

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

Name of Transmission Company:	Power Grid Corporation of India Limited
Name of Transmission Region:	Eastern 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		5
	(2) 400 kV		29
	(3) 220 kV		7
	(4) 132 kV		1
	(Nomenclature are as per highest available voltage level)		
2	Transformation capacity of AC Substation in operation	MVA*	
	(1) 765 kV		22500
	(2) 400 kV		28957.50
	(3) 220 kV		3000
	(4) 132 kV		120
	(Nomenclature are as per highest available voltage level)		
3	Number of bays in each AC Substation in operation	No.	
	(1) 765 kV		71
	(2) 400 kV		489.5
	(3) 220 kV		185
	(4) 132 kV		61
	(Nomenclature are as per highest available voltage level)		
4	Ckt-km of AC lines in operation	No.	
	(1) 765 kV		2379.17
	(2) 765 kV charged at 400 KV		0
	(3) 400 kV		18338.41
	(4) 400 kV Charged at 220 KV		0
	(5) 220 kV		1680.93
	(6) 132 kV		461.50
	(Nomenclature are as per highest available voltage level)		
5	Total number of employees* engaged in O&M of Sub-station	No	
	(1) 765 kV		130
	(2) 400 kV		481
	(3) 220 kV		81
	(4) 132 kV	6	
		Cost (Rs. Lakhs)	
	(1) 765 kV		3829.54
	(2) 400 kV		14169.30
	(3) 220 kV		2386.10
	(4) 132 kV	176.75	
	(Nomenclature are as per highest available voltage level)		
6	Total number of employees* engaged in O&M of Transmission Lines	No	
	(1) 765 kV		87
	(2) 400 kV		269
	(3) 220 kV		47

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Sl. No.	Particulars		Units	2022-23	
	(4)	132 kV		1	
	(1)	765 kV	Cost (Rs. Lakhs)	2562.85	
	(2)	400 kV		7924.20	
	(3)	220 kV		1384.53	
	(4)	132 kV		29.46	
	(Nomenclature are as per highest available voltage level)				
7	Auxiliary Power Consumption (excluding colony power)		MU		
	(1)	765 kV		6.74	
	(2)	400 kV		22.86	
	(3)	220 kV		2.11	
	(4)	132 kV		0.08	
	(Nomenclature are as per highest available voltage level)				
8	Colony Power Consumption		MU		
	(1)	765 kV		0.622	
	(2)	400 kV		2.822	
	(3)	220 kV		0.780	
	(4)	132 kV		0.064	
	(Nomenclature are as per highest available voltage level)				
9	Spare ICTs/Reactors		No.		
	(1)	765 kV ICT		0	
	(2)	400 kV ICT		0	
	(2)	400 kV Reactor		0	
	(3)	220 kV ICT		0	
	(4)	132 kV ICT	0		
	(1)	765 kV ICT	Cost (Rs. Lakhs)	0	
	(2)	400 kV ICT		0	
	(2)	400 kV Reactor		0	
	(3)	220 kV ICT		0	
	(4)	132 kV ICT		0	
	(Nomenclature are as per highest available voltage level)				
10	Spare Smoothing Reactors		No.	NA	
	(1)	765 kV			
	(2)	400 kV			
	(3)	220 kV			
	(4)	132 kV			
	(1)	765 kV	Cost (Rs. Lakhs)		
	(2)	400 kV			
	(3)	220 kV			
	(4)	132 kV			
	(Nomenclature are as per highest available voltage level)				
11	ICTs				

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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
	(1)	765 kV	No.	15
	(2)	400 kV		79
	(3)	220 kV		21
	(4)	132 kV		4
	(1)	765 kV	Cost (Rs. Lakhs)	Data separately not available/maintained
	(2)	400 kV		
	(3)	220 kV		
	(4)	132 kV		
(Nomenclature are as per highest available voltage level)				
12	Reactors		No.	29
	(1)	765 kV		152.5
	(2)	400 kV		0
	(3)	220 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	STATCOM		No.	0
			Cost (Rs. Lakhs)	0
14	Average outage duration for		Hours/ year	
	A.	Transmission Lines		
	(1)	765 kV		8.39
	(2)	400 kV		5.44
	(3)	220 kV		7.67
	(4)	132 kV		1.88
	B.	Transformers		
	(1)	765 kV		8.85
	(2)	400 kV		11.66
	(3)	220 kV		9.03
	(4)	132 kV		9.53
	C.	Reactors		
	(1)	765 kV		3.95
	(2)	400 kV		3.04
(3)	220 kV	NA		
(4)	132 kV	NA		
(Nomenclature are as per highest available voltage level)				
15	Cost of Initial spares (for S/S)			
	A.	Capitalized		
	(1)	765 kV		319.97
	(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
	B.	In Stock	(Rs. in Lakhs)	Data separately not available/maintained
	(1)	765 kV		
	(2)	400 kV		
	(3)	220 kV		
	(4)	132 kV		
	C.	Cost of initial spares consumed		
	(1)	765 kV		
	(2)	400 kV		
	(3)	220 kV		
	(4)	132 kV		
16	Cost of O&M spares Consumed (for S/s)			
	(1)	765 kV		

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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
	(2) 400 kV	(Rs. In Lakhs)	1510
	(3) 220 kV		
	(4) 132 kV		
	(Nomenclature are as per highest available voltage level)		
17	Cost of Initial spares (for Lines)	(Rs. In Lakhs)	105.03
	A. Capitalized		
	(1) 765 kV		
	(2) 400 kV		
	(3) 220 kV		
	(4) 132 kV		
	B. In Stock		
	(1) 765 kV		
	(2) 400 kV		
	(3) 220 kV		
	(4) 132 kV		
	C. Cost of initial spares consumed		
	(1) 765 kV		
	(2) 400 kV		
	(3) 220 kV		
	(4) 132 kV		
18	Cost of O&M spares Consumed (for Lines)	(Rs. In Lakhs)	1331
	(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~~

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

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

Table-2 - Station wise information (average for the year) for HVDC systems

i) Sasaram

Sl. No.	Particulars	Units	2022-23
1	Total number of employees* engaged in sub-station O&M	No.	33
		Cost (Rs. in lakh)	261.83
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 line (AC & HVDC)
		Cost (Rs. in lakh)	
3	Auxiliary power consumption (excluding colony power)	(MU)	4.48
4	Colony power consumption	(MU)	0.22
5	Outage duration	Pole-days	0.94
6	Load curtailment	MW - days	
7	Cost of initial spares	(Rs. in lakh)	
	a) Capitalized		
	b) In Stock		
	c) Consumed		
8	Cost of O&M spares consumed	(Rs. in lakh)	114.29

ii) Alipurduar

Sl. No.	Particulars	Units	2022-23
1	Total number of employees* engaged in sub-station O&M	No.	15
		Cost (Rs. in lakh)	333.67
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 line (AC & HVDC)
		Cost (Rs. in lakh)	
3	Auxiliary power consumption (excluding colony power)	(MU)	4.72
4	Colony power consumption	(MU)	0.23
5	Outage duration	Pole-days	1.88
6	Load curtailment	MW - days	
7	Cost of initial spares	(Rs. in lakh)	
	a) Capitalized		
	b) In Stock		
	c) Consumed		
8	Cost of O&M spares consumed	(Rs. in lakh)	99.43

iii) Talcher

Sl. No.	Particulars	Units	2022-23
1	Total number of employees* engaged in sub-station O&M	No.	22
		Cost (Rs. in lakh)	649.52
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

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

Name of Transmission Company:		Power Grid Corporation of India Limited	
Name of Transmission Region:		Eastern Region	
Table-2 - Station wise information (average for the year) for HVDC systems			
		Cost (Rs. in lakh)	set of employees are maintaining both type of line (AC & HVDC)
3	Auxiliary power consumption (excluding colony power)	(MU)	7.75
4	Colony power consumption	(MU)	Employees residing in NTPC Colony
5	Outage duration	Pole-days	3.67
6	Load curtailment	MW - days	
7	Cost of initial spares	(Rs. in lakh)	
	a) Capitalized		
	b) In Stock		
	c) Consumed		
8	Cost of O&M spares consumed	(Rs. in lakh)	87.86

Note: *Executive & non-executive/contract labour

**Pro-forma for furnishing Actual annual performance/operational data
for the communication system for FY 2022-23**

Name of Transmission Company:		Power Grid Corporation of India Limited	
Name of Transmission Region:		Eastern Region	
<u>Table-3 - Region wise information (average for the year, but otherwise total for the region) for Communication system</u>			
Sl. No.	Particulars	Units	2022-23
1	Number of Communication Nodes in operation	(No.)	52
2	Average length of OPGW links in operation	(in Kms.)	7082
3	Number of Remote Terminal Units(RTUs)	(No.)	14
4	Number of PLCC links	(No.)	0
5	Number of OPGW links	(No.)	64
6	Number of Auxiliary Power Supply(DC) Nodes	(No.)	34
7	Number of employees engaged in O&M of RTU and Communication System	(No.)	
	1) Executive		4
	2) Non executive		0
	3) Outsourced		0
8	Average outage duration for	(hours/ year)	
	a) Wideband Communication Links		185
	b) RTUs		98.57
	c) PLCC		0
	d) Auxiliary Power Supply System		54
9	Cost of Initial spare	(INR in lakh)	
	a) Capitalized		0
	b) In Stock		21.34
	c) Consumed		26.87
10	Cost of O&M spares	(INR in lakh)	78.65
a) Consumed			
11	Number of PMU installed in the region	(No.)	300
12	O & M expenses of PMU incurred in the region	(INR in lakh)	72.80

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

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

Name of Transmission Company:		Power Grid Corporation of India Limited
Name of Transmission Region:		Eastern Region
(Rs. In Lakhs)		
Sr.No.	ITEM	2022-23
1.0	Repairs and Maintenance Expenses :	
1)	Repairs of Plant & Machinery	8692.23
2)	Consumption of Stores (not capitalized)	5870.51
3)	Consumption of Spares (not capitalized)	-
4)	Patrolling expenses	-
5)	Power Charges (electricity consumed for repairing activity)	4392.03
6)	Expenses of Diesel Generating sets	108.84
7)	Provisions	-
8)	Prior Period Adjustment , if any	-
9)	Other expenses, if any (please provide details)	-
	Sub-total (R&M Expenses)	19063.61
2.0	Administrative & General Expenses:	
1)	Insurance	1486.43
2)	Security (General other than special)	5558.74
3)	Rent	924.99
4)	Electricity Charges	-
5)	Traveling and conveyance	1889.63
6)	Communication expenses	312.27
7)	Advertisement and publicity	187.82
8)	Foundation laying and inauguration	0.00
9)	Books Periodicals and Journals	37.16
10)	Research expenses	203.92
11)	Cost Audit Fees	21.09
12)	Horticulture Expenses	556.64
13)	Bandwidth charges dark fibre lease charges (Telecom) etc	937.79
14)	Donations expenses	0.00
15)	Entertainment expenses	63.74
16)	Filing Fees	1226.15
17)	Legal Expenses	299.45
18)	Consultancy Expenses	8.03
19)	Professional charges (not covered under employee expenses)	287.73
20)	Printing and Stationary	64.28
21)	Hiring of Vehicle (excluding construction & Corporate exp)	2315.46
22)	Training and Recruitment expenses	760.13
23)	Rates and taxes	596.04
24)	Rebate to Customers	3101.75
25)	Self Insurance Reserve	4771.41
26)	Provisions (Provide details)	0.00
27)	Prior Period Adjustment , if any	0.00
28)	Any other A&G expenses (Provide details)	1759.20
	Sub-total(A&G Expenses)	27369.86
3.0	Employee Expenses	
1)	Salaries, wages and allowances	18612.60
2)	Staff welfare expenses	
	a) Contribution to Provident and other funds	4810.73
	b) Gratuity	53.05
	c) Pension	171.15
	d) Employee Medical Expenses	1521.25
	e) Liveries and Uniforms	599.54

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

Name of Transmission Company:		Power Grid Corporation of India Limited
Name of Transmission Region:		Eastern Region
	f) Safety & Appliances expenses	127.75
	g) Others	2412.72
3)	Productivity linked incentive	-
4)	Expenditure on VRS	-
5)	Ex-gratia	-
6)	Performance related pay (PRP)	5398.94
7)	Any other expenses	-
8)	Provisions (furnish details separately)	-
9)	Prior Period Adjustment , if any (furnish details separately)	-
10)	VII Pay Arrears Paid Pertaining to period prior to 2017-18	-
	Sub-total(Employee Expenses)	33707.73
4.0	Additional /Specific Security if any on the advise of Govt. Agency/ Statutory Authority/ any other reasons	-
5.0	Loss of store/Disposal/Write off	-
6.0	Provisions (other than above)	-
7.0	Prior Period Adjustment , if any (not covered above)	-
8.0	Corporate office expenses allocation	-
	(i) Transmission O&M Service	5935.20
	(ii) Projects under construction	-
	(iii) ULDC -Communication	-
	(iv) Consultancy services, if any	-
	(v) Other business (Telecom)	-
	(vi) Other business (if any)	-
9.0	Corporate Social Responsibility expenses	7417.91
10.0	- Others (Specify items not included above)	-
	Sub Total (1 to 10)	93494.30
11	Other Income, Revenue and Recoveries, if any	-
a)	Short term open access (other than transmission service)	-
b)	System & Market operation charges	-
c)	Interest on differential tariff recovered	-
d)	Consultancy Services	-
e)	Interest against Loans and advances	-
f)	Interest from advanced to contractors/suppliers	-
g)	Income from lease of assets	-
h)	Disposal of scrap/stores (not covered under capitalized assets)	-
i)	Interest on Government securities	-
j)	Miscellaneous income from operations	-
k)	Revenue/ Recoveries, if any	-
12	Net Expenses	93494.30
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 been consumed as O&M Spares
13A	Expenses against Capital expenditure incurred for Operation and Maintenance of Transmission System (not included in Capital Cost/Repair & Maintenance expenditure indicated 1.0(1) above)	-
14	Total Expenses (12) + (13A)	93494.30
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		

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

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

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

Sr. No.	Item	2022-23
1	Tax and Statutory Audit Fees	66.92
2	EDP Expenses	251.54
3	Miscellaneous Expenses	1504.48
4	Bad Debts Expenses	-
5	FERV Expense	-63.74
	Total	1759.20

Name of Transmission Company:	Power Grid Corporation of India Limited	
Name of Transmission Region:	Eastern Region	
Particulars	Year	Reasons of Variance
Traveling 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
Books Periodicals and Journals	2022-23	Nominal amount
Research expenses	2022-23	Increase in research work
Legal Expenses	2022-23	Legal cost due to arbitration cases
Hiring of Vehicle (excluding construction & Corporate exp)	2022-23	Increase due to Fuel Cost & labour rate revisions time to time, etc.
Training and Recruitment expenses	2022-23	Increase in offline trainings due to relaxation of Covid Norms
Rebate to Customers	2022-23	Rebate allowed on timely basis by DICs as per actuals.
Any other A&G expenses (Provide details)	2022-23	Increase due to increase in misc expenses and charging thereof
Salary, wages and allowances	2022-23	Increase due to new recruitments/ inter regional transfer

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

Name of Transmission Company:		Power Grid Corporation of India Limited
Name of Transmission Region:		Eastern Region
(Rs. In Lakhs)		
Sr.No.	ITEM	2022-23
1.0	Repairs and Maintenance Expenses :	
1)	Repairs of Plant & Machinery	292.38
2)	Consumption of Stores (not capitalized)	77.60
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)	-
6)	Expenses of Diesel Generating sets	-
7)	Provisions	-
8)	Prior Period Adjustment , if any	-
9)	Other expenses, if any (please provide details)	-
	Sub-total (R&M Expenses)	369.98
2.0	Administrative & General Expenses:	
1)	Insurance	-
2)	Security (General other than special)	-
3)	Rent	0.02
4)	Electricity Charges	3.16
5)	Traveling and conveyance	8.39
6)	Communication expenses	1.11
7)	Advertisement and publicity	2.49
8)	Foundation laying and inauguration	-
9)	Books Periodicals and Journals	-
10)	Research expenses	-
11)	Cost Audit Fees	-
12)	Horticulture Expenses	0.06
13)	Bandwidth charges dark fibre lease charges (Telecom) etc	44.28
14)	Donations expenses	-
15)	Entertainment expenses	-0.05
16)	Filing Fees	14.76
17)	Legal Expenses	-
18)	Consultancy Expenses	-
19)	Professional charges (not covered under employee expenses)	-
20)	Printing and Stationary	0.10
21)	Hiring of Vehicle (excluding construction & Corporate exp)	8.29
22)	Training and Recruitment expenses	0.90
23)	Rates and taxes	-
24)	Rebate to Customers	19.26
25)	Self Insurance Reserve	-
26)	Provisions (Provide details)	-
27)	Prior Period Adjustment , if any	-
28)	Any other A&G expenses (Provide details)	1.44
	Sub-total(A&G Expenses)	104.19
3.0	Employee Expenses	
1)	Salaries, wages and allowances	131.63

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

2)	Staff welfare expenses	8.02
	a) Contribution to Provident and other funds	15.45
	b) Gratuity	0.16
	c) Pension	0.84
	d) Employee Medical Expenses	-0.98
	e) Liveries and Uniforms	3.74
	f) Safety & Appliances expenses	-
	g) Others	-
3)	Productivity linked incentive	-
4)	Expenditure on VRS	-
5)	Ex-gratia	-
6)	Performance related pay (PRP)	33.89
7)	Any other expenses	-
8)	Provisions (furnish details separately)	-
9)	Prior Period Adjustment , if any (furnish details separately)	-
10)	VII Pay Arrears Paid Pertaining to period prior to 2017-18	-
	Sub-total(Employee Expenses)	192.75
4.0	Additional /Specific Security if any on the advise of Govt. Agency/ Statutory Authority/ any other reasons	-
5.0	Loss of store/Disposal/Write off	-
6.0	Provisions (other than above)	-
7.0	Prior Period Adjustment , if any (not covered above)	-
8.0	Corporate office expenses allocation	-
	(i) Transmission O&M Service	-
	(ii) Projects under construction	-
	(iii) ULDC -Communication	-
	(iv) Consultancy services, if any	-
	(v) Other business (Telecom)	-
	(vi) Other business (if any)	-
9.0	Corporate Social Responsibility expenses	-
10.0	- Others (Specify items not included above)	-
	Sub Total (1 to 10)	666.92
11	Other Income, Revenue and Recoveries, if any	-
a)	Short term open access (other than transmission service)	-
b)	System & Market operation charges	-
c)	Interest on differential tariff recovered	-
d)	Consultancy Services	-
e)	Interest against Loans and advances	-
f)	Interest from advanced to contractors/suppliers	-
g)	Income from lease of assets	-
h)	Disposal of scrap/stores (not covered under capitalized assets)	-
i)	Interest on Government securities	-
j)	Miscellaneous income from operations	-
k)	Revenue/ Recoveries, if any	-
12	Net Expenses	666.92
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 been consumed as O&M

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

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)	666.92

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.

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

Sr. No.	Item	2022-23
1	Tax and Statutory Audit Fees	0
2	EDP Expenses	0
3	Miscellaneous Expenses	1.44
4	Bad Debts Expenses	0
5	FERV Expense	0
	Total	1.44

Additional Region-wise Information required from Transmission Licensees

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

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

Status as on

			1.4.2023
1	HVDC		
	a) S/C		0.00
2	765 kV		
	a) S/C		1195.97
	b) D/C		591.60
3	765 kV Charged at 400 KV		
	a) S/C		0.00
4	400 kV		
	a) S/C		2139.10
	b) D/C		7954.57
	a) D/C on M/C		5.80
	b) Multi Circuit		79.39
5	400 kV Charged at 220 KV		
	a) D/C		0.00
6	220 kV		
	a) S/C		38.00
	b) D/C		821.46
7	Up to 132 kV		
	a) S/C		151.00
	b) D/C		155.25

Table-2-Ckt km by Conductor Configuration

		Type of Conductor	1.4.2023
1	Hexa	Zebra D/C	631.20
2	Quad	Bersimis S/C	1195.97
		Bersimis D/C	552.00
		Moose D/C	4563.99
		Moose M/C	181.56
		Moose D/C on M/C	7.49
3	Triple	Snowbird D/C	1213.54
4	Twin	Moose D/C	9731.82
		Moose S/C	2138.08
		Moose M/C	136.02
		Moose D/C on M/C	4.10
		Invar D/C	52.59

Additional Region-wise Information required from Transmission Licensees

Name of Transmission Company:		Power Grid Corporation of India Limited	
Name of Transmission Region:		Eastern Region	
5	Single	Lapwing D/C	161.21
		Lapwing S/C	1.02
		HTLS	185.60
		Moose D/C	0.39
		Zebra D/C	1642.93
		Zebra S/C	38.00
		Panther S/C	114.00
		Panther D/C	308.00
		Dog D/C	2.50
		Dog S/C	37.00
Grand Total			22899.02

Table-3- Number of AC Substations in Commercial Operation

Status as on			
			1.4.2023
1	765 kV		5
2	400 kV		29
3	220 kV		7
4	Up to 132 kV		1

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

Status as on			
			1.4.2023
1	HVDC		56
2	765 kV		71
3	400 kV		494
4	220 kV		186
5	Up to 132 kV		61

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

Status as on			2022-23
1	Substation O&M		7419.84
2	Lines O&M		4336.08
3	Security		5463.19
	Grand Total		21124.87

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

Status as on			2022-23
1	O&M		91035.52
	Total		91035.52

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	2022-23
Name of HVDC Station:	Sasaram
i) No of Employees	33
ii) A&G Expenses	379.36
iii) Repairs & Maintenance	747.56
Iv) Employee Expenses*	261.83
v) Corporate expenses allocated*	Included in Annexure-VI (B-I)
vi) Other income	0
vii) Any other income	0
Total Expenditure	1388.75
Name of HVDC Station:	Alipurduar
i) No of Employees	15
ii) A&G Expenses	848.62
iii) Repairs & Maintenance	776.68
Iv) Employee Expenses*	333.67
v) Corporate expenses allocated*	Included in Annexure-VI (B-I)
vi) Other income	0
vii) Any other income	0
Total Expenditure	1958.98
Name of HVDC Station:	Talcher
i) No of Employees	22
ii) A&G Expenses	766.02
iii) Repairs & Maintenance	698.46
Iv) Employee Expenses*	649.52
v) Corporate expenses allocated*	Included in Annexure-VI (B-I)
vi) Other income	0
vii) Any other income	0
Total Expenditure	2114.00

Additional Region-wise Information required from Transmission Licensees (Communication System)	
Name of Transmission Company:	Power Grid Corporation of India Limited
Name of Transmission Region:	Eastern Region
Table-1- Details of Communication system in Commercial Operation	
Particulars	Status as on
	1.04.2023
OPGW Communication Links in operation(in Kms)	7543.59
Number of wideband Communication nodes in operation	52
Number of RTUs in operation	14
Number of PLCC links in operation	0
Number of PMUs in operation	300
Number of Auxiliary Power Supply Nodes in operation	34
Table-2- Cost of Outsourcing of Services (INR in lakhs)	
	2022-23
Communication system O&M	338.46
PLCC O&M	0
RTU O&M	5.76
Auxiliary Power Supply O&M	12.82
Hiring charges of Bandwidth	39.94
Security	1.58
Others	0
Total	398.56

**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:			Eastern Region	
S.no	Voltage level	Substations	2022-23	
			MU	%
1	220	Ara	0.416	-
2	400	Banka	0.749	-
3	400	Biharsharif	1.358	-
4	765	Gaya	1.073	-
5	400	Jamshedpur	0.936	-
6	400	Muzaffarpur	1.167	-
7	400	New Purnea	0.873	-
8	400	Patna	0.906	-
9	220	Purnea	0.420	-
10	400	Ranchi	1.027	-
11	765	New Ranchi	1.899	-
12	400	Lakhisrai	0.537	-
13	765	Pusauli	1.494	-
14	400	Chaibasa	0.506	-
15	400	Kishanganj	1.435	-
16	400	Chandwa	0.250	-
17	400	Daltonganj	0.434	-
18	HVDC	Sasaram Hvdc	4.482	-
19	400	Alipurduar	1.574	-
20	400	Subhasgram	0.683	-
21	400	Durgapur	0.884	-
22	400	Rajarhat	0.748	-
23	400	Malda	0.346	-
24	400	Rangpo	0.346	-
25	220	Birpara	0.352	-
26	220	New Melli	0.315	-
27	220	Dalkhola	0.232	-
28	400	Maithon	0.829	-
29	220	Siliguri	0.379	-
30	400	Binaguri	0.988	-
31	400	Berhampore	0.421	-
32	132	Gangtok	0.082	-
33	HVDC	Alipurduar Hvdc	4.721	-
34	765	Angul	0.938	-
35	400	Baripada	0.668	-
36	400	Bolangir	0.463	-
37	400	Indravati	0.252	-
38	400	Jeypore	1.631	-
39	400	Keonjhar	0.426	-

**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:			Eastern Region	
S.no	Voltage level	Substations	2022-23	
			MU	%
40	400	Pandiabili	0.454	-
41	400	Rengali	0.539	-
42	400	Rourkela	1.436	-
43	765	Sundargarh	1.334	-
44	HVDC	Talcher Hvdc	7.745	-

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

Name of Transmission Company:		Power Grid Corporation of India Limited					
Name of Transmission Region:		Eastern Region					
Sl. No.	Name of Scheme	Sub-station (S/s)/ Transmission Line (TL)	MVA/ Line Length (km)	Compensation (Forest, crop, Tree, PTCC)	Employee Expenses	Administrative & General Expenses	Any other expenses
1.	ERSS-IX	S/s			213.32	123.07	
2.	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	S/s			27.18	24.59	
5.	ERSS - V	S/s			16.97	0.00	
6.	ERSS-VI	S/s			5.98	3.59	
7.	ERSS XIV	S/s			9.06	83.70	
8.	ERSS XVII, Part- A	S/s			0.00	65.08	
9.	ERSS XII	S/s			1149.81	233.13	
10.	ERSS-III	S/s			503.16	441.49	
11.	ERSS-III	TL			1295.71	1076.39	
12.	ERSS XVII, Part- B	S/s			0.00	89.78	
13.	ERSS-XX	S/s			503.73	292.76	
14.	SPLIT BUS ARRANGEMENT FOR VARIOUS SUB STATIONS IN ER	S/s			42.52	4.22	
15.	SPLIT BUS ARRANGEMENT FOR VARIOUS SUB STATIONS IN ER	TL			525.45	0	
16.	Associated Transmission System for Nabinagar-II TPS (3X660 MV)	S/s			272.08	178.77	
17.	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	
25.	ERSS XIV	S/s			45.14	17.37	
26.	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 System for Phase-II Generation Project in Odisha	S/s			9.13	1.25	
30.	Powergrid works associated with Common Transmission System for Phase-II Generation Project in Odisha	S/s			33.28	4.08	
31.	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	
33.	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	

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

Name of Transmission Company:		Power Grid Corporation of India Limited					
Name of Transmission Region:		Eastern Region					
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	
55.	ULDC replacement	ULDC			10.19	2.25	
56.	ERSS-VII	S/s			0.00	0.01	
57.	SCADA	ULDC			1.54	0.92	
58.	HVDC-Pole3&4	TL			78.80	42.99	
59.	HVDC-Pole3&4	TL			201.40	103.77	
60.	ERSS-IX	S/s			6.66	10.36	
61.	ERSS XIV	S/s			1.75	1.17	
62.	SCADA	ULDC			0.00	2.21	
63.	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	
66.	ULDC Expanssion (274)	ULDC			0.55	0.35	
67.	ERSS XIV	S/s			21.42	23.99	
68.	ERSS XV	S/s			3.07	2.26	
69.	ERSS XV	TL			10.36	10.50	
70.	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	
74.	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	
77.	URTDMSM	ULDC			45.93	101.11	
78.	URTDMSM	ULDC			5.24	11.52	
79.	ERSS XVII B	S/s			6.50	8.66	
80.	ERSS V	S/s			116.76	59.55	
81.	ERSS V	TL			962.83	695.27	
82.	ERSS XX	S/s			21.19	4.38	
83.	ERSS XX	S/s			28.48	6.30	

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

Name of Transmission Company:		Power Grid Corporation of India Limited					
Name of Transmission Region:		Eastern Region					
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
84.	ULDC Expansion (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	
104.	Baharampur (POWERGRID)- Bheramara (Bangladesh) 2nd 400 KV D/C Line and Associated line bays at Baharampur Sub Station	TL			167.28	499.72	
105.	Baharampur (POWERGRID)- Bheramara (Bangladesh) 2nd 400 KV D/C Line and Associated line bays at Baharampur Sub Station	S/s			14.83	44.3	
106.	ERSS XII	S/s			10.49	13.79	
107.	ERSS-XVIII	S/s			99.26	71.82	
108.	ERSS-XXIV	S/s			34.38	34.90	
109.	"Provision of Spare ICT's in Eastern Region "	S/s			11.27	21.33	

Details of Capital Cost of Transmission Line

Name of Transmission Company:		Power Grid Corporation of India Limited					
Name of Transmission Region:		Eastern Region					
SI. No.	Year	Configuration	Length (km)	Total Cost	Cost/km	Cost/ckt-km	
1	2022-23	HVDC					
		a) S/C	0.00				
		765 kV					
		a) S/C	0.00				
		b) D/C	0.00				
		765 kV Charged at 400 KV					
		a) S/C	0.00				
		400 kV					
		a) S/C	0.00				
		b) D/C	39.00				
		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						

Data separately not
available/maintained

Details of Capital Cost of Transmission Line

Name of Transmission Company: Power Grid Corporation of India Limited

Name of Transmission Region: Eastern Region

SI No.	Year	Configuration	MVA Capacity	No. of Bays	Total Cost	Cost/MVA	Cost/bays
1	2022-23	765kV		0	Data separately not available/maintained		
		400kV	815	9			
		220kV		2			
		132kV		0			
		HVDC		0			