	ye	ar period i	from 2017-18	to 2021-22						
Vame (of Transmission Company:		Power	r Grid Corpo	ration of Ind	ia Limited				
Vame (of Transmission Region:		Eastern Region							
	Table-1 - Region wise informa	ition (aver	erage for the year, but otherwise total for the region)							
		fo	r AC system							
61. No.	Particulars	Units	2017-18	2018-19	2019-20	2020-21	2021-22			
1.	Number of AC Substation in									
	operation									
	(1) 765 kV		5	5	5	5	5			
	(2) 400 kV		27	28.5	29	29	29			
	(3) 220 kV	No.	7	7	7	7	7			
	(4) 132 kV		1	1	1	1	1			
2.	(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		(b) Tearwie		diridiative in		cui.			
	Substation in operation									
	(1) 765 kV		18000	18750	21000	22500	22500			
	(2) 400 kV		21252.5	23317.5	25040	26762.5	27985			
	(3) 220 kV		2630	2790	2845	2900	2950			
	(4) 132 kV		120	120	120	120	120			
	(Nomenclature are as per highest available voltage level)	MVA*	* In earlier submitted data for 2017-18, classification of M considered was based on highest voltage level available in particular substation. Presently, MVA has been clasified based on highest voltage level of each Transformer. Further, earlier submitted data for 2017-18 included M corresponding to SVC/ STATCOM Coupling transformers same has been removed.							
3.	Number of bays in each AC Substation in operation									
	(1) 765 kV		47	52	61.5	69	71			
	(2) 400 kV		389.5	425.5	454.5	470	479.5			
	(3) 220 kV		156	170.5	178.5	181.5	183			
	(4) 132 kV	No.	55	57	59	60	60.5			
	(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.							

Pro-fo	rma for furnishing Actual annual per vea		operational		r the Transm	ission Syster	ns for the 5-		
Name o	of Transmission Company:	P			ration of Ind	ia Limited			
	of Transmission Region:				rn Region				
	<u> </u>	tion (average for the year, but otherwise total for the region)							
	G		AC system			,			
Sl. No.	Particulars	Units	2017-18	2018-19	2019-20	2020-21	2021-22		
4.	Ckt-km of AC lines in operation								
	(1) 765 kV		1768.51	2084.11	2379.17	2379.17	2379.17		
	(2) 400 kV		16031.83	16583.77	17054.42	17643.60	18120.22		
	(3) 220 kV	No.	1678.43	1680.93	1680.93	1680.93	1680.93		
	(4) 132 kV		461.50	461.50	461.50	461.50	461.50		
	(Nomenclature are as per highest available voltage level)								
5.	Total number of employees engaged in O&M of Sub-station								
	(1) 765 kV			156	163	145	131		
	(2) 400 kV	3 . T	7/0	597	558	495	495		
	(3) 220 kV	No	762	123	109	98	89		
	(4) 132 kV			8	9	6	6		
	(1) 765 kV			2871.59	3413.11	3319.03	3099.01		
	(2) 400 kV	Cost (Rs.	4.40.40.00	10989.36	11684.14	11330.49	11710.00		
	(3) 220 kV	Lakhs)	14962.35	2264.14	2282.39	2243.21	2105.43		
	(4) 132 kV	·		147.26	188.45	137.34	141.94		
	(Nomenclature are as per highest available voltage level)								
6.	Total number of employees engaged in O&M of Transmission Lines								
	(1) 765 kV			76	83	92	95		
	(2) 400 kV	No	207	257	255	268	271		
	(3) 220 kV	No	307	43	45	57	54		
	(4) 132 kV			1	1	1	1		
	(1) 765 kV			1398.98	1737.96	2105.87	2247.37		
	(2) 400 kV	Cost (Rs.	(000 14	4730.76	5339.53	6134.49	6410.93		
	(3) 220 kV	Lakhs)	6028.14	791.53	942.27	1304.72	1277.45		
	(4) 132 kV			18.41	20.94	22.89	23.66		
	(Nomenclature are as per highest available voltage level)								

Pro-fo	rma for furnishing Actual annual p ye	erformance, ear period fr	-	-	or the Transm	ission Systei	ns for the 5			
Name o	of Transmission Company:		Power	r Grid Corpo	ration of Ind	ia Limited				
	of Transmission Region:				rn Region					
	<u> </u>		on (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			
7.	Auxiliary Power Consumption (excluding colony power) (1) 765 kV		4.84	7.84	7.63	7.19	7.14			
	(2) 400 kV	_	19.31	20.60	21.00	20.89	20.98			
	(3) 220 kV	MU	2.61	2.21	2.21	2.19	2.10			
	(4) 132 kV	_	0.08	0.08	0.08	0.08	0.08			
	(Nomenclature are as per highest available voltage level)		0.00	0.00	0.00	0.00	0.00			
8.	Colony Power Consumption									
	(1) 765 kV		0.48	0.71	0.64	0.69	0.65			
	(2) 400 kV		3.01	3.05	3.06	3.04	2.77			
	(3) 220 kV	MU	0.64	0.82	0.84	0.76	0.80			
	(4) 132 kV		0.11	0.07	0.06	0.07	0.09			
	(Nomenclature are as per highest available voltage level)									
9.	Spare ICTs/Reactors									
	(1) 765 kV ICT/Reactor		2	0	1	0	0			
	(2) 400 kV	No.	0	0	0	0	0			
	(3) 220 kV	INO.	0	0	0	0	0			
	(4) 132 kV		0	0	0	0	0			
	(1) 765 kV ICT/Reactor		2815.04	0	1637.55	0	0			
	(2) 400 kV	Cost (Rs.	0	0	0	0	0			
	(3) 220 kV	Lakhs)	0	0	0	0	0			
	(4) 132 kV		0	0	0	0	0			
	(Nomenclature are as per highest available voltage level)									
10.	Spare Smoothing Reactors									
	(1) 765 kV		0	0	0	0	0			
	(2) 400 kV	–	0	0	0	0	0			
	(3) 220 kV	No.	0	0	0	0	0			
	(4) 132 kV	╡	0	0	0	0	0			
	(1) 765 kV		0	0	0	0	0			
	(2) 400 kV	Cost (Rs.	0	0	0	0	0			
	(3) 220 kV	Lakhs)	0	0	0	0	0			
	(4) 132 kV	 	0	0	0	0	0			
	(Nomenclature are as per highest			<u> </u>	†	, ,	,			

Sl. No.	Transmission Company: f Transmission Region: Table-1 - Region wise information Particulars ICTs (1) 765 kV (2) 400 kV (3) 220 kV (4) 132 kV (1) 765 kV (2) 400 kV (2) 400 kV (3) 220 kV (4) 132 kV (4) 132 kV (5) 400 kV (6) 400 kV (7) 400 kV (8) 400 kV (9) 400 kV (9) 400 kV	•		ear, but other	n Region		2021-22		
Sl. No.	Table-1 - Region wise informa Particulars ICTs (1) 765 kV (2) 400 kV (3) 220 kV (4) 132 kV (1) 765 kV (2) 400 kV (3) 220 kV (4) 132 kV (5) 400 kV (6) 400 kV (7) 765 kV	for Units	ge for the y AC system 2017-18	Easter ear, but other 2018-19	n Region wise total fo	r the region)	_		
Sl. No.	Table-1 - Region wise informa Particulars ICTs (1) 765 kV (2) 400 kV (3) 220 kV (4) 132 kV (1) 765 kV (2) 400 kV (2) 400 kV (3) 220 kV	for Units	AC system 2017-18	ear, but other 2018-19	wise total for		_		
11.]	Particulars ICTs (1) 765 kV (2) 400 kV (3) 220 kV (4) 132 kV (1) 765 kV (2) 400 kV (3) 220 kV	for Units	AC system 2017-18	2018-19			_		
11.]	ICTs (1) 765 kV (2) 400 kV (3) 220 kV (4) 132 kV (1) 765 kV (2) 400 kV (3) 220 kV	Units	2017-18 12	2018-19	2019-20	2020-21	2021-22		
11.]	ICTs (1) 765 kV (2) 400 kV (3) 220 kV (4) 132 kV (1) 765 kV (2) 400 kV (3) 220 kV								
-	(1) 765 kV (2) 400 kV (3) 220 kV (4) 132 kV (1) 765 kV (2) 400 kV (3) 220 kV	- No		12.5			1		
-	(1) 765 kV (2) 400 kV (3) 220 kV (4) 132 kV (1) 765 kV (2) 400 kV (3) 220 kV	No		12.5					
á	(2) 400 kV (3) 220 kV (4) 132 kV (1) 765 kV (2) 400 kV (3) 220 kV	No		12.5	14	15	15		
á	(3) 220 kV (4) 132 kV (1) 765 kV (2) 400 kV (3) 220 kV	No		65.5	69.5	73.5	76.5		
á	(1) 765 kV (2) 400 kV (3) 220 kV		19	20	20	20	20.5		
á	(2) 400 kV (3) 220 kV		4	4	4	4	4		
á	(3) 220 kV								
á		Cost (Rs.	Data separately not available/maintained						
á	(A) 132 LV	Lakhs)	•	Data separate	iy not avanac	ic/ manitant	,u		
á	\ 7								
ä	(Nomenclature are as per highest								
10 1	available voltage level)								
12.	Reactors								
_	(1) 765 kV		21	24	27	28	29		
L	(2) 400 kV	No	128	140	150.5	153	153		
-	(3) 220 kV	_	0	0	0	0	0		
	(4) 132 kV		0	0	0	0	0		
-	(1) 765 kV	Coat (Do							
-	(2) 400 kV	Cost (Rs.]	Data separate	ly not availab	le/maintaine	ed		
F	(3) 220 kV	Lakhs)		-					
	(4) 132 kV (Nomenclature are as per highest								
	available voltage level)								
13.	±200 MVAR STATCOM	Nia	0	2	0	0	0		
[±300 MVAR STATCOM	No.	1	1	0	0	0		
=	±200 MVAR STATCOM	Cost (Rs.	0	32351.97	0	0	0		
[±300 MVAR STATCOM	Lakhs)	15532.06	16629.33	0	0	0		
14.	Average outage duration for								
4	A. Transmission Lines	_							
_	(1) 765 kV		0.95	6.70	18.11	6.20	4.08		
Ļ	(2) 400 kV	_	0.31	4.32	4.25	5.08	4.19		
<u> </u>	(3) 220 kV	_	0.32	5.30	2.80	5.58	8.70		
L	(4) 132 kV	_	0.16	1.87	0.88	1.51	1.46		
<u> </u>	B. Transformers	_							
Ļ	(1) 765 kV	_	0.46	8.13	11.43	8.36	10.22		
L	(2) 400 kV	Hours/y	0.46	9.97	5.86	8.88	9.36		
L	(3) 220 kV	ear	0.37	3.46	2.49	1.86	3.04		
	(4) 132 kV C. Reactors	_	0.09	7.08	1.04	8.84	9.21		

			rom 2017-18							
	of Transmission Company:		Power	Grid Corpo	ration of Ind	ia Limited				
Name o	of Transmission Region:	Eastern Region								
	Table-1 - Region wise informat	•	(average for the year, but otherwise total for the region)							
			AC system		T					
Sl. No.	Particulars	Units	2017-18	2018-19	2019-20	2020-21	2021-22			
	(1) 765 kV		0.26	7.14	3.65	5.61	4.45			
	(1) 765 kV (2) 400 kV		0.28	2.85	11.67	3.21	5.33			
	(3) 220 kV		0.28	0	0	0	0			
	(4) 132 kV		0	0	0	0	0			
	(Nomenclature are as per highest		U		0	0				
	available voltage level)									
15.	Cost of Initial spares (for S/S)									
10.	A. Capitalized									
	(1) 765 kV									
	(2) 400 kV									
	(3) 220 kV		1699.67	3355.49	2613.49	578.00	504.94			
	(4) 132 kV									
	B. In Stock									
	(1) 765 kV				l					
	(2) 400 kV	(Rs. In	_	_						
	(3) 220 kV	Lakhs)	I	Data separate	ely not availal	ole/maintaine	ed			
	(4) 132 kV									
	C. Cost of initial spares consumed									
	(1) 765 kV									
	(2) 400 kV		_	_						
	(3) 220 kV		1	Oata separate	ely not availal	ole/maintaine	ed			
	(4) 132 kV									
16.	Cost of O&M spares Consumed (for									
	S/s)									
	(1) 765 kV									
	(2) 400 kV	(Rs. In	5734.86	1941.00	2392.00	1369.00	1542.00			
	(3) 220 kV	Lakhs)	3/34.66	1941.00	2392.00	1369.00	1542.00			
	(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		440.02	0054.54	(04.00	000.05	075.24			
	(3) 220 kV		448.82	2971.56	634.00	889.95	875.24			
	(4) 132 kV									
	B. In Stock									

Pro-fo	rma for furnishing Actual annual	performance year period f	-	-	or the Transm	ission Syster	ns for the 5-
Name (of Transmission Company:		Powe	r Grid Corpo	ration of Ind	ia Limited	
Name (of Transmission Region:			Easte	rn Region		
	Table-1 - Region wise infor	mation (avera	ge for the y	ear, but othe	rwise total fo	r the region)	
		for	AC system	l			
Sl. No.	Particulars	Units	2017-18	2018-19	2019-20	2020-21	2021-22
	(1) 765 kV	(Rs. In					
	(2) 400 kV (3) 220 kV	Lakhs)		Data separate	ely not availal	ble/maintaine	ed
	(4) 132 kV C. Cost of initial spares consum	ned					
	(1) 765 kV (2) 400 kV (3) 220 kV (4) 132 kV			Data separate	ely not availal	ble/maintaine	ed
18.	Cost of O&M spares Consumed (I Lines)	or					
	(1) 765 kV (2) 400 kV (3) 220 kV (4) 132 kV	(Rs. In Lakhs)	2663.53	1984.00	2254.00	1803.00	1428.00
	(Nomenclature are as per highest available voltage level)						

Note: *Executive & non-executive/ contract labour

Pro-fo	rma for furnishing Actual ann	nual perform	ance/operati	onal expens	ses for the		nnexure-VA on Systems
11010	_	ne 5-year perio	_	_		Панониссь	Поубесть
Name of	f Transmission Company:		Power G	rid Corporati	ion of India	Limited	
	f Transmission Region:			Eastern	Region		
	Table-2- Station wise	e information	(average for	the year) for	HVDC syst	ems	
,	am HVDC	T	T 504740	7010.10	-240.00		
Sl.No.	Particulars *	Units	2017-18	2018-19	2019-20	2020-21	2021-22
1	Total number of employees*	No.	24	39	40	39	37
	engaged in sub-station O&M	Cost (Rs. In lakh)	471.26	244.87	231.92	228.99	252.08
2	Total number of	No.	Data for m	anpower for	r HVDC TL	O&M is n	ot available
	employees *engaged in O&M of Transmission Lines	Cost (Rs. In lakh)	separately as	s the same s (AC & HVD	set of emplye		
3	Auxiliary power consumption (excluding colony power)	(MU)	6.85	4.34	4.94	4.25	4.53
4	Colony power consumption	(MU)	0.52	0.25	0.33	0.28	0.27
5	Outage duration	Pole-days	16.43	0.23	5.54	0.16	1.23
6	Load curtailment	MW - days	D	ata separately	v not availab	le/maintaine	ed
7	Cost of initial spares	(Rs. in lakh)	<u> </u>		<u></u>		
ĺ	a) Capitalized	1`	0	0	0	0	0
1	b) In Stock			. 1	- 11		_
1	c) Consumed		Da	ata separately	y not availab	le/maintaine	2d
8	Cost of O&M spares consumed	(Rs. in lakh)	161.94	128.45	69.77	188.36	104.72
2) Alipu	ırduar HVDC						
Sl.No.	Particulars	Units	2017-18	2018-19	2019-20	2020-21	2021-22
1	Total number of employees*	No.	15	21	19	15	17
1	engaged in sub-station O&M	Cost (Rs. In	294.53	191.78	277.55	257.07	302.63
1	'	lakh)		1			1
2	Total number of	No.	Data for m	anpower for	r HVDC TL	O&M is n	ot availabl
1	employees*engaged in O&M of	Cost (Rs. In	separately as	s the same s	set of emplye		
l	Transmission Lines	lakh)		(AC & HVD	(C)		
3	Auxiliary power consumption (excluding colony power)	(MU)	4.46	4.76	4.97	5.13	4.97
4	Colony power consumption	(MU)	0.00	0.12	0.18	0.20	0.22

Pole-days MW - days 14.98

Data separately not available/maintained

20.51

Outage duration
Load curtailment

5 6

Pro-fo	orma for furnishing Actual and for th	nual performa ne 5-year perio		-		Transmissio	n Systems	
Name o	of Transmission Company:		Power Grid Corporation of India Limited					
Name o	of Transmission Region:		Eastern Region					
	Table-2- Station wise	HVDC syst	ems					
7	Cost of initial spares	(Rs. in lakh)						
	a) Capitalized		11464.3	0	0	0	0	
	b) In Stock c) Consumed		Data separately not available/maintained					
8	Cost of O&M spares consumed	(Rs. in lakh)	156.16	4.07	52.36	30.08	84.68	

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.	19	22	19	21	21	
	chigaged in sub-station Oxivi	Cost (Rs. In lakh)	373.08	600.15	604.36	516.20	589.53	
2	Total number of employees*	No.	Data for m	anpower for	r HVDC TL	O&M is n	ot available	
	engaged in O&M of Transmission Lines	Cost (Rs. In lakh)	separately a type of lines		1 2	ees are main	taining both	
3	Auxiliary power consumption (excluding colony power)	(MU)	8.25	7.59	7.93	7.83	7.74	
4	Colony power consumption	(MU)		1	NTPC Colony	У		
5	Outage duration	Pole-days	1.68	0.71	0.74	10.63	4.11	
6	Load curtailment	MW - days	D	ata separatel	y not availab	le/maintaine	ed	
7	Cost of initial spares	(Rs. in lakh)						
	a) Capitalized]	0	0	0	0	0	
	b) In Stock c) Consumed		Data separately not available/maintained					
8	Cost of O&M spares consumed	(Rs. in lakh)	161.94	295.74	384.10	211.69	234.67	

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

Name of Transmission Company: Power Grid Corporation of India Limited
Name of Transmission Region: Eastern Region

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

S1. No.	Particulars	Units	2017-18	2018-19	2019-20	2020-21	2021-22
1	Number of Wideband Communication Nodes in operation	(No.)	61	48	59	60	64
2	Average length of OPGW links in operation	(in Kms.)	4415	5127.522	6569.242	7200	8190.152
3	Number of Remote Terminal Units(RTUs)	(No.)	27	22	22	21	20
4	Number of PLCC links	(No.)	0	0	0	0	0
5	Number of OPGW links	(No.)	49	54	68	70	74
6	Number of Auxiliary Power Supply(DC) Nodes	(No.)	45	31	38	38	39
	Number of employees engaged in O&M of RTU and Communication System	(No.)					
7	1) Executive	(No.)	45	31	38	38	39
	2) Non executive		2	1	1	1	0
	3) outsourced		0	0	0	0	0
	Average outage duration for	(hours/year)					
	a) Wideband Communication Links	0	200	160	190	220	185
8	b) RTUs		65	55	64.17	43	92.33
	c) PLCC		0	0	0	0	0
	d) Auxiliary Power Supply System		60	68	57	72	54
	Cost of Initial spares	(Rs.in lakh)					
0	a) Capitalized		87.59	0	24.04	0	0
9	b) In Stock		43.12	113.12	97.12	98.63	74.18
	c) Consumed		9	16	22.53	24.45	61.43
10	Cost of O&M spares Consumed	(Rs.in lakh)	2.51	13.47	13.09	3.72	13.31
11	Number of PMU installed in the region	(No.)	* 12 ** 187	289	289	290	296
12	O & M expenses of PMU incurred in the region	(Rs.in lakh)	0	0	NA	NA	330.87

Note:

^{*} Under Pilot project

^{**} Under URTDSM project

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

Name of	Transmission Company:	Po	wer Grid Co	rporation of	India Limit	ed
Name of	Transmission Region:		E	astern Regio	on	
					(F	Rs. In Lakhs)
Sr.No.	ITEM	2017-18	2018-19	2019-20	2020-21	2021-22
1	2	3	4	5	6	7
1.0	Repairs and Maintenance Expenses :					
1)	Repairs of Plant & Machinery	5632.10	6398.99	7243.61	7354.06	8215.50
2)	Consumption of Stores (not capitalized)	8878.44	6599.15	7417.21	7105.35	6543.80
3)	Consumption of Spares (not capitalized)		Inc	cluded in 1.0	(1)	
4)	Patrolling expenses	Ir	ncluded in na		` '	re
5)	Power Charges (electricity consumed for repairing activity)	3486.57	3581.45	4619.36	3721.28	6069.40
6)	Expenses of Diesel Generating sets	87.51	71.27	82.98	51.00	116.91
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
	Sub-total (R&M Expenses)	18084.62	16650.86	19363.15	18231.69	20945.61
2.0	Administrative & General Expenses:					
1)	Insurance	764.76	2048.38	1810.28	1705.83	1534.11
2)	Security (General other than special)	4094.21	4431.85	4989.36	5298.70	5367.55
3)	Rent	70.33	367.50	776.90	927.19	1010.53
4)	Electricity Charges	101011		led in 1.0 (5)		121521
5)	Traveling and conveyance	1249.14	1560.98	1502.41	1061.17	1247.34
6)	Communication expenses	135.26	203.92	315.99	263.03	313.41
7)	Advertisement and publicity	280.38	272.55	317.59	118.41	110.94
8) 9)	Foundation laying and inauguration	8.41 2.25	0	0	0 14.14	19.20
10)	Books Periodicals and Journals Research expenses	0.00	27.93 61.81	20.64 118.68	53.64	18.29 5.12
11)	Cost Audit Fees	27.15	22.37	17.23	19.20	23.96
12)	Horticulture Expenses	434.52	488.76	520.20	584.19	520.35
13)	Bandwidth charges dark fibre lease charges (Telecom) etc	984.36	1089.75	1014.53	979.32	995.64
14)	Donations expenses	0	0	0	0	0
15)	Entertainment expenses	24.52	28.76	41.82	51.39	51.70
16)	Filing Fees	978.77	1418.80	1469.55	1189.24	1271.48
17)	Legal Expenses	103.96	187.65	326.44	84.96	74.34
18)	Consultancy Expenses	4.06	4.13	5.62	0.86	-1.33
19)	Professional charges (not covered under employee expenses)	77.68	155.07	226.01	164.88	269.20
20)	Printing and Stationary	70.74	87.17	96.64	70.52	61.56
21)	Hiring of Vehicle (excluding construction & Corporate exp)	1793.22	2165.81	1738.66	1804.69	2085.58
22)	Training and Recruitment expenses	322.50	861.94	676.83	301.50	372.35
23)	Rates and taxes	404.10	714.35	775.68	513.40	845.85
24)	Rebate to Customers	3421.18	3564.36	2319.64	20333.10	2654.25

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

Name of	Transmission Company:	Po	wer Grid Co	orporation of	f India Limit	ed
Name of	Transmission Region:			astern Regio		
25)	Self Insurance Reserve	3721.50	4118.73	4308.73	4553.83	4652.30
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)	1653.18	6090.43	1594.40	1526.24	2436.53
	Sub-total(A&G Expenses)	20626.17	29973.00	24983.84	41619.46	25921.05
3.0	Employee Expenses					
1)	Salaries, wages and allowances	16497.36	12443.55	15112.06	14786.34	15270.91
2)	Staff welfare expenses					
	a) Contribution to Provident and other funds	887.69	2822.17	2199.18	4165.37	3602.46
	b) Gratuity	-999.62	-186.05	79.15	65.10	61.80
	c) Pension	863.17	152.10	158.39	155.27	153.52
	d) Employee Medical Expenses	1227.17	1477.77	1120.89	996.32	1501.88
	e) Liveries and Uniforms	81.98	415.81	974.56	459.59	400.16
	f) Safety & Appliances expenses	11.83	78.03	73.43	99.01	72.41
	g) Others	1310.37	1959.84	1750.85	1619.55	1845.17
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)	2327.95	5110.18	5276.83	5254.26	5251.80
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 separately)	0	0	0	0	0
10)	VII Pay Arrears Paid Pertaining to period prior	0	0	0	0	0
10)	Sub-total (Employee Expenses)	22207.90	24273.39	26745.35	27600.82	28160.11
4.0	· ·	22207.90	242/3.39	20745.55	27000.82	20100.11
4.0	Additional /Specific Security it any on the advise of Govt. Agency/ Statutory Authority/	137.73	0	0	0	0
F 0	any other reasons	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 above)	0	0	0	0	0
8.0	Corporate office expenses allocation	0	0	0	0	0
	(i) Transmission O&M Service	7075.94	5416.93	5155.25	4821.49	4740.47
	(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	· · · · · · · · · · · · · · · · · · ·			8584.35	_	
9.0	Corporate Social Responsibility expenses	1671.95	5184.83	0004.33	6443.10	5599.02

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

Name of Transmission Company: Power Grid Corporation of India Limite				ed				
Name of	Transmission Region:	Eastern Region						
10.0	- Others (Specify items not included above)	0	0	0	0	0		
	Sub Total (1 to 10)	69804.31	81499.00	84831.93	98716.57	85366.27		
11	Other Income, Revenue and Recoveries, if any	0	0	0	0	0		
a)	Short term open access (other than transmission service	0	0	0	0	0		
	System & Market operation charges	0	0	0	0	0		
	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		
	Disposal of scrap/stores (not covered under capitalized assets)	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	69804.31	81499.00	84831.93	98716.57	85366.27		
13	Capital spares consumed not included in (A) (1) above and not claimed /allowed by	Capital Sp		imed/allowe ued as O&M		have been		
	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)	1021.04		To be claime	ed seperately			
14	Total Expenses (12) + (13A)	70825.34	81499.00	84831.93	98716.57	85366.27		
Notes:	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. VIII 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							
	VIII Details of Consumptive Water requirement							
Break Up	VIII Details of Consumptive Water requirement	which were						
	VIII Details of Consumptive Water requirement IX. Details of capital spares consumed each year	which were						

Annexure VI-(B-1)

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

Name of	f Transmission Company:	Power Grid Corporation of India Limited				ed	
Name of	f Transmission Region:	Eastern Region					
2	EDP Expenses	77.49 327.39 206.54 197.18 191.9					
3	Miscellaneous Expenses	452.66	-191.15	147.88	354.72	2215.05	
4	Bad Debts Expenses	0	5873.57	0.36	8.66	-23.59	
5	FERV Expense	1090.24	25.79	1149.87	921.79	3.03	
	Total	1653.18	6090.43	1594.40	1526.24	2436.53	

Name	of Transmission Company:		Power Grid Corporation of India Limited
Name	of Transmission Region:		Eastern Region
Sl No	Particulars	Year	Reasons of Variance
1	Repairs of Plant & Machinery	2018-19	Due to increase in transmission assets under O&M stage and aging of Transmission assets requiring more maintenance
2	Insurance	2018-19	Increase in Mega Insurance for addtion of Alipurduar HVDC
3	Rent	2018-19	Increase in transit hostel expenses
4	Cost Audit Fees	2018-19	Due to change of fees paid in other capacity for certification work
5	Filing fees	2018-19	Increase due to addition of new assets
6	Legal Expenses	2018-19	Legal cost due to arbitration cases
7	Professional charges (not covered under employee expenses)	2018-19	Increase due to addition of new assets
0	Hiring of Vehicle (excluding construction & Corporate exp)	2018-19	Due to GST on vehicle hiring
	Training and Recruitment expenses	2018-19	Increase due to new recruitments
	Rates and taxes	2018-19	Increase due to GST on RHQ Allocation
11	Any other A&G expenses	2018-19	Provision for bad debts and decrease in FERV
12	Repairs of Plant & Machinery	2019-20	Due to increase in transmission assets under O&M stage and aging of Transmission assets requiring more maintenance
13	Consumption of Stores(Not Capitalized)	2019-20	Due to increase in transmission assets under O&M stage and aging of Transmission assets requiring more maintenance
14	Power charges	2019-20	Addition of 04 nos STATCOM in ER during 2019-20
15	Insurance	2019-20	Change in Mega Insurance policy premium based on sum insured
16	Security (General other than special)	2019-20	Increase due to addition in substations
17	Rent	2019-20	Creation of Short term lease as per IND AS 116 for hiring of Vehicle
18	Communication Expenses	2019-20	Increase due to revision in employee entitlements.
19	Advertisement and publicity	2019-20	Higher advertisement expenditure due to new projects
20	Cost Audit Fees	2019-20	Due to change of fees paid in other capacity for certification work
21	Entertainment expenses	2019-20	Increase in transmission assets under O&M Stage
	Legal Expenses	2019-20	Legal cost due to arbitration cases
23	Professional charges (not covered under employee expenses)	2019-20	Professional from ABB & CGL for repairing work at Different SS under ER in current year
24	Hiring of Vehicle (excluding construction & Corporate exp)	2019-20	Increase in new transmission assets and due to amendment of vehicle contract and increase in CLW rates higher vehicle cost in current year. Creation of Short term lease as per IND AS 116 for hiring of Vehicle
25	Training and Recruitment expenses	2019-20	Due to COVID, less no. of offline trainings done in current year
	Rebate to Customers	2019-20	Reduction in rebate due to change of rate from 2% to 1.5% in new tariff block
27	Any other A&G expenses	2019-20	Decrease in provision for bad debts and increase in ferv
	Salary, wages and allowances	2019-20	Increase due to new recruitments
29	Rent	2020-21	Creation of Short term lease as per IND AS 116
	Electricity Charges	2020-21	Decrease in Power Charge HVDC Stations
31	Traveling and conveyance	2020-21	Decrease in employee movement due to COVID 19
32	Communication Expenses	2020-21	Decrease in mobile charges due to covid 19
33	Advertisement and publicity	2020-21	Due to reduction in advertisement cost for tender notices due to shift to online mode
	Cost Audit Fees	2020-21	Due to change of fees paid in other capacity for certification work
	Entertainment expenses	2020-21	Increase in transmission assets under O&M Stage
	Filing Fees	2020-21	Change in allocation base for CERC fees
	Printing and Stationary	2020-21	General reduction in stationery procurement
38	Training and Recruitment expenses	2020-21	Due to COVID, less no. of offline trainings done in current year
39	Rates and taxes	2020-21	Increase in FY 2019-20 on account of Land Rent and Land levy charges for 2017-18 and 2018-19.
40	Rebate to Customers	2020-21	Increase in rebate due to special covid rebate
41	Repairs of Plant & Machinery	2021-22	Due to increase in transmission assets under O&M stage and aging of Transmission assets requiring more maintenance

Name of Transmission Company: Power Grid Corp			Power Grid Corporation of India Limited
Name	of Transmission Region:		Eastern Region
S1 No	Particulars	Year	Reasons of Variance
42	Electricity Charges	2021-22	Arrear payment for Tertiary Power charges for substations under Odisha
43	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
44	Traveling and conveyance	2021-22	Increase in Employee movement due to relaxation of Covid Norms
45	Communication Expenses	2021-22	Increase due to employee entitlements.
46	Cost Audit Fees	2021-22	Due to change of fees paid in other capacity for certification work
47	Professional charges (not covered under employee expenses)	2021-22	Cost of conducting Pile integrity & their analysis
48	Printing and Stationary	2021-22	General reduction in stationery procurement
49	Hiring of Vehicle (excluding construction & Corporate exp)	2021-22	Due to increase in CLW Rates for driver wages and general increase in contract rates
50	Training and Recruitment expenses	2021-22	Due to COVID in FY 2020-21, less no. of offline trainings were done.
51	Rates and taxes	2021-22	Arrear lease rent from Dec'2011 to Mar'2019 amounting to Rs.2.27 crores on renewal of Leasehold Land at Birpara S/S
52	Rebate to Customers	2021-22	Decrease in rebate due to special covid rebate given in FY 2020-21.
53	Any other A&G expenses (Provide details)	2021-22	Scrap loss for decap of old assets

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

Name of	f Transmission Company:	Power Grid Corporation of India Limited					
	f Transmission Region:		Ea	stern Regio	on		
	U	(Rs. In Lakhs					
Sr.No.	ITEM	2017-18	2018-19	2019-20	2020-21	2021-22	
1	2	3.00	4.00	5.00	6.00	7.00	
1.0	Repairs and Maintenance Expenses :						
1)	Repairs of Plant & Machinery	193.12	250.18	218.13	242.43	515.70	
2)	Consumption of Stores (not capitalized)	0	246.54	7.59	7.59	106.83	
3)	Consumption of Spares (not capitalized)		Incl	uded in 1.0	(1)		
4)	Patrolling expenses	Inc	cluded in nat			ıre	
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	
	Sub-total (R&M Expenses)	193.12	496.73	225.72	250.02	622.53	
2.0	Administrative & General Expenses:						
1)	Insurance	0	0.24	0	0	0	
2)	Security (General other than special)	0	0	0	0	0	
3)	Rent	0	0	0	0	0	
4)	Electricity Charges	0	0	0	0	0	
5)	Traveling and conveyance	8.82	3.82	0.19	8.19	12.17	
6)	Communication expenses	0.81	0.25	0.17	1.91	2.95	
7)	Advertisement and publicity	6.60	3.30	14.13	13.89	1.29	
8)	Foundation laying and inauguration	0	0	0	0	0	
9)	Books Periodicals and Journals	0	0	0	0	0	
10)	Research expenses	0	0	0	0	0	
11)	Cost Audit Fees	0	0	0	0	0	
12)	Horticulture Expenses	0	0	0	0	0	
13)	Bandwidth charges dark fibre lease charges	40.65	82.18	117.36	144.04	63.06	
14)	Donations expenses	0	0	0	0	0	
15)	Entertainment expenses	0.33	0.10	0	0.28	0.90	
16)	Filing Fees	8.87	3.00	14.71	16.71	16.19	
17)	Legal Expenses	0	0	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	0.04	0	0	0	0	
21)	Hiring of Vehicle (excluding construction &	0	0	3.84	0	3.80	
22)	Training and Recruitment expenses	0	0	0.27	0.03	0.16	
23)	Rates and taxes	0	0	0.46	0	0	
24)	Rebate to Customers	0	16.95	52.13	129.51	12.76	
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)	295.23	961.06	1245.48	480.35	323.98	
	Sub-total(A&G Expenses)	361.35	1070.89	1448.73	794.91	437.25	

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

Name of Transmission Company: Power Grid Corporation of India Lin					f India Limi	ited
Name o	of Transmission Region:	Eastern Region				
3.0	Employee Expenses					
1)	Salaries, wages and allowances	62.06	73.28	18.15	170.52	199.21
2)	Staff welfare expenses		1.51	0.38	5.72	6.93
·	a) Contribution to Provident and other funds	3.15	11.37	2.30	21.99	35.37
	b) Gratuity	-3.58	0.32	0.29	0.22	0.15
	c) Pension	4.97	0.21	0.00	1.38	1.38
	d) Employee Medical Expenses	4.31	3.76	-0.04	3.30	2.92
	e) Liveries and Uniforms	0.30	0.72	0.72	4.59	3.30
	f) Safety & Appliances expenses	0.15	0	0	0	0
	g) Others	3.58	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)	9.45	2.43	1.23	0.00	2.24
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
	Sub-total(Employee Expenses)	84.40	93.60	23.03	207.71	251.52
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	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	0	0	0	0	0
10.0	- Others (Specify items not included above)	0	0	0	0	0
	Sub Total (1 to 10)	638.87	1661.21	1697.48	1252.65	1311.30
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	638.87	1661.21	1697.48	1252.65	1311.30

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

Name o	of Transmission Company:	Power Grid Corporation of India Limited			ited	
Name o	of Transmission Region:	Eastern Region				
13	Capital spares consumed not included in (A) (1) above and not claimed /allowed by Commission for capitalization	Capital Spares not claimed/allowed by CERC have bee consmued as O&M Spares				have been
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)					
14	Total Expenses (12) + (13A)	638.87	1661.21	1697.48	1252.65	1311.30

Notes:	
	I. The details of Corporate Expenses and the methodology of allocation of corporate expenses to various functional activities and allocation of Corporate expenses pertaining to power generation/ transmission system to each operating stations/ transmission region/system and stations/ transmission region/system under construction should be clearly specified in ANNEXURE-VIII as provided here separately.
	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,
	IX. Details of capital spares consumed each year which were not claimed/allowed in the tariff should be

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	0.00	0.00	0.00	0.00	0.00			
2	EDP Expenses	0.00	0.00	0.00	0.00	0.00			
3	Miscellaneous Expenses	291.15	115.65	153.49	115.44	0.00			
4	Bad Debts Expenses	0.00	0.00	0.00	0.00	0.00			
5	FERV Expense	4.08	845.41	1091.98	364.90	323.98			
	Total	295.23	961.06	1245.48	480.35	323.98			

Additional Region-wise Information r	equired from Transmission Licensees
Traditional Region Wise information i	quireu iroin irunsmission Electisees

Name of Transmission Company: Power Grid Corporation of India Limited

Name of Transmission Region: Eastern Region

	Table-1- Length (kı	m) of Transmissio	n Lines in Co	mmercial Ope	ration	
	-	Status a	as on			
		1.4.2018	1.4.2019	1.4.2020	1.4.2021	1.4.2022
1	HVDC					
	a) S/C	0	0	0	0	0
2	765 kV					
	a) S/C	1195.97	1195.97	1195.97	1195.97	1195.97
	b) D/C	296.54	591.60	591.60	591.60	591.60
3	765 kV Charged at 400 KV					
	a) S/C	0	0	0	0	0
4	400 kV					
	a) S/C	2139.10	2139.10	2139.10	2139.10	2139.10
	b) D/C	6965.04	7147.20	7438.95	7736.38	7915.57
	c)D/C on M/C	5.80	5.80	5.80	5.80	5.80
	d)Multi Circuit	79.39	79.39	79.39	79.39	79.39
5	400 kV Charged at 220 KV					
	a) D/C	0	0	0	0	0
6	220 kV					
	a) S/C	38.00	38.00	38.00	38.00	38.00
	b) D/C	821.46	821.46	821.46	821.46	821.46
7	Up to 132 kV					
-	a) S/C	151.00	151.00	151.00	151.00	151.00
	b) D/C	155.25	155.25	155.25	155.25	155.25

	Table-2-Ckt km by Conductor Configuration									
		Type of			Status as on					
		Conductor	1.4.2018	1.4.2019	1.4.2020	1.4.2021	1.4.2022			
1	Hexa	Zebra D/C	41.08	631.20	631.20	631.20	631.20			
2	Quad	Bersimis S/C	1195.97	1195.97	1195.97	1195.97	1195.97			
		Bersimis D/C	552.00	552.00	552.00	552.00	552.00			
		Moose D/C	3748.91	3877.21	4159.99	4159.99	4485.99			
		Moose M/C	181.56	181.56	181.56	181.56	181.56			
		Moose D/C on M/C	7.49	7.49	7.49	7.49	7.49			
3	Tripple	Snowbird D/C	492.82	492.82	793.54	1213.54	1213.54			
4	Twin	Moose D/C	9474.20	9547.18	9547.18	9722.04	9731.82			
		Moose S/C	2138.08	2138.08	2138.08	2138.08	2138.08			
		Moose M/C	136.02	136.02	136.02	136.02	136.02			

							Aillexule-1A
	A	dditional Region-wise	Information re	quired from T	ransmission L	icensees	
Name of	f Transmissi	on Company:	Power Grid C	Corporation of	India Limited		
Name of	f Transmissi	on Region:	Eastern Regi	on			
		Moose D/C on M/C	4.10	4.10	4.10	4.10	4.10
		Invar D/C	52.59	52.59	52.59	52.59	52.59
		Lapwing D/C	161.21	161.21	161.21	161.21	161.21
		Lapwing S/C	1.02	1.02	1.02	1.02	1.02
		HTLS	0	163.00	163.00	163.00	185.60
5	Single	Moose D/C	0.39	0.39	0.39	0.39	0.39
		Zebra D/C	1642.93	1642.93	1642.93	1642.93	1642.93
		Zebra S/C	38.00	38.00	38.00	38.00	38.00
		Panther S/C	114.00	114.00	114.00	114.00	114.00
		Panther D/C	308.00	308.00	308.00	308.00	308.00
		Dog D/C	2.50	2.50	2.50	2.50	2.50
		Dog S/C	37.00	37.00	37.00	37.00	37.00
		Grand Total	20329.87	21284.27	21867.78	22462.64	22821.02

	Table-3- Number of AC Substations in Commercial Operation									
		Status a	is on							
	1.4.2018 1.4.2019 1.4.2020 1.4.2021 1.4.2022									
1	765 kV	5	5	5	5	5				
2	400 kV	28	29	29	29	29				
3	220 kV	7	7	7	7	7				
4	Up to 132 kV	1	1	1	1	1				

	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	56	56	56	56	56			
2	765 kV	48	56	67	71	71			
3	400 kV	405	443	466	474	485			
4	220 kV	160	176	181	182	184			
5	Up to 132 kV	56	58	60	60	61			

Table-5- Cos	st of Outsourci	ng of Services	(Rs. lakh)	Table-5- Cost of Outsourcing of Services (Rs. lakh)								
	2017-18	2018-19	2019-20	2020-21	2021-22							
Substation O&M	5145.43	7106.53	8048.42	8091.49	7846.66							
Lines O&M	4464.06	4734.91	5011.99	5675.44	3880.16							
Security	4356.13	4350.34	4907.02	5215.48	5266.40							
Others	2870.55	3570.51	3425.47	3165.18	3453.26							
Grand Total	16836.17	19762.29	21392.90	22147.60	20446.47							

Table-6- Total O&M Expenditure Including RHQ, but Excluding HVDC Stations (Rs lakh)									
2017-18 2018-19 2019-20 2020-21 2021-22									
O&M	67140.55	75358.65	78737.98	93652.51	79801.98				
Total	67140.55	75358.65	78737.98	93652.51	79801.98				

Name of Transmission Company:	Power Grid Corporation of India Limited
Name of Transmission Region:	Eastern Region
Station wise O&	M Expenditure at HVDC Station (Rs. lakh)

Particulars	2017-18	2018-19	2019-20	2020-21	2021-22
Name of HVDC Station:		AI	IPURDUAR	•	
i) No of Employees	15	21	19	15	17
ii) A&G Expenses	556.85	1104.64	1088.11	962.64	909.36
iii) Repairs & Maintenance	0.93	975.67	1162.51	927.15	905.05
iv) Employee Expenses*	294.53	191.78	277.55	257.07	302.63
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
Total Expenditure	852.32	2272.09	2528.17	2146.85	2117.04

Particulars	2017-18	2018-19	2019-20	2020-21	2021-22
Name of HVDC Station:		-	FALCHER		
i) No of Employees	19	22	19	21	21
ii) A&G Expenses	500.57	1039.18	998.33	954.49	795.75
iii) Repairs & Maintenance	838.80	843.19	736.24	421.64	781.02
iv) Employee Expenses*	373.03	624.72	627.08	516.72	589.61
v) Corporate expenses allocated*		Included i	n Annexure-	VI (B-I)	
vi) Other income (Note-38)	0	0	0	0	0
vii) Any other income	0	0	0	0	0
Total Expenditure	1712.40	2507.09	2361.65	1892.85	2166.38

Particulars	2017-18	2018-19	2019-20	2020-21	2021-22
Name of HVDC Station:			SASARAM		
i) No of Employees	24	16	16	16	15
ii) A&G Expenses	237.89	287.47	311.77	256.48	344.10
iii) Repairs & Maintenance**	410.93	828.83	660.44	538.88	684.68
iv) Employee Expenses*	471.26	244.87	231.92	228.99	252.08
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
Total Expenditure	1120.07	1361.17	1204.14	1024.36	1280.86

Note:

Excluding VII Pay arrear paid for period prior to FY 2017-18

^{**} iii) Repairs & Maintenance- Includes Power charges & Operating expenses of DG Sets

^{*} v) Corporate expenses allocated* - Includes CC/RHQ Employee Cost chargeable to revenue & Corporate center/RHQ exp chargeable to revenue

Additional Region		nation require munication Sy		mission Licen	sees_				
Name of Transmission (Company:	Power	Grid Corpora	tion of India l	Limited				
Name of Transmission	Region:	Eastern Region							
Table-1- Detai	ls of Commu	nication system	m in Commer	cial Operation	າ				
Particulars			Status as on						
rarticulars	1.04.2018	1.04.2019	1.04.2020	1.04.2021	1.04.2022				
OPGW Communication Links in operation(in Kms)	4658	5103.06	5325.78	6012.42	6632.63				
Number of wideband Communication nodes in operation	62	58	59	61	64				
Number of RTUs in operation	33	25	22	21	20				
Number of PLCC links in operation	0	0	0	0	0				
Number of PMUs in Operation	* 12 ** 187	289	289	290	296				
Number of Auxiliary Power Supply Nodes in operation	51	38	38	38	39				
Table-2	- Cost of Out	ourcing of Se	rvices (INR ir	ı lakhs)					
Particulars	2017-18	2018-19	2019-20	2020-21	2021-22				
Communication system O&M	268.26	229	243.07	270.51	299.54				
PLCC O&M	0	0	0	0	0				
RTU O&M	11.97	8.64	6.48	6.48	5.76				
Auxiliary Power Supply O&M	2.53	12.82	12.82	12.82	12.82				
Hiring charges of Bandwidth	41.57	82.18	270.85	258.85	61.34				
Security	0	1.58	1.58	1.58	1.58				
Others	14.42	0	0	0	0				
Total	338.75	334.22	534.8	550.24	381.04				

Note:

^{*} Under Pilot project ** Under URTDSM project

Annexure-XII (C)

3.7	4.T. 1 1 0	D 0.110	Annexure-XII (C)				
	ame of Transmission Company:	Power Grid Corporation					
<u> </u>	Name of Transmission Region:	Eastern Region					
	Standard list of Capital Spare for Con	mmunication system needs to b	e submitted				
	OPGW/SDH/MUX/PI	CC/RTU cards/DC Modules					
S.No	Name of capital spare	Qty (Nos)	Cost (Rs in lakhs)				
1	OPGW & Asscociated Hardware Fittings	19 Km	25				
2	SDH Spares	2 SET					
3	DCPS Spares	2 SET	1.41				
4	WAMS system under URTDSM Project	10% of Spare card of Each equipment, PMUs	304.44				
Standa	ard list of O&M Spare for OPGW/SDH	H/MUX/PLCC /RTU cards/DC M	Iodules needs to be				
	- · · · · · · · · · · · · · · · · · · ·	bmitted					
	OPGW/SDH/MUX/PI	LCC/RTU cards/DC Modules					
S.No	Name of O&M spare	Qty (Nos)	Cost (Rs in lakhs)				
1	SDH Spares	1 SET	98.74				
2	RTU Spare	1 SET	8.00				

Jamo	of Transm	ission Company:			1	20147	or Crid C	ากะค	oration	of In	dia Limi	tad		
		smission Region:			1	UW			ern Regi		uia Liiii	ieu		
11411	THE OF TRUIT	sinission region.												
S.no	Voltage	Substations	2017	-18	2018-1	9	2019-2	0	2020-2	1	2021	-22	2022	2-23
	level		MU	%	MU	%	MU	%	MU	%	MU	0/0	MU	%
1	220	ARA	0.563	-	0.441	-	0.455	-	0.432	-	0.432	-	0.416	
2	400	BANKA	0.485	-	0.643	-	0.760	-	0.639	-	0.661	-	0.749	
3	400	BIHARSHARIF	1.486	-	1.497	-	1.398	-	1.221	-	1.334	-	1.358	-
4	765	GAYA	1.340	-	1.406	-	1.427	-	1.240	-	1.144	-	1.073	-
5	400	JAMSHEDPUR	0.956	-	0.842	-	0.852	-	0.892	-	0.954	-	0.936	-
6	400	MUZAFFARPUR	1.190	-	1.275	-	1.181	-	1.053	-	1.092	-	1.167	-
7	400	NEW PURNEA	1.650	-	0.949	-	0.845	-	0.835	-	0.879	-	0.873	-
8	400	PATNA	1.060	-	1.042	-	1.021	-	0.964	-	0.933	-	0.906	-
9	220	PURNEA	0.622	-	0.450	-	0.442	-	0.411	-	0.340	-	0.420	-
10	400	RANCHI	0.910	-	0.967	-	0.996	-	0.964	-	0.956	-	1.027	-
11	765	NEW RANCHI	1.250	-	1.611	-	1.611	-	1.810	-	1.924	-	1.899	-
12	400	LAKHISRAI	0.625	-	0.516	-	0.615	-	0.476	-	0.537	-	0.537	-
13	765	PUSAULI	1.535	-	1.445	-	1.648	-	1.415	-	1.509	-	1.494	
14	400	CHAIBASA	0.546	_	0.513	_	0.524	-	0.534	-	0.550	-	0.506	-
15	400	KISHANGANJ	0.388	_	0.335	_	0.674	-	0.723	-	0.482	-	1.435	-
16	400	CHANDWA	0.196	-	0.192	_	0.233	-	0.216	-	0.232	-	0.250	_
17	400	DALTONGANJ	-	-	0.340	_	0.461	-	0.421	-	0.410	-	0.434	_
18	HVDC	SASARAM HVDC	4.605	-	4.336	_	4.945	-	4.246	-	4.528	-	4.482	_
19	400	ALIPURDUAR	1.487	_	1.585	_	1.657	_	1.708	-	1.658	_	1.574	
20	400	SUBHASGRAM	1.353	_	0.954	_	0.995	_	0.908	-	0.919	_	0.683	
21	400	DURGAPUR	0.795	_	1.128	_	0.915	_	1.098	-	0.751	_	0.884	
22	400	RAJARHAT	NA	_	0.414	_	0.431	-	0.803		0.811	_	0.748	_
23	400	MALDA	0.445	_	0.399	_	0.356	-	0.332		0.356	_	0.346	_
24	400	RANGPO	0.368	_	0.331	_	0.343	_	0.344	_	0.356	_	0.346	
25	220	BIRPARA	0.452	_	0.401	_	0.365	_	0.389	<u> </u>	0.362	_	0.352	
26	220	NEW MELLI	0.145	_	0.194	_	0.295	_	0.295	_	0.322	_	0.315	
27	220	DALKHOLA	0.389	_	0.277	_	0.264	_	0.275	<u> </u>	0.251	_	0.232	
28	400	MAITHON	1.120	_	0.706		0.667		0.803		0.803	_	0.829	
29	220	SILIGURI	0.435	_	0.443		0.392		0.386		0.388	_	0.379	
30	400	BINAGURI	0.925	_	0.839	_	0.881	_	0.860	_	0.935	_	0.988	
31	400	BERHAMPORE	0.312		0.379		0.337	늰	0.313	H	0.372	_	0.421	
32	132	GANGTOK	0.076		0.078	\vdash	0.079	긤	0.080	H	0.080	_	0.421	<u>-</u>
33	HVDC	ALIPURDUAR	4.460		4.755	-	4.971	H	5.125	Ė	4.973	-	4.721	
55	11100	HVDC	7.700	_	4.755		T.7/ I		0.120		4.77 3		7./41	- I
34	765	Angul	1.276	_	1.368		1.278		1.175		1.028	_	0.938	
35	400	Baripada	0.120		0.680		0.812		0.722		0.540	_	0.668	
36	400	Bolangir	0.120		0.501	_	0.515		0.722		0.461	_	0.463	
37	400	Indravati	0.484		0.221		0.256	H	0.433	Ė	0.401	_	0.463	
38	400	Jeypore	0.261		0.221	H	1.013	H	1.056		1.192		1.631	
39	400	Keonjhar	0.261		0.945		0.407		0.469	H	0.475	-	0.426	
40	400	Pandiabili	0.323		0.416		0.407		0.469	H	0.475		0.426	
41	400	Rengali	0.497		0.333	-	0.329	\vdash	0.451	\vdash	0.463	-	0.434	-

	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:								East	tern Regi	on				
S.no	Voltage	Substations	2017	-18	2018-1	9	2019-2	0	2020-2	1	2021	-22	2022	2-23
	level		MU	%	MU	%	MU	%	MU	%	MU	%	MU	%
42	400	Rourkela	0.520	•	1.051	-	0.865	-	0.902	1	1.131	-	1.436	-
43	765	Sundargarh	0.970	•	2.011	-	1.669	-	1.555	-	1.530	-	1.334	-
44	HVDC	Talcher HVDC	8.250	-	7.593	-	7.925	-	7.835	1	7.736	-	7.745	-

Details of incidental Expenses During Construction (IEDC) including compensation, employee expenses and other expenses for assets acieveing COD post 01.04.2017

	Name of Transmission Company:	Power Grid Corporation of India Limited							
	Name of Transmission Region:		_	Eastern 1	Region	T	1		
S1. 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.	ERSS-IX	S/s			213.32	123.07			
	POWERGRID works associated with Transmission System Strengthening in India System for Transfer of Power from new HEPs in Bhutan	S/s			148.35	18.27			
3.	ERSS XI	S/s			0	876.25			
4.	Common scheme for 765 kV Pooling Stations and Network	S/s			27.18	24.59			
	ERSS - V	S/s			16.97	0.00			
	ERSS-VI	S/s			5.98	3.59			
	ERSS XIV	S/s			9.06	83.70			
	ERSS XVII, Part- A	S/s			0.00	65.08			
	ERSS XII	S/s			1149.81	233.13			
	ERSS-III	S/s			503.16	441.49			
	ERSS-III	TL	-		1295.71	1076.39			
	ERSS XVII, Part- B	S/s	1		0.00	89.78			
	ERSS-XX	S/s			503.73	292.76			
	SPLIT BUS ARRANGEMENT FOR VARIOUS SUB	S/s	1		42.52	4.22			
	SPLIT BUS ARRANGEMENT FOR VARIOUS SUB STATIONS IN ER	TL			525.45	0			
	Associated Transmission System for Nabinagar-II TPS (3X660 MV)	S/s			272.08	178.77			
	Associated Transmission System for Nabinagar-II TPS (3X660 MV)	TL			1290.22	1188.49			
18.	Establishment of Communication system under Expansion/ Upgradation of SCADA/ EMS System of SLDCs of Eastern Region (BSPTCL & DVC) links	S/s			238.97	95.25			
19.	ERSS XVIII	S/s			775.09	390.21			
20.	ERSS XXIII	S/s			766.85	403.18			
21.	ERSS XXIII	TL			1382.62	726.94			
22.	ERSS-III	S/s			111.73	42.36			
23.	Transmission System associated with Darlipali TPS	S/s			6.50	1.83			
24.	Transmission System associated with Darlipali TPS	TL			63.45	17.84			
	ERSS XIV	S/s			45.14	17.37			
	ERSS XIV	S/s			26.86	12.86			
27.	ERSS XIV	S/s			13.86	6.62			
28.	Powergrid works associated with Common Transmission System for Phase-II Generation Project in Odisha	S/s			40.53	13.49			
29.	Powergrid works associated with Common Transmission	S/s			9.13	1.25			
30.	System for Phase-II Generation Project in Odisha Powergrid works associated with Common Transmission System for Phase II Congretion Project in Odisha	S/s			33.28	4.08			
31.	System for Phase-II Generation Project in Odisha Powergrid works associated with Common Transmission System for Phase-II Generation Project in Odisha	TL			209.21	25.62			
32.	Powergrid works associated with Common Transmission System for Phase-II Generation Project in Odisha	S/s			789.32	310.37			
	Common system associated with East Coast energy Pvt Ltd & NCC power projects Ltd LTOA generation projects in Srikakulam area Par	S/s			367.94	263.32			
34.	Common system associated with East Coast energy Pvt Ltd & NCC power projects Ltd LTOA generation projects in Srikakulam area Par	TL			2942.31	2105.72			

D	etails of incidental Expenses During Construction acie	(IEDC) includi eveing COD post			e expenses an	d other expenses f	or assets		
	Name of Transmission Company:	Power Grid Corporation of India Limited							
	Name of Transmission Region:			Eastern					
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		
35.	Common system associated with East Coast energy Pvt Ltd & NCC power projects Ltd LTOA generation projects in Srikakulam area Par	S/s			54.43	39.41			
36.	Common system associated with East Coast energy Pvt Ltd & NCC power projects Ltd LTOA generation projects in Srikakulam area Par	TL			408.87	296.02			
37.	ERSS XI	S/s			188.82	109.32			
38.	ERSS XI	S/s			197.62	99.79			
39.	Powergrid works associated with TBCB Lines under Common Transmission System for Phase-II Generation Project in Odisha	S/s			138.52	198.76			
40.	ERSS-IX	S/s			29.91	8.78			
41.	ERSS-IX	S/s			14.44	2.08			
42.	ERSS XII	S/s			27.39	0.00			
43.	ERSS XII	S/s			32.64	0.00			
44.	ERSS XVII, Part- B	S/s			2.97	1.44			
45.	ERSS XVII, Part- B	S/s			14.00	6.81			
46.	ERSS XVII, Part- B	S/s			61.53	29.94			
47.	ERSS XVII, Part- B	S/s			14.80	7.20			
48.	ERSS XVII, Part- B	S/s			59.44	28.92			
49.	Communication system under Eastern Region Fibre Optic Expansion Project(Additional Requirement)	S/s			14.61	22.12			
50.	ERSS-V	S/s			9.84	29.37			
51.	SCADA	ULDC			5.58	3.10			
52.	SCADA	ULDC			3.64	1.68			
53.	SCADA	ULDC			1.22	0.76			
54.	SCADA	ULDC			0.33	0.27			
	ULDC replacement	ULDC			10.19	2.25			
	ERSS-VII	S/s			0.00	0.01			
	SCADA	ULDC			1.54	0.92			
	HVDC-Pole3&4	TL			78.80	42.99			
	HVDC-Pole3&4	TL			201.40	103.77			
	ERSS-IX	S/s	ļ		6.66	10.36			
	ERSS XIV	S/s	1		1.75	1.17			
	SCADA EPICC VIV	ULDC	ļ		0.00	2.21			
	ERSS XV	S/s	1		0.40	0.74			
	ERSS XV	S/s	1		9.76	7.53			
	ULDC Expanssion (274) ULDC Expanssion (274)	ULDC ULDC	-		0.47 0.55	0.27 0.35			
	ERSS XIV	S/s	-		21.42	23.99			
	ERSS XV	S/s S/s			3.07	23.99			
	ERSS XV	TL	 		10.36	10.50			
	ERSS XV	S/s	-		4.13	1.88			
	EDCC VV	5/ S			4.13	1.00			

	Name of Transmission Company:	Power Grid Corporation of India Limited							
	Name of Transmission Region:	Eastern Region							
Sl.	Name of Scheme	Sub-station	MVA/	Compensation			Any other		
No.		(S/s)/	Line	(Forest, crop,	Employee	Administrative	expenses		
		Transmission	Length	Tree, PTCC)	Expenses	& General			
		Line (TL)	(km)	,		Expenses			
35.	Common system associated with East Coast energy Pvt Ltd	S/s	` /				<u> </u>		
00.	& NCC power projects Ltd LTOA generation projects in	5/5			54.43	39.41			
	Srikakulam area Par				04.40	37.41			
36.	Common system associated with East Coast energy Pvt Ltd	TL							
00.	& NCC power projects Ltd LTOA generation projects in	12			408.87	296.02			
	Srikakulam area Par				100.07	250.02			
37.	ERSS XI	S/s			188.82	109.32			
	ERSS XI	S/s			197.62	99.79			
	Powergrid works associated with TBCB Lines under	S/s			177.102	335			
07.	Common Transmission System for Phase-II Generation	5/ 5			138.52	198.76			
	Project in Odisha				100.02	190.70			
40.	ERSS-IX	S/s			29.91	8.78			
41.	ERSS-IX	S/s			14.44	2.08			
	ERSS XII	S/s			27.39	0.00			
43.	ERSS XII	S/s			32.64	0.00			
44.	ERSS XVII, Part- B	S/s			2.97	1.44			
45.	ERSS XVII, Part- B	S/s			14.00	6.81			
46.	ERSS XVII, Part- B	S/s			61.53	29.94			
	ERSS XVII, Part- B	S/s			14.80	7.20			
48.	ERSS XVII, Part- B	S/s			59.44	28.92			
49.		S/s			07122				
	Communication system under Eastern Region Fibre Optic	5, 5			14.61	22.12			
	Expansion Project(Additional Requirement)								
50.	ERSS-V	S/s			9.84	29.37			
	SCADA	ULDC			5.58	3.10			
52.	SCADA	ULDC			3.64	1.68			
53.	SCADA	ULDC			1.22	0.76			
54.	SCADA	ULDC			0.33	0.27			
	ULDC replacement	ULDC			10.19	2.25			
	ERSS-VII	S/s			0.00	0.01			
	SCADA	ULDC			1.54	0.92			
58.	HVDC-Pole3&4	TL			78.80	42.99			
	HVDC-Pole3&4	TL			201.40	103.77			
	ERSS-IX	S/s			6.66	10.36			
61.	ERSS XIV	S/s			1.75	1.17			
62.	SCADA	ULDC			0.00	2.21			
	ERSS XV	S/s			0.40	0.74			
64.	ERSS XV	S/s			9.76	7.53			
65.	ULDC Expanssion (274)	ULDC			0.47	0.27			
	ULDC Expanssion (274)	ULDC			0.55	0.35			
	ERSS XIV	S/s			21.42	23.99			
68.	ERSS XV	S/s			3.07	2.26			
	ERSS XV	TL			10.36	10.50			
	ERSS XV	S/s			4.13	1.88			
71.	ERSS XV	TL			31.43	28.20			
72.	ERSS V	S/s			273.58	106.64			
73.	ERSS V	TL			44.67	17.15			
	ERSS V	S/s			34.47	13.27			
75.	ERSS V	S/s			34.47	13.27			
76.	ULDC MW Replacement	ULDC			11.53	7.98			
	URTDSM	ULDC			45.93	101.11			
	URTDSM	ULDC			5.24	11.52			
79.	ERSS XVII B	S/s			6.50	8.66			
	ERSS V	S/s			116.76	59.55			
81.	ERSS V	TL			962.83	695.27			

D	etails of incidental Expenses During Construction	(IEDC) includi			e expenses an	d other expenses f	for assets		
	Name of Transmission Company:	Power Grid Corporation of India Limited							
	Name of Transmission Region:			Eastern					
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		
82.	ERSS XX	S/s			21.19	4.38			
83.	ERSS XX	S/s			28.48	6.30			
84.	ULDC Expanssion (274)	ULDC			0.87	0.37			
85.	Development of pooling station in Northern part of W.B. and transfer of power from Bhutan to NR/WR	TL			620.63	316.31			
86.	ERSS V	S/s			48.38	15.18			
87.	ERSS V	S/s			871.51	551.05			
88.	ERSS V	TL			1867.93	593.47			
89.	ERSS XX	S/s			83.63	17.40			
90.	ERSS XX	S/s			29.12	45.53			
91.	ERSS XX	TL			367.93	575.21			
92.	ERSS XVII-B	S/s			197.22	4.92			
93.	ULDC expansion 274	ULDC			11.18	0.64			
94.	ERSS XV	S/s			86.07	-2.92			
95.	ERSS XV	TL			9.39	-0.31			
96.	Mangdechu-390	TL			377.95	542.29			
97.	ERSS XVII-B	S/s			210.67	93.72			
98.	ERSS XVII-B	S/s			156.45	65.59			
99.	ERSS XX	S/s			22.80	424.83			
100.	ERSS XXIII	TL			18.20	261.32	_		
101.	ERSS XXIII	S/s			7.14	102.48			
102.	Sikkim-B1 (477)	TL			116.30	922.68			
103.	SKMB-257	S/s			34.89	5.32			

	of Transmissio		Power Grid Corporation of India Limited Eastern Region						
Name o	of Transmissio	on Region:							
SI No.	Year	Configuration	Length (km)	Total Cost	Cost/km	Cost/ckt-kr			
1 No.	2013-14	HVDC	Length (Kill)	Total Cost	Cosykiii	Cosycki-ki			
1	2013-14		0.00						
		a) S/C	0.00	\dashv					
		765 kV		7					
		a) S/C	0.00						
		b) D/C							
		765 kV Charged at 400 KV							
		a) S/C	0.00						
		400 1 77							
		400 kV	0.00	\dashv					
		a) S/C	299.65	\dashv					
		b) D/C c)D/C on M/C	0.00	\dashv					
		d)Multi Circuit	0.00	\dashv					
		u)Multi Circuit	0.00	\dashv					
		400 kV Charged at 220 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	0.00	┪					
-		a) S/C	0.00						
		765 kV		-					
		a) S/C	502.98	\dashv					
		b) D/C	302.70	_					
		765 kV Charged at 400 KV							
		a) S/C	0.00						
		400 kV	0.00	4					
		a) S/C	0.00	-					
		b) D/C	462.74	4					
	1	c)D/C on M/C	0.00	_					
		d)Multi Circuit	42.02	_					

Details of Capital Cost of Transmission Line							
		on Company:	Power G	Grid Corporation of India Limited			
Name of	Transmissi	on Region:		Eastern Region			
		400 kV Charged at 220 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				
2	2015 16	b) D/C	4.75				
3	2015-16	HVDC	2.22	_			
		a) S/C	0.00				
		D/E 137		\dashv			
		765 kV	272.00	\dashv			
		a) S/C	272.00	-			
		b) D/C		\dashv			
		7(5 1-X) Charge d at 400 VX		_			
		765 kV Charged at 400 KV	0.00	_			
		a) S/C	0.00	-			
		400 kV		-			
		a) S/C	0.00	-			
		b) D/C	436.45	-			
		c)D/C on M/C	0.00				
		d)Multi Circuit	0.00				
		d)Watt encar	0.00	-			
		400 kV Charged at 220 KV					
		a) D/C	0.00				
		-, , -					
		220 kV		7			
		a) S/C	0.00				
		b) D/C	46.52				
		, .					
		Up to 132 kV					
		a) S/C	0.00	7			
		b) D/C	0.00				
4	2016-17	HVDC					
		a) S/C	0.00				
		765 kV					
		a) S/C	273.18				
		b) D/C					
		765 kV Charged at 400 KV					
		a) S/C	0.00				

Details of Capital Cost of Transmission Line								
Name of Transmis		Power Grid Corporation of India Limited						
Name of Transmis			Eastern Region					
	400 kV							
	a) S/C	0.00						
	b) D/C	313.00						
	c)D/C on M/C	0.00						
	d)Multi Circuit	28.05						
	400 kV Charged at 220 KV							
	a) D/C	0.00						
	220111							
	220 kV	2.22						
	a) S/C	0.00						
	b) D/C	0.00						
	Un to 122 LV							
	Up to 132 kV	0.00						
	a) S/C b) D/C	0.00						
5 2017-18		0.00						
2017-10	a) S/C	0.00						
	u) 5/ 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	0.00	D					
	b) D/C	366.52	Data separately not					
	c)D/C on M/C	0.00	available/maintained					
	d)Multi Circuit	0.00						
	400 kV Charged at 220 KV							
	a) D/C	0.00						
	200 1 1/							
	220 kV	0.00						
	a) S/C	0.00						
	b) D/C	2.50						
	Up to 132 kV							
	a) S/C	0.00						
	b) D/C	0.00						
6 2018-19		0.00						
2010-19	a) S/C	0.00						
ļ	a) 5/ C	0.00						

	Cost of Transmission Line		
lame of Transmiss		Power Grid Corporation	
lame of Transmiss	ion Region:	Eastern Ro	egion
	765 kV		
	a) S/C	0.00	
	b) D/C	0.00	
	<i>b) b)</i> C		
	765 kV Charged at 400 KV		
	a) S/C	0.00	
	400 kV		
	a) S/C	0.00	
	b) D/C	182.16	
	c)D/C on M/C	0.00	
	d)Multi Circuit	0.00	
	100111161 1 1000161		
	400 kV Charged at 220 KV	0.00	
	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	
7 2019-20	HVDC		
	a) S/C	0.00	
	7.45 1.37		
	765 kV a) S/C	0.00	
	b) D/C	0.00	
	765 kV Charged at 400 KV	0.00	
	a) S/C	0.00	
	400 kV		
	a) S/C	0.00	
	b) D/C	291.75	
	c)D/C on M/C	0.00	
	d)Multi Circuit	0.00	
	400 kV Charged at 220 KV		
	a) D/C	0.00	
	- / - / -		
	220 kV		
	a) S/C	0.00	

lame of	f Transmissio	on Company:	Power G	Grid Corporation of India Limited
	f Transmissio			Eastern Region
		b) D/C	0.00	
		Up to 132 kV		
		a) S/C	0.00	
		b) D/C	0.00	
8	2020-21	HVDC		
		a) S/C	0.00	<u>_</u>
		765 kV		
		a) S/C	0.00	_
		b) D/C		
		765 kV Charged at 400 KV		_
		a) S/C	0.00	_
		100177		_
		400 kV	0.22	_
		a) S/C	0.00	_
		b) D/C	297.43	
		c)D/C on M/C	0.00	
		d)Multi Circuit	0.00	\dashv
		400 kV Charged at 220 KV		
		a) D/C	0.00	\dashv
		220 kV		
		a) S/C	0.00	
		b) D/C	0.00	
		11 100111		
		Up to 132 kV	0.00	\dashv
		a) S/C	0.00	-
0	2021.22	b) D/C	0.00	-
9	2021-22	HVDC	0.00	\dashv
		a) S/C	0.00	-
		765 kV		
		a) S/C	0.00	\neg
		b) D/C		
		T(F 1 V C1 1 + 400 V)		_
		765 kV Charged at 400 KV	0.00	\dashv
		a) S/C	0.00	\dashv
		400 kV		-
		a) S/C	0.00	
		b) D/C	179.19	\exists
		c)D/C on M/C	0.00	

Annexure-XVII

Details of Capit	Details of Capital Cost of Transmission Line						
Name of Transn	nission Company:	Power Grid Corporation of India Limited					
Name of Transn	nission Region:	Eastern Region					
	d)Multi Circuit	0.00					
	400 kV Charged at 220 KV						
	a) D/C	0.00					
	220 kV						
	a) S/C	0.00					
	b) D/C	0.00	<u>_</u>				
			_				
	Up to 132 kV		<u>_</u>				
	a) S/C	0.00	<u>_</u>				
	b) D/C	0.00					

		Details of Car	pital Cost of Tran	smission Line		7 1111	1exure-XVIII			
Name of	Transmission C	_	Power Grid Corporation of India Limited							
	Transmission R	1 2	 		astern Regi					
T (MILLO OI	114110111111111111111111111111111111111	 								
SI No.	Year	Configuration	MVA Capacity	No. of Bays	Total Cost	Cost/MVA	Cost/bays			
1	2013-14	765kV	1500	5	<u> </u>		1			
		400kV		42						
		220kV		0						
		132kV		1						
		HVDC		0	1					
2	2014-15	765kV	4500	16						
		400kV	3105	37						
		220kV	460	17						
		132kV		6						
		HVDC		0						
3	2015-16	765kV	6000	8						
		400kV	1500	20						
		220kV	800	14						
		132kV		1						
		HVDC		0						
4	2016-17	765kV		5						
		400kV	3000	32						
		220kV		4						
		132kV		0						
		HVDC		0						
5	2017-18	765kV		2						
		400kV	3260	32	l D	ata separately	not			
		220kV	320	11		ailable/maintai				
		132kV		2						
		HVDC		28						
6	2018-19	765kV	1500	8						
		400kV	1315	38						
		220kV		16						
		132kV		2						
-	2010.20	HVDC	2000	0						
7	2019-20	765kV	3000	11						
		400kV	2445	23						
		220kV	160	5						
		132kV		2						
8	2020.21	HVDC		0						
0	2020-21	765kV	1/20	8						
	<u> </u>	400kV 220kV	1630	1						
	<u> </u>	132kV		0						
	 	HVDC		0						
9	2021-22	765kV		0						
9	2021-22	400kV	1445	11						
	 	220kV	100	2						
1	 	132kV	100	1						
	 	HVDC		0						
		TIVDC		U						