			enses for the Transmission Systems for 2022-23
Name of Transmission Company:		Power Grid Corporation of India Limited	
lame	of Transmission Region:	Western Region	
	Table-1 - Region wise information (averag		erwise total for the region) for AC system
S1. 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		Note :
	voltage level)		(a) Average is calculated based on data as on 1st Ap and data as on 31 march for that FY.(b) Yearwise data is the cumulative figure of that
2.	Transformation capacity of AC Substation in	No.	vear.
∠.	operation	110.	
	(1) 765 kV		82750.0
	(1) 700 kV (2) 400 kV		35455.0
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
			0
	(4) 132 kV		0
	(Nomenclature are as per highest available		
	voltage level)	NT	
3.	Number of bays in each AC Substation in	No.	
	operation (1) T(5 1)		224 5
	(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 Ap and data as on 31 march for that FY. (b) Yearwise data is the cumulative figure of that ye
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 Ap and data as on 31 march for that FY. (b) Yearwise data is the cumulative figure of that ye
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		11666.99
	(2) 400 kV		9385.45
	(3) 220 kV	Cost (Rs. Lakhs)	0.00
	(4) 132 kV		0.00
	141 1137 K V		0.00
	(Nomenclature are as per highest available		

	Pro-forma for furnishing Actual annual perform	ance/operational expense	es for the Transmission Systems for 2022-23	
	of Transmission Company:	Power	Grid Corporation of India Limited	
ame	of Transmission Region:	Western Region		
	Table-1 - Region wise information (averag	e for the year, but otherw	vise total for the region) for AC system	
51.	Particulars	Units	2022-23	
Jo.				
5.	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		7959.48	
	(2) 400 kV	Cost (Rs. Lakhs)	6326.10	
	(3) 220 kV	COSt (185. Lakits)	0.00	
	(4) 132 kV		0.00	
	(Nomenclature are as per highest available			
	voltage level)			
7.	Auxiliary Power Consumption (excluding colony	MU		
•	power)	•		
	(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. &	0	
	(2) 400 kV 80 MVAR Reactor	Cost (Rs Lakhs)	0	
	(Nomenclature are as per highest available	· · · · · · · · · · · · · · · · · · ·		
	voltage level)			
0.	Spare Smoothing Reactors			
	(1) 765 kV		0	
	(2) 400 kV	No. &	0	
	(3) 220 kV	Cost(Rs. Lakhs)	0	
	(4) 132 kV		0	
	(Nomenclature are as per highest available			
	voltage level)			
1.	ICTs			
	(1) 765 kV	No.	56.50	
	l · ·	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			

-			ses for the Transmission Systems for 2022-23		
	e of Transmission Company:	Power	Power Grid Corporation of India Limited		
Jame of Transmission Region: Table 1 - Region wise information (aver		average for the year but other	Western Region rage for the year, but otherwise total for the region) for AC system		
1.	Particulars	Units	2022-23		
0.	i urreuluis	Cints			
2.	Reactors				
	(1) 765 kV	No.	148		
		Cost (Rs. Lakhs)	Data separately not available/ maintained		
	(2) 400 kV	No.	216		
	(2) 220 1 1/	Cost (Rs. Lakhs)	Data separately not available/ maintained		
	(3) 220 kV	No. Cost (Rs. Lakhs)	0 Data separately not available/ maintained		
	(4) 132 kV	No.			
		Cost (Rs. Lakhs)	Data separately not available/ maintained		
	(Nomenclature are as per highest available				
	voltage level)				
3.	(+)/(-)400 MVAR STATCOM	No.	0		
		Cost (Rs. Lakhs)	0		
	(+)/(-)300 MVAR STATCOM	No.	0		
ł.	Average outage duration for	Cost (Rs. Lakhs)	0		
±.	Average outage duration forA.Transmission Lines	Hours/year			
	(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		
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		0		
	(4) 132 kV		0		
	(Nomenclature are as per highest available				
	voltage level)				
5.	Cost of Initial spares (for S/S)	(Rs. In Lakhs)			
	A. Capitalized				
	(1) 765 kV				
	(2) 400 kV		141.19		
	(3) 220 kV				
	(4) 132 kV				
	B. In Stock (1) 765 kV				
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	—			
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		Data separately not available/ maintained		
	(4) 132 kV				
	C. Cost of initial spares consumed				
	(1) 765 kV				
	(2) 400 kV		Data separately not available/ maintained		
	(3) 220 kV		Data separately not available/ maintained		
	(4) 132 kV				
5.	Cost of O&M spares Consumed (for S/s)	(Rs. In Lakhs)			
	(1) 765 kV				
	(2) 400 kV		1158		

	<u>Annexure-V</u>			
	Pro-forma for furnishing Actual annual performance/operational expenses for the Transmission Systems for 2022-23			
Name	e of Transmission Company:	Power	Grid Corporation of India Limited	
Name	e of Transmission Region:		Western Region	
	Table-1 - Region wise information (aver	age for the year, but otherv	vise total for the region) for AC system	
S1.	Particulars	Units	2022-23	
No.				
	(4) 132 kV			
	(Nomenclature are as per highest available			
	voltage level)			

	Pro-forma for furnishing Actual annual perfor	rmance/operational expens	ses 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 (avera	age for the year, but other	wise total for the region) for AC system	
S1 .	Particulars	Units	2022-23	
No.				
17.	Cost of Initial spares (for Lines)	(Rs. In Lakhs)		
	A. Capitalized			
	(1) 765 kV			
	(2) 400 kV		527.06	
	(3) 220 kV		327.00	
	(4) 132 kV			
	B. In Stock			
	(1) 765 kV			
	(2) 400 kV		Data separately not available/maintained	
	(3) 220 kV			
	(4) 132 kV			
	C. Cost of initial spares consumed			
	(1) 765 kV			
	(2) 400 kV		Data separately not available/maintained	
	(3) 220 kV			
	(4) 132 kV			
18.	Cost of O&M spares Consumed (for Lines)	(Rs. In Lakhs)		
	(1) 765 kV			
	(2) 400 kV		1498	
	(3) 220 kV	1		
	(4) 132 kV	1		
	(Nomenclature are as per highest available			
	voltage level)			

Note:* Executive & Non-Executive / contract labour

			Annexure-VA
		0	performance/operational expenses
	for the Tr	ransmission Syst	tems for the 2022-23
Name o	f Transmission Company:		Power Grid Corporation of India Limited
Name o	f Transmission Region:		Western Region
	Table-2- Station wise inf	formation (avera	ge for the year) for HVDC systems
	npa HVDC		
Sl. No.	Particulars	Units	2022-23
1	Total number of employees [*]	No.	43
	engaged in sub-station O&M	Cost (Rs. In	777.77
2	Total number of	No.	Separate data for manpower for HVDC transmission
	employees*engaged in O&M of	Cost (Rs. In	line is not available as the same is included in AC line
3	Auxiliary power consumption	(MU)	13.7
	(excluding colony power)		
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) Bhad	rawati HVDC		
Sl. No.	Particulars	Units	2022-23
1	Total number of employees [*]	No.	31
	engaged in sub-station O&M	Cost (Rs. In	744.20
2	Total number of	No.	Separate data for manpower for HVDC transmission
	employees*engaged in O&M of	Cost (Rs. In	line is not available as the same is included in AC line
	Transmission Lines	lakh)	system
3	Auxiliary power consumption	(MU)	7.643717
-	(excluding colony power)	()	
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		1 ,
8	Cost of O&M spares consumed	(Rs. in lakh)	163.27

			Annexure-VA	
	Pro-forma for furnishing Actual annual performance/operational expenses			
	for the Ti	ransmission Syst	tems for the 2022-23	
Name of	Transmission Company:		Power Grid Corporation of India Limited	
Name of	Transmission Region:		Western Region	
	Table-2- Station wise inf	formation (avera	ge for the year) for HVDC systems	
3) Raiga	rh HVDC			
Sl. No.	Particulars	Units	2022-23	
1	Total number of employees [*]	No.	28	
	engaged in sub-station O&M			
		Cost (Rs. In	626.58	
		lakh)		
2	Total number of employees	No.	Separate data for manpower for HVDC transmission	
	engaged in O&M of Transmission		line is not available as the same is included in AC line	
	Lines	Cost (Rs. In	system	
		lakh)		
3	Auxiliary power consumption	(MU)	13.07	
	(excluding colony power)			
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

Pro-forma for furnishing Actual annual performance/operational expenses for the Transmission Systems for 2022-23 Power Grid Corporation of India Limited Power Grid Corporation of India Limited Table-3 Region wise information (average for the year, but otherwise total for the region) for Communication system - WR SI. No. Particulars Units 2022-23 No. Number of Wideband Communication Nodes in operation A verage length of OPGW links in operation A verage length of OPGW links in (in Kms.) Number of Remote Terminal Units(RTUS) A number of PLCC links Number of PLCC links Number of PLCC links Number of employees engaged in O&M of RTU and Communication System 1) Executive 1) Executive 2) Executive 2				Annexure-VB
Name of Transmission Company:Power Grid Corporation of India LimitedName of Transmission Region:Western RegionTable- 3 Region wise information (average for the year, but otherwise total for the region) for Communication system - WR2022-23No.ParticularsUnits2022-23No.Number of Wideband communication Nodes in operation(No.)192.52.Average length of OPCW links in operation(In Kms.)15317.03.Number of Remote Terminal Units(RTUS)(No.)8.54.Number of PLCC links(No.)05.Number of OPGW links in Units(RTUS)(No.)1246.Number of Auxiliary Power Supply(DC) Nodes(No.)677.Number of employces engaged in O&M of RTU and Communication System10113.Ottosecutive10248.Average outage duration for Links(hours/year)09.Average outage duration for Links0159.Ottosecutive10159.System10159.System15159.System15159.System0159.Constunced941010.Constunced94011.Number of PMU installed in the region(No.)4079.Cost of CodM spares Constuned(Rs.in lakh)011.Number of PMU installed in the region(No.)40	Pro-form	č -		l expenses for the Transmission
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 Si. No. Particulars Units 2022-23 No. Particulars Units 2022-23 Number of Wideband (No.) 192.5 Operation (in Kms.) 15317.0 Operation (in Kms.) 15317.0 Operation (No.) 8.5 Units(RTUs) (No.) 0 4. Number of Remote Terminal Units(RTUs) (No.) 0 7. Number of OPGW links (No.) 0 8. Supply(DC) Nodes (No.) 10 1 Executive 10 20 1 Executive 10 20 1 <td>Name of</td> <td></td> <td></td> <td>Corporation of India Limited</td>	Name of			Corporation of India Limited
Table- 3 Region wise information (average for the year, but otherwise total for the region) for Communication system - WR Si. Particulars Units 2022-23 No. 10 192.5 192.5 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.) 0 4. Number of OPGW links (No.) 0 5. Number of OPGW links (No.) 0 6. Number of OPGW links (No.) 124 6. Number of Auxiliary Power (No.) 67 Supply(DC) Nodes 0 10 10 7. Number of employees engaged in O&M of RTU and Communication System 10 10 2) Non executive 11 3) outsourced 24 8. Average outage duration for (hours/year) 0 0 9. Cost of Initial spares (Rs.in lakh) 15 9. Cost of Supply 539.55 0 15				*
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.) 67 1) Executive 11 10 24 8. Average outage duration for Links (hours/year) 0 80 1. Inscutive 11 30 20 0 15 9. Cost of Initial spares (Rs.in lakh) 0 15 539.55 0 9. Cost of O&M spares Consumed (Rs.in lakh) 0 11. 10 10 10 10 10 15 1539.55	Table-	3 Region wise information (average for		
No.ParticularsUnits1.Number of Wideband Communication Nodes in operation(No.)192.52.Average length of OPGW links in operation(in Kms.)15317.03.Number of Remote Terminal Units(RTUs)(No.)8.54.Number of PLCC links(No.)05.Number of OPGW links(No.)1246.Number of Auxiliary Power Supply(DC) Nodes(No.)677.Number of employees engaged in O&M of RTU and Communication System(No.)671Executive10113)outsourced248.Average outage duration for Links(hours/year)01a)wideband Communication Links801Executive10219.Cost of Initial spares(Rs.in lakh)09.Cost of O&M spares Consumed(Rs.in lakh)011.Number of PMU installed in the region(No.)40712.O &M expenses of PMU incurred in the region(Rs.in lakh)190.5		Communicat	ion system - WR	
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.) 67 1 Executive 10 10 2) Non executive 11 3 3) outsourced 24 24 8. Average outage duration for Links Hours/Year) 0 a) Wideband Communication Links 80 115 9. Cost of Initial spares (Rs.in lakh) 0 9. Cost of O&M spares Consumed 94 0 10. Cost of O&M spares Consumed (Rs.in lakh) 0 11. Number of PMU installed in the region (No.) 407 region 0 407 </td <td></td> <td>Particulars</td> <td>Units</td> <td>2022-23</td>		Particulars	Units	2022-23
operationImage: constraint of the second	1.	Communication Nodes in	(No.)	192.5
Units(RTUs) $(No.)$ 4.Number of PLCC links $(No.)$ 05.Number of OPGW links $(No.)$ 1246.Number of Auxiliary Power Supply(DC) Nodes $(No.)$ 677.Number of employees engaged in O&M of RTU and Communication System $(No.)$ 671)Executive102)Non executive113)outsourced248.Average outage duration for Links $(hours/year)$ 0a)Wideband Communication Links80b)RTUs00d)Auxiliary Power Supply System159.Cost of Initial spares c) Cost of Initial spares(Rs.in lakh)9.Cost of Stock9410.Cost of Q&M spares Consumed region(Rs.in lakh)011.Number of PMU installed in the region(No.)40712.O & M expenses of PMU incurred in the region(Rs.in lakh)190.5	2.	operation	(in Kms.)	15317.0
5. Number of OPGW links (No.) 124 6. Number of Auxiliary Power (No.) 67 Supply(DC) Nodes (No.) 67 7. Number of employees (No.) 67 engaged in O&M of RTU and (No.) 67 20 10 20 10 21 Non executive 11 10 22 Non executive 11 11 3) outsourced 24 80 24 8. Average outage duration for (hours/year) 0 0 a) Wideband Communication 80 15 0 0 Links 10 20 15 0 15 9. Cost of Initial spares (Rs.in lakh) 0 15 539.55 c) Consumed 94 0 10 10 10 10 10. Cost of O&M spares Consumed (Rs.in lakh) 0 11 10 10 10 10 11 10 10 11 10 10 11 10 10 10 <	3.	Units(RTUs)	(No.)	8.5
6.Number of Auxiliary Power Supply(DC) Nodes(No.) 67 7.Number of employees engaged in O&M of RTU and Communication System(No.) 67 1)Executive(No.) 10 2)Non executive 10 3)outsourced 24 8.Average outage duration for uideband Communication(hours/year) 0 a)Wideband Communication Links 80 b)RTUs 0 c)PLCC 0 d)Auxiliary Power Supply System 15 9.Cost of Initial spares c) Consumed 0 b)Instock 539.55 c)Consumed 94 10.Cost of O&M spares Consumed region $(Rs.in lakh)$ 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	4.	Number of PLCC links	(No.)	0
Supply(DC) NodesImage: constraint of a constraint of	5.	Number of OPGW links	(No.)	124
7.Number engaged in O&M of RTU and Communication System(No.)1)Executive102)Non executive103)outsourced248.Average outage duration for Links(hours/year)0a)Wideband Communication Links80b)RTUs80c)PLCC0d)Auxiliary Power Supply System209.Cost of Initial spares c) Consumed(Rs.in lakh)a)Gapitalized0b)Instock539.55c)Cost of O&M spares Consumed region(Rs.in lakh)11.Number of PMU installed in the region(No.)40712.O & M expenses of PMU incurred in the region(Rs.in lakh)190.5	6.		(No.)	67
2)Non executive113)outsourced248.Average outage duration for a)(hours/year)0a)Wideband Communication Links80b)RTUs80c)PLCC0d)Auxiliary Power Supply System09.Cost of Initial spares(Rs.in lakh)a)Cost of Initial spares0b)In Stock539.55c)Consumed9410.Cost of O&M spares Consumed(Rs.in lakh)11.Number of PMU installed in the region(No.)40712.O & M expenses of PMU incurred in the region(Rs.in lakh)190.5	7.	Number of employees engaged in O&M of RTU and	(No.)	
3) outsourced248. Average outage duration for a) Wideband Communication Links(hours/year)0a) Wideband Communication Links80b) RTUs400c) PLCC0d) Auxiliary Power Supply System159. Cost of Initial spares(Rs.in lakh)a) Capitalized0b) In Stock539.55c) Consumed9410. Cost of O&M spares Consumed(Rs.in lakh)11. Number of PMU installed in the region(No.)12. O & M expenses of PMU incurred in the region(Rs.in lakh)		1) Executive		10
8.Average outage duration for a)(hours/year)0a)Wideband Communication Links80b)RTUsHours/Yearsc)PLCC0d)Auxiliary Power Supply System159.Cost of Initial spares(Rs.in lakh)a)Capitalized0b)In Stock539.55c)Consumed9410.Cost of O&M spares Consumed(Rs.in lakh)11.Number of PMU installed in the region(No.)40712.O & M expenses of PMU incurred in the region(Rs.in lakh)190.5		2) Non executive		11
a)Wideband Communication Links80b)RTUs4000000000000000000000000000000000000		/		24
LinksHours/Years20b) RTUs00c) PLCC00d) Auxiliary Power Supply System159.Cost of Initial spares(Rs.in lakh)a) Capitalized0b) In Stock94c) Consumed9410.Cost of O&M spares Consumed(Rs.in lakh)11.Number of PMU installed in the region(No.)40712.O & M expenses of PMU incurred in the region(Rs.in lakh)190.5	8.		(hours/year)	0
c)PLCCHours/ Years0d)Auxiliary Power Supply System159.Cost of Initial spares(Rs.in lakh)a) Capitalized0b) In Stock539.55c) Consumed9410.Cost of O&M spares Consumed(Rs.in lakh)11.Number of PMU installed in the region(No.)407190.512.O & M expenses of PMU incurred in the region(Rs.in lakh)		,		80
c)PLCC0d)Auxiliary Power Supply System159.Cost of Initial spares(Rs.in lakh)a)Capitalized0b)In Stock539.55c)Consumed9410.Cost of O&M spares Consumed(Rs.in lakh)11.Number of PMU installed in the region(No.)40712.O & M expenses of PMU incurred in the region(Rs.in lakh)190.5			Hours/Years	
SystemIntervention9.Cost of Initial spares(Rs.in lakh)a) Capitalized0b) In Stock0c) Consumed9410.Cost of O&M spares Consumed(Rs.in lakh)11.Number of PMU installed in the region(No.)12.O & M expenses of PMU incurred in the region(Rs.in lakh)		/		•
a) Capitalized0b) In Stock539.55c) Consumed9410.Cost of O&M spares Consumed(Rs.in lakh)11.Number of PMU installed in the region(No.)12.O & M expenses of PMU incurred in the region(Rs.in lakh)		System		15
b) In Stock539.55c) Consumed9410.Cost of O&M spares Consumed(Rs.in lakh)11.Number of PMU installed in the region(No.)12.O & M expenses of PMU incurred in the region(Rs.in lakh)	9.	1	(Rs.in lakh)	
c) Consumed9410.Cost of O&M spares Consumed(Rs.in lakh)011.Number of PMU installed in the region(No.)40712.O & M expenses of PMU incurred in the region(Rs.in lakh)190.5		· •	ļ	
10.Cost of O&M spares Consumed(Rs.in lakh)011.Number of PMU installed in the region(No.)40712.O & M expenses of PMU incurred in the region(Rs.in lakh)190.5		· · · · · · · · · · · · · · · · · · ·		
11.Number of PMU installed in the region(No.)40712.O & M expenses of PMU incurred in the region(Rs.in lakh)190.5		/		
regionregion12.O & M expenses of PMU incurred in the region(Rs.in lakh)190.5		—	, <i>,</i>	-
the region	11.		(No.)	407
	12.	-	(Rs.in lakh)	190.5
	(Note: Sep	ě	n along with benefit a	vailed during the year)

<u>Detail</u>	s of Operation & Maintenance Expenses of Transm the Transmission R	•	
	Name of Transmission Company: Power Grid Corporation of India Limi		
	Name of Transmission Company.	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	6089.69	
	activity)		
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	990.77	
	(Telecom) etc		
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	391.01	
	expenses)		
20)	Printing and Stationary	93.33	
21)	Hiring of Vehicle (excluding construction &	3207.70	
	Corporate exp)		
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	

<u>Annexure-VI-(B-1)</u> 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	

Detail	ls of Operation & Maintenance Expenses of Transm the Transmission R	•
the Transmission Region)		
	Name of Transmission Company:	Power Grid Corporation of India Limited
	Name of Transmission Region:	Western Region
Cr No	ITEM	2022.22
Sr.No. 3.0		2022-23
<u> </u>	Employee Expenses	19028.53
2)	Salaries, wages and allowances Staff welfare expenses	19020.33
∠)	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
2)	g) Others	2735.52
3)	Productivity linked incentive	0.00
4) 5)	Expenditure on VRS	0.00 0.00
5) 6)	Ex-gratia Performance related pay (PRP)	7078.15
7)		0.00
8)	Any other expenses Provisions (furnish details separately)	0.00
<u> </u>	Prior Period Adjustment , if any (furnish details	0.00
9)	separately)	0.00
10)	VII Pay Arrears Paid Pertaining to period prior to 20	0.00
10)	Sub-total (Employee Expenses)	37486.58
4.0	Additional /Specific Security it any on the advise	0.00
т.0	of Govt. Agency/ Statutory Authority/ any other	0.00
	reasons	
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
0.0	(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

Annexure-VI-(B-1)

Details of Operation & Maintenance Expenses of Transmission O&M service (To be filled for each of the Transmission Pagion)			
	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	
<u>d)</u>	Consultancy Services	0.00	
e)	Interest against Loans and advances	0.00	
f)	Interest from advanced to contractors/suppliers	0.00	
<u>g)</u>	Income from lease of assets	0.00	
h)	Disposal of scrap/stores (not covered under	0.00	
	capitalized assets)		
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)	Capital Spares not claimed/allowed by CERC	
	above and not claimed /allowed by Commission	have been consmued as O&M Spares	
	for capitalization		
13A	Expenses against Capital expenditure incurred for		
	Operation and Maintenance of Transmission		
	System (not included in Capital Cost/Repair &	To be claimed separately	
	Maintenance expenditure indicated 1.0(1) above)		
14	Total Expenses (12) + (13A)	116880.94	
Notes:			
	I. The details of Corporate Expenses and the methor various functional activities and allocation of Corportransmission system to each operating stations/ transmission region/system under construction s VIII as provided here separately.	orate expenses pertaining to power generation/ nsmission region/system and stations/ hould be clearly specified in ANNEXURE-	
	II. An annual increase in O&M expenses under a green explained.	_	
	III. The data should be based on audited balance should be based on audited balance should be such that a such tha	5	
	IV. Employee cost should be excluding arrears paid / payment	for pay hike/ prior period adjustment	
	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 yea	ar should be indicated.	
	VI. Details of abnormal expenses, if any, shall be fur	nished separately.	
	VII Break-up of staff welfare expenses should be fur	nished	
	VIII Details of Consumptive Water requirement , co with source , rate etc. Should be furnished year-wise	-	

Annexure-VI-(B-1)

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

	the manshinssion 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 (I	ndicated 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		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		Increase in consultant charges
Professional charges (not covered under	2022-23	Hiring of a consultant for implementation of Information
employee expenses)		SecurityManagement 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		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

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 :	2022-25		
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			
0)	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	86.06		
	(Telecom) etc	80.00		
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	2.06		
	employee expenses)			
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		

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Annexure-VI	(B-II)
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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		

	Transmission Re	egion)	
	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	
2)	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	
0.0	(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	

Annexure-VI(B-II)

	<u>ls of Operation & Maintenance Expenses of Trans</u> Transmission	mission O&M service (To be filled for each of the 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 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)	To be claimed separately
14		
14 Notes:		1330.18
	I. The details of Corporate Expenses and the method functional activities and allocation of Corporate exper	ology of allocation of corporate expenses to various uses pertaining to power generation/ transmission system em and stations/ transmission region/system under CURE-VIII as provided here separately.
	I. The details of Corporate Expenses and the method functional activities and allocation of Corporate exper to each operating stations/ transmission region/syste construction should be clearly specified in ANNEX II. An annual increase in O&M expenses under a give III. The data should be based on audited balance shee	ology of allocation of corporate expenses to various uses pertaining to power generation/ transmission system em and stations/ transmission region/system under CURE-VIII as provided here separately. en head in excess of 10% percent should be explained. ts, duly reconciled and certified.
	I. The details of Corporate Expenses and the method functional activities and allocation of Corporate exper to each operating stations/ transmission region/syste construction should be clearly specified in ANNEX II. An annual increase in O&M expenses under a give	ology of allocation of corporate expenses to various uses pertaining to power generation/ transmission syste em and stations/ transmission region/system under CURE-VIII as provided here separately. en head in excess of 10% percent should be explained. ts, duly reconciled and certified. or pay hike/prior period adjustment / payment
	I. The details of Corporate Expenses and the method functional activities and allocation of Corporate exper to each operating stations/ transmission region/syste construction should be clearly specified in ANNEX II. An annual increase in O&M expenses under a give III. The data should be based on audited balance shee IV. Employee cost should be excluding arrears paid fo	ology of allocation of corporate expenses to various uses pertaining to power generation/ transmission syste em and stations/ transmission region/system under CURE-VIII as provided here separately. en head in excess of 10% percent should be explained. ts, duly reconciled and certified. or pay hike/prior period adjustment /payment r to the year 2017-18 should be mentioned separately.
	I. The details of Corporate Expenses and the method functional activities and allocation of Corporate exper to each operating stations/ transmission region/syste construction should be clearly specified in ANNEX II. An annual increase in O&M expenses under a give III. The data should be based on audited balance shee IV. Employee cost should be excluding arrears paid fo IV. Details of arrears, if any, pertaining to period prior	ology of allocation of corporate expenses to various uses pertaining to power generation/ transmission system ern and stations/ transmission region/system under CURE-VIII as provided here separately. en head in excess of 10% percent should be explained. ts, duly reconciled and certified. or pay hike/prior period adjustment /payment r to the year 2017-18 should be mentioned separately.
	I. The details of Corporate Expenses and the method functional activities and allocation of Corporate exper to each operating stations/ transmission region/syste construction should be clearly specified in ANNEX II. An annual increase in O&M expenses under a give III. The data should be based on audited balance shee IV. Employee cost should be excluding arrears paid for IV. Details of arrears, if any, pertaining to period prior V. No. of employees opting for VRS during each year	ology of allocation of corporate expenses to various uses pertaining to power generation/ transmission system em and stations/ transmission region/system under CURE-VIII as provided here separately. en head in excess of 10% percent should be explained. ts, duly reconciled and certified. or pay hike/prior period adjustment / payment r to the year 2017-18 should be mentioned separately. should be indicated.
	I. The details of Corporate Expenses and the method functional activities and allocation of Corporate exper to each operating stations/ transmission region/syste construction should be clearly specified in ANNEX II. An annual increase in O&M expenses under a give III. The data should be based on audited balance shee IV. Employee cost should be excluding arrears paid fo IV. Details of arrears, if any, pertaining to period prior V. No. of employees opting for VRS during each year VI. Details of abnormal expenses, if any, shall be furni VII Break-up of staff welfare expenses should be furni	ology of allocation of corporate expenses to various nees pertaining to power generation/ transmission syste em and stations/ transmission region/system under CURE-VIII as provided here separately. en head in excess of 10% percent should be explained. ts, duly reconciled and certified. or pay hike/prior period adjustment / payment r to the year 2017-18 should be mentioned separately. should be indicated. ished separately.
	I. The details of Corporate Expenses and the method functional activities and allocation of Corporate exper to each operating stations/ transmission region/syste construction should be clearly specified in ANNEX II. An annual increase in O&M expenses under a give III. The data should be based on audited balance shee IV. Employee cost should be excluding arrears paid fo IV. Details of arrears, if any, pertaining to period prior V. No. of employees opting for VRS during each year VI. Details of abnormal expenses, if any, shall be furni VII Break-up of staff welfare expenses should be furni VIII Details of Consumptive Water requirement , cont	ology of allocation of corporate expenses to various ases pertaining to power generation/ transmission system em and stations/ transmission region/system under CURE-VIII as provided here separately. en head in excess of 10% percent should be explained. ts, duly reconciled and certified. or pay hike/prior period adjustment / payment r to the year 2017-18 should be mentioned separately. should be indicated. shed separately. shed racted quantum and actual water consumed with source h were not claimed/allowed in the tariff should be
Notes:	I. The details of Corporate Expenses and the method functional activities and allocation of Corporate exper to each operating stations/ transmission region/syste construction should be clearly specified in ANNEX II. An annual increase in O&M expenses under a give III. The data should be based on audited balance shee IV. Employee cost should be excluding arrears paid fo IV. Details of arrears, if any, pertaining to period prior V. No. of employees opting for VRS during each year VI. Details of abnormal expenses, if any, shall be furni VII Break-up of staff welfare expenses should be furni VIII Details of Consumptive Water requirement , cont , rate etc. Should be furnished year-wise IX. Details of capital spares consumed each year whic	ology of allocation of corporate expenses to various heses pertaining to power generation/ transmission syste em and stations/ transmission region/system under CURE-VIII as provided here separately. en head in excess of 10% percent should be explained. ts, duly reconciled and certified. or pay hike/prior period adjustment / payment r to the year 2017-18 should be mentioned separately. should be indicated. shed separately. shed racted quantum and actual water consumed with source h were not claimed/allowed in the tariff should be nsumed.

Annexure-VI(B-II)

	Amexare-vi(b-ii)				
Detai	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			

			<u>Annexure-IX</u>
		wise Information requ	ured from Transmission Licensees
Name of Transmission Company:			Power Grid Corporation of India Limited
Nam	e of Transmission Region:		Western Region
	Table 1 Length		Lizza in Communical Operation
		(km) of Transmission	Lines in Commercial Operation
1	Status as on		1.4.2023
1	HVDC		0.00
	a) S/C		0.00
2	765 kV		
2	a) S/C		7142.84
	b) D/C		4633.17
			4000.17
3	765 kV Charged at 400 KV		
5	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
	220.1.1/		
6	220 kV		204 FC
	a) S/C b) D/C		<u>204.56</u> 557.00
	b) D/C		557.00
7	Up to 132 kV		
,	a) S/C		0.00
	b) D/C		0.00
		1	
	Tab	le-2-Ckt km by Condu	ctor Configuration
		Type of	0
		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
<u> </u>		Moose M/C	225.54
3	Triple	Snowbird D/C	3261.44

			<u>Annexure-IX</u>		
	Additional Region-wise Information required from Transmission Licensees				
Name	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		

			Annexure-IX
	Additional Regio	n-wise Information requ	ired 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
	U U U U U U U U U U U U U U U U U U U	AAAC Zebra S/C	204.56
	Grand	Fotal	47789.56
	Table-3- N	umber of AC Substation	s in Commercial Operation
	Status as o	n	1.4.2023
1	765 kV		21
2	400 kV		25
3	220 kV		0
4	Up to 132 kV		0
			rs in Commercial Operation
4	Status as o	n	1.4.2023
1	HVDC		137
2	765 kV		337
3	400 kV		652
4	220 kV		<u> </u>
5	Up to 132 kV		0
	Tahl	e-5- Cost of Outsourcing	of Services (Rs. lakh)
	Status as o		1.4.2023
1	Substation O&M		2568.04
2	Lines O&M		837.95
3	Security		4439.28
4	Others		553.98
	Grand	Fotal	8399.24
	Table-6- Total O&M Exp	enditure Including RHQ	, but Excluding HVDC Stations (Rs lakh)
	Status as o		1.4.2023
1	O&I		109259.38
	Tota	l	109259.38

	Annexure-X			
Station wise O&M Expenditu	re 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				

	<u>Annexure-XI</u>					
Additional Region-wise Information requir	ed 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 syste						
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 S	ervices					
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					

				Annexure-XIIIC
Au	xiliary Co	nsumption separately for 13		765kV AC and HVDC
			on Separately	
Name	of Transn	nission Company:	Power Grid Corpor	ation of India Limited
	Name of [Transmission Region:	Wester	n Region
S.no	Voltage	Name of Substation	20	22-23
			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	_

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	
Au	Auxiliary Consumption separately for 132kV, 220kV, 400kV & 765kV AC and HVDC				
		Substatio	on Separately		
Name	Name of Transmission Company:Power Grid Corporation of India Limited				
	Name of '	Transmission Region:	Wester	n Region	
40	400	Kala GIS	0.339	-	

Annexure-XIIIC

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

Substation Separately					
Name	Name of Transmission Company:Power Grid Corporation of India Limited				
Name of Transmission Region:		Wester	n Region		
41	400	Magarwada GIS	0.525	-	
42	400	Boisar	0.840	-	
43	3 765 Vindhyachal		0.620	-	
44	765 Vadodara GIS		0.602	-	
45	5 400 Betul GIS		0.572	-	
46	6 400 Rewa		0.185	_	
47	47 765 Banaskantha		0.999	-	
48	765	Bhuj	0.763	_	
49	400	Vav	0.468	-	

Details of incidental Expenses

<u>Annexure-XVI</u> s During Construction (IEDC) including compensation, employee expenses and other expenses for assets acieveing COD post 01.04.2017:

	expenses for assets acleveing COD post 01.04.2017:							
-	e of Transmission Company:	Power Grid Corporation of India Limited						
Nam	e of Transmission Region:				estern Regio			
S1. No.	Name of Scheme	Sub-station (S/s)/ Transmission Line (TL)	MVA/ Line Length (km)	Compensatio n (Forest, crop, Tree, PTCC)	Employee Expenses	Administr ative & 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		
	Reconductoring of 400 kV D/C (Twin Moose) Kolhapur (PG)- Kolhapur (MSETCL) Circuit 1 with	TL			100.21	159.07		
5.	HTLS conductor	SS			4.61	7.32		
	Connectivity and LTA for 325 MW Wind Projects of M/s SBESS Services Projects Pvt Ltd	SS				56.98		
	WRSS XXIII	SS				34.07		
	Transmission System for Connectivity of Essar Power Gujarat Limited	TL				1958.85		
	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		
	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		
	ICT Augmentation at 2x315 MVA 400/220 KV Shujalpur (PG) Substation	SS				78.74		
	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		

				<u>Annexure-XVI</u>
	1		Cost of Transmission Line	
				rid Corporation of India Limited
Name o	of Transmission	Region:		Western 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	_
		b) D/C	0.00	_
		400 kV		-
		a) S/C	0.00	-
		b) D/C	0.00	-
		c) M/C	0.00	 Data separately not available/
		d) D/C on M/C	0.00	maintained
		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	
			0.00	1
		Up to 132 kV		1
		a) S/C	0.00	
		b) D/C	0.00	

	Annexure-XVII							
		Details	of Capital Cost of	f Transmission	n Line			
Name of	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				
		400kV	1500	9				
		220kV		6	Data separately not available/ maintained			
		132kV			1	mantanieu		
		HVDC		0	1			