

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:			Western 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		21	
	(2)	400 kV		25	
	(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 operation		No.		
	(1)	765 kV		82750.0	
	(2)	400 kV		35455.0	
	(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 operation		No.		
	(1)	765 kV		336.5	
	(2)	400 kV		647.5	
	(3)	220 kV		238	
	(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		16409.17	
	2	400 kV		30061.75	
	3	220 kV		1318.57	
	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.	
5.	Total number of employees* engaged in O&M of Sub-station				
	(1)	765 kV	No.	450	
	(2)	400 kV		362	
	(3)	220 kV		0	
	(4)	132 kV		0	
	(1)	765 kV	Cost (Rs. Lakhs)	11666.99	
	(2)	400 kV		9385.45	
	(3)	220 kV		0.00	
	(4)	132 kV		0.00	
	(Nomenclature are as per highest available voltage level)				

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Sl. No.	Particulars	Units	2022-23
6.	Total number of employees* engaged in O&M of Transmission Lines		
	(1) 765 kV	No.	307
	(2) 400 kV		244
	(3) 220 kV		0
	(4) 132 kV		0
	(1) 765 kV	Cost (Rs. Lakhs)	7959.48
	(2) 400 kV		6326.10
	(3) 220 kV		0.00
	(4) 132 kV		0.00
	(Nomenclature are as per highest available voltage level)		
7.	Auxiliary Power Consumption (excluding colony power)	MU	
	(1) 765 kV		23.33
	(2) 400 kV		19.09
	(3) 220 kV		0
	(4) 132 kV		0
	(Nomenclature are as per highest available voltage level)		
8.	Colony Power Consumption	MU	
	(1) 765 kV		1.01
	(2) 400 kV		1.86
	(3) 220 kV		0
	(4) 132 kV		0
	(Nomenclature are as per highest available voltage level)		
9.	Spare ICTs/Reactors		
	(1) 765 kV	No. & Cost (Rs Lakhs)	0
	(2) 400 kV 80 MVAR Reactor		
	(Nomenclature are as per highest available voltage level)		
10.	Spare Smoothing Reactors		
	(1) 765 kV	No. & 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		
	(1) 765 kV	No.	56.50
		Cost (Rs. Lakhs)	Data separately not available/ maintained
	(2) 400 kV	No.	92.50
		Cost (Rs. Lakhs)	Data separately not available/ maintained
	(3) 220 kV	No.	0
		Cost (Rs. Lakhs)	Data separately not available/ maintained
	(4) 132 kV	No.	0
		Cost (Rs. Lakhs)	Data separately not available/ maintained
(Nomenclature are as per highest available voltage level)			

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Sl. No.	Particulars		Units	2022-23		
12.	Reactors					
	(1) 765 kV		No.	148		
			Cost (Rs. Lakhs)	Data separately not available/ maintained		
	(2) 400 kV		No.	216		
			Cost (Rs. Lakhs)	Data separately not available/ maintained		
	(3) 220 kV		No.	0		
			Cost (Rs. Lakhs)	Data separately not available/ maintained		
	(4) 132 kV		No.	0		
			Cost (Rs. Lakhs)	Data separately not available/ maintained		
(Nomenclature are as per highest available voltage level)						
13.	(+)/(-)400 MVAR STATCOM		No.	0		
			Cost (Rs. Lakhs)	0		
	(+)/(-)300 MVAR STATCOM		No.	0		
			Cost (Rs. Lakhs)	0		
14.	Average outage duration for		Hours/year			
	A.	Transmission Lines				
	(1)	765 kV		20.01		
	(2)	400 kV		20.11		
	(3)	220 kV		33.07		
	(4)	132 kV		0		
	B.	Transformers				
	(1)	765 kV		15.12		
	(2)	400 kV		24.59		
	(3)	220 kV		0		
	(4)	132 kV		0		
	C.	Reactors				
	(1)	765 kV		9.91		
	(2)	400 kV		18.40		
	(3)	220 kV		0		
	(4)	132 kV		0		
	(Nomenclature are as per highest available voltage level)					
	15.	Cost of Initial spares (for S/S)		(Rs. In Lakhs)		
		A.			Capitalized	
		(1)			765 kV	141.19
(2)		400 kV				
(3)		220 kV				
(4)		132 kV				
B.		In Stock				
(1)		765 kV	Data separately not available/ maintained□			
(2)		400 kV				
(3)		220 kV				
(4)		132 kV				
C.		Cost of initial spares consumed				
(1)		765 kV	Data separately 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		1158		
	(2)	400 kV				
	(3)	220 kV				

Annexure-VA			
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:		Western 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
	(4) 132 kV		
	(Nomenclature are as per highest available voltage level)		

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:			Western 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	
17.	Cost of Initial spares (for Lines)		(Rs. In Lakhs)		
	A.	Capitalized			
	(1)	765 kV		527.06	
	(2)	400 kV			
	(3)	220 kV			
	(4)	132 kV			
	B.	In Stock			
	(1)	765 kV		Data separately not available/ maintained□	
	(2)	400 kV			
	(3)	220 kV			
	(4)	132 kV			
	C.	Cost of initial spares consumed			
	(1)	765 kV		Data separately not available/ maintained□	
	(2)	400 kV			
	(3)	220 kV			
	(4)	132 kV			
18.	Cost of O&M spares Consumed (for Lines)		(Rs. In Lakhs)		
	(1)	765 kV		1498	
	(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 the 2022-23**

Name of Transmission Company:			Power Grid Corporation of India Limited
Name of Transmission Region:			Western Region
Table-2- Station wise information (average for the year) for HVDC systems			
1) Champa HVDC			
Sl. No.	Particulars	Units	2022-23
1	Total number of employees* engaged in sub-station O&M	No.	43
		Cost (Rs. In	777.77
2	Total number of employees* engaged in O&M of	No.	Separate data for manpower for HVDC transmission line is not available as the same is included in AC line
		Cost (Rs. In	
3	Auxiliary power consumption (excluding colony power)	(MU)	13.7
4	Colony power consumption	(MU)	0.107
5	Outage duration	Pole-days	11.64
6	Load curtailment	MW – days	Data separately not available/maintained□
7	Cost of initial spares	(Rs. in lakh)	
	a) Capitalized		0
	b) In Stock		Data separately not available/ maintained
	c) Consumed		
8	Cost of O&M spares consumed	(Rs. in lakh)	1.61
2) Bhadrawati HVDC			
Sl. No.	Particulars	Units	2022-23
1	Total number of employees* engaged in sub-station O&M	No.	31
		Cost (Rs. In	744.20
2	Total number of employees* engaged in O&M of Transmission Lines	No.	Separate data for manpower for HVDC transmission line is not available as the same is included in AC line system
		Cost (Rs. In lakh)	
3	Auxiliary power consumption (excluding colony power)	(MU)	7.643717
4	Colony power consumption	(MU)	0.156
5	Outage duration	Pole-days	0.10
6	Load curtailment	MW – days	
7	Cost of initial spares	(Rs. in lakh)	
	a) Capitalized		0
	b) In Stock		Data separately not available/ maintained
	c) Consumed		
8	Cost of O&M spares consumed	(Rs. in lakh)	163.27

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

Name of Transmission Company:			Power Grid Corporation of India Limited
Name of Transmission Region:			Western Region
Table-2- Station wise information (average for the year) for HVDC systems			
3) Raigarh HVDC			
Sl. No.	Particulars	Units	2022-23
1	Total number of employees* engaged in sub-station O&M	No.	28
		Cost (Rs. In lakh)	626.58
2	Total number of employees* engaged in O&M of Transmission Lines	No.	Separate data for manpower for HVDC transmission line is not available as the same is included in AC line system
		Cost (Rs. In lakh)	
3	Auxiliary power consumption (excluding colony power)	(MU)	13.07
4	Colony power consumption	(MU)	0.04
5	Outage duration	Pole-days	3.31
6	Load curtailment	MW – days	
7	Cost of initial spares	(Rs. in lakh)	
	a) Capitalized		0
	b) In Stock		Data separately not available/ maintained
	c) Consumed		
8	Cost of O&M spares consumed	(Rs. in lakh)	42.84

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

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

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

Sl. No.	Particulars	Units	2022-23
1.	Number of Wideband Communication Nodes in operation	(No.)	192.5
2.	Average length of OPGW links in operation	(in Kms.)	15317.0
3.	Number of Remote Terminal Units(RTUs)	(No.)	8.5
4.	Number of PLCC links	(No.)	0
5.	Number of OPGW links	(No.)	124
6.	Number of Auxiliary Power Supply(DC) Nodes	(No.)	67
7.	Number of employees engaged in O&M of RTU and Communication System	(No.)	
	1) Executive		10
	2) Non executive		11
	3) outsourced		24
8.	Average outage duration for	(hours/year)	0
	a) Wideband Communication Links	Hours/Years	80
	b) RTUs		20
	c) PLCC		0
	d) Auxiliary Power Supply System		15
9.	Cost of Initial spares	(Rs.in lakh)	
	a) Capitalized		0
	b) In Stock		539.55
	c) Consumed		94
10.	Cost of O&M spares Consumed	(Rs.in lakh)	0
11.	Number of PMU installed in the region	(No.)	407
12.	O & M expenses of PMU incurred in the region	(Rs.in lakh)	190.5

(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:		Western Region
Sr.No.	ITEM	2022-23
1.0	Repairs and Maintenance Expenses :	
1)	Repairs of Plant & Machinery	8393.95
2)	Consumption of Stores (not capitalized)	5846.91
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)	6089.69
6)	Expenses of Diesel Generating sets	56.54
7)	Provisions	0.00
8)	Prior Period Adjustment , if any	0.00
9)	Other expenses, if any (please provide details)	0.00
	Sub-total (R&M Expenses)	20387.10
2.0	Administrative & General Expenses:	
1)	Insurance	1483.28
2)	Security (General other than special)	4371.86
3)	Rent	897.12
4)	Electricity Charges	0.00
5)	Traveling and conveyance	2431.00
6)	Communication expenses	472.00
7)	Advertisement and publicity	400.45
8)	Foundation laying and inauguration	0.00
9)	Books Periodicals and Journals	74.12
10)	Research expenses	416.03
11)	Cost Audit Fees	31.89
12)	Horticulture Expenses	991.29
13)	Bandwidth charges dark fibre lease charges (Telecom) etc	990.77
14)	Donations expenses	0.00
15)	Entertainment expenses	92.37
16)	Filing Fees	2585.50
17)	Legal Expenses	288.38
18)	Consultancy Expenses	5.53
19)	Professional charges (not covered under employee expenses)	391.01
20)	Printing and Stationary	93.33
21)	Hiring of Vehicle (excluding construction & Corporate exp)	3207.70
22)	Training and Recruitment expenses	1185.63
23)	Rates and taxes	1116.75
24)	Rebate to Customers	6376.23
25)	Self Insurance Reserve	9214.82

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:		Western Region
Sr.No.	ITEM	2022-23
26)	Provisions (Provide details)	0.00
27)	Prior Period Adjustment , if any	0.00
28)	Any other A&G expenses (Provide details)	4327.45
	Sub-total(A&G Expenses)	41444.49

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:		Western Region
Sr.No.	ITEM	2022-23
3.0	Employee Expenses	
1)	Salaries, wages and allowances	19028.53
2)	Staff welfare expenses	
	a) Contribution to Provident and other funds	6481.10
	b) Gratuity	68.02
	c) Pension	241.11
	d) Employee Medical Expenses	900.31
	e) Liveries and Uniforms	822.47
	f) Safety & Appliances expenses	131.37
	g) Others	2735.52
3)	Productivity linked incentive	0.00
4)	Expenditure on VRS	0.00
5)	Ex-gratia	0.00
6)	Performance related pay (PRP)	7078.15
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 20	0.00
	Sub-total(Employee Expenses)	37486.58
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	0.00
8.0	Corporate office expenses allocation	0.00
	(i) Transmission O&M Service	12073.96
	(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	5488.82
10.0	- Others (Specify items not included above)	0.00
	Sub Total (1 to 10)	116880.94
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

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:		Western Region
Sr.No.	ITEM	2022-23
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	116880.94
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)	To be claimed separately
14	Total Expenses (12) + (13A)	116880.94

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

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:		Western Region
Sr.No.	ITEM	2022-23
	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	109.60
2	EDP Expenses	390.05
3	Miscellaneous Expenses	3555.63
4	Bad Debts Expenses	0.00
5	FERV Expense	272.17
	Total	4327.45

Name of Transmission Company:	Power Grid Corporation of India Limited	
Name of Transmission Region:	Western Region	
Particulars	Year	Reasons of Variance
Travelling and conveyance	2022-23	Increase in Employee movement due to relaxation of Covid Norms
Advertisement and publicity	2022-23	Increased due to Tariff Advertisement for Block 2019-2024
Books Periodicals and Journals	2022-23	Nominal amount
Research expenses	2022-23	Increase in research work
Entertainment expenses	2022-23	Increase in expenses due to asset increase
Filing Fees	2022-23	Increase due to increase in tariff
Legal Expenses	2022-23	Legal cost due to arbitration cases
Consultancy Expenses	2022-23	Increase in consultant charges
Professional charges (not covered under employee expenses)	2022-23	Hiring of a consultant for implementation of Information Security Management System (ISMS) - ISO 27001:2013
Hiring of Vehicle (excluding construction &	2022-23	Increase in transmission assets
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

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:	Western Region
Sr.No.	ITEM	2022-23
1.0	Repairs and Maintenance Expenses :	
1)	Repairs of Plant & Machinery	505.47
2)	Consumption of Stores (not capitalized)	77.13
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)	1.71
6)	Expenses of Diesel Generating sets	0.41
7)	Provisions	0.00
8)	Prior Period Adjustment , if any	0.00
9)	Other expenses, if any (please provide details)	0.00
	Sub-total (R&M Expenses)	584.72
2.0	Administrative & General Expenses:	
1)	Insurance	0.21
2)	Security (General other than special)	0.00
3)	Rent	0.87
4)	Electricity Charges	
5)	Traveling and conveyance	21.26
6)	Communication expenses	4.06
7)	Advertisement and publicity	3.93
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	0.03
13)	Bandwidth charges dark fibre lease charges (Telecom) etc	86.06
14)	Donations expenses	0.00
15)	Entertainment expenses	0.14
16)	Filing Fees	18.14
17)	Legal Expenses	0.00
18)	Consultancy Expenses	0.00
19)	Professional charges (not covered under employee expenses)	2.06
20)	Printing and Stationary	0.09
21)	Hiring of Vehicle (excluding construction & Corporate exp)	-0.02
22)	Training and Recruitment expenses	3.10
23)	Rates and taxes	0.00
24)	Rebate to Customers	58.25
25)	Self Insurance Reserve	6.96
26)	Provisions (Provide details)	0.00
27)	Prior Period Adjustment , if any	0.00

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:	Western Region
Sr.No.	ITEM	2022-23
28)	Any other A&G expenses (Provide details)	18.07
	Sub-total(A&G Expenses)	223.19

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:	Western Region
Sr.No.	ITEM	2022-23
3.0	Employee Expenses	
1)	Salaries, wages and allowances	424.30
2)	Staff welfare expenses	12.06
	a) Contribution to Provident and other funds	31.98
	b) Gratuity	0.28
	c) Pension	2.52
	d) Employee Medical Expenses	0.08
	e) Liveries and Uniforms	7.12
	f) Safety & Appliances expenses	0.06
	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)	43.86
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
	Sub-total(Employee Expenses)	522.27
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	0.00
8.0	Corporate office expenses allocation	0.00
	(i) Transmission O&M Service	0.00
	(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	0.00
10.0	- Others (Specify items not included above)	0.00
	Sub Total (1 to 10)	1330.18
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

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:	Western Region
Sr.No.	ITEM	2022-23
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	1330.18
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)	To be claimed separately
14	Total Expenses (12) + (13A)	1330.18
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

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:	Western Region
Sr.No.	ITEM	2022-23
1	Tax and Statutory Audit Fees	0.00
2	EDP Expenses	0.10
3	Miscellaneous Expenses	15.54
4	Bad Debts Expenses	2.43
5	FERV Expense	0.00
	Total	18.07

Additional Region-wise Information required from Transmission Licensees

Name of Transmission Company:	Power Grid Corporation of India Limited
Name of Transmission Region:	Western 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		7142.84
	b) D/C		4633.17
3	765 kV Charged at 400 KV		
	a) S/C		0.00
	b) D/C		0.00
4	400 kV		
	a) S/C		3118.01
	b) D/C		13353.64
	c) M/C		56.38
	d) D/C on M/C		5.47
5	400 kV Charged at 220 KV		
	a) D/C		0.00
5	400 kV Charged at 132 KV		
	a) D/C		0.00
6	220 kV		
	a) S/C		204.56
	b) D/C		557.00
7	Up to 132 kV		
	a) S/C		0.00
	b) D/C		0.00

Table-2-Ckt km by Conductor Configuration

		Type of Conductor	1.4.2023
1	Hexa	Zebra D/C	9266.34
2	Quad	Bersimis S/C	7142.84
		Moose D/C	4528.68
		Moose S/C	0
		AAAC D/C	703.46
		Moose M/C	225.54
3	Triple	Snowbird D/C	3261.44

Additional Region-wise Information required from Transmission Licensees

Name of Transmission Company:			Power Grid Corporation of India Limited
Name of Transmission Region:			Western Region
4	Twin	Moose S/C	3118.01
		Moose D/C	17040.69
		ACKC D/C	1184

Additional Region-wise Information required from Transmission Licensees

Name of Transmission Company:			Power Grid Corporation of India Limited
Name of Transmission Region:			Western Region
5	Single	ACSR Zebra D/C	1114.01
		AAAC Zebra S/C	204.56
Grand Total			47789.56

Table-3- Number of AC Substations in Commercial Operation

Status as on			1.4.2023
1	765 kV		21
2	400 kV		25
3	220 kV		0
4	Up to 132 kV		0

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

Status as on			1.4.2023
1	HVDC		137
2	765 kV		337
3	400 kV		652
4	220 kV		241
5	Up to 132 kV		0

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

Status as on			1.4.2023
1	Substation O&M		2568.04
2	Lines O&M		837.95
3	Security		4439.28
4	Others		553.98
Grand Total			8399.24

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

Status as on			1.4.2023
1	O&M		109259.38
Total			109259.38

Station wise O&M Expenditure at HVDC Station (Rs. lakh)

Name of Transmission Company:	Power Grid Corporation of India Limited
Name of Transmission Region:	Western Region
Particulars	2022-23
Name of HVDC Station:	Bhadrawati
i) No of Employees	31
ii) A&G Expenses	644.22
iii) Repairs & Maintenance	548.20
iv) Employee Expenses*	744.20
v) Corporate expenses allocated	Included in Annexure VI-BI
vi) Other income	0
vii) Any other income	0
Total Expenditure	1936.62
Particulars	2022-23
Name of HVDC Station:	Champa
i) No of Employees	43
ii) A&G Expenses	1356.22
iii) Repairs & Maintenance	670.24
iv) Employee Expenses*	777.77
v) Corporate expenses allocated	Included in Annexure VI-BI
vi) Other income	0
vii) Any other income	0
Total Expenditure	2804.23
Particulars	2022-23
Name of HVDC Station:	Raigarh
i) No of Employees	28
ii) A&G Expenses	1398.50
iii) Repairs & Maintenance	855.63
iv) Employee Expenses*	626.58
v) Corporate expenses allocated	Included in Annexure VI-BI
vi) Other income	0
vii) Any other income	0
Total Expenditure	2880.71

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

Name of Transmission Company:

Power Grid Corporation of India

Name of Transmission Region:

Western Region

Table-1- Details of Communication system in Commercial Operation

Particulars	1.04.2023
OPGW	16077
Number of wideband Communication nodes in	200
Number of RTUs in operation	8
Number of PLCC links in operation	0
Number of PMUs in Operation	407
Number of Auxiliary Power Supply Nodes in	67

Table-2- Cost of Services

Particulars	2022-23
Communication system O&M	3.78
PLCC O&M	0
RTU O&M	0
Auxiliary Power Supply O&M	2.02
Hiring charges of Bandwidth	86.06
Security	0
Others	327.74
Total	419.60

**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:	Western Region

S.no	Voltage	Name of Substation	2022-23	
			MU	%
1	765	Wardha	1.142	-
2	765	Tamnar Pooling	0.867	-
3	765	Solapur	2.061	-
4	765	Seoni	1.217	-
5	400	Raipur	1.776	-
6	765	Raipur Pooling(Durg)	1.511	-
7	400	Raigarh 400	0.670	-
8	HVDC	Raigarh HVDC	13.066	-
9	765	Pune 765	0.892	-
10	400	Pune-Talegaon	0.649	-
11	400	Parli 400KV	0.667	-
12	765	Padghe	0.559	-
13	400	Mapusa	0.711	-
14	765	Kotra Pooling	1.803	-
15	400	Kolhapur	0.443	-
16	765	Korba Pooling	1.303	-
17	HVDC	Bhadrawati HVDC	7.644	-
18	765	Champa	1.143	-
19	HVDC	Champa HVDC	13.700	-
20	765	Bilaspur	0.857	-
21	400	Bhatapara	0.543	-
22	765	Aurangabad	2.092	-
23	400	Bhadrawati	0.895	-
24	400	Jabalpur	0.970	-
25	400	Itarsi	1.010	-
26	400	Dehgam	1.240	-
27	765	Satna	1.673	-
28	400	Khandwa	1.012	-
29	400	Vapi	0.588	-
30	400	Bina	1.537	-
31	765	Gwalior	1.308	-
32	400	Rajgarh	0.522	-
33	400	Damoh	0.479	-
34	400	Pirana	0.560	-
35	400	Shujalpur	0.540	-
36	400	Bhachau	0.681	-
37	400	Navsari GIS	0.666	-
38	765	Indore	0.533	-
39	765	Jabalpur Pool	1.389	-

Annexure-XIIIC				
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:			Western Region	
40	400	Kala GIS	0.339	-

**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:			Western Region	
41	400	Magarwada GIS	0.525	-
42	400	Boisar	0.840	-
43	765	Vindhyachal	0.620	-
44	765	Vadodara GIS	0.602	-
45	400	Betul GIS	0.572	-
46	400	Rewa	0.185	-
47	765	Banaskantha	0.999	-
48	765	Bhuj	0.763	-
49	400	Vav	0.468	-

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:			Western 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.	Transmission System associated with DGEN TPS (1200 MW) of Torrent Power Limited"	SS				91.07	
2.	Bus splitting through Series Reactor (Incl. Series Reactor) & other associated works and reorientation of	TL			199.1	311.15	
3.	Transmission lines near Wardha substation	SS			76.45	119.47	
4.	Reconductoring of 400 kV D/C (Twin Moose)	TL			100.21	159.07	
5.	Kolhapur (PG)- Kolhapur (MSETCL) Circuit 1 with HTLS conductor	SS			4.61	7.32	
6.	Connectivity and LTA for 325 MW Wind Projects of M/s SBESS Services Projects Pvt Ltd	SS				56.98	
7.	WRSS XXIII	SS				34.07	
8.	Transmission System for Connectivity of Essar Power Gujarat Limited	TL				1958.85	
9.	Transmission Network Expansion in Gujarat to increase its ATC from ISTS (PART-A)	TL				12.18	
10.	Supplementary Transmission System for Ultra Mega Solar Power Park (700 MW) at Banaskantha (Radhanesda) GUJARAT	TL				123.67	
11.	Transmission System for Ultra Mega Solar Power Park (700 MW) at Banaskantha (Radhanesda) GUJARAT	TL				648.97	
12.	Reliable Communication Scheme under Central Sector for Western Region	TL				74.94	
13.	SCHEME FOR FAULT LEVEL CONTROL AT DEHGAM (PG) & RANCHHODPURA (GETCO) S/S	SS				0.09	
14.	Western Region System Strengthening Scheme (WRSS)-22	TL				13.41	
15.	ICT Augmentation at 2x315 MVA 400/220 KV Shujalpur (PG) Substation	SS				78.74	
16.	Western Region Communication Strengthening Scheme	TL				83.29	
17.	Transmission System associated with DGEN TPS (1200 MW) of Torrent Power Limited	TL				157.30	
18.	Transmission System for Ultra Mega Solar Power Park (750 MW) at REWA, Madhy Pradesh	TL				12.20	

Details of Capital Cost of Transmission Line

Name of Transmission Company:			Power Grid Corporation of India Limited			
Name of Transmission Region:			Western Region			
SI No.	Year	Configuration	Length (km)	Total Cost	Cost/km	Cost/ckt-km
1	2022-23	HVDC		Data separately not available/ maintained		
		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			
		b) D/C	0.00			
		400 kV				
		a) S/C	0.00			
		b) D/C	0.00			
		c) M/C	0.00			
		d) D/C on M/C	0.00			
		400 kV Charged at 220 KV				
		a) D/C	0.00			
		400 kV Charged at 132 KV				
		a) D/C	0.00			
		220 kV				
		a) S/C	0.00			
		b) D/C	0.00			
		Up to 132 kV				
		a) S/C	0.00			
		b) D/C	0.00			

Details of Capital Cost of Transmission Line

Name of Transmission Company:		Power Grid Corporation of India Limited					
Name of Transmission Region:		Western Region					
SI No.	Year	Configuration	MVA Capacity	No. of Bays	Total Cost	Cost/MVA	Cost/bays
1	2022-23	765kV	1500	1	Data separately not available/ maintained		
		400kV	1500	9			
		220kV		6			
		132kV					
		HVDC		0			