145.00	0.00	0.00	
<b>Sub-Total</b>			<b>1751399937.00</b>	<b>333127033.00</b>	<b>275892121.00</b>	<b>275892121.00</b>	<b>0.00</b>	<b>1808634849.00</b>	
<b>Sub-Total (A)</b>			<b>5142496361.04</b>	<b>619297434.08</b>	<b>775996302.00</b>	<b>775996302.00</b>	<b>0.00</b>	<b>4985797493.12</b>	
<b>B. Government Loans</b>									
Type 1									
Type 2									
Type 3 etc.									
<b>Sub-Total (B)</b>									
<b>Sub-Total (A+B)</b>									
<b>C. Normative Loans</b>									
<b>TOTAL (A+B+C)</b>			<b>5142496361.04</b>	<b>619297434.08</b>	<b>775,996,302.00</b>	<b>775996302.00</b>	<b>0.00</b>	<b>4985797493.12</b>	



Ensuing year (n+1)									
Loan Agency (Source of loan)	Rate of interest (%)	Repayment period (Years)	Balance at the beginning of the year	Amount to be received during the year	Principal due during the year	Principal to be redeemed during the year	Principal Overdue at the year end	Principal Due at the year end	Remarks
	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)=(6)-(7)	(9)=(4)+(5)-(6)	(10)
<b>A. Other than state government</b>									
Loan 1 (Name of lender)									
Loan 2 (Name of lender)									
Loan 3 (Name of lender), etc.									
<b>Sub-Total (A)</b>									
<b>B. Government Loans</b>									
Type 1					N/A				
Type 2									
Type 3 etc.									
<b>Sub-Total (B)</b>									
<b>Sub-Total (A+B)</b>									
<b>C. Normative Loans</b>									
<b>TOTAL (A+B+C)</b>									
<p><b>Note:</b> i) In case reschedulement of any loan has been undertaken, the terms of reschedulement to be specified clearly, through an attachment alongwith copy of the letter from the Lender outlining the terms of Re-scedulement.  ii) Any Loan not allocated to any specific Scheme and not forming part of Appoved Financial Package, to be shown separately, with reasons thereof.  iii) The original Financing Plan and the cumulative repayment as per the Original Financing Plan to be outlined for each Loan.  iv) For current year, Loans already drawn and the loan proposed to be drawn by end of year to be shown separately.  v) Any new loan from existing or new lenders to be identified separately as a Loan.  vi) In case of Foreign Currency Loans, data to be provided in the currency of borrowing alongwith the name of the currency..</p>									
									Petitioner

**Form: 15.2****Calculation of Weighted Average Interest Rate of Interest on Actual Loans \***

(Figures in Rs Crore)

S.No.	Particulars	Previous Year (n-1)	Current Year (n)	Ensuing Year (n+1)	Ensuing Year (n+2)	Ensuing Year (n+3)
				Projected	Projected	Projected
	<b>REC</b>					
	Gross Loan - Opening					
	Cummulative payments of Loan upto Previous Year					
	Net Loan - Opening	3391096424.04				
	Add: Drawl(s) during the year	286170401.08				
	Less: Repayment(s) of Loan during the year	500104181.00				
	Net Loan - Closing	3177162644.12				
	Average Net Loan	3284129534.08				
	Rate of Interest on Loan on Annual Basis	12.15%				
	Interest on Loan	398870063.00				
	<b>PFC</b>					
	Gross Loan - Opening					
	Cummulative payments of Loan upto Previous Year					
	Net Loan - Opening	1751399937.00				
	Add: Drawl(s) during the year	333127033.00				
	Less: Repayment(s) of Loan during the year	275892121.00				
	Net Loan - Closing	1808634849.00				
	Average Net Loan	1780017393.00				
	Rate of Interest on Loan on Annual Basis	10.92%				
	Interest on Loan	194409691.00				
	<b>Total Loan</b>					
	Gross Loan - Opening					
	Cummulative payments of Loan upto Previous Year					
	Net Loan - Opening	5142496361.04				
	Add: Drawl(s) during the year	619297434.08				
	Less: Repayment(s) of Loan during the year	775996302.00				
	Net Loan - Closing	4985797493.12				
	Average Net Loan	5064146927.08				
	Rate of Interest on Loan on Annual Basis	11.72%				
	Interest on Loan	593279754.00				
	<b>Weighted Average Rate of Interest on Loans</b>	<b>11.72%</b>				

N/A

\* In case of Foreign Loans, the calculation in Indian Rupee is to be furnished. However, the calculation in Original currency is also to be furnished separately in the same format

**Form: 15.3****Calculation of Interest on Normative Loan****(Figures in Rs Crore)**

Particulars	Previous Year (n-1)	Current Year (n)	Ensuing Year (n+1)
			Projected
Gross Normative Loan - Opening	745.01		
Cummulative payments of Normative Loan upto Previous Year	362.90		
Net Normative Loan - Opening	382.11	381.88	548.45
Increase or Decrease during the year	50.21	227.49	345.18
Less: Repayment of Normative Loan during the year	50.44	60.92	82.51
Net Normative Loan - Closing	381.88	548.45	811.12
Average Normative Loan	381.99	465.16	679.78
Weighted Average Rate of Interest on Actual Loan on Annual Basis	11.72%	11.72%	11.72%
<b>Interest on Normative Loan</b>	<b>44.75</b>	<b>54.50</b>	<b>79.64</b>
<b>Interest on Loan (Actual)</b>	<b>59.33</b>		

Petitioner

**Form 16****Interest and Finance Charges**

(Figures in Rs Crore)

S.No.	Loan Details	Previous Year (n-1)	Current Year (n)			Ensuing Year (n+1)
		(Actuals/Audited)	Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)	Projected
<b>B</b>	<b>Interest on Long Term Loans / Credits from the FIs/ banks/ organisations approved by the State Government</b>					
1	REC Loan	39.89	19.33	N/A		
2	PFC Loan	19.44	15.84			
	Sub-Total B	59.33	35.17			
<b>C</b>	<b>Normative Loans</b>	<b>50.21</b>			<b>227.49</b>	<b>345.18</b>
<b>D</b>	<b>Total Interest Charges (Considering normative loans)</b>	<b>44.75</b>			<b>54.50</b>	<b>79.64</b>
<b>E</b>	<b>Cost of raising finance &amp; Bank Charges on project loans</b>					
<b>F</b>	<b>Grand Total Of Interest &amp; Finance Charges: D+E</b>	<b>44.75</b>			<b>54.50</b>	<b>79.64</b>
<b>G</b>	<b>Less: Interest &amp; Finance Charges Chargeable to Capital Account</b>					
<b>H</b>	<b>Total interest and finance charges chargeable to revenue account (F-G)</b>	<b>44.75</b>			<b>54.50</b>	<b>79.64</b>
	<b>Interest on Loan (Actual)</b>	<b>59.33</b>				

Petitioner

Name of Transmission Licensee

Power Transmission Corporation of Uttarakhand Limited

**Form 17**  
**Details of Interest on Working Capital**

(Figures in Rs Crore)

Sl.No.	Particulars	Previous Year (n-1)	Current Year (n)			Ensuing Year (n+1)	Remarks
		Actual / Audited	Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)	Estimated	
1	O & M expenses - 1 month	9.43			11.70	13.31	
2	Spares (15% of O&M Expenses)	16.01			21.06	23.96	
3	Receivables- 2 months	57.17			45.67	72.48	
4	<b>Total Working Capital (1+2+3)</b>	82.61			78.42	109.76	
5	Working Capital Loan						
6	Normative Interest Rate (%)	14.05%			14.05%	14.05%	
7	<b>Normative Interest on Working Capital (4 X 6)</b>	11.61			11.02	15.42	

Petitioner

Name of Transmission Licensee		Power Transmission Corporation of Uttarakhand Limited			
FORM- 18					
INVESTMENT PLAN					Figures in Crores
Part A: PROPOSED TRANSMISSION WORKS					
S. No.	NAME OF TRANSMISSION LINE AND ASSOCIATED AND SUBSTATION	LENGTH OF LINE (Ckt.Kms)/ SUBSTATION CAPACITY (MVA)	ESTIMATED COST (Rs. Crores)	SCHEDULED DATE OF COMPLETION	COMPLETION PROGRAMME/REMARKS
1	2	3	4	5	6
(I)	<b>400 KV LINES</b>				
1	LILO of 400KV D/C Quad Moose Kashipur -Puhana line at 400 KV S/s Landhora	4	7.751	Mar-20	1. Land for construction of Substation has been selected in Village Sundhari, Landhora and GoU have issued GO for allotment of Land. Presently process of land allotment is in progress at District Administration Haridwar. 2. For construction of approach road for Substation private land is to be purchased for which concern land owners have given consent.
	<b>Sub Total (I)</b>		7.751		
(II)	<b>400 KV SUBSTATIONS</b>				
1	400/220/132 GIS KV S/s Landhora	2X315 +2X160=950	301.598	Mar-20	1. Land for construction of Substation has been selected in Village Sundhari, Landhora and GoU have issued GO for allotment of Land. Presently process of land allotment is in progress at District Administration Haridwar. 2. For construction of approach road for Substation private land is to be purchased for which concern land owners have given consent.
	<b>Sub Total (II)</b>		301.598		
(III)	<b>220 KV LINES</b>				
1	220 KV D/C Twin Zebra Line from 400 KV (PGCIL) Sheerpur to 220 KV (PTCUL) Dehradun	12.3	20.65	Nov-16	Construction work of line has been completed and on commissioning of 400 KV PGCIL S/s commercial use of line will start which is expected to be completed by Nov- 2016.
2	LILO of 220 KV Roshanabad - Puhana Line at 220 KV S/s Piran Kaliyar	10	9.91	Mar-17	Work is under progress. Total progress 30%.
3	LILO of 220 KV S/C of Rishikesh - Dehradun line at 220 KV S/S IIP, Harrawala.	0.14	0.53	Mar-17	Only 01 No. of tower is to be erected for which work is to be allotted.
1	220 KV D.C. Twin Zebra Line from Vyasi HEP - Dehraun* (* The interconnection point at Dehradun will be the LILO Point on Proposed 220KV D/C Twin Zebra Line from Dehradun (PTCUL) S/s to Dehradun (PGCIL) S/s .	81	146.52	Dec-18	Work has been awarded. Detail survey has been completed and Forest Case has been submitted to DFO.
2	LILO of 220 KV S/C of Roorkee- Nara Line at 400 KV S/S Puhana PGCIL	14	DPR is to be prepared	Dec-18	Walk over survey for preparation of BOQ has been done and BOQ is being prepared.
1	LILO of 220 KV S/C of Khodri -Jhajra line at 220KV GIS S/S Selaqui	2	34.15	Mar-20	Land for S/s has been identified in premises of UPCL 33 KV S/s Selaqui and UPCL is being pursued for allotment of land.
2	LILO of 220 KV Nara - Puhana at 220 KV Substation Manglore	8	DPR is to be prepared	Mar-20	Private Land for construction of S/s has been identified. The process for purchase of land is in progress.
1	LILO of 220 KV Kashipur-Pantnagar line at proposed 220 KV substation at Jafarpur	127	8.34	31.03.2018	
2	220 KV Jauljibi - Almora Line	130	189.00	31.12.2018	On the availability of 400 KV S/S PGCIL Jauljibi
3	Construction of 220 KV D/C line from PGCIL S/s, Sitarganj - Khurpiya Farm line	35	73.50	31.03.2019	
4	Construction of LILO of 220 KV Bareilly-Pantnagar line at Khurpiya Farm	5	5.25	31.03.2019	
	<b>Sub Total (III)</b>		487.85		
(IV)	<b>220 KV SUBSTATIONS</b>				
2	220/33 KV S/S IIP, Harrawala, Dehradun	2x50 =100	65.87	Mar-18	Construction work of S/s is in progress. Total Progress 40%.
1	220 /33 KV S/s Pirankaliyar	2x50=100	46.12	Mar-18	Construction work of S/s is in progress. Total Progress 30%.
1	220 KV S/S Manglore, Haridwar	2x50 =100	DPR will be prepared after possession	Mar-19	Private Land for construction of S/s has been identified. The process for purchase of land is in progress.
1	220/33 KV GIS S/s Ghansali	2x30=60	124.8	Dec-18	Agreement with M/s CGL for construction of S/s has been terminated due to non performance of Firm. Re tendering is in progress.
1	220/33 KV GIS S/s Selaqui	2x50 =100	131.14	Mar-20	Land for S/s has been identified in premises of UPCL 33 KV S/s Selaqui and UPCL is being pursued for allotment of land.
1	220 KV Substation Almora	2x100 MVA	120.84	31.03.2019	On the availability of 400 KV S/S PGCIL Jauljibi
2	Construction of 220/132/33 KV S/s at Khurpiya Farm		90.00	31.03.2019	
	<b>Sub Total (IV)</b>		578.77		

(V)	<b>132 KV LINES</b>				
1	LILO of 132 KV Dhalipur - Purkul Line at 220 KV S/s Dehradun	2.18	5.96	Dec-16	90% Construction work completed. Due to non availability of Shutdown erection of LILO tower could not be done and same is proposed in I/II <sup>nd</sup> week of November 2016.
1	Stringing of II circuit of 132KV Satpuli Kotdwar line	47	13.48	Dec-17	Tendering is in progress.
2	132 KV Purkul-Bindal link line	11.50	5.96	Dec-17	For final approval of Forest Case all condition mentioned in pricipal approval has been completed and submitted to MOEF Regional office, Dehradun through Nodal Officer, Forest Department. Presently proposal is under consideration for final approval at MOEF.
1	LILO of 132 KV Chilla -Nazibabad line at 132 KV S/S Patanjali, Haridwar	15	DPR will be prepared after possession of land at Patanjali	Jun-18	Land has been selected at Patanjali Food & Herbal Park at Padartha Haridwar. Process of Land transfer from Patanjali is in progress.
2	LILO of 132 KV Laitappar -Majra line at 132 KV S/S Araghar	6.4	50.81	Dec-18	Land for S/s has been identified in premises of UPCL 33 KV S/s Araghar and UPCL is being persued for allotment of land.
3	132 KV Simli-Gairsain line	40	65.66	Mar-19	Land is being searched for construction of S/s.
4	Stringing of II circuit of 132KV D/C Srinagar-Simli line with Single Panther Conductor	64.5	30.51	Mar-19	This work will be taken up after land finalization of 132 KV S/s Gairsain.
1	LILO of 132 KV Bindal-Rishikesh line at 132 KV S/S Raipur	10	10.00	Mar-20	Land for construction of S/s is being searched.
2	LILO of 132 KV Manglore -Nehitore Line at 400 KV GIS Substation Landhora	6	11.446	Mar-20	1. Land for construction of Substation has been selected in Village Sundhari, Landhora and GoU have issued GO for allotment of Land. Presently process of land allotment is in progress at District Administration Haridwar.
3	LILO of 132 KV Laksar -Nehitore Line at 400 KV GIS Substation Landhora	44	41.014	Mar-20	2. For construction of approach road for Substation private land is to be purchased for
1	LILO of 132 KV Kichha - Sitarganj Line at 132 KV S/S ELDECO & Stringing of 132 KV Kichha - Sitarganj Line	14.97	2.3	30.06.2017	LILO completed on 09.10.2012 & Stringing completed on 17.01.2011 except completion of 500 Mtr. Line at Kichha end (Old Contract Terminated and new Tender in Progress)
2	Amalgation of 132 KV Lines at 132 KV S/S Khatima II	10	20.00	31.12.2018	
3	132 KV D/C Line from 220 KV S/S Mahuakherganj to 132 KV S/S Jaspur.	23.32	21.00	31.03.2018	
4	Construction of LILO of 132 KV Rudrapur-Kichha line at Khurpia farm.	3	3.00	31.03.2019	
5	LILO of 132KV Kathgodam-Pantnagar line at proposed 132KV Golapar S/s (App. 15KM)	15	15.00	31.03.2019	
6	Construction of 132KV S/Ckt line on D/C Towers for 132KV Golapar(Proposed) S/s from 220KV Khurpia Farm (Proposed) S/s (App.30KM)	30	30.00	31.03.2019	
7	Construction of 132 KV LILO line for 132 KV S/s SIDCUL Phase-II, Sitarganj	15	10.00	31.03.2019	
8	Termination of 132KV CPP line at proposed 220KV s/s Khurpiya Farm at Kichha	3	2.00	31.03.2019	
9	Construction of 132 KV LILO line for 132 KV S/s Khatima-II	16	12.00	31.03.2019	
	<b>Sub Total (V)</b>		<b>350.14</b>		
(VI)	<b>132 KV SUBSTATIONS</b>				
1	132/33 KV S/S Patanjali Haridwar	2x20 =40	DPR will be prepared after possession of land at Patanjali	Jun-18	Land has been selected at Patanjali Food & Herbal Park at Padartha Haridwar. Process of Land transfer from Patanjali is in progress.
1	132/33 KV S/S Araghar, Dehradun	2x40 =80	71.36	Dec-18	Land for S/s has been identified in premises of UPCL 33 KV S/s Araghar and UPCL is being persued for allotment of land.
1	132/33 KV S/S Gairsain	2x20 =40	92.85	Dec-19	Land for construction of S/s is being searched.
2	132/33 KV S/S Raipur, D.Dun	2x40 =80	71.36	Mar-20	Land for construction of S/s is being searched.
1	132 KV Substation Khatima II	2x40 MVA	40.00	03.01.2018	
2	Construction of 132/33KV S/s at Golapar, Haldwani		53.00	31.03.2019	
3	Construction of 132 KV Substation, Bhikiasain alongwith associated transmission line at 132 KV Substation, Ranikhet (30Kms)		80.00	31.03.2019	
	<b>Sub Total (VI)</b>		<b>408.57</b>		
VII.	<b>MISC. WORKS</b>				
1	Re-alignment of tower at loc. No. 30 to a safe place of 132 KV Kathgodam -Bhowali line.		0.50	31/03/2017	
1	Augmentation of Transformer from 2x40 MVA to 3x40 MVA at 220KV Substation, Kamaluaganja (Haldwani)	1x40MVA	6.70	31/03/2018	
2	I/C of existing 33KV Capacitor Bank from 2X5 MVAR TO 3X5 MVAR at 132KV Substation, Almora	1x5MVAR	0.40	31/03/2018	
3	Increasing capacity of 132 KV S/S Jaspur from 2x40MVA to 3x40MVA.	1x40MVA	7.66	30/09/2017	
4	Supply and Commissioning of 2X5MVA capacitor bank at 132 KV Substation, Kathgodam	2x5MVAR	0.45	31/03/2018	
5	Provision of additional 2X5 MVAR 33 KV Capacitor Bank at 132 KV Substation, Pithorgarh	2x5MVAR	0.56	31/03/2018	
6	Replacement of 1x3x5MVA T/F bank with 20MVA Transformer at 132 KV Bhowali (T/F at Bazpur shall be utilized)	1x20MVA	0.32	31/03/2018	
7	Installation of 1 no. 315MVA T/F (400/220KV) at 400KV Substation, Kashipur	1x315 MVA	19.34	31/03/2018	

8	Construction of 02 Nos. 400KV Bay at 400KV Substation, Kashipur (i) Bay for 315MVA T/F-III (ii) Bay for future 400KV Srinagar-Kashipur line II ckt)		10.06	31/03/2018	
9	Supply & installation of 125MVAR Reactor and associated bay and related work at 400KV Substation, Kashipur	125 MVAR	14.93	31/03/2018	
10	Construction of 220 KV Bus Sectionizing at 400KV Substation, Kashipur		0.98	31/03/2018	
11	Installation of 01 no. 160MVA T/F (220/132KV) and its associated bays at 400KV Substation, Kashipur	1x160 MVA	18.39	31/03/2018	
12	Construction of 01 Nos. 220KV T/F Bay at 400KV Substation, Kashipur		2.71	31/03/2018	
13	Construction of 1 Nos. 132KV Bay and related works at 400KV Substation, Kashipur		2.37	31/03/2018	
14	Installation of 01 No. 40MVA T/F and its 132 KV bay at 400KV Substation, Kashipur	1x40MVA	5.18	31/03/2018	
15	Construction of 03 no. 33KV bays and related work at 400KV Substation, Kashipur		1.66	31/03/2018	
16	Construction of 01 no. 33KV Bay against requirement of UPCL at 132 KV Substation, Almora		0.23	31/03/2018	
17	Provision of Hybrid module (due to space constraint) for construction of Transfer Bus at 132KV S/s, Pithoragarh		1.59	31/03/2018	
18	Work of replacement of old ACSR panther conductor with HPC conductor in 132 KV Kashipur(400) - Kashipur Ckt-II line at 132 KV Substation, Kashipur	3.2KMs	3.20	31/03/2018	
19	Stringing of HPC in second circuit of 132 KV Kashipur(400) -Bazpur line along with construction of one no. 132 KV bay at 132 KV S/S Bazpur	15.30Kms	14.08	31/03/2018	
20	Replacement of 02 Nos 220KV D/C towers (with DD+15) at location no 55 & 56 in 220 KV Kashipur(400)- Mahuakheraganj line for providing safe clearance.		3.70	31/03/2018	
21	I/C of 132 KV S/S, Kichha from 2 X 40 to 3 x 40 MVA alongwith construction of Bus Coupler bay at Kichha.	1 X 40 MVA	4.85	31/03/2018	
22	Replacement of ACSR Panther conductor in 132 KV Pantnagar-Rudrapur line with ACCC Casablanca conductor	7.6 km.	8.00	31/03/2018	
23	Increasing capacity of 132 KV S/S Ramnagar from 1x20+1x40MVA to 2x40MVA	1x40MVA	4.00	31/03/2018	
24	Construction of 02 nos 132KV bay at 132KV S/s Jaspur		2.76	31/03/2018	
25	Augmentation of 132KV T/F from 2x20MVA +2x3x5VMA T/F to 1x40MVA+1x20MVA +2x3x5VMA at 132KV Substation Pithoragarh	1x20+2x5x3+1x40	4.27	31/03/2018	
1	Construction of 2 Nos. 220KV Bay at 400KV Substation, Kashipur		5.00	31/03/2019	
2	Replacement of Old 2X3x5 MVA Transformer with 2X20 MVA Transformer at 132 KV Substation, Ranikhet	2x20MVA	5.07	31/03/2019	
3	Replacement of Old 2X3x5 MVA Transformer with 2X20 MVA Transformer at 132 KV Substation, Pithoragarh	2x20MVA	6.60	31/03/2019	
4	Construction of 2 Nos. 220KV Bay at 220KV Substation, PGCIL, Sitarganj		5.00	31/03/2019	
5	Replacement of ACSR panther conductor with HPC conductor of 132 KV Kashipur- Mahuakheraganj (220) line	10.30Kms	10.30	31/03/2019	
6	Replacement of 1X3x5MVA Transformer bank with new 20MVA Transformer at 132 KV Substation, Bhowali	1x20MVA	2.00	31/03/2019	
7	Strengthening of 132KV Haldwani-Bhowali line by replacement through HPC conductor.	14 Kms	14.00	31/03/2019	
8	Replacement of ACSR Panther conductor in 132 KV PGCIL-SIDCUL Sitarganj line with ACCC Casablanca conductor	22 km.	21.01	31/03/2019	
9	Replacement of ACSR Panther conductor in 132 KV Kichha-Sitarganj line with ACCC Casablanca conductor	31.5 km.	29.82	31/03/2019	
10	Replacement of ACSR Wolf conductor in 132 KV Piliphit-Khatima D/C line with ACCC copen hagan conductor	45 km.	65.94	31/03/2019	
11	Increasing capacity of 132 KV S/S Bazpur from 1x40+1x80MVA to 2x80MVA.	1x80MVA	11.00	31/03/2019	
12	Replacement of ACSR Zebra conductor with HTLS conductor of 220 KV Kashipur- Mahuakheraganj D/C line	16.799 Km.	45.94	31/03/2019	
13	Construction of 132 KV transfer bus and extension of switchyard at 132 KV S/S Bazpur		3.50	31/03/2019	
14	Construction of 04 Nos of 33 KV bays at 132 KV S/S Bazpur (Deposit)		1.70	31/03/2019	
2	Augmentation of Transformation capacity from 2x40 MVA (132/33 KV) to 3x40 MVA (132/33 KV) by procurement, installation & commissioning of 01 No additional 132/33 KV 40 MVA T/F, HV & LV bay & oil pit for NIPPES & construction of 03 Nos. 33 KV feeder Bays at 132 KV S/s Jashodharpur, Kotdwar (Pouri Garhwal)	40 MVA	10.20	12/31/2017	
3	Shifting of 132 Kv Lines in Dev Sanskriti Vishvavidyalaya Campus of Shri Ved Mata Gayatri Trust Shantikunj , Haridwar	0.904 Km	3.89	1/31/2018	
4	Replacement of old conductor by new AAAC/HTLS Conductor of 132KV Roorkee- Manglore Line.	14 km	10.64	3/31/2017	
5	Replacement of old conductor by new AAAC/HTLS Conductor of 132KV Roorkee- Laksar Line.	26.5 km	30.74	3/31/2017	
6	Increasing Capacity 2X40 MVA (132/33 KV) to 3x40 MVA (132/33 KV) at 132 KV S/s Laksar	40 MVA	8.19	12/31/2017	

7	Increasing Capacity 3x40 MVA (132/33 KV) to1X80 + 2x40 MVA (132/33 KV) at 132 KV S/s Bhagwanpur	40 MVA	12.50	3/31/2019	
8	Increasing Capacity 2x40 MVA (132/33 KV) to 2x80 MVA (132/33 KV) at 132 KV S/s Mangalore	80 MVA	24.85	7/31/2018	
9	132 KV substation near Gold plus Landhora Roorkee	80 MVA	20.00	3/31/2018	
1	Augmentation of 132 kv S/S Bindal by 40 MA T/F 132 KV /33KV	40MVA	8.61	30.6.2017	
1	Increasing capacity of 132/33KV S/S Srinagar from 1x20MVA +1x40MVA to 2x40MVA	20 MVA	6.03	12/31/2017	The project will be take up during the FY 2017-18
2	Increasing capacity of 132/66KV S/S Srinagar from 1x20MVA +1x15MVA to 2x20MVA	5 MVA	3.12	12/31/2017	
3	Replacement of old 1x20MVA T/F by new 1x40MVA T/F at Simli	20 MVA	3.6	12/31/2017	
	220 KV S/S SIDCUL, HARIDWAR Augmentation of S/s Capacity by Installed 50MVA T/F (220/33 Kv) & construction of 33kv Bays	50 MVA	14.41	3/31/2019	
12	Civil work, 400/220/132 KV S/S Virbhadra Rishikesh		2.74	12/1/2017	
14	Civil work, 220 KV S/S SIDCUL		2.62	1/4/2018	
44	Civil work, 132 KV S/S Bhagwanpur		0.03	3/1/2018	
45	Civil work, 132 KV S/S Manglore		0.71	3/2/2018	
46	Civil work, 132 KV S/S Laksar		1.92	3/3/2018	
47	Civil work, 132 KV S/S Jwalapur (Haridwar)		0.09	12/1/2017	
48	Civil work, 132 KV S/S Bhopatwala Haridwar		3.82	12/2/2017	
49	Civil work, 132 KV S/S Kotdwar (G)		2.12	10/1/2017	
50	Civil work, 132 KV S/S Satpuli (G)		4.65	7/31/2018	
51	Civil work, 132 KV S/S Simli (G)		0.83	10/31/2017	
52	Civil work, 132 KV S/S Majra Dehradun		0.70	12/1/2016	
53	Civil work, 132 KV S/S Bindal		1.12	12/1/2018	
54	Civil work, 132 KV S/S Purukul , Dehradun		0.33	12/2/2018	
55	Civil work, Const of Trans Div office at 132 KV S/S Srinagar		0.67	3/1/2018	
57	Civil work, 132 KV S/S Chudiyala Haridwar		0.10	3/31/2017	
15	Civil work, 220 KV S/S Kamalvaganja		2.6	6/30/2018	
16	Civil work, 220 KV S/S Pantnagar		0.82	12/30/2018	
55	Civil work, 132 KV S/S Almora		2.93	6/30/2018	
56	Civil work, 132 KV S/S Pithroragarh		0.7	9/30/2017	
57	Civil work, 132 KV S/S Bazpur		1.56	3/30/2019	
58	Civil work, 132 KV S/S Kathgodam		4.43	3/30/2019	
59	Civil work, 132 KV S/S Bhowali		1.84	3/30/2019	
60	Civil work, 132 KV S/S Kiccha and Rudrapur		1.78	12/30/2018	
61	Civil work, 132 KV S/S Ranikhet		2.42	12/30/2017	
62	Civil work, 132 KV S/S Jaspur		0.98	3/30/2019	
	<b>Sub Total (VII)</b>		<b>565.06</b>		
	<b>GRAND TOTAL</b>		<b>2699.74</b>		

## Part A: ACTUAL TRANSMISSION WORKS

S. No.	NAME OF THE TRANSMISSION LINE & ASSOCIATED SUBSTATIONS	LENGTH OF LINE (Ckt.Kms.) / S/S. CAP. (MVA)	APPROVED COST (Rs Crores)	COMPLETED COST (Rs Crores)	VARIATION IN COST (Rs Crores)	Reasons of Variation in Cost	Scheduled Date of Completion	Actual Date of Completion	Date of Electrical Inspector's Clearance*	Variation in Schedule	Reasons of Variation in Schedule
1	2	3	4	5	6	7	8	9	10	11	12
<b>I. 400 KV LINES</b>											
1	400 KV Kashipur - Srinagar D/C Line	189.78 Km.	838.1	In Progress			14.09.2017	31.12.2019 (Expected)			
<b>SUB TOTAL (II) (400KV LINES)</b>											
<b>II. 400 KV SUB STATIONS</b>											
<b>SUB TOTAL (II) (400KV S/S)</b>											
<b>III. 220 KV LINES :</b>											
1	LO OF 220 KV Dhauliganga- Pithoragarh PGCI	10.94 Km	26.09	In Progress			13.01.2017	30.03.2018 (Expected)			
2	Construction of 220 KV Pirankaliyar - Puhana I	7 km	15				under Progress 30%				
3	Civil work, Bairelly-Pantnagar 220 kv Line		0.83	0.83			10/17/2014	04.12.15		One Year One Month and Seventeen days	Delay in work due to interference in work by local people and also due to monsoon season falling twice during the completion of work
4	Civil work, Khatima- Sitarganj 132 kv Line		1.47	1.33	0.14	Due to site conditions and within permissible limit	9/27/2015	1/6/2016		Three Months and Ten Days	Delay in work due to monsoon season
5	Civil work, 132 KV S/S Kashipur		1.55	1.4	0.15	Due to site conditions and within permissible limit	7/2/2015	7/2/2015			
<b>SUB TOTAL (III) (220KV LINES)</b>											
<b>IV. 220 KV SUB STATIONS</b>											
1	220/33 KV Substation at Jafarpur	2x50 MVA	74.61	In Progress			14.04.2015	31.12.2017 (Expected)			
2	220 KV Substation Baram	2x25 MVA	120.84	In Progress				06.01.2018 (Expected)			
3	Extension of 220/33 KV S/s Piran Kaliyar to 220	2x100 MVA	12.8				under Progress 50%				
4	Increasing capacity at 220 KV S/s Rihikesh from 2 x 160 MVA to 3 x 160 MVA 220/132 KV Transformer	1X160 MVA	18.18				under Progress 70%				
5	Increasing capacity of S/S by 50 MVA T/F 220 /33 KV at 220kv S/s Sidcul , Haridwar	50 MVA	7.48	9.88	2.4	Cost of T/F and Civil Work	Dec-15	Jun-16	Report pending (Fee Submitted on dated -02-06-16)	6 month	Due to delay in delivery of main & auxiliary structure
<b>SUB TOTAL (IV) (220KV SUB STATIONS)</b>											
<b>V. 132 KV LINES</b>											
1	132KV Srinagar - Simli Line	64.455	89.51	122.18	32.67	1. Due to delay in forest clearance and Row issues completion period got extend and as a result IDC cost increased to Rs 17.79 Crore for which there was no provision in DPR. 2. In scheme there was provision for payments of Forest compensation was Rs 12 Crore. In actual the total amount for all heads NPV etc for forest approval, land premium and lease rent for 30 year is about Rs 29 Crore. 3. BOQ for tendering was prepared on the parameters suitable for plain area having 'A' type towers (100 No's), B type Towers 65 No's & 'C' Type Towers 45 No's. In actual only 4 No's of 'A' Type Towers were used and 59 No's of B type Tower and 167 No's of C type Towers were used. So 96 No's of A type Towers were replaced by 'C' type Towers due to angle section and higher weight span specially the uplift. As a result weight of Tower material, cost of benching, tower foundation increased and increased the cost of Line.	14.12.2013 (6 month after final Forest clearance)	26.04.2016	21.04.2016	2 year 4 Month	1. Forest clearance of Line was obtained on 14.06.2013. 2. Due to heavy disaster during June 2013 in District Rudrapur and Chamoli tree cutting work could not be started by Forest Department due to deployment of Revenue and Forest Officers for disaster relief work. 3. The process for tree cutting was started in January 2014 and tree cutting was completed in March 2016. 4. Due to severe Right of way problems by Villagers / concern land owners at Line site various activities got delayed. 5. Construction work of T.no 180,181 & 182 was stopped by local leaders, Nagar Palika due to proposed Vatenary School in land. 6. Construction work of Tower No 147, 148 and 149 was interrupted by Junior High School Vijaygarh authorities and after lot of persuasion to District Administration and Hon'ble MLA and Minister of GoU the matter was resolved. 7. Construction of last 3 No's of Towers near 132KV S/s Simli could not started due to agitation of Villagers. After intervention of local Administration an alternate route was found out as per consent of Villagers in which 2 No's of Towers were increased. 8. Stringing of Tower No 1 and Gantry at 400KV S/s Srinagar was interrupted by concern land owner and with involvement of District Administration and Police Department stringing work was carried out. 9. The construction work of Tower No 216 was held up due to severe agitation of concern land owner after lot of persuasion and with the help of Administration ROW problem was resolved. 10. The route of Line is passing through very difficult hilly terrain and most of the Tower locations are about 3 to 5 Km far away from road site so tree cutting have taken longer time. Also due to difficult hilly terrain with rocks tower foundation work have taken longer time. 11. However the work was done on war footing basis in parallel to tree cutting work . 12 Construction work of Line was completed on 18.04.16 and Line was energized on 26.04.16.

S. No.	NAME OF THE TRANSMISSION LINE & ASSOCIATED SUBSTATIONS	LENGTH OF LINE (Ckt.Kms.)/ S/S. CAP. (MVA )	APPROVED COST (Rs Crores)	COMPLETED COST (Rs Crores)	VARIATION in COST (Rs Crores)	Reasons of Variation in Cost	Scheduled Date of Completion	Actual Date of Completion	Date of Electrical Inspector's Clearance*	Variation in Schedule	Reasons of Variation in Schedule
1	2	3	4	5	6	7	8	9	10	11	12
2	132 KV Single Circuit Line on Double Circuit Tower from Ranikhet to Bageshwar.	43.602	61.11	In Progress			15.05.2016	30.03.2018 (Expected)			
3	132 KV Single Circuit Line on Double Circuit Tower from Phithoragarh- Champawat	50.00	82.07	In Progress			14.04.2017	31.12.2018 (Expected)			
4	132 KV LILo of Bhagwanpur - Chudiyala Line at Piran Kaliyar	9.7 KM	13.2				under Progress 70%				
<b>SUB TOTAL (IV)(132KV LINES)</b>											
<b>VI. 132 KV SUB STATIONS</b>											
1	132 KV GIS S/s at Bageshwar	2x15 MVA	92.78	In Progress			25.03.2016	30.06.2018 (Expected)			
2	132 KV Substation Lohaghat	2x20 MVA	93.16	In Progress			03.01.2018				
3	Construction of 132 KV S/s Chudiyala 2 x 40 MVA	2X40 MVA	16.8				under Progress 95%				
4	Increasing capacity of S/S by 40 MVA T/F 132 /33 KV at 132kv S/s Jwalapur	40 MVA	4.33	4.37	0.04	Cost of T/F and Civil Work	Aug-15	Dec-15	March-2016 (Fee Submitted on dated -16-12-15)	4 month	40 MVA T/F bay material not received in time
5	Increasing capacity of S/S by 40 MVA T/F 132 /33 KV at 132kv S/s Bhupatwala	40MVA	5.73	5.82	0.09	33 kv V.C.B Extra No. 07	Jan-16	Dec-15	25/01/2016		
6	Replacement of 1 No defected 40 MVA T/F by new 1 No 40 MVA at 132 kv S/S Roorkee.	40 MVA	3.15	3.15			Sep-15	Sep-15			
7	Construction of 132 kv o/H Line from 220 kv S/S Sidcul to 132 kv S/s Jwalapur and 2 NOS. 132 Kv BAY at both end.	4 km.	902.11				Mar-16	work under progress			
<b>SUB TOTAL (VI)(132KV SUB-STATIONS)</b>											
<b>VII. MISC. WORKS</b>											
1	Augmentation of 132KV S/s, Kathgodam from 01x40MVA to 2x40MVA (PFC)	40MVA	4.43	3.03	-	-	14-10-2014/ 25-09-2015	8/5/2015	05-08-2015 / 07-08-2015	10 months 17 days	Commissioning delayed due to late delivery of C&R panels. As there was space constraints in the existing Control Rooms of various S/Ss. Hence tailor made panels could not be installed . Therefore customised C&R Panels were re-designed, after several deliberations, & site visits by Design Engineer of manufacturer (M/s Siemens India Ltd.). After finalization of drawing, the firm supplied the C&R Panels & T/Fs commissioned.
2	Augmentation of 132KV S/s, Bhowali from 2x3x5MVA to 2x3x5+1x20MVA (PFC)	20MVA	4.79	2.45	-	-	14-10-2014/ 18-09-2015	8/7/2015	05-08-2015 / 07-08-2015	10 months	
3	Augmentation of 132KV S/s, Almora from 02x20MVA to 3x20MVA (PFC)	20MVA	4.22	2.78	-	-	14-10-2014/ 31-03-2015	7/28/2015	26-07-2015/ 28-07-2015	09 months 20 days	
4	Augmentation of 132KV S/s, Bazpur from 02x40MVA to 1x80+1x40MVA (PFC)	40MVA	11.9	5.59	-	-	14-10-2014/ 26-06-2015	00-05-2015		08 months 17 days.	
5	02 Nos. 220KV Bay at 400KV S/s Kashipur(REC)	02 Nos. 220KV Bay	2.98	3.30	0.32	There were certain items which were left out in the BOQ. Therefore variation in original approved cost occurred on procurement of these left out items.	1/31/2011	5/8/2014	13-11-2013/ 14-11-2013	03 Years 03 Months 08 days	Schedule of completion delayed due to the procurement of left over items.
6	Construction of 01no 220KV bay at 220KV S/s Pantnagar	01No Bay	2.1	1.58			2.9.2014	29.1.2016	6.2.2016	16Month 27 days	Schedule of completion delayed due to the procurement of left over items.
7	Augmentation of 2x80MVA Transformer at 220 KV S/S Jhajhra ( from 2x40MVA to 2x80 MVA)	160 MVA	24.88	8.82			30/11/2016				Work under progress.
8	Increasing capacity of 220 KV S/s Chamba by replacing 220/33 KV 25 transformer by new 1 No 50 MVA Transformer	50 MVA	6.65088	Till Date 5.70			31-May-17	31-May-17	-		
<b>SUB TOTAL (VII) MISC. WORKS</b>											
<b>GRAND TOTAL (L.VII)</b>											
<b>(Provide details wef FY 2011-12)</b>											
* Date of Approval by Electrical Inspector shall be considered as Date of Energisation / Capitalisation											

## Form 20

## Summary of Truing Up

Previous Year (n-1) for Final Truing Up

(Figures in Rs Crore)

S. No.	Particulars	Approved	Actual	Variation	Reasons for Variation	Controllable	Uncontrollable
<b>A.</b>	<b>Annual Transmission Charges</b>						
1	Net O&M expenses	117.15	96.32				
2	Interest charges	61.55	59.33				
3	Guarantee Fees	2.19	0.00				
4	Depreciation	57.32	77.60				
2	Interest on Working Capital	10.51	11.61				
3	Reasonable Return	14.76	29.44				
4	Income Tax	0	26.44				
5	Add : Gain/loss (on account of controllable items) of licensee	0	16.82				
3	<b>Gross Expenditure</b>	<b>263.48</b>	<b>317.56</b>				
4	Less: Non-Tariff Income	1.44	6.11				
5	<b>Net Expenditure</b>	<b>262.04</b>	<b>311.45</b>				
6	Add : True up of previous years including carrying cost	40.71	40.71				
4	Less: SLDC related expense	7.45	9.12				
5	<b>Annual Transmission Charges</b>	<b>295.3</b>	<b>343.03</b>				
<b>B</b>	<b>Revenue</b>						
1	Revenue from Transmission Charges		295.30				
	<b>Total Revenue</b>						
<b>C</b>	<b>Surplus / (Gap)</b>		-47.73				

Note: Please give detailed explanation separately for the deviations on account of uncontrollable factors

## Current Year (n) Annual Performance Review

(Rs. Crore)

S.no.	Particulars	Approved	Actual	Variation	Reasons for Variation	Controllable	Uncontrollable
<b>A.</b>	<b>Annual Transmission Charges</b>						
1	Net O&M expenses	132.41	140.37				
2	Interest charges	64.14	54.50				
3	Guarantee Fees	#REF!	#REF!				
4	Depreciation	62.49	60.92				
2	Interest on Working Capital	10.45	11.02				
3	Reasonable Return	14.98	38.66				
4	<b>Gross Expenditure</b>	<b>284.47</b>	<b>305.47</b>				
3	Less: Non-Tariff Income	2.67	6.42				
4	<b>Net Expenditure</b>	<b>281.80</b>	<b>299.05</b>				
5	Add : True up of previous years including carrying cost	-6.52	-6.52				
6	Less: SLDC related expense	10.08	14.35				
4	Add: Impact of revised year wise capitalisation of REC II Scheme	-4.16	-4.16				
5	<b>Aggregate Revenue Requirement</b>	<b>261.04</b>	<b>274.02</b>				
<b>B</b>	<b>Revenue</b>						
1	Revenue from Transmission Charges						
	<b>Total Revenue</b>						
<b>C</b>	<b>Surplus / (Gap)</b>						

Note: Please give detailed explanation separately for the deviations on account of uncontrollable factors

Petitioner

Name of Transmission Licensee  
Power Transmission Corporation of Uttarakhand Limited

### Form 21.1

### Shunt Capacitor Addition / Repair Program

S.No.	Particulars	Capacity (MVAR)
<b>Capacitor Additions</b>		
1	Total Capacitors requirement at the end of Previous year	360
2	Actual installed Capacitors at the end of Previous Year	315
3	Backlog/shortfall at the end of previous year (1-2)	50
4	Additional Requirement for the Current Year	45
5	Total Capacity required to be added during the current year (3+4)	95
6	Actual installed during first half of Current year	0
7	Target for the 2nd half of Current year	75
8	Total Capacitors likely to be added during Current Year (6+7)	75
9	Total capacity likely to be available by the end of current year (2+8)	390
10	Short fall if any (5-9)	-10
<b>Repair of Defective Shunt Capacitors</b>		
11	At the end of the end of previous year	37.5
12	Net Capacity Available by the end of previous year (2-11)	277.5
13	Capacitors damaged during 1st half of the current year	0
14	Capacitors repaired during 1st half of the current year	2.5
15	Net Capacity Available by the end of 1st half of the year (12-13+14)	280
16	Target level of damaged capacitors by the end of current year	0
17	Net Capacity Likely to be Available by the end of current year (9-16)	390
18	Net Shortfall, by the end of the year (5-17)	-10

*The above statement is to be accompanied by a detailed note to outline the reasons thereof and measures taken/ planned for improvement.*

**Petitioner**

Name of Transmission Licensee

Power Transmission Corporation of Uttarakhand Limited

## Form 21.2

### Electrical Accidents

Type of Accident	No. of Accidents					
	Previous year			Current year		
	FATAL	NON FATAL	Total	FATAL	NON FATAL	Total
HUMAN						
ANIMAL				2		2
Total						

Petitioner

Name of Transmission Licensee

Power Transmission Corporation of Uttarakhand Limited

**Form 21.3****Failure of Transformers**

Sl. No.	Item	Preceding Year			Current Year (Actual)		
		No. of Transformers	No. of failures	Total Duration of failure (Hrs.)	No. of Transformers	No. of failures	Total Duration of failure (Hrs.)
	<b>Transformation ratio</b>						
1	Transformation ratio 1 (400/220)	4	0	0	6	0	0
2	Transformation ratio 2 (220/132)	16	0	0	18	0	0
3	Transformation ratio 3 (220/33)	4	0	0	5	0	0
4	Transformation ratio 4 (132/33)	77	1	0	79	1	0
5	Transformation ratio 4 (132/66)	4	0	0	4	0	0
	<b>Average duration of interruption</b>						
5	Average duration of interruption per transformer for Transformation ratio 1						
6	Average duration of interruption per transformer for Transformation ratio 2						
7	Average duration of interruption per transformer for Transformation ratio 3						
8	Average duration of interruption per transformer for Transformation ratio 4						

Petitioner