

Pro-forma for furnishing Actual annual performance/operational expenses for the Transmission Systems for the 5-year period from 2017-18 to 2021-22							
Name of Transmission Company:		Power Grid Corporation of India Limited					
Name of Transmission Region:		North Eastern Region					
Table-1 - Region wise information (average for the year, but otherwise total for the region) for AC system							
Sl. No.	Particulars	Units	2017-18	2018-19	2019-20	2020-21	2021-22
1.	Number of AC Substation in operation	No.					
	(1) 765 kV		0	0	0	0	0
	(2) 400 kV		5	5.5	6	6	6.5
	(3) 220 kV		3	3	3	3	2.5
	(4) 132 kV		10	11.5	12	12	12
(Nomenclature are as per highest available voltage level)		Note : (a) Average is calculated based on data as on 1st April and data as on 31 march for that FY. (b) Yearwise data is the cumulative figure of that year.					
2.	Transformation capacity of AC Substation in operation	MVA*					
	(1) 765 kV		0	0	0	0	0
	(2) 400 kV		2375	2940	3912.5	4820	5320
	(3) 220 kV		600	680	680	760	965
	(4) 132 kV		250	295	310	310	310
(Nomenclature are as per highest available voltage level)		* In earlier submitted data for 2017-18, classification of MVA considered was based on highest voltage level available in a particular substation. Presently, MVA has been clasified based on highest voltage level of each Transformer. Further, earlier submitted data for 2017-18 included MVA corresponding to SVC/ STATCOM Coupling tranformers and same has been removed.					
3.	Number of bays in each AC Substation in operation	No.					
	(1) 765 kV		0	0	0	0	0
	(2) 400 kV		74	81.5	88	98	109
	(3) 220 kV		34.5	35.5	39.5	44.5	46.5
	(4) 132 kV		127	148.5	159	159.5	160.5
(Nomenclature are as per highest available voltage level)		Note : (a) Average is calculated based on data as on 1st April and data as on 31 march for that FY. (b) Yearwise data is the cumulative figure of that year.					
4.	Ckt-km of AC lines in operation						
	(1) 765 kV	0	0	0	0	0	
	(2) 765 kV charged at 400 KV	0	0	0	0	0	
(3) 400 kV	2377.22	2434.39	2434.39	2571.51	2943.24		

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Sl. No.	Particulars		Units	2017-18	2018-19	2019-20	2020-21	2021-22
	(4)	400 kV Charged at 220 KV	No.	766.07	766.07	766.07	766.07	544.07
	(5)	400 kV Charged at 132 KV		661.60	804.60	947.60	820.40	693.20
	(6)	220 kV		641.91	641.91	642.51	643.11	643.11
	(7)	132 kV		1931.76	2087.34	2140.05	2140.05	2140.05
	(Nomenclature are as per highest available voltage level)							
5.	Total number of employees* engaged in O&M of Sub-station							
	(1)	765 kV	No	333	0	0	0	0
	(2)	400 kV			167	148	119	104
	(3)	220 kV			54	49	43	50
	(4)	132 kV			154	138	129	126
	(1)	765 kV	Cost (Rs. Lakhs)	7386.94	0.00	0.00	0.00	0.00
	(2)	400 kV			3517.86	3554.98	3311.05	3145.51
	(3)	220 kV			1137.51	1176.99	1196.43	1512.26
	(4)	132 kV			3244.02	3314.78	3589.29	3810.91
(Nomenclature are as per highest available voltage level)								
6.	Total number of employees* engaged in O&M of Transmission Lines							
	(1)	765 kV	No	180	0	0	0	0
	(2)	400 kV			80	79	64	67
	(3)	220 kV			25	19	17	18
	(4)	132 kV			86	90	85	75
	(1)	765 kV	Cost (Rs. Lakhs)	3992.94	0.00	0.00	0.00	0.00
	(2)	400 kV			1685.20	1897.59	1780.74	2026.43
	(3)	220 kV			526.63	456.38	473.01	544.42
	(4)	132 kV			1811.59	2161.81	2365.04	2268.40
(Nomenclature are as per highest available voltage level)								
7.	Auxiliary Power Consumption (excluding colony power)							
	(1)	765 kV	MU	0	0	0	0	0
	(2)	400 kV		3.36	3.92	3.53	3.66	3.37
	(3)	220 kV		0.21	0.59	0.46	0.52	0.50

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Sl. No.	Particulars		Units	2017-18	2018-19	2019-20	2020-21	2021-22
	(4)	132 kV		1.23	1.54	1.68	1.48	1.55
	(Nomenclature are as per highest available voltage level)							
8.	Colony Power Consumption							
	(1)	765 kV		0	0	0	0	0
	(2)	400 kV		1.40	1.04	1.02	0.99	0.95
	(3)	220 kV		0.43	0.44	0.39	0.45	0.44
	(4)	132 kV		1.33	0.84	0.93	1.01	0.94
	(Nomenclature are as per highest available voltage level)							
9.	Spare ICTs/Reactors							
	(1)	765 kV ICT		0	0	0	0	0
	(2)	400 kV ICT		1	0	0	0	0
	(2)	400 kV Reactor		0	2	0	0	0
	(3)	220 kV ICT		0	1	0	0	0
	(4)	132 kV ICT		0	1	0	0	0
	(1)	765 kV ICT		0	0	0	0	0
	(2)	400 kV ICT		1184.16	0	0	0	0
	(2)	400 kV Reactor		0	1616.07	0	0	0
	(3)	220 kV ICT		0	766.49	0	0	0
	(4)	132 kV ICT		0	387.17	0	0	0
	(Nomenclature are as per highest available voltage level)			Asset capitalised in the concerned FY is considered				
10.	Spare Smoothing Reactors							
	(1)	765 kV		0	0	0	0	0
	(2)	400 kV		0	0	0	0	0
	(3)	220 kV		0	0	0	0	0
	(4)	132 kV		0	0	0	0	0
	(1)	765 kV		0	0	0	0	0
	(2)	400 kV		0	0	0	0	0
	(3)	220 kV		0	0	0	0	0
	(4)	132 kV		0	0	0	0	0
	(Nomenclature are as per highest available voltage level)							

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Sl. No.	Particulars		Units	2017-18	2018-19	2019-20	2020-21	2021-22
11.	ICTs							
	(1)	765 kV	No.	0	0	0	0	0
	(2)	400 kV		9	10.5	13	15	16
	(3)	220 kV		7.5	8	8	8.5	10
	(4)	132 kV		8	11	12	12	12
	(1)	765 kV	Cost (Rs. Lakhs)	Data separately not available/maintained				
	(2)	400 kV						
	(3)	220 kV						
	(4)	132 kV						
	(Nomenclature are as per highest available voltage level)							
12.	Reactors							
	(1)	765 kV	No.	0	0	0	0	0
	(2)	400 kV		31	35	38	41	44
	(3)	220 kV		1	1.5	2	2	2
	(4)	132 kV		5	7	8	8	8
	(1)	765 kV	Cost (Rs. Lakhs)	Data separately not available/maintained				
	(2)	400 kV						
	(3)	220 kV						
	(4)	132 kV						
	(Nomenclature are as per highest available voltage level)							
13.	STATCOM		No.	0	0	0	0	0
			Cost (Rs.)	0	0	0	0	0
14.	Average outage duration for							
	A.	Transmission Lines						
	(1)	765 kV	Hours/ year	0	0	0	0	0
	(2)	400 kV		5.31	5.69	8.47	11.33	9.05
	(3)	220 kV		10.69	13.66	8.72	13.73	15.95
	(4)	132 kV		8.48	9.31	12.60	14.10	15.10
	B.	Transformers						
	(1)	765 kV	Hours/ year	0	0	0	0	0
	(2)	400 kV		5.66	7.12	10.51	8.59	7.57
	(3)	220 kV		3.72	13.05	12.80	10.21	6.95
	(4)	132 kV		5.46	1.74	4.41	8.26	17.21
	C.	Reactors						
	(1)	765 kV	Hours/ year	0	0	0	0	0
(2)	400 kV	5.93		4.14	3.28	6.49	9.31	

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**Table-1 - Region wise information (average for the year, but otherwise total for the region) for AC system**

Sl. No.	Particulars	Units	2017-18	2018-19	2019-20	2020-21	2021-22
	(3) 220 kV		8.83	4.37	0.00	14.26	5.71
	(4) 132 kV		0.00	0.00	1.05	3.02	55.11
	(Nomenclature are as per highest available voltage level)						
15.	Cost of Initial spares (for S/S)						
	A. Capitalized						
	(1) 765 kV						
	(2) 400 kV		183.68	1187.14	908.70	863.64	1169.94
	(3) 220 kV						
	(4) 132 kV						
	B. In Stock						
	(1) 765 kV	(Rs. in Lakhs)	Data separately not available/maintained				
	(2) 400 kV						
	(3) 220 kV						
	(4) 132 kV						
	C. Cost of initial spares consumed						
	(1) 765 kV						
	(2) 400 kV						
	(3) 220 kV						
	(4) 132 kV						
16.	Cost of O&M spares Consumed (for S/s)						
	(1) 765 kV						
	(2) 400 kV	(Rs. In Lakhs)	482	348	411	342	1129
	(3) 220 kV						
	(4) 132 kV						
	(Nomenclature are as per highest available voltage level)						
17.	Cost of Initial spares (for Lines)						
	A. Capitalized						
	(1) 765 kV						
	(2) 400 kV		813.67	743.09	0.00	0.00	65.87
	(3) 220 kV						
	(4) 132 kV						
	B. In Stock						
	(1) 765 kV	(Rs. In Lakhs)	Data separately not available/maintained				
	(2) 400 kV						

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Sl. No.	Particulars		Units	2017-18	2018-19	2019-20	2020-21	2021-22
	(3)	220 kV		Data separately not available/maintained				
	(4)	132 kV						
	C.	Cost of initial spares consumed						
	(1)	765 kV						
	(2)	400 kV						
	(3)	220 kV						
	(4)	132 kV						
18.	Cost of O&M spares Consumed (for Lines)		(Rs. In Lakhs)					
	(1)	765 kV		231	132	53	119	359
	(2)	400 kV						
	(3)	220 kV						
	(4)	132 kV						
	(Nomenclature are as per highest available voltage level)							

**Note:** \*Executive & non-executive/contract labour

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**Table-2 - Station wise information (average for the year) for HVDC systems : B'Chariali**

Sl. No.	Particulars	Units	2017-18	2018-19	2019-20	2020-21	2021-22
1	Total number of employees* engaged in sub-station O&M	No.	14	23	25	22	21
		Cost (Rs. in lakh)	310.56	704.40	593.18	608.33	586.51
2	Total number of employees* engaged in O&M of Transmission Lines	No.	Data for manpower for HVDC TL O&M is not available separately as the same set of employees are maintaining both type of lines (AC & HVDC)				
		Cost (Rs. in lakh)					
3	Auxiliary power consumption (excluding colony power)	(MU)	2.18	6.95	6.31	6.51	5.97
4	Colony power consumption	(MU)	0.52	0.27	0.19	0.20	0.23
5	Outage duration	Pole-days	21.28	1.51	1.58	4.32	20.01
6	Load curtailment	MW - days	Data separately not available/maintained				
7	Cost of initial spares	(Rs. in lakh)					
	a) Capitalized		0.00	0.00	0.00	0.00	0.00
	b) In Stock		Data separately not available/maintained				
	c) Consumed						
8	Cost of O&M spares consumed	(Rs. in lakh)	56.11	19.90	38.46	178.70	105.16

**Note:** \*Executive & non-executive/contract labour

**Pro-forma for furnishing Actual annual performance/operational data for the communication system for the 5-year period from 2017-18 to 2021-22**

<b>Name of Transmission Company:</b>	<b>Power Grid Corporation of India Limited</b>
<b>Name of Transmission Region:</b>	<b>North Eastern Region</b>

**Table-3 - Region wise information (average for the year, but otherwise total for the region) for Communication system**

Sl. No.	Particulars	Units	2017-18	2018-19	2019-20	2020-21	2021-22
1.	Number of Communication Nodes in operation	(No.)	19	26	26	48	48
2.	Average length of OPGW links in operation	(in Kms.)	1013	1639	1639	2093	2320
3.	Number of Remote Terminal Units(RTUs)	(No.)	28	26	26	26	26
4.	Number of PLCC links	(No.)	21	0	0	0	0
5.	Number of OPGW links	(No.)	21	28	28	52	52
6.	Number of Auxiliary Power Supply(DC) Nodes	(No.)	25	26	48	48	48
7.	Number of employees engaged in O&M of RTU and Communication System	(No.)					
	1) Executive		2	2	2	2	2
	2) Non executive		1	1	1	1	1
	3) Outsourced						
8.	Average outage duration for	(hours/year)					
	a) Wideband Communication Links		668.24	205.86	201.48	175.2	174
	b) RTUs		804				
	c) PLCC		750				
	d) Auxiliary Power Supply System		80				
9.	Cost of Initial spare	( INR in lakh)					
	a) Capitalized		3.33	7.9	0	95.4	47.82
	b) In Stock		Data separately not available/maintained				
	c) Consumed		Data separately not available/maintained				
10.	Cost of O&M spares a) Consumed	( INR in lakh)	0	0	0	0	0
11.	Number of PMU installed in the region	(No.)	8	8	59	59	59
12.	O & M expenses of PMU incurred in the region	( INR in lakh)	0	0	41	165	249



(Note: separate note on utilization of PMU is to be given along with benefit availed during the year)

**Details of Operation & Maintenance Expenses of Transmission O&M service (To be filled for each of the  
Transmission Region)**

<b>Name of Transmission Company:</b>		<b>Power Grid Corporation of India Limited</b>				
<b>Name of Transmission Region:</b>		<b>North Eastern Region</b>				
(Rs. In Lakhs)						
<b>Sr.No.</b>	<b>ITEM</b>	<b>2017-18</b>	<b>2018-19</b>	<b>2019-20</b>	<b>2020-21</b>	<b>2021-22</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
<b>1.0</b>	<b>Repairs and Maintenance Expenses :</b>					
1)	Repairs of Plant & Machinery	2886.42	2891.16	3708.83	3610.86	3556.58
2)	Consumption of Stores (not capitalized)	768.47	812.13	1153.19	1320.59	2111.36
3)	Consumption of Spares (not capitalized )	Included in 1.0 (1)				
4)	Patrolling expenses	Included in natural heads of expenditure				
5)	Power Charges (electricity consumed for	1563.24	1455.94	1527.15	1376.58	1203.98
6)	Expenses of Diesel Generating sets	37.82	48.19	60.75	43.10	52.35
7)	Provisions	0	0	0	0	0
8)	Prior Period Adjustment , if any	0	0	0	0	0
9)	Other expenses, if any (please provide details)	0	0	0	0	0
	<b>Sub-total (R&amp;M Expenses)</b>	<b>5255.95</b>	<b>5207.42</b>	<b>6449.93</b>	<b>6351.14</b>	<b>6924.27</b>
<b>2.0</b>	<b>Administrative &amp; General Expenses:</b>					
1)	Insurance	884.22	1021.33	933.66	831.14	704.78
2)	Security (General other than special)	1385.33	1777.77	2459.19	2123.07	1759.64
3)	Rent	144.02	330.19	872.75	737.16	517.45
4)	Electricity Charges	Included in 1.0 (5) above				
5)	Traveling and conveyance	423.23	541.59	579.74	426.67	575.82
6)	Communication expenses	42.26	59.42	89.43	73.37	120.32
7)	Advertisement and publicity	151.15	110.69	136.41	121.24	61.65
8)	Foundation laying and inauguration	0.00	0.00	0.00	0.00	0.00
9)	Books Periodicals and Journals	3.36	8.59	6.77	5.08	5.64
10)	Research expenses	0.00	16.95	32.54	14.71	1.40
11)	Cost Audit Fees	16.04	11.21	13.50	12.52	12.22
12)	Horticulture Expenses	9.15	24.08	24.89	37.03	15.78
13)	Bandwidth charges dark fibre lease charges	379.31	354.36	328.04	294.41	456.16
14)	Donations expenses	0	0	0	0	0
15)	Entertainment expenses	6.36	8.93	9.35	15.49	19.91
16)	Filing Fees	362.45	286.11	434.11	334.32	342.57
17)	Legal Expenses	410.22	62.51	69.79	42.84	144.73
18)	Consultancy Expenses	0	1.08	1.54	0.24	-0.50
19)	Professional charges (not covered under	3.49	38.49	41.79	40.19	67.75
20)	Printing and Stationary	28.96	34.51	32.36	31.46	25.60
21)	Hiring of Vehicle (excluding construction &	851.16	848.93	557.15	600.58	908.96
22)	Training and Recruitment expenses	62.10	203.06	239.66	93.39	112.15
23)	Rates and taxes	181.26	234.14	238.62	184.59	238.40
24)	Rebate to Customers	1285.31	1215.43	656.44	6209.49	725.14

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Name of Transmission Company:		Power Grid Corporation of India Limited				
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25)	Self Insurance Reserve	848.99	1048.45	1065.45	1101.66	1195.50
26)	Provisions (Provide details)	0	0	0	0	0
27)	Prior Period Adjustment , if any	0	0	0	0	0
28)	Any other A&G expenses (Provide details)	804.37	1896.04	1356.47	1260.67	1131.33
	<b>Sub-total(A&amp;G Expenses)</b>	<b>8282.76</b>	<b>10133.84</b>	<b>10179.65</b>	<b>14591.32</b>	<b>9142.41</b>
<b>3.0</b>	<b>Employee Expenses</b>					
1)	Salaries, wages and allowances	9326.07	7426.97	8246.47	8108.28	8651.81
2)	Staff welfare expenses					
	a) Contribution to Provident and other funds	486.09	1436.36	1058.72	1619.78	1712.21
	b) Gratuity	-531.07	-298.17	59.60	44.78	39.98
	c) Pension	462.06	72.68	71.93	64.69	62.85
	d) Employee Medical Expenses	509.46	623.85	362.50	443.80	351.63
	e) Liveries and Uniforms	41.45	233.50	489.62	206.73	180.25
	f) Safety & Appliances expenses	8.93	11.68	8.06	14.18	3.68
	g) Others	294.99	540.21	519.80	513.52	598.47
3)	Productivity linked incentive	0	0	0	0	0
4)	Expenditure on VRS	0	0	0	0	0
5)	Ex-gratia	0	0	0	0	0
6)	Performance related pay (PRP)	1225.56	2580.15	2339.00	2308.13	2293.55
7)	Any other expenses	0	0	0	0	0
8)	Provisions (furnish details separately)	0	0	0	0	0
9)	Prior Period Adjustment , if any (furnish details)	0	0	0	0	0
10)	VII Pay Arrears Paid Pertaining to period prior to 2017-18	0	0	0	0	0
	<b>Sub-total( Employee Expenses)</b>	<b>11823.54</b>	<b>12627.21</b>	<b>13155.70</b>	<b>13323.89</b>	<b>13894.44</b>
4.0	Additional /Specific Security it any on the	930.56	993.11	1041.87	1239.55	1174.09
5.0	Loss of store/Disposal/Write off	0	0	0	0	0
6.0	Provisions (other than above)	0	0	0	0	0
7.0	Prior Period Adjustment , if any (not covered	0	0	0	0	0
8.0	Corporate office expenses allocation	0	0	0	0	0
	(i) Transmission O&M Service	2796.66	1819.87	1571.33	1405.31	1307.59
	(ii) Projects under construction	0	0	0	0	0
	(iii) ULDC -Communication	0	0	0	0	0
	(iv) Consultancy services, if any	0	0	0	0	0
	(v) Other business (Telecom)	0	0	0	0	0
	(vi) Other business (if any)	0	0	0	0	0
9.0	Corporate Social Responsibility expenses	312.82	650.87	1539.13	1480.25	1806.56
10.0	- Others (Specify items not included above)					

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<b>Name of Transmission Company:</b>		<b>Power Grid Corporation of India Limited</b>				
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	<b>Sub Total (1 to 10)</b>	<b>29402.29</b>	<b>31432.32</b>	<b>33937.62</b>	<b>38391.47</b>	<b>34249.35</b>
11	Other Income, Revenue and Recoveries, if any	0	0	0	0	0
a)	Short term open access (other than transmission	0	0	0	0	0
b)	System & Market operation charges	0	0	0	0	0
c)	Interest on differential tariff recovered	0	0	0	0	0
d)	Consultancy Services	0	0	0	0	0
e)	Interest against Loans and advances	0	0	0	0	0
f)	Interest from advanced to	0	0	0	0	0
g)	Income from lease of assets	0	0	0	0	0
h)	Disposal of scrap/stores (not covered under	0	0	0	0	0
i)	Interest on Government securities	0	0	0	0	0
j)	Miscellaneous income from operations	0	0	0	0	0
k)	Revenue/ Recoveries, if any	0	0	0	0	0
12	Net Expenses	<b>29402.29</b>	<b>31432.32</b>	<b>33937.62</b>	<b>38391.47</b>	<b>34249.35</b>
13	Capital spares consumed <b>not included in (A) (1) above and not claimed/allowed by Commission</b> for capitalization	Capital Spares not claimed/allowed by CERC have been consumed as O&M Spares				
13A	Expenses against Capital expenditure incurred for Operation and Maintenance of Transmission System (not included in Capital Cost/Repair & Maintenance expenditure indicated 1.0(1) above)	549.59	To be claimed separately			
14	Total Expenses (12) + (13A)	<b>29951.88</b>	<b>31432.32</b>	<b>33937.62</b>	<b>38391.47</b>	<b>34249.35</b>

Notes:					
I.	The details of Corporate Expenses and the methodology of allocation of corporate expenses to various				
II.	An annual increase in O&M expenses under a given head in excess of 10% percent should be explained.				
III.	The data should be based on audited balance sheets, duly reconciled and certified.				
IV.	Employee cost should be excluding arrears paid for pay hike/prior period adjustment /payment				
IV.	Details of arrears, if any, pertaining to period prior to the year 2017-18 should be mentioned separately.				
V.	No. of employees opting for VRS during each year should be indicated.				
VI.	Details of abnormal expenses, if any, shall be furnished separately.				
VII	Break-up of staff welfare expenses should be furnished				
VIII	Details of Consumptive Water requirement , contracted quantum and actual water consumed with				
IX.	Details of capital spares consumed each year which were not claimed/allowed in the tariff should be				

<b>Break Up of other A &amp; G Expenses (Indicated at 2 (28) above)</b>						
<b>Sr. No.</b>	<b>Item</b>	<b>2017-18</b>	<b>2018-19</b>	<b>2019-20</b>	<b>2020-21</b>	<b>2021-22</b>
1	Tax and Statutory Audit Fees	21.36	19.81	28.90	12.03	14.66

**Details of Operation & Maintenance Expenses of Transmission O&M service (To be filled for each of the Transmission Region)**

<b>Name of Transmission Company:</b>		<b>Power Grid Corporation of India Limited</b>				
<b>Name of Transmission Region:</b>		<b>North Eastern Region</b>				
2	EDP Expenses	10.93	81.04	53.27	47.35	50.20
3	Miscellaneous Expenses	772.74	183.86	659.73	504.22	1072.69
4	Bad Debts Expenses	0	1610.62	0.02	2.38	-6.47
5	FERV Expense	-0.66	0.70	614.55	694.68	0.24
	<b>Total</b>	<b>804.37</b>	<b>1896.04</b>	<b>1356.47</b>	<b>1260.67</b>	<b>1131.33</b>

Name of Transmission Company:	Power Grid Corporation of India Limited	
Name of Transmission Region:	North Eastern Region	
Particulars	Year	Reason of Variance
Insurance	2018-19	Change in Mega Insurance policy premium based on sum insured increase in asset
Security (General other than special)	2018-19	Due to increase in security at Silchar, Balipara & Biswanath Chariali substations
Rent	2018-19	Increase in transit hostel expenses
Traveling and conveyance	2018-19	Due to increase in conveyance expenses
Horticulture Expenses	2018-19	Increase in cost against various substations
Legal Expenses	2018-19	Decrease in arbitration cases
Professional charges (not covered under employee expenses)	2018-19	Increase in certification cost
Training and Recruitment expenses	2018-19	Increase in training cost due to addition of new employees
Rates and taxes	2018-19	Increase in taxes under GST
Self Insurance Reserve	2018-19	Increase due to increase in assets
Any other A&G expenses (Provide details)	2018-19	Provision for bad debts
Repairs of Plant & Machinery	2019-20	Renovation/repair of residential and non residential building, road repair, gravel spreading, etc at 25 years old substations at Aizwal, Misa, Jiribam, Bongaigaon, Dimapur, PK Bari, Nirjuli, Imphal, Bailipara, Kumarghat, Ziro
Consumption of Stores(Not Capitalized)	2019-20	a) Consumption of material during Overhauling of CBs at Balipara b) Installation of TLAs to prevent outages due to lightning
Security (General other than special)	2019-20	Due to increase in security at Silchar, Balipara & Biswanath Chariali S/s and increase in wages
Rent	2019-20	a) Increase in short term vehicle and buildings lease b) Decrease in short term lease
Communication Expenses	2019-20	Increase due to revision in employee entitlements.
Filing Fees	2019-20	Increase due to addition of new assets
Hiring of Vehicle (excluding construction & Corporate exp)	2019-20	Decrease due to presentation of short term vehicle and Buildings lease in Rent
Rebate to Customers	2019-20	Reduction in rebate due to change of rate from 2% to 1.5% in new tariff block
Any other A&G expenses (Provide details)	2019-20	Due to decrease in bad debts
Insurance	2020-21	Change in cost of insurance
Security (General other than special)	2020-21	Increase due to addition of new assets
Traveling and conveyance	2020-21	Decrease mainly due to Covid-19 impact
Communication Expenses	2020-21	Decrease in mobile charges due to COVID-19
Advertisement and publicity	2020-21	Due to reduction in advertisement cost for tender notices due to shift to online mode
Horticulture Expenses	2020-21	Increase in cost against Biswanath Chariali SS
Entertainment expenses	2020-21	Increase in expenses due to asset increase
Training and Recruitment expenses	2020-21	Reduction in training cost due to COVID-19
Rebate to Customers	2020-21	Increase in rebate due to special covid rebate
Any other A&G expenses (Provide details)	2020-21	increase in RLDC fees and decrease in ferv

Consumption of Stores(Not Capitalized)	2021-22	i)Increase in O&M consumption for installation of TLAs (Surge Arrestors & towers) in transmission line under at Bongaigaon, Kumarghat, Nirjuli & Dimapur S/s ii)Consumption of material for rectification of tower in 132kV Roing Pasighat TL
Power charges	2021-22	Arrear payment for Tertiary Power charges for substations under Odisha
Expenses of Diesel Generating sets	2021-22	Expense increased due to more running of DG due to low reliability/frequent outage of state supply line at few stations
Insurance	2021-22	Change in cost of insurance
Traveling and conveyance	2021-22	Increase in travel due to relaxation of covid norms
Communication Expenses	2021-22	Increase due to employee entitlements.
Advertisement and publicity	2021-22	Due to reduction in advertisement cost for tender notices due to shift to online mode
Bandwidth charges dark fibre lease charges (Telecom) etc	2021-22	Due to increase in transmission assets
Entertainment expenses	2021-22	Increase in expenses due to asset increase
Legal Expenses	2021-22	Increase in arbitration cases
Professional charges (not covered under employee expenses)	2021-22	Increase in Consultant charges
Hiring of Vehicle (excluding construction & Corporate exp)	2021-22	Increase due to asset addtions
Training and Recruitment expenses	2021-22	Increase in traning cost post COVID-19
Rebate to Customers	2021-22	Decrease in rebate due to special covid rebate given in FY 2020-21

**DETAILS OF OPERATION AND MAINTENANCE EXPENSES OF COMMUNICATION SYSTEM (OTHER THAN TELECOM OR OTHER BUSINESS)**

Name of Transmission Company:

Power Grid Corporation of India Limited

Name of Transmission Region:

North Eastern Region

(Rs. In Lakhs)

Sr.No.	ITEM	2017-18	2018-19	2019-20	2020-21	2021-22
1	2	3	4	5	6	7
<b>1.0</b>	<b>Repairs and Maintenance Expenses :</b>					
1)	Repairs of Plant & Machinery	3.47	81.54	142.97	171.15	155.18
2)	Consumption of Stores (not capitalized)	67.59	0	0	0	0
3)	Consumption of Spares (not capitalized)	Included in 1.0 (1)				
4)	Patrolling expenses	Included in natural heads of expenditure				
5)	Power Charges (electricity consumed for repairing)	0	0	0	0	0
6)	Expenses of Diesel Generating sets	0	0	0	0	0
7)	Provisions	0	0	0	0	0
8)	Prior Period Adjustment , if any	0	0	0	0	0
9)	Other expenses, if any (please provide details)	0	0	0	0	0
	<b>Sub-total (R&amp;M Expenses)</b>	<b>71.06</b>	<b>81.54</b>	<b>142.97</b>	<b>171.15</b>	<b>155.18</b>
<b>2.0</b>	<b>Administrative &amp; General Expenses:</b>					
1)	Insurance	0.05	0	0	0	0
2)	Security (General other than special)	0.25	0	0	0	0
3)	Rent	0	0	0	0	0
4)	Electricity Charges	0	0	0	0	0
5)	Traveling and conveyance	16.85	13.09	15.96	9.58	6.22
6)	Communication expenses	1.46	1.33	2.20	1.38	1.33
7)	Advertisement and publicity	6.84	8.53	6.65	5.86	7.38
8)	Foundation laying and inauguration	0	0	0	0	0
9)	Books Periodicals and Journals	0.02	0	0	0	0
10)	Research expenses	0	0	0	0	0
11)	Cost Audit Fees	0.04	0	0	0	0
12)	Horticulture Expenses	0.03	0	0	0	0
13)	Bandwidth charges dark fibre lease charges	11.80	36.19	11.19	23.15	143.72
14)	Donations expenses	0	0	0	0	0
15)	Entertainment expenses	0.12	0.12	0.21	0.09	-0.09
16)	Filing Fees	1.76	4.00	9.56	7.94	7.57
17)	Legal Expenses	0.90	0.03	0	0	0
18)	Consultancy Expenses	0	0	0	0	0
19)	Professional charges (not covered under employee	0	0	0	0	0
20)	Printing and Stationary	0.01	0	0	0	0
21)	Hiring of Vehicle (excluding construction &	0	0	0	0	0
22)	Training and Recruitment expenses	0.58	0.85	1.52	0.54	0.26
23)	Rates and taxes	0	0	0	0	0
24)	Rebate to Customers	0	12.72	7.85	5.11	12.73
25)	Self Insurance Reserve	0	0	0	0	0
26)	Provisions (Provide details)	0	0	0	0	0
27)	Prior Period Adjustment , if any	0	0	0	0	0



28)	Any other A&G expenses (Provide details)	2.30	0	0	0	0
	<b>Sub-total(A&amp;G Expenses)</b>	<b>43.01</b>	<b>76.85</b>	<b>55.13</b>	<b>53.66</b>	<b>179.13</b>
<b>3.0</b>	<b>Employee Expenses</b>					
1)	Salaries, wages and allowances	146.35	351.15	248.99	211.00	112.73
2)	Staff welfare expenses		1.01	7.89	8.21	5.60
	a) Contribution to Provident and other funds	7.44	31.97	30.91	25.52	20.86
	b) Gratuity	-8.44	0	0	0	0
	c) Pension	11.72	1.35	2.04	1.79	1.16
	d) Employee Medical Expenses	10.16	10.27	4.55	3.09	1.01
	e) Liveries and Uniforms	0.72	7.58	12.88	6.08	3.22
	f) Safety & Appliances expenses	0.35	0	0	0	0
	g) Others	8.44	0	0	0	0
3)	Productivity linked incentive	0	0	0	0	0
4)	Expenditure on VRS	0	0	0	0	0
5)	Ex-gratia	0	0	0	0	0
6)	Performance related pay (PRP)	22.29	38.15	0.00	1.05	0.00
7)	Any other expenses	0	0	0	0	0
8)	Provisions (furnish details separately)	0	0	0	0	0
9)	Prior Period Adjustment , if any (furnish details	0	0	0	0	0
10)	VII Pay Arrears Paid Pertaining to period prior to 20	0	0	0	0	0
	<b>Sub-total( Employee Expenses)</b>	<b>199.02</b>	<b>441.47</b>	<b>307.25</b>	<b>256.74</b>	<b>144.57</b>
4.0	Additional /Specific Security it any on the advise	0	0	0	0	0
5.0	Loss of store/Disposal/Write off	0	0	0	0	0
6.0	Provisions (other than above)	0	0	0	0	0
7.0	Prior Period Adjustment , if any (not covered	0	0	0	0	0
8.0	Corporate office expenses allocation	0	0	0	0	0
	(i) Transmission O&M Service	0	0	0	0	0
	(ii) Projects under construction	0	0	0	0	0
	(iii) ULDC -Communication	0	8.34	26.52	0.00	0.00
	(iv) Consultancy services, if any	0	0	0	0	0
	(v) Other business (Telecom)	0	0	0	0	0
	(vi) Other business (if any)	0	0	0	0	0
9.0	Corporate Social Responsibility expenses	0	0	0	0	0
10.0	- Others (Specify items not included above)	0	0	0	0	0
	<b>Sub Total (1 to 10)</b>	<b>313.09</b>	<b>608.20</b>	<b>531.87</b>	<b>481.55</b>	<b>478.88</b>
11	Other Income, Revenue and Recoveries, if any	0	0	0	0	0
a)	Short term open access (other than transmission	0	0	0	0	0
b)	System & Market operation charges	0	0	0	0	0
c)	Interest on differential tariff recovered	0	0	0	0	0
d)	Consultancy Services	0	0	0	0	0
e)	Interest against Loans and advances	0	0	0	0	0
f)	Interest from advanced to contractors/suppliers	0	0	0	0	0
g)	Income from lease of assets	0	0	0	0	0
h)	Disposal of scrap/stores (not covered under	0	0	0	0	0
i)	Interest on Government securities	0	0	0	0	0
j)	Miscellaneous income from operations	0	0	0	0	0
k)	Revenue/ Recoveries, if any	0	0	0	0	0
12	Net Expenses	<b>313.09</b>	<b>608.20</b>	<b>531.87</b>	<b>481.55</b>	<b>478.88</b>

13	Capital spares consumed <b>not included in (A) (1)</b>	Capital Spares not claimed/allowed by CERC have been				
13A	Expenses against Capital expenditure incurred for					
14	Total Expenses (12) + (13A)	<b>313.09</b>	<b>608.20</b>	<b>531.87</b>	<b>481.55</b>	<b>478.88</b>

Notes:						
	I. The details of Corporate Expenses and the methodology of allocation of corporate expenses to various					
	II. An annual increase in O&M expenses under a given head in excess of 10% percent should be explained.					
	III. The data should be based on audited balance sheets, duly reconciled and certified.					
	IV. Employee cost should be excluding arrears paid for pay hike/prior period adjustment / payment					
	IV. Details of arrears, if any, pertaining to period prior to the year 2017-18 should be mentioned separately.					
	V. No. of employees opting for VRS during each year should be indicated.					
	VI. Details of abnormal expenses, if any, shall be furnished separately.					
	VII Break-up of staff welfare expenses should be furnished					
	VIII Details of Consumptive Water requirement , contracted quantum and actual water consumed with source , rate					
	IX. Details of capital spares consumed each year which were not claimed/allowed in the tariff should be furnished					

**Break Up of other A & G Expenses (Indicated at 2 (28) above)**

Sr. No.	Item	2017-18	2018-19	2019-20	2020-21	2021-22
1	Tax and Statutory Audit Fees	0	0	0	0	0
2	EDP Expenses	0.11	0	0	0	0
3	Miscellaneous Expenses	2.19	0	0	0	93.00
4	Bad Debts Expenses	0	0	0	0	0
5	FERV Expense	0	0	0	0	0
	Total	<b>2.30</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>93.00</b>

Additional Region-wise Information required from Transmission Licensees						
Name of Transmission Company:		Power Grid Corporation of India Limited				
Name of Transmission Region:		North Eastern Region				
Table-1 - Length (km) of Transmission Lines in Commercial Operation						
Status as on						
		1.4.2018	1.4.2019	1.4.2020	1.4.2021	1.4.2022
1	HVDC					
	a) S/C					
2	765 kV					
	a) S/C					
	b) D/C					
3	765 kV Charged at 400 KV					
	a) S/C					
4	400 kV					
	a) S/C					
	b) D/C	1217.20	1217.20	1217.20	1354.32	1626.12
5	400 kV Charged at 220 KV					
	a) D/C	383.03	383.03	383.03	383.03	161.03
6	400 kV Charged at 132 KV					
	a) D/C	330.80	473.80	473.80	346.60	309.40
7	220 kV					
	a) S/C	84.41	84.41	84.41	84.41	84.41
	b) D/C	278.75	278.75	279.35	279.35	279.35
8	Up to 132 kV					
	a) S/C	1707.71	1802.91	1802.91	1802.91	1802.91
	b) D/C	163.46	168.57	168.57	168.57	168.57

Table-2-Ckt km by Conductor Configuration							
		Type of Conductor	Status as on				
			1.4.2018	1.4.2019	1.4.2020	1.4.2021	1.4.2022
1	Quad	Moose D/C	609.76	609.76	609.76	609.76	609.76
2	Twin	Moose D/C	3252.30	3538.30	3538.90	3558.74	3583.95
3	Single	ACSR Zebra D/C	557.50	557.50	557.50	557.50	557.50
		ACSR Zebra S/C	20.18	20.18	20.18	20.18	20.18
		AAAC Zebra S/C	75.79	75.79	75.79	75.79	75.79
		ACSR Panther D/C	326.92	337.14	337.14	337.14	337.14
		ACSR Panther S/C	1106.68	1201.88	1201.88	1201.88	1201.88
		AAAC Panther S/C	589.47	589.47	589.47	589.47	589.47

Additional Region-wise Information required from Transmission Licensees					
Name of Transmission Company:	Power Grid Corporation of India Limited				
Name of Transmission Region:	North Eastern Region				
Grand Total	6538.60	6930.02	6930.62	6950.46	6975.67

Table-3- Number of AC Substations in Commercial Operation						
Status as on						
		1.4.2018	1.4.2019	1.4.2020	1.4.2021	1.4.2022
1	765 kV	0	0	0	0	0
2	400 kV	5	6	6	6	7
3	220 kV	3	3	3	3	2
4	Up to 132 kV	11	12	12	12	12

**Additional Region-wise Information required from Transmission Licensees**

**Name of Transmission Company:** Power Grid Corporation of India Limited

**Name of Transmission Region:** North Eastern Region

**Table-4 - Number of Sub-station bays in Commercial Operation**

Status as on

		1.4.2018	1.4.2019	1.4.2020	1.4.2021	1.4.2022
1	HVDC	29	29	29	29	29
2	765 kV	0	0	0	0	0
3	400 kV	76	87	89	107	111
4	220 kV	35	36	43	46	47
5	Up to 132 kV	138	159	159	160	161

**Table-5 - Cost of Outsourcing of Services (Rs. lakh)**

		2017-18	2018-19	2019-20	2020-21	2021-22
1	Substation O&M	1260.98	1419.57	2172.63	2048.44	2633.28
2	Lines O&M	1533.91	1357.11	1430.83	1561.71	1746.13
3	Security	2315.90	2748.52	3478.48	3339.80	2905.99
4	Others	2404.71	7103.63	8805.14	7916.52	8934.73
5	<b>Grand Total</b>	<b>7515.50</b>	<b>12628.84</b>	<b>15887.08</b>	<b>14866.48</b>	<b>16220.13</b>

**Table-6 - Total O&M Expenditure Including RHQ, but Excluding HVDC Stations (Rs lakh)**

		2017-18	2018-19	2019-20	2020-21	2021-22
1	O&M	27449.66	28396.21	31036.41	35547.73	31920.74
	<b>Total</b>	<b>27449.66</b>	<b>28396.21</b>	<b>31036.41</b>	<b>35547.73</b>	<b>31920.74</b>

## Annexure-X

<b>Name of Transmission Company:</b>	<b>Power Grid Corporation of India Limited</b>				
<b>Name of Transmission Region:</b>	<b>North Eastern Region</b>				
<b>Station wise O&amp;M Expenditure at HVDC Station (Rs. lakh)</b>					
<b>Particulars</b>	<b>2017-18</b>	<b>2018-19</b>	<b>2019-20</b>	<b>2020-21</b>	<b>2021-22</b>
Name of HVDC Station:	B'Chariali				
i) No of Employees	14	23	25	22	21
ii) A&G Expenses	2066	1308	1168	1010	823
iii) Repairs & Maintenance	126	1024	1140	1225	919
iv) Employee Expenses*	311	704	593	608	587
v) Corporate expenses allocated*	Included in Annexure-VI (B-I)				
vi) Other income	0	0	0	0	0
vii) Any other income	0	0	0	0	0
<b>Total Expenditure</b>	<b>2502</b>	<b>3036</b>	<b>2901</b>	<b>2844</b>	<b>2329</b>
* Excluding VII Pay arrear paid for period prior to FY 2017-18					

**Additional Region-wise Information required from Transmission Licensees (Communication System)**

<b>Name of Transmission Company:</b>	<b>Power Grid Corporation of India Limited</b>				
<b>Name of Transmission Region:</b>	<b>North Eastern Region</b>				
<b>Table-1- Details of Communication system in Commercial Operation</b>					
	<b>Status as on</b>				
	<b>1.04.2018</b>	<b>1.04.2019</b>	<b>1.04.2020</b>	<b>1.04.2021</b>	<b>1.04.2022</b>
OPGW Communication Links in operation(in Kms)	1205.39	1638.51	1638.51	2547.16	2547.16
Number of wideband Communication nodes in operation	23	26	26	56	56
Number of RTUs in operation	28	26	26	26	26
Number of PLCC links in operation	21	0	0	0	0
Number of Auxiliary Power Supply Nodes in operation	29	26	48	48	48

**Table-2- Cost of Outsourcing of Services (INR in lakhs)**

	<b>2017-18</b>	<b>2018-19</b>	<b>2019-20</b>	<b>2020-21</b>	<b>2021-22</b>
Communication system O&M	80.74	31.65	78.10	91.20	82.45
PLCC O&M	0	0	0	0	0
RTU O&M	0	0	0	0	0
Auxiliary Power Supply O&M	0	0	0	0	0
Hiring charges of Bandwidth	11.77	0	0	0	0
Security	0	0	0	0	0
Others	2	0	3.03	1.41	2
<b>Total</b>	<b>94.51</b>	<b>31.65</b>	<b>81.13</b>	<b>92.61</b>	<b>84.45</b>





Auxiliary Consumption separately for 132kV, 220kV, 400kV & 765kV AC and HVDC Substation Separately												
Name of Transmission Company:			Power Grid Corporation of India Limited									
Name of Transmission Region:			North Eastern Region									
S.no	Voltage level	Substations	2017-18		2018-19		2019-20		2020-21		2021-22	
			MU	%	MU	%	MU	%	MU	%	MU	%
1	132	AIZAWL	0.135	-	0.155	-	0.149	-	0.117	-	0.091	-
2	132	BADARPUR	0.212	-	0.113	-	0.116	-	0.130	-	0.130	-
3	400	BALIPARA	0.356	-	0.709	-	0.709	-	0.770	-	0.513	-
4	400	BONGAIGAON	0.820	-	0.525	-	0.362	-	0.453	-	0.466	-
5	220	DIMAPUR	0.056	-	0.078	-	0.088	-	0.092	-	0.116	-
6	132	HAFLONG	0.125	-	0.126	-	0.178	-	0.140	-	0.164	-
7	400	IMPHAL	0.053	-	0.203	-	0.132	-	0.113	-	0.099	-
8	132	JIRIBAM	0.089	-	0.209	-	0.184	-	0.170	-	0.175	-
9	132	KHLIEHRIAT	0.315	-	0.299	-	0.216	-	0.174	-	0.232	-
10	132	KUMARGHAT	0.028	-	0.062	-	0.047	-	0.060	-	0.084	-
11	400	MISA	0.720	-	0.678	-	0.720	-	0.653	-	0.759	-
12	132	NIRJULI	0.080	-	0.170	-	0.252	-	0.265	-	0.196	-
13	220	SALAKATI	NA	-	0.333	-	0.267	-	0.322	-	0.297	-
14	132	ZIRO	0.115	-	0.090	-	0.090	-	0.090	-	0.091	-
15	400	SILCHAR	0.600	-	0.647	-	0.499	-	0.540	-	0.546	-
16	400	MARIANI	0.078	-	0.168	-	0.209	-	0.206	-	0.133	-
17	132	NAMSAI	NA	-	0.058	-	0.077	-	0.051	-	0.038	-
18	132	TEZU	0.038	-	0.239	-	0.222	-	0.146	-	0.149	-
19	132	ROING	0.040	-	-	-	0.074	-	0.120	-	0.128	-
20	220	MOKOKCHUNG	0.090	-	0.180	-	0.105	-	0.110	-	0.083	-
21	132	MELRIAT	NA	-	0.022	-	0.073	-	0.016	-	0.072	-
22	HVDC	HVDC BNC	2.180	-	6.952	-	6.310	-	6.511	-	5.967	-
23	400	BNC	0.860	-	0.993	-	0.901	-	0.930	-	0.852	-

Details of incidental Expenses During Construction (IEDC) including compensation, employee expenses and other expenses for assets achieving COD post 01.04.2017							
Sl. No.	Name of Scheme	Sub-station (S/s)/ Transmission Line (TL)	MVA/ Line Length (km)	Compensation (Forest, crop, Tree, PTCC)	Employee Expenses	Administrative & General Expenses	Any other expenses
1	NER-P390	Jigmiling -Alipurduar (Ner Portion)			1833.07	2528.47	-
2	NER-P434	1 LINK OF CS 83.963 KM 19.03.21			12.29	11.30	-
3	NER-P448	Opern Misa-NewMarian_TL_to-400KV			209.89	219.84	-
4	NER-P484	Haflong_Jiribam_Upgrade_GIS_132KV			253.33	173.36	-
5	NER-P484	Kumarghat Upgradation			109.29	110.64	-
6	NER-P484	Aizawl_Upgrade_GIS_132KV			111.60	124.68	-
7	NER-P484	Dimapur_Upgrade_GIS_132KV			352.78	422.81	-
8	NER-P484	3x10 MVA Mokokchung ICT3			23.25	83.46	-
9	NER-NESB	Bus Reactor Misa			77.26	36.58	-
10	NER-P368	URTDISM			175.45	42.24	-
11	NER1-NES3	Balipara ICT1			39.58	101.63	-
12	NER-FONE	11 CS Links			89.71	51.79	-
13	NER-P434	09 CS Links			192.93	91.46	-
14	NER-P448	Imphal Bus Reactor 2			59.29	57.24	-
15	NER-P448	Mariani ICT 2 & BR2			288.03	308.08	-
16	NER-P448	Mariani ICT I			81.23	108.13	-
17	NER-P448	Mariani BR I			61.46	65.00	-
18	NER-P452	Silchar PK Bari Ckt I			136.03	152.30	-
19	NER-P452	Silchar PK Bari Ckt II			24.34	12.89	-
20	NER-FONE	1 link CS FONE			4.05	2.33	-
21	NER1-NES3	2nd ICT Bongaigaon			241.39	230.16	-
22	NER-P408	ICT III at Misa NERSS IV			163.71	244.55	-
23	NER1-PALA	132 kV Melriat Shimmui Tl along with bays			66.42	43.90	-
24	NER-P449	Spare ICT Nirjuli & Kopili			68.56	18.68	-
25	NER-P449	80 MVAR & 63 MVAR Reactor Bongaigaon			94.76	25.13	-
26	NER-P449	3-Ph ICT-III Silchar Substation			157.42	45.66	-
27	NER-P449	Re-conductoring of Imphal Yurembam line			6.10	2.48	-
28	NER-P434	Hot Line Speech Comm System			3.25	2.19	-
29	NER-FONE	Fiber Optic Links(4 nos) under Central sector			15.16	10.19	-
30	NER-P408	125 MVAR Bus Reactor at Bongaigaon			19.52	27.99	-
31	NER-P408	125 MVAR Bus Reactor at Balipara			28.25	39.86	-
32	NER1-PALA	4x6.67 MVAR,145 kV Bus Reactor at Namsai SS			7.67	5.09	-
33	NER1-PALA	132/33 kV,1-Ph ICT I & II at Namsai SS			29.95	19.79	-
34	NER1-PALA	132 kV Tezu-Namsai TL alongwith Bays			95.01	62.82	-
35	NER1-HVNE	400kV D/C Kameng - Balipara TL			466.52	174.12	-
36	NER-P449	Mokochung Bus Reactor			58.00	5.66	-
37	NER-P408	Bus Reactor at Silchar			87.37	-	-
38	NER1-PALA	400 kV DIC Silchar- Melriat (New) Transmission Line (charged at 132kV) along with associated bays at Silchar and Melriat Substations and 132kV Melriat (PG) GIS Substation			789.81	521.78	-
39	NER-P408	Silchar Imphal Upgradation			320.49	404.36	-
40	NER1-PALA	Aizawl-Zembawk			70.59	46.64	-
41	NER1-PALA	Bus Reactor at Melriat			6.04	3.99	-
42	NER-P408	ICT at Misa S/S			40.39	46.92	-
43	NER1-PALA	Pasighat Roing+ICT1&2+BR			20.71	0.91	-
44	NER1-PALA	Roing Tezu+BR			14.27	0.64	-
45	NER-P449	Spare ICT at Silchar SS			45.51	1.01	-
46	NER1-PALA	Silchar Hailakandi			91.68	4.06	-
47	NER-NES3	ICT Balipara			39.58	101.63	-
48	NER1-PALA	ICT-I at Tezu			0.05	0.01	-
49	NER-P408	Re-conductoring of 132 KV D/C Agartala GBPP-Agartala (State) with HTLS conductor Line II			14.30	20.17	-
50	NER-P408	Re-conductoring of 132 KV D/C Agartala GBPP-Agartala (State) with HTLS conductor Line I			15.36	21.68	-

Details of Capital Cost of Transmission Line							
Name of Transmission Company:				Power Grid Corporation of India Limited			
Name of Transmission Region:				North Eastern Region			
SI No.	Year	Configuration	Length (km)	Total Cost	Cost/km	Cost/ckt-km	
1	2013-14	HVDC					
		a) S/C	0.00				
		765 kV					
		a) S/C	0.00				
		b) D/C	0.00				
		765 kV Charged at 400 KV					
		a) S/C	0.00				
		400 kV					
		a) S/C					
		b) D/C	0.00				
		400 kV Charged at 220 KV					
		a) D/C	0.00				
		400 kV Charged at 132 KV					
		a) D/C	0.00				
220 kV							
a) S/C	0.00						
b) D/C	0.00						
Up to 132 kV							
a) S/C	0.00						
b) D/C	0.00						
2	2014-15	HVDC					
		a) S/C	0.00				
		765 kV					
		a) S/C	0.00				
		b) D/C	0.00				
		765 kV Charged at 400 KV					
a) S/C	0.00						

Details of Capital Cost of Transmission Line			
Name of Transmission Company:		Power Grid Corporation of India Limited	
Name of Transmission Region:		North Eastern Region	
		400 kV	
		a) S/C	
		b) D/C	304.88
		400 kV Charged at 220 KV	
		a) D/C	0.00
		400 kV Charged at 132 KV	
		a) D/C	166.60
		220 kV	
		a) S/C	0.00
		b) D/C	0.00
		Up to 132 kV	
		a) S/C	0.00
b) D/C	0.00		
3	2015-16	HVDC	
		a) S/C	0.00
		765 kV	
		a) S/C	0.00
		b) D/C	0.00
		765 kV Charged at 400 KV	
		a) S/C	0.00
		400 kV	
		a) S/C	
		b) D/C	83.22
		400 kV Charged at 220 KV	
		a) D/C	0.00
		400 kV Charged at 132 KV	
		a) D/C	127.00
		220 kV	
		a) S/C	0.00
		b) D/C	48.00

Details of Capital Cost of Transmission Line			
Name of Transmission Company:		Power Grid Corporation of India Limited	
Name of Transmission Region:		North Eastern Region	
		Up to 132 kV	
		a) S/C	0.00
		b) D/C	13.93
4	2016-17	HVDC	
		a) S/C	0.00
		765 kV	
		a) S/C	0.00
		b) D/C	0.00
		765 kV Charged at 400 KV	
		a) S/C	0.00
		400 kV	
		a) S/C	
		b) D/C	0.00
		400 kV Charged at 220 KV	
		a) D/C	0.00
		400 kV Charged at 132 KV	
a) D/C	0.00		
		220 kV	
		a) S/C	0.00
		b) D/C	0.00
		Up to 132 kV	
		a) S/C	0.00
		b) D/C	0.00
5	2017-18	HVDC	
		a) S/C	0.00
		765 kV	
		a) S/C	0.00
		b) D/C	0.00
		765 kV Charged at 400 KV	
		a) S/C	0.00

Details of Capital Cost of Transmission Line			
Name of Transmission Company:		Power Grid Corporation of India Limited	
Name of Transmission Region:		North Eastern Region	
		400 kV	
		a) S/C	
		b) D/C	57.17
		400 kV Charged at 220 KV	
		a) D/C	0.00
		400 kV Charged at 132 KV	
		a) D/C	0.00
		220 kV	
		a) S/C	0.00
		b) D/C	0.00
		Up to 132 kV	
		a) S/C	180.00
		b) D/C	12.87
6	2018-19	HVDC	
		a) S/C	0.00
		765 kV	
		a) S/C	0.00
		b) D/C	0.00
		765 kV Charged at 400 KV	
		a) S/C	0.00
		400 kV	
		a) S/C	
		b) D/C	0.00
		400 kV Charged at 220 KV	
		a) D/C	0.00
		400 kV Charged at 132 KV	
		a) D/C	143.00
		220 kV	
		a) S/C	0.00

Data separately not available/maintained

Details of Capital Cost of Transmission Line			
Name of Transmission Company:		Power Grid Corporation of India Limited	
Name of Transmission Region:		North Eastern Region	
		b) D/C	0.00
		Up to 132 kV	
		a) S/C	95.20
		b) D/C	5.11
7	2019-20	HVDC	
		a) S/C	0.00
		765 kV	
		a) S/C	0.00
		b) D/C	0.00
		765 kV Charged at 400 KV	
		a) S/C	0.00
		400 kV	
		a) S/C	
		b) D/C	0.00
		400 kV Charged at 220 KV	
		a) D/C	0.00
		400 kV Charged at 132 KV	
		a) D/C	0.00
		220 kV	
		a) S/C	0.00
		b) D/C	0.60
		Up to 132 kV	
		a) S/C	0.00
		b) D/C	0.00
8	2020-21	HVDC	
		a) S/C	0.00
		765 kV	
		a) S/C	0.00
		b) D/C	0.00
		765 kV Charged at 400 KV	

Details of Capital Cost of Transmission Line			
Name of Transmission Company:		Power Grid Corporation of India Limited	
Name of Transmission Region:		North Eastern Region	
		a) S/C	0.00
		400 kV	
		a) S/C	
		b) D/C	137.12
		400 kV Charged at 220 KV	
		a) D/C	0.00
		400 kV Charged at 132 KV	
		a) D/C	0.00
		220 kV	
		a) S/C	0.00
		b) D/C	0.00
		Up to 132 kV	
		a) S/C	0.00
		b) D/C	0.00
9	2021-22	HVDC	
		a) S/C	0.00
		765 kV	
		a) S/C	0.00
		b) D/C	0.00
		765 kV Charged at 400 KV	
		a) S/C	0.00
		400 kV	
		a) S/C	
		b) D/C	271.81
		400 kV Charged at 220 KV	
		a) D/C	0.00
		400 kV Charged at 132 KV	
		a) D/C	0.00
		220 kV	



Details of Capital Cost of Transmission Line			
Name of Transmission Company:		Power Grid Corporation of India Limited	
Name of Transmission Region:		North Eastern Region	
	a) S/C	0.00	
	b) D/C	0.00	
	Up to 132 kV		
	a) S/C	0.00	
	b) D/C	0.00	

Details of Capital Cost of Transmission Line							
Name of Transmission Company:		Power Grid Corporation of India Limited					
Name of Transmission Region:		North Eastern Region					
SI No.	Year	Configuration	MVA Capacity	No. of Bays	Total Cost	Cost/MVA	Cost/bays
1	2006-07	765kV					
		400kV					
		220kV	50				
		132kV					
		HVDC					
2	2007-08	765kV					
		400kV					
		220kV					
		132kV					
		HVDC					
3	2008-09	765kV					
		400kV					
		220kV					
		132kV					
		HVDC					
4	2009-10	765kV					
		400kV					
		220kV	160				
		132kV					
		HVDC					
5	2010-11	765kV					
		400kV					
		220kV	100				
		132kV					
		HVDC					
6	2011-12	765kV					
		400kV					
		220kV					
		132kV					
		HVDC					
7	2012-13	765kV					
		400kV	715				
		220kV					
		132kV					
		HVDC					
8	2013-14	765kV		0			

Details of Capital Cost of Transmission Line				
Name of Transmission Company:		Power Grid Corporation of India Limited		
Name of Transmission Region:		North Eastern Region		
		400kV		2
		220kV		0
		132kV	100	2
		HVDC		0
9	2014-15	765kV		0
		400kV		10
		220kV		0
		132kV		4
		HVDC		0
10	2015-16	765kV		0
		400kV	400	12
		220kV	60	6
		132kV	100	16
		HVDC		20
11	2016-17	765kV		0
		400kV	315	1
		220kV		1
		132kV		0
		HVDC		9
12	2017-18	765kV		0
		400kV		4
		220kV	160	1
		132kV	60	22
		HVDC		0
13	2018-19	765kV		0
		400kV	1445	11
		220kV		1
		132kV	30	21
		HVDC		0
14	2019-20	765kV		0
		400kV	815	2
		220kV		7
		132kV		0
		HVDC		0
15	2020-21	765kV		0
		400kV	1000	18
		220kV	160	3
		132kV		1
		HVDC		0

Data separately not available/maintained

<b>Details of Capital Cost of Transmission Line</b>					
<b>Name of Transmission Company:</b>			<b>Power Grid Corporation of India Limited</b>		
<b>Name of Transmission Region:</b>			<b>North Eastern Region</b>		
16	2021-22	765kV		0	
		400kV		4	
		220kV	350	1	
		132kV		1	
		HVDC		0	