

## Pro-forma for furnishing Actual annual performance/operational expenses for the Transmission Systems for 2022-23

Name of Transmission Company:			Power Grid Corporation of India Limited	
Name of Transmission Region:			Southern Region	
Table-1 - Region wise information (average for the year, but otherwise total for the region) for AC system				
Sl. No.	Particulars		Units	2022-23
1.	Number of AC Substation in operation		No.	
	(1)	765 kV		9
	(2)	400 kV		44
	(3)	220 kV		0
	(4)	132 kV		0
	(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		No.	
	(1)	765 kV		27000
	(2)	400 kV		40335
	(3)	220 kV		0
	(4)	132 kV		0
	(Nomenclature are as per highest available voltage level)			
3.	Number of bays in each AC Substation in		No.	
	(1)	765 kV		76
	(2)	400 kV		564
	(3)	220 kV		200
	(4)	132 kV		0
	(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		No.	
	(1)	765 kV		3020.46
	(2)	765 kV charged at 400 KV		1362.28
	(3)	400 kV		22835.30
	(4)	400 kV Charged at 220 KV		163.80
	(5)	220 kV		1001.25
	(6)	132 kV		0
	(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.

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Sl. No.	Particulars		Units	2022-23
5.	Total number of employees* engaged in O&M of Sub-station			
	(1)	765 kV	No.	159
	(2)	400 kV		526
	(3)	220 kV		0
	(4)	132 kV		0
	(1)	765 kV	Cost (Rs. Lakhs)	4625.17
	(2)	400 kV		15300.88
	(3)	220 kV		0
	(4)	132 kV		0
	(Nomenclature are as per highest available voltage level)			
6.	Total number of employees* engaged in O&M of			
	(1)	765 kV	No.	119
	(2)	400 kV		363
	(3)	220 kV		0
	(4)	132 kV		0
	(1)	765 kV	Cost (Rs. Lakhs)	3461.61
	(2)	400 kV		10559.35
	(3)	220 kV		0
	(4)	132 kV		0
	(Nomenclature are as per highest available voltage level)			
7.	Auxiliary Power Consumption (excluding colony		MU	
	(1)	765 kV		8.87
	(2)	400 kV		28.90
	(3)	220 kV		0
	(4)	132 kV		0
	(Nomenclature are as per highest available voltage level)			
8.	Colony Power Consumption		MU	
	(1)	765 kV		0.54
	(2)	400 kV		2.77
	(3)	220 kV		0.0
	(4)	132 kV		0.0
	(Nomenclature are as per highest available voltage level)			

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Sl. No.	Particulars		Units	2022-23
9.	Spare ICTs/Reactors			
	(1)	765/400kV 500MVA ICT	No.	0
	(2)	400/220kV		0
	(3)	220 kV		0
	(4)	132 kV		0
	(1)	765/400kV 500MVA ICT	Cost (Rs. Lakhs)	0
	(2)	400/220kV		0
	(3)	220 kV		0
	(4)	132 kV		0
	(Nomenclature are as per highest available voltage level)			
10.	Spare Smoothing Reactors			
	(1)	765 kV	No.	0
	(2)	400 kV		0
	(3)	220 kV		0
	(4)	132 kV		0
	(1)	765 kV	Cost (Rs. Lakhs)	0
	(2)	400 kV		0
	(3)	220 kV		0
	(4)	132 kV		0
	(Nomenclature are as per highest available voltage level)			
11.	ICTs			
	ICTs			
	(1)	765 kV	No.	18
	(2)	400 kV		102.5
	(3)	220 kV		0
	(4)	132 kV		0
	(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)			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.	

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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	2022-23
12.	Reactors			
	(1)	765 kV	No.	44
	(2)	400 kV		155
	(3)	220 kV		0
	(4)	132 kV		0
	(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.	(+)/(-)100 MVAR STATCOM		No.	0
			Cost (Rs. Lakhs)	0
	(+) /(-)300 MVAR STATCOM		No.	0
			Cost (Rs. Lakhs)	0
				Asset capitalised in the concerned FY is
14.	Average outage duration for		Hours/ year	
	A.	Transmission Lines		
	(1)	765 kV		24.79
	(2)	400 kV		11.63
	(3)	220 kV		13.12
	(4)	132 kV		0
	B.	Transformers		
	(1)	765 kV		14.02
	(2)	400 kV		17.90
	(3)	220 kV		0
	(4)	132 kV		0
	C.	Reactors		
	(1)	765 kV		0.12
	(2)	400 kV		7.72
	(3)	220 kV		0
	(4)	132 kV		0
	(Nomenclature are as per highest available voltage level)			

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Name of Transmission Company:			Power Grid Corporation of India Limited	
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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	2022-23
15.	Cost of Initial spares (for S/S)		(Rs. In Lakhs)	
	A.	Capitalized		
	(1)	765 kV		605.90
	(2)	400 kV		
	(3)	220 kV		
	(4)	132 kV		
	B.	In Stock		
	(1)	765 kV		Data seperately not available/ maintained□
	(2)	400 kV		
	(3)	220 kV		
	(4)	132 kV		
	C.	Cost of initial spares consumed		
	(1)	765 kV		Data seperately not available/ maintained□
	(2)	400 kV		
	(3)	220 kV		
	(4)	132 kV		
16.	Cost of O&M spares Consumed (for S/s)		(Rs. In Lakhs)	
	(1)	765 kV		726.19
	(2)	400 kV		
	(3)	220 kV		
	(4)	132 kV		
	(Nomenclature are as per highest available voltage level)			
17.	Cost of Initial spares (for Lines)		(Rs. In Lakhs)	
	A.	Capitalized		
	(1)	765 kV		113.92
	(2)	400 kV		
	(3)	220 kV		
	(4)	132 kV		
	B.	In Stock		
	(1)	765 kV		Data seperately not available/ maintained□
	(2)	400 kV		
	(3)	220 kV		
	(4)	132 kV		
	C.	Cost of initial spares consumed		
	(1)	765 kV		Data seperately not available/ maintained□
	(2)	400 kV		
	(3)	220 kV		
	(4)	132 kV		

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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	2022-23
18.	Cost of O&M spares Consumed (for Lines)			(Rs. In Lakhs)	333.83
	(1)	765 kV			
	(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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Name of Transmission Company:		Power Grid Corporation of India Limited	
Name of Transmission Region:		Southern Region	
Table-2- Station wise information (average for the year) for HVDC systems			
1) Gazuwaka/Vizag HVDC			
Sl. No.	Particulars	Units	2022-23
1	Total number of employees* engaged in sub-station O&M	No.	27
		Cost (Rs. In lakh)	1117.66
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)	6.12
4	Colony power consumption	(MU)	0.23
5	Outage duration	Pole-days	0.79
6	Load curtailment	MW – days	NA
7	Cost of initial spares	(Rs. in lakh)	
	a) Capitalized		0.00
	b) In Stock		Data seperately not available/ maintained
	c) Consumed		
8	Cost of O&M spares consumed	(Rs. in lakh)	193.27
2) Kolar HVDC			
Sl. No.	Particulars	Units	2022-23
1	Total number of employees* engaged in sub-station O&M	No.	17
		Cost (Rs. In lakh)	572.24
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)	6.82
4	Colony power consumption	(MU)	0.17
5	Outage duration	Pole-days	3.67
6	Load curtailment	MW – days	NA
7	Cost of initial spares	(Rs. in lakh)	
	a) Capitalized		0.00
	b) In Stock		Data seperately not available/ maintained□
	c) Consumed		
8	Cost of O&M spares consumed	(Rs. in lakh)	33.73

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Name of Transmission Company:		Power Grid Corporation of India Limited	
Name of Transmission Region:		Southern Region	
Table-2- Station wise information (average for the year) for HVDC systems			
3) Trichur HVDC			
Sl. No.	Particulars	Units	2022-23
1	Total number of employees* engaged in sub-station O&M	No.	29
		Cost (Rs. In lakh)	586.74
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)	5.82
4	Colony power consumption	(MU)	0.03
5	Outage duration	Pole-days	2.76
6	Load curtailment	MW – days	NA
7	Cost of initial spares	(Rs. in lakh)	0.00
	a) Capitalized		0.00
	b) In Stock		Data seperately not available/ maintained□
	c) Consumed		
8	Cost of O&M spares consumed	(Rs. in lakh)	1.38
4) Pugalur HVDC			
Sl. No.	Particulars	Units	2022-23
1	Total number of employees* engaged in sub-station O&M	No.	40
		Cost (Rs. In lakh)	916.08
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)	18.30
4	Colony power consumption	(MU)	0.16
5	Outage duration of Raigarh Pugalur HVDC system	Pole-days	3.31
	Outage duration of Pugalur Trichur HVDC system	Pole-days	2.76
6	Load curtailment	MW – days	NA
7	Cost of initial spares	(Rs. in lakh)	
	a) Capitalized		0.00
	b) In Stock		Data seperately not available/ maintained□
	c) Consumed		
8	Cost of O&M spares consumed	(Rs. in lakh)	0.09

Note: \*Executive &amp; 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:		Southern Region	
Table- 3 Region wise information (average for the year, but otherwise total for the region) for Communication system			
Sl. No.	Particulars	Units	2022-23
1.	Number of Wideband Communication Nodes in operation	(No.)	132.5
2.	Average length of OPGW links in operation	(in Kms.)	13337.54
3.	Number of Remote Terminal Units(RTUs)	(No.)	25
4.	Number of PLCC links	(No.)	0
5.	Number of OPGW links	(No.)	153
6.	Number of Auxiliary Power Supply(DC) Nodes	(No.)	37
7.	Number of employees engaged in O&M of RTU and Communication System	(No.)	
	1) Executive		4
	2) Non executive		0
	3) outsourced		4
8.	Average outage duration for	(hours/year)	
	a) Wideband Communication Links	Hours/Year	36.83
	b) RTUs		7.63
	c) PLCC		
	d) Auxiliary Power Supply System		
9.	Cost of Initial spares	( Rs.in lakh)	
	a) Capitalized		109.87
	b) In Stock		520.26
	c) Consumed		0
10.	Cost of O&M spares Consumed	( Rs.in lakh)	97.40
11.	Number of PMU installed in the region	(No.)	255
12.	O & M expenses of PMU incurred in the region	( Rs.in lakh)	192.54
(Note: separate note on utilization of PMU is to be given along with benefit availed during the year)			
1	Upon surrendering microwave links by Dec' 2011, the Microwave repeater at Kumbalgode is decommissioned. Hindupur repeater node, which was initially under Central sector, transferred to AP after upgradation during 2010 and thereby 02 wideband node are reduced		
2	The no. of RTUs in SR was 30 including 05 no. in CGS (Kaiga, Kalpakkam, Neyveli TS-II, Neyveli TS-I Exp. & NTPC, Ramagundam). SR-I - 08, SR-II - 17 & CGS - 05		
3	The 07 PLCC links are Neyveli-Sripermbadur, MAPS-SP Koil (2 no), Kayamkulam-Pallom, Kayamkulam-Edamon, Raichur-Munirabad & Raichur-Thallapally. Upon commissioning of Fibre links and shifting of data channels from PLCC to Fibre network, the PLCC links were gradually dispensed.		
4	Under Auxiliary supply nodes, one additional was procured & installed at Neyveli TS-I Exp for RTU & EPABX during 2010		

**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>Southern Region</b>
<b>Sr.No.</b>	<b>ITEM</b>	<b>2022-23</b>
<b>1.0</b>	<b>Repairs and Maintenance Expenses :</b>	
1)	Repairs of Plant & Machinery	6410.06
2)	Consumption of Stores (not capitalized)	3304.04
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	7433.76
6)	Expenses of Diesel Generating sets	205.52
7)	Provisions	0.00
8)	Prior Period Adjustment , if any	0.00
9)	Other expenses, if any (please provide details)	0.00
	<b>Sub-total (R&amp;M Expenses)</b>	<b>17353.38</b>
<b>2.0</b>	<b>Administrative &amp; General Expenses:</b>	
1)	Insurance	4971.20
2)	Security (General other than special)	5002.93
3)	Rent	450.11
4)	Electricity Charges	0.00
5)	Traveling and conveyance	2097.76
6)	Communication expenses	349.20
7)	Advertisement and publicity	244.14
8)	Foundation laying and inauguration	0.00
9)	Books Periodicals and Journals	56.16
10)	Research expenses	295.30
11)	Cost Audit Fees	29.43
12)	Horticulture Expenses	778.18
13)	Bandwidth charges dark fibre lease charges (Telecom) etc	1428.94
14)	Donations expenses	0.00
15)	Entertainment expenses	70.21
16)	Filing Fees	1840.33
17)	Legal Expenses	423.49
18)	Consultancy Expenses	2.25
19)	Professional charges (not covered under employee expenses)	318.77
20)	Printing and Stationary	76.17
21)	Hiring of Vehicle (excluding construction & Corporate	2134.90
22)	Training and Recruitment expenses	895.80
23)	Rates and taxes	841.29
24)	Rebate to Customers	4070.08
25)	Self Insurance Reserve	5587.72
26)	Provisions (Provide details)	0.00
27)	Prior Period Adjustment , if any	0.00
28)	Any other A&G expenses (Provide details)	25084.90
	<b>Sub-total(A&amp;G Expenses)</b>	<b>57049.27</b>
<b>3.0</b>	<b>Employee Expenses</b>	
1)	Salaries, wages and allowances	20187.30
2)	Staff welfare expenses	2189.90
	a) Contribution to Provident and other funds	5828.47
	b) Gratuity	52.24
	c) Pension	188.67
	d) Employee Medical Expenses	1141.06
	e) Liveries and Uniforms	672.12
	f) Safety & Appliances expenses	215.94
	g) Others	0.00

**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>Southern Region</b>
<b>Sr.No.</b>	<b>ITEM</b>	<b>2022-23</b>
3)	Productivity linked incentive	0.00
4)	Expenditure on VRS	0.00
5)	Ex-gratia	0.00
6)	Performance related pay (PRP)	6664.04
7)	Any other expenses	0.00
8)	Provisions (furnish details separately)	0.00
9)	Prior Period Adjustment , if any (furnish details	0.00
10)	VII Pay Arrears Paid Pertaining to period prior to 2017-18	0.00
<b>Sub-total( Employee Expenses)</b>		<b>37139.74</b>
4.0	Additional /Specific Security it any on the advise of Govt. Agency/ Statutory Authority/ any other reasons	0.00
5.0	Loss of store/Disposal/Write off	0.00
6.0	Provisions (other than above)	0.00
7.0	Prior Period Adjustment , if any (not covered above)	0.00
8.0	Corporate office expenses allocation	0.00
	(i) Transmission O&M Service	8775.56
	(ii) Projects under construction	0.00
	(iii) ULDC -Communication	0.00
	(iv) Consultancy services, if any	0.00
	(v) Other business (Telecom)	0.00
	(vi) Other business (if any)	0.00
9.0	Corporate Social Responsibility expenses	7589.07
10.0	- Others (Specify items not included above)	
<b>Sub Total (1 to 10)</b>		<b>127907.02</b>
11	Other Income, Revenue and Recoveries, if any	0.00
a)	Short term open access (other than transmission service	0.00
b)	System & Market operation charges	0.00
c)	Interest on differential tariff recovered	0.00
d)	Consultancy Services	0.00
e)	Interest against Loans and advances	0.00
f)	Interest from advanced to contractors/suppliers	0.00
g)	Income from lease of assets	0.00
h)	Disposal of scrap/stores (not covered under capitalized assets)	0.00
i)	Interest on Government securities	0.00
j)	Miscellaneous income from operations	0.00
k)	Revenue/ Recoveries, if any	0.00
12	Net Expenses	<b>127907.02</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 consmued 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)	Claimed Seperately
14	Total Expenses (12) + (13A)	<b>127907.02</b>

**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>Southern Region</b>
<b>Sr.No.</b>	<b>ITEM</b>	<b>2022-23</b>
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 , rate etc. Should be furnished year-wise.	
	IX. Details of capital spares consumed each year which were not claimed/allowed in the tariff should be furnished giving item wise unit price and quantity consumed.	
<b>Break Up of other A &amp; G Expenses (Indicated at 2 (28) above)</b>		
<b>Sr. No.</b>	<b>Item</b>	<b>2022-23</b>
1	Tax and Statutory Audit Fees	77.41
2	EDP Expenses	313.71
3	Miscellaneous Expenses	2071.58
4	Bad Debts Expenses	0.83
5	FERV Expense	22621.37
	Total	<b>25084.90</b>

<b>Name of Transmission Company:</b>	<b>Power Grid Corporation of India Limited</b>	
<b>Name of Transmission Region:</b>	<b>Southern Region</b>	
<b>Particulars</b>	<b>Year</b>	<b>Reasons for Variance</b>
Power Charges (electricity consumed for repairing activity)	2022-23	Increase as per actual usage and increase in unit prices and commissioning of new elements.
Expenses of Diesel Generating sets	2022-23	Increase due to servicing of OLTC diverter switches of HVDC (Pole-1, R-Ph & Pole-2 R-Ph) Converter
Insurance	2022-23	Increase in insurance cost of HVDC substations
Rent	2022-23	Increase in transmission assets
Travelling and conveyance	2022-23	Increase in Employee movement due to relaxation of Covid Norms
Advertisement and publicity	2022-23	Higher advertisement expenditure due to new projects ; BIMSTEC programme
Books Periodicals and Journals	2022-23	Nominal amount
Research expenses	2022-23	Increase in research work
Horticulture Expenses	2022-23	Expenditure as per labour rate revisions time to time, on the basis of terms and conditions of contract & requirement of no. of labours and horticulture activities
Legal Expenses	2022-23	Legal cost due to arbitration cases; and lawyer fees
Training and Recruitment expenses	2022-23	Increase in offline trainings due to relaxation of Covid Norms
Rates and taxes	2022-23	Increase in GST against common expenses allocated
Rebate to Customers	2022-23	Rebate allowed on timely basis by DICs as per actuals.
Any other A&G expenses (Provide details)		Increase due to increase in misc expenses and charging thereof

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

<b>Name of Transmission Company:</b>		<b>Power Grid Corporation of India Limited</b> <input type="checkbox"/>
<b>Name of Transmission Region:</b>		<b>Southern Region</b>
		<b>(Rs. In Lakhs)</b>
<b>Sr.No.</b>	<b>ITEM</b>	<b>2022-23</b>
<b>1</b>	<b>Repairs and Maintenance Expenses :</b>	
1)	Repairs of Plant & Machinery	335.70
2)	Consumption of Stores (not capitalized)	5.52
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 activity)	0.44
6)	Expenses of Diesel Generating sets	0.00
6)	Provisions	0.00
7)	Prior Period Adjustment , if any	0.00
8)	Other expenses, if any (please provide	0.00
	<b>Sub-total( R&amp;M Expenses)</b>	<b>341.66</b>
<b>2</b>	<b>Administrative &amp; General Expenses:</b>	
1)	Insurance	0
2)	Security (General other than special)	1.44
3)	Rent	0.32
4)	Electricity Charges	0.00
5)	Traveling and conveyance	15.07
6)	Communication expenses	1.97
7)	Advertisement and publicity	8.08
8)	Foundation laying and inauguration	0.00
9)	Books Periodicals and Journals	0.00
10)	Research expenses	0.00
11)	Cost Audit Fees	0.00
12)	Horticulture Expenses	0.00
13)	Bandwidth charges dark fibre lease charges (Telecom) etc	1.00
14)	Donations expenses	0.00
15)	Entertainment expenses	0.63
16)	Filing Fees	16.53
17)	Legal Expenses	0.00
18)	Consultancy Expenses	0.00
19)	Professional charges (not covered under employee expenses)	0.00
20)	Printing and Stationary	0.01
21)	Hiring of Vehicle (excluding construction & Corporate exp)	4.01
22)	Training and Recruitment expenses	1.55
23)	Rates and taxes	0.00
24)	Rebate to Customers	39.88

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

<b>Name of Transmission Company:</b>		<b>Power Grid Corporation of India Limited</b> <input type="checkbox"/>
<b>Name of Transmission Region:</b>		<b>Southern Region</b>
		<b>(Rs. In Lakhs)</b>
<b>Sr.No.</b>	<b>ITEM</b>	<b>2022-23</b>
25)	Self Insurance Reserve	54.94
26)	Provisions (Provide details)	0.00
27)	Prior Period Adjustment , if any	0.00
28)	Any other A&G expenses (Provide details)	26.72
	<b>Sub-total(A&amp;G Expenses)</b>	172.15
<b>3</b>	<b>Employee Expenses</b>	
1)	Salaries, wages and allowances	192.04
2)	Staff welfare expenses	6.16
	a) Contribution to Provident and other	45.11
	b) Gratuity	0.13
	c) Pension	1.07
	d) Employee Medical Expenses	-0.13
	e) Liveries and Uniforms	3.49
	f) Safety & Appliances expenses	0.38
	g) Others	0.00
3)	Productivity linked incentive	0.00
4)	Expenditure on VRS	0.00
5)	Ex-gratia	0.00
6)	Performance related pay (PRP)	50.76
7)	Any other expenses	0.00
8)	Provisions (furnish details separately)	0.00
9)	Prior Period Adjustment , if any (furnish details separately)	0.00
10)	VII Pay Arrears Paid Pertaining to period prior to 2017-18	0.00
	<b>Sub-Total( Employee Expenses)</b>	<b>299.02</b>
<b>4</b>	<b>Additional /Specific Security it any on the advise of Govt. Agency/ Statutory Authority/ any other reasons</b>	<b>0.00</b>
<b>5</b>	<b>Loss of store/Disposal/Write off</b>	<b>0.00</b>
<b>6</b>	<b>Provisions (other than above)</b>	<b>0.00</b>
<b>7</b>	<b>Prior Period Adjustment , if any (not covered above)</b>	<b>0.00</b>
<b>8</b>	<b>Corporate office expenses allocation</b>	<b>0.00</b>
	(i) Transmission O&M Service	0.00
	(ii) Projects under construction	0.00
	(iii) ULDC -Communication	29.73
	(iv) Consultancy services, if any	0.00
	(v) Other business (Telecom)	0.00
	(vi) Other business (if any)	0.00

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

<b>Name of Transmission Company:</b>		<b>Power Grid Corporation of India Limited</b> <input type="checkbox"/>
<b>Name of Transmission Region:</b>		<b>Southern Region</b>
		<b>(Rs. In Lakhs)</b>
<b>Sr.No.</b>	<b>ITEM</b>	<b>2022-23</b>
<b>9</b>	Corporate Social Responsibility expenses	0.00
<b>10</b>	- Others (Specify items not included above)	0.00
	<b>Sub Total (1 to 10)</b>	<b>842.55</b>
<b>11</b>	Other Income, Revenue and Recoveries, if	<b>0.00</b>
a)	Short term open access (other than transmission service charges)	0.00
b)	System & Market operation charges	0.00
c)	Interest on differential tariff recovered	0.00
d)	Consultancy Services	0.00
e)	Interest against Loans and advances	0.00
f)	Interest from advanced to contractors/suppliers	0.00
g)	Income from lease of assets	0.00
h)	Disposal of scrap/stores (not covered under capitalized assets)	0.00
i)	Interest on Government securities	0.00
j)	Miscellaneous income from operations	0.00
k)	Revenue/ Recoveries, if any	0.00
<b>12</b>	<b>Net Expenses</b>	<b>842.55</b>
<b>13</b>	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
<b>13A</b>	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)	Claimed Separately
<b>14</b>	<b>Total Expenses (12) + (13A)</b>	<b>842.55</b>



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

<b>Name of Transmission Company:</b>		<b>Power Grid Corporation of India Limited</b> <input type="checkbox"/>
<b>Name of Transmission Region:</b>		<b>Southern Region</b>
		<b>(Rs. In Lakhs)</b>
<b>Sr.No.</b>	<b>ITEM</b>	<b>2022-23</b>
<b>Notes:</b>		
	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, rate etc. should be furnished year-wise for Thermal Power Stations	
	IX. Details of capital spares consumed each year which were not claimed/allowed in the tariff should be furnished giving item wise unit price and quantity consumed.	
<b>Break up of other A&amp;G Expenses (indicated at 2(28) above)</b>		
<b>Sr. No.</b>	<b>Item</b>	<b>2022-23</b>
1	Tax and Statutory Audit Fees	0
2	EDP Expenses	1.19
3	Miscellaneous Expenses	0.01
4	Bad Debts Expenses	0
5	FERV Expense	25.52
	<b>Total</b>	<b>26.72</b>

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

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

**Table-1- Length (km) of Transmission Lines in Commercial Operation**

<b>Status as on</b>			<b>1.4.2023</b>
1	HVDC		
	a) S/C		65.11
	b) D/C		3299.48
2	765 kV		
	a) S/C		446.57
	b) D/C		1286.95
3	765 kV Charged at 400 KV		
	a) S/C		245.00
	b) D/C		558.64
4	400 kV		
	a) S/C		5422.90
	b) D/C		8626.81
	c) Multi		39.69
5	400 kV Charged at 220 KV		
	a) D/c on M/C		79.29
	b) D/C		2.61
6	220 kV		
	a) S/C		115.73
	b) D/C		442.76
7	Up to 132 kV		
	a) S/C		
	b) D/C		
			<b>20631.54</b>

**Table-2-Ckt km by Conductor Configuration**

		<b>Type of Conductor</b>	
			<b>1.4.2023</b>
1	Hexagonal	Zebra D/C	2953.49
		Lapwing D/C	3806.30
		320kV DC Cable	54.34
2	Quad	Bersimis D/C	3578.13
		Bersimis S/C	691.57
		Moose D/C	6373.92
		Moose S/C	65.11
3	Twin	Moose S/C	5227.90
		Moose D/C	10280.44
		Moose D/C on M/C	158.58
		Moose M/C	140.76
		AAAC D/C	658.62
		AAAC S/C	195.00
		AAAC M/C	18.00

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

<b>Name of Transmission Company:</b>			<b>Power Grid Corporation of India Limited</b>
<b>Name of Transmission Region:</b>			<b>Southern Region</b>
4	Single	AAAC Zebra D/C	445.74
		ACSR Zebra D/C	283.77
		ACSR Zebra S/C	52.50
		Kundah S/C	63.23
	<b>Grand Total</b>		<b>35047.43</b>

**Table-3- Number of AC Substations in Commercial Operation**

<b>Status as on</b>			<b>1.4.2023</b>
1	765 kV		9
2	400 kV		44
3	220 kV		0
4	Up to 132 kV		0

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

<b>Status as on</b>			<b>1.4.2023</b>
1	HVDC		144
2	765 kV		76
3	400 kV		565
4	220 kV		201
5	Up to 132 kV		0

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

<b>Status as on</b>			<b>2022-23</b>
1	Substation O&M		5249.35
2	Lines O&M		1161.64
3	Security		4874.21
4	Others - Hiring of Vehicles		6782.92
	<b>Grand Total</b>		<b>18068.12</b>

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

<b>Status as on</b>			<b>2022-23</b>
	O&M		116319.80
	<b>Total</b>		<b>116319.80</b>

<b>Name of Transmission Company:</b>	<b>Power Grid Corporation of India Limited</b>
<b>Name of Transmission Region:</b>	<b>Southern Region</b>
<b>Station wise O&amp;M Expenditure at HVDC Station (Rs. lakh)</b>	
<b>Particulars</b>	<b>2022-23</b>
Name of HVDC Station:	<b>GAZUWAKA</b>
i) No of Employees	27
ii) A&G Expenses	541.84
iii) Repairs & Maintenance	757.72
Iv) Employee Expenses*	1117.66
v) Corporate expenses allocated*	Included in Annexure VI-BI
vi) Other income	0.00
vii) Any other income	0.00
<b>Total Expenditure</b>	<b>2417.22</b>
<b>Particulars</b>	<b>2022-23</b>
Name of HVDC Station:	<b>KOLAR</b>
i) No of Employees	17
ii) A&G Expenses	998.09
iii) Repairs & Maintenance	701.40
Iv) Employee Expenses*	572.24
v) Corporate expenses allocated*	Included in Annexure VI-BI
vi) Other income	0.00
vii) Any other income	0.00
<b>Total Expenditure</b>	<b>2271.74</b>
<b>Particulars</b>	<b>2022-23</b>
Name of HVDC Station:	<b>PUGALUR</b>
i) No of Employees	40
ii) A&G Expenses	2311.06
iii) Repairs & Maintenance	1713.97
Iv) Employee Expenses*	916.08
v) Corporate expenses allocated*	Included in Annexure VI-BI
vi) Other income	0.00
vii) Any other income	0.00
<b>Total Expenditure</b>	<b>4941.11</b>

**Annexure-X**

<b>Name of Transmission Company:</b>	<b>Power Grid Corporation of India Limited</b>
<b>Name of Transmission Region:</b>	<b>Southern Region</b>
<b>Station wise O&amp;M Expenditure at HVDC Station (Rs. lakh)</b>	
<b>Particulars</b>	<b>2022-23</b>
Name of HVDC Station:	TRICHUR
i) No of Employees	29
ii) A&G Expenses	758.25
iii) Repairs & Maintenance	612.15
Iv) Employee Expenses*	586.74
v) Corporate expenses allocated*	Included in Annexure VI-BI
vi) Other income	0.00
vii) Any other income	0.00
<b>Total Expenditure</b>	<b>1957.14</b>

i) No of Employees	113.00
ii) A&G Expenses	4609.25
iii) Repairs & Maintenance	3785.24
Iv) Employee Expenses*	3192.72
v) Corporate expenses allocated*	
vi) Other income	0.00
vii) Any other income	0.00

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

<b>Name of Transmission Company:</b>	<b>Power Grid Corporation of India Limited</b>
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<b>Name of Transmission Region:</b>	<b>Southern Region</b>
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**Table-1- Details of Communication system in Commercial Operation**

<b>Particulars</b>	<b>01.04.2023</b>
OPGW Communication Links in operation(in	14696.52
Number of wideband Communication nodes in	144
Number of RTUs in operation	25
Number of PLCC links in operation	0
Number of PMUs in Operation	255
Number of Auxiliary Power Supply Nodes in	40

**Table-2- Cost of Services**

<b>Particulars</b>	<b>2022-23</b>
Communication system O&M	148.53
PLCC O&M	0
RTU O&M	0
Auxiliary Power Supply O&M	0
Hiring charges of Bandwidth	0
Security	52.66
Others	265.75
<b>Total</b>	<b>466.94</b>

Auxiliary Consumption separately for 132kV, 220kV, 400kV &amp; 765kV AC and HVDC Substation Separately

Name of Transmission Company:			Power Grid Corporation of India Limited	
Name of Transmission Region:			Southern Region	
Sr. No.	Voltage	Name of Sub-Station	2022-23	
			MU	%
1.	400	Hyderabad	2.184	-
2	400	N'sagar	0.608	-
3.	765	Kadapa	1.166	-
4	400	Munirabad	0.404	-
5.	400	Gooty	0.578	-
6	400	Khammam	0.512	-
7.	400	Vijayawada	1.041	-
8	400	Nellore	0.984	-
9.	HVDC	Vizag	6.123	-
10	765	Warangal	0.536	-
11.	765	Nellore PS	0.887	-
12	765	Raichur	0.613	-
13.	765	Kurnool	0.871	-
14	765	Vemagiri	0.519	-
15.	765	Srikakulam	0.657	-
16	765	Maheshwaram	0.570	-
17.	765	Nizamabad	0.823	-
18	765	Npkunta	1.360	-
19.	400	Vizag	0.570	-
20	400	Somanahalli	0.877	-
21.	400	Salem	0.463	-
22	400	Udumalpet	2.290	-
23.	400	Thrissur	0.393	-
24	400	Sriperumpadur	0.896	-
25.	400	Madurai	0.680	-
26	400	Trichy	1.920	-
27.	400	Kolar	0.599	-
28	400	Hosur	0.454	-
29.	400	Mysore	0.546	-
30	400	Hiriyur	0.510	-
31.	400	Narendra	0.480	-
32	400	Trivandrum	0.631	-
33.	400	Kalivanthapattu	0.529	-
34	400	Tirunelveli	0.507	-
35.	400	Karur	0.516	-
36	400	Karaikudi	0.606	-
37.	400	Hassan	0.337	-
38	400	Arasur	0.516	-
39.	400	Pondichery	0.363	-
40	400	Kochi	0.415	-

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:			Southern Region	
Sr. No.	Voltage	Name of Sub-Station	2022-23	
			MU	%
41.	400	Palakkad	0.326	-
42.	400	Bidadi	0.299	-
43.	765	Thiruvalam	0.866	-
44.	400	Nagapattinam	0.338	-
45.	400	KUDGI	0.305	-
46.	400	Tumkur	0.694	-
47.	400	Dharmapuri	0.403	-
48.	400	Tuticorin PS	0.548	-
49.	400	Kozhikode	0.547	-
50.	400	Pavagada	0.773	-
51.	400	Tuticorin GIS	0.544	-
52.	400	Yelahanka	0.618	-
53.	HVDC	HVDC Pugalur	18.299	-
54.	400	Pugalur	1.591	-
55.	HVDC	HVDC Trichur	5.824	-
56.	400	Trichur	0.506	-
57.	HVDC	Kolar HVDC	6.820	-



**Annexure-XVI**

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

<b>Name of Transmission Company:</b>			<b>Power Grid Corporation of India Limited</b>				
<b>Name of Transmission Region:</b>			<b>Southern Region</b>				
<b>Sl. No.</b>	<b>Name of Scheme</b>	<b>Sub-station (S/s)/ Transmission Line (TL)</b>	<b>MVA/ Line Length (km)</b>	<b>Compensation (Forest, crop, Tree, PTCC)</b>	<b>Employee Expenses</b>	<b>Administrative &amp; General Expenses</b>	<b>Any other expenses</b>
1.	Augmentation at Hiriya & Kochi SS				109.43	7.07	
2.	Augmentation- ICT's-Palakka & Kolar				0.00	0.29	
3.	Bay at GIS Tuticorin-II				35.94	3.88	
4.	Faulty Work @ Thiruvallam & Kolar				3.45	0.10	
5.	ICT @ Tirunelveli WEZ				122.33	13.30	
6.	NEW-Kudiga Bay Ex				4.50	0.05	
7.	Sys.Strength NP Kunta-Kolar S/C				64.96	8.20	
8.	ULDC-Reliable Comm System				53.18	1.24	
9.	Transmission System for Ultra Mega Solar Park in Anantapur District Andhra Pradesh -Part B (Phase-II)	TL			145.44	61.93	
10.	Transmission System for Ultra Mega Solar Park in Anantapur District Andhra Pradesh -Part B (Phase-II)				8.41	2.86	
11.	Transmission System for Ultra Mega Solar Park in Anantapur District Andhra Pradesh -Part B (Phase-II)	S/s			38.49	14.66	
12.	Substation Works associated with Additional Inter-Regional AC link for Import of Power into Southern Region i.e., Warora Warangal and CPETA-Hyderabad-Kurnool 765 KV Link	S/s			146.92	160.16	
13.	SS82-Regional Strengthening Scheme to mitigate the over load of 40kV Npkunta-Kolar Line	S/s & TL			0.00	647.44	
14.	RELIABLE COMMUNICATION	S/s & TL			4.51	163.41	
15.	RELIABLE COMMUNICATION	S/s & TL			5.63	203.92	
16.	RELIABLE COMMUNICATION	S/s & TL			0.51	18.66	-
17.	RELIABLE COMMUNICATION	S/s & TL			0.47	16.96	-
18.	RELIABLE COMMUNICATION	S/s & TL				17.52	-
19.	RELIABLE COMMUNICATION	S/s & TL			0.75	27.07	-

## Details of Capital Cost of Transmission Line

Name of Transmission Company:			Power Grid Corporation of India Limited			
Name of Transmission Region:			Southern Region			
SI No.	Year	Configuration	Length (km)	Total Cost	Cost/km	Cost/ckt-km
1	2022-23	HVDC				
		a) S/C	0.00	Data seperately not available/ maintained		
		b) D/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			
		b) D/C	0.00			
		400 kV				
		a) S/C	0.00			
		b) D/C	0.00			
		c) M/C	0.00			
		400 kV Charged at 220 KV				
		a) D/c on M/C	0.00			
		b) 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			

## Details of Capital Cost of Transmission Line

Name of Transmission Company:				Power Grid Corporation of India Limited			
Name of Transmission Region:				Southern Region			
SI No.	Year	Configuration	MVA Capacity	No. of Bays	Total Cost	Cost/MVA	Cost/bays
1	2022-23	765kV		0	Data seperately not available/ maintained		
		400kV	500	2			
		220kV		2			
		132kV					
		HVDC		0			