

[C.S.P.T.C.L.]

Final True-up of ARR for FY 2020-21,
&
MYT Petition for 4th MYT Control Period
(FY 23 to 25)

Submitted to
Chhattisgarh State Electricity Regulatory Commission

December' 2021

**CHHATTISGARH STATE POWER TRANSMISSION COMPANY LIMITED,
RAIPUR**

(A Government of Chhattisgarh Undertaking)

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CHHATTISGARH STATE POWER TRANSMISSION COMPANY LIMITED, RAIPUR
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Ref:

Dated:

To,

The Secretary,

Chhattisgarh State Electricity Regulatory Commission,

Irrigation Colony, Shanti Nagar,

Raipur, Chhattisgarh - 492 001

Dear Sir,

Sub: **Submission of petition for Final True-up of ARR for FY 2020-21 and MYT Petition for 4th MYT Control Period (FY 2022-23 to FY 2024-25)**

In exercise of its powers conferred under section 61 of the Electricity Act, 2003, the Hon'ble Commission has issued the CSERC (Terms and Conditions for determination of tariff according to Multi-Year Tariff principles and Methodology and Procedure for determination of Expected revenue from Tariff and Charges) Regulations, 2015 for the MYT control period from FY 2016-17 to FY 2020-21.

In compliance, CSPTCL is herewith submitting the petition for approval of final true-up of ARR for FY 2020-21 according to Multi-Year Tariff principles and Methodology and Procedure for determination of Expected revenue from Tariff and Charges) Regulations, 2015 and MYT Petition for 4th MYT Control Period (FY 2022-23 to FY 2024-25) according to Multi-Year Tariff principles and Methodology and Procedure for determination of Expected revenue from Tariff and Charges) Regulations, 2021 respectively for consideration of the Hon'ble Commission. The following documents are enclosed herewith for kind perusal and approval by the Hon'ble Commission:

1. Formal Petition, Formats and Affidavit verifying the petition along with authorization.
2. Petition Fee

We request the Hon'ble Commission to kindly admit the aforesaid petition and proceed further in the matter at the earliest. We would also request the Hon'ble Commission to kindly provide us an opportunity of personal hearing to further clarify/explain our submissions in the enclosed petition and additional submissions in the matter in due course of regulatory process in the matter of petition, if required.

Yours Faithfully,

For Chhattisgarh State Power Transmission Company Limited, Raipur

(Authorized Signatory)

Chief Engineer (Commercial and Regulatory Affairs)

Enclosed: As above

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**BEFORE THE CHHATTISGARH STATE ELECTRICITY REGULATORY
COMMISSION, RAIPUR**

Filing No _____

Case No _____

IN THE MATTER OF:

Filing of the petition for approval of final true-up of ARR for FY 2020-21 and proposal of ARR of Multi Year Tariff Period from FY 2022-23 to FY 2024-25 and Application for determination of tariff and fees and charges for FY 23 under Section 62 and 64 of the Electricity Act, 2003

AND

IN THE MATTER OF:

Chhattisgarh State Power Transmission Company Limited (hereinafter referred as “CSPTCL” or “**the Petitioner**” or Applicant)

The Applicant respectfully submits as under: -

1. The Petitioner is a transmission licensee in the areas as notified by the Government of Chhattisgarh (GoCG) under the CSEB Transfer Scheme Rules, 2010
2. The Petitioner submits that the Hon'ble Commission has issued the following regulations namely, CSERC (Terms and Conditions for determination of tariff according to Multi-Year Tariff principles and Methodology and Procedure for determination of Expected revenue from Tariff and Charges) Regulations, 2015 for the MYT control period from FY 2016-17 to FY 2020-21 (hereinafter referred to as “MYT Regulations, 2015”) and CSERC (Terms and Conditions for determination of tariff according to Multi-Year Tariff principles and Methodology and Procedure for determination of Expected revenue from Tariff and Charges) Regulations, 2021 (hereinafter referred as “CSERC MYT Regulations, 2021”).
3. The said regulations are applicable to power generating stations, transmission system, SLDC and distribution system where in determination of tariff for generation, transmission, SLDC, retail or wheeling is not being determined under section 63 of the Electricity Act 2003 through transparent process of competitive bidding in accordance with the guidelines issued by the Central Government
4. The Petitioner is accordingly filing this petition for approval of final true-up of ARR for FY 2020-21 and proposal of ARR of Multi Year Tariff for FY 2022-23 to FY 2024-25.
5. As per MYT, Regulations 2021, Multi Year tariff in respect of CSPTCL for the next control period from FY 2022-23 to FY 2024-25 is to be submitted before Hon'ble CSERC till 30th November' 2021.
6. As per request of CSPTCL, Hon'ble CSERC vide order no. 03/CSERC/ Tariff/ 27/ 2021/ 1670 dated 04.12.2021 has granted the liberty to CSPTCL to submit Multi Year tariff in respect of CSPTCL up to 31.12.2021.
7. CSPTCL accordingly submits that the present petition is being filed within the above provisions of MYT Regulations 2015 and MYT Regulations 2021.

Date:

Petitioner
Chief Engineer (Commercial & Regulatory Affairs)
CSPTCL, Raipur

NOTES AND ABBREVIATIONS

In this Petition:

- ✓ ***Fourth Control Period is defined as Financial Year 2022-23, 2023-24 & 2024-25 herein referred to as FY 2022-23, FY 2023-24 and FY 2024-25***
- ✓ ***Ensuing Year is defined as Financial Year 2022-23, FY 2023-24 and FY 2024-25***
- ✓ ***Current Year is defined as Financial Year 2021-22 or FY 22***
- ✓ ***Previous Year is defined as Financial Year 2020-21 or FY 21***
- ✓ ***All currency figures used in this Petition, unless specifically stated otherwise, are in Rs. Crores.***

Abbreviation	Full Description
APR	Annual Performance Review
ARR	Aggregate Revenue Requirement
ATE	Appellate Tribunal for Electricity
CERC	Central Electricity Regulatory Commission
PGCIL	Power Grid Corporation India Limited
CGS	Central Generating Stations
Ckt – kms	Circuit Kilometres
Co-gen	Cogeneration Power Plant
CPP	Captive Power Plant
CSEB	Chhattisgarh State Electricity Board
CSERC	Chhattisgarh State Electricity Regulatory Commission
CSPDCL	Chhattisgarh State Power Distribution Company Limited
CSPGCL	Chhattisgarh State Power Generation Company Limited
CSPTCL	Chhattisgarh State Power Transmission Company Limited
CSPTdCL	Chhattisgarh State Power Trading Company Limited
CWIP	Capital Work In Progress
EA - 2003	The Electricity Act 2003
FY	Financial Year
GFA	Gross Fixed Assets
GoCG	Government of Chhattisgarh
GoI	Government of India
HT	High Tension

Abbreviation	Full Description
HV	High Voltage
IDC	Interest During Construction
IPP	Independent Power Project
kV	Kilo Volt
LT	Low Tension
LV	Low Voltage
MoP	Ministry of Power, Government of India
MU	Million Units
PLR	Prime lending rate
GFA	Gross Fixed Assets
MYT	Multi Year Tariff
NCE / NCES	Non-Conventional Energy Sources
SEB	State Electricity Board
SGS	State Generating Stations
S/s	Sub-Station
TO	Tariff Order
SLDC	State Load Dispatch Centre
SOC, MOC	System Operation Charges, Market Operation Charges
STOA	Short Term Open Access
WRPC	Western Region Power Committee

1: BACKGROUND

- 1.1 Chhattisgarh State Electricity Board became functional w.e.f 1.12.2000. Chhattisgarh State Electricity Board (CSEB) was earlier a part of the erstwhile Madhya Pradesh Electricity Board (MPEB) till 2000. It became a separate entity with the formation of the State of Chhattisgarh. The board functioned as unified entity till December 2008 when the State Government notified a transfer scheme for unbundling it. The transfer scheme resulted in the formation of five successor entities for undertaking the functions of the erstwhile board. Chhattisgarh State Power Transmission Company Limited (CSPTCL) is one of the five successor entities, formed for undertaking the 'Transmission Function' of CSEB. CSPTCL started its operations on 1st January 2009.
- 1.2 The Hon'ble Commission by exercising its powers conferred under Section 61 and 62 read with Section 181(2) and Section 32 (3) of the Electricity Act 2003 has issued CSERC (Terms and Conditions for determination of tariff according to Multi-Year Tariff principles and Methodology and Procedure for determination of Expected revenue from Tariff and Charges) Regulations, 2015 for the MYT Control Period from FY 2016-17 to FY 2020-21 and MYT Regulations' 2021.
- 1.3 It is submitted that the final true-up of ARR for FY 2020-21 and MYT Petition for 4th Control Period are being filed in accordance with the provisions of MYT Regulations, 2015, audited accounts for FY 2020-21 and MYT Regulations, 2021 for 4th MYT Control Period FY 2022-23 to FY 2024-25.
- 1.4 Further, the Hon'ble Commission in its MYT Regulations, 2015 has directed the licensees to file true-up of the previous year and determination of revenue gap/surplus for the ensuing year. The relevant clauses of MYT Regulations 2015 are reproduced below. As per clause 10.2 & 10.3 –
- “10.2 The STU/transmission licensee shall file application for truing up of the previous year and determination of revenue gap/surplus for the ensuing year, within the time limit specified in these Regulations. Provided that the generating company or STU/transmission licensee or distribution licensee or SLDC, as the case may be, shall submit to the Commission information in such form as may be prescribed by the Commission, together with the Audited Accounts duly certified by the Auditor, extracts of books of account and such other details as the Commission may require to assess the reasons for and extent of any variation in financial performance from the approved forecast of Aggregate Revenue Requirement and expected revenue from tariff and charges.*
- 10.3 In case the audited accounts are not available, the provisional truing up shall be done on the basis of un-audited / provisional account and shall be subject to further final truing up, as soon as the audited accounts are available.”*
- 1.5 In accordance with the above, the final true-up of ARR for FY 2020-21 and MYT Petition for 4th Control Period from FY 2022-23, FY 2023-24 and FY 2024-25 is being filed before the Hon'ble Commission.

2: REGULATORY REQUIREMENT OF FILING OF THIS TARIFF PETITION

Regulations

2.1 This petition is based on the following regulations notified by the Chhattisgarh State Electricity Regulatory Commission (CSERC):

- I. CSERC (Terms and Conditions for determination of tariff according to Multi-Year Tariff principles and Methodology and Procedure for determination of Expected revenue from Tariff and Charges) Regulations, 2015 - Applicable for Control Period from FY 2016-17 to FY 2020-21;*
- II. CSERC (Terms and Conditions for determination of tariff according to Multi-Year Tariff principles and Methodology and Procedure for determination of Expected revenue from Tariff and Charges) Regulations, 2021.*

2.2 The MYT Regulations, 2015 have been referred to for final true-up of ARR for FY 2020-21 and MYT Regulations, 2021 for MYT Petition for 4th Control Period.

Multi Year Tariff (MYT) Order and True-up Order for FY 2019-20

- 2.3 The Commission issued the last tariff order dated 02nd August' 2021 on true-up of ARR for FY 2019-20 based on the audited accounts for FY 2019-20. The final true-up of ARR for FY 2020-21 is being submitted by comparing the actual performance based on the audited accounts with the values as approved in this tariff order.
- 2.4 The Commission had issued the Multi Year Tariff (MYT) order for 3rd MYT Control Period from FY 2016-17 to FY 2020-21 on 30th April 2016 and the final true-up of ARR for FY 2020-21 had been carried out by comparing actual performance with the values as approved in the MYT tariff order.
- 2.5 There were certain instructions/advices/directions issued by the Commission in the above MYT Order dated 30th April 2016 and in the subsequent tariff orders. CSPTCL has made its best efforts to ensure compliance to these instructions/advices/directions issued by the Commission and has structured its current petition accordingly to capture the maximum information as desired by the Commission from time to time.

3: METHODOLOGY ADOPTED IN FILING OF THIS PETITION (INCLUDING CONSTRAINTS)

Methodology

- 3.1 The Petitioner is submitting the final true-up of ARR for FY 2020-21 based on the audited accounts and MYT Petition for 4th Control Period FY 2022-23 to FY 2024-25. It consists of details of actual expenditures made by CSPTCL and details of revenue received leading to actual revenue gap incurred from April 2020 to March 2021. The final true-up of ARR for FY 2020-21 and MYT Petition for 4th Control Period is in accordance with the provisions of the MYT Regulations 2015 and MYT Regulations 2021.
- 3.2 The final true-up of ARR for FY 2020-21 is being submitted on the basis of the audited accounts. It consists of details of actual expenditures made by CSPTCL and details of revenue received leading to actual revenue gap incurred from April 2020 to March 2021. The true-up of ARR for FY 2020-21 is also a measure of accounting gains/losses and expenditures incurred in carrying out the electricity transmission business during FY 2020-21.
- 3.3 The Petitioner has proposed the final true-up of ARR for FY 2020-21 and MYT Petition for 4th Control Period. The Petitioner humbly requests the Hon'ble Commission to approve final true-up of ARR for FY 2020-21 and MYT Petition for 4th Control Period FY 2022-23 to FY 2024-25.
- 3.4 In accordance with the applicable regulations, expenses and income have been considered while carrying out the final true-up of ARR for FY 2020-21 and MYT Petition for 4th Control Period.

4: FINAL TRUE-UP OF ARR FOR FY 2020-21

- 4.1 This chapter has in detail, the true-up of ARR for FY 2020-21. The following sections explain in detail the various elements of ARR and consequent revenue gap/(surplus) for true-up of ARR for FY 2020-21.
- 4.2 Determination of Aggregate Revenue Requirement by validating the actual figures taken from the audited accounts of the following costs, other income & returns:
- i. Employee Cost
 - ii. Repairs & Maintenance Cost
 - iii. Administrative & General Expenses
 - iv. Contribution to Pension & Gratuity Fund
 - v. Interest Cost
 - vi. Interest on Working Capital
 - vii. Depreciation
 - viii. Return on Equity
 - ix. Net Prior Period Expenses/(Credit)/Other Debits
 - x. Non-Tariff Income

Technical Parameters

- 4.3 CSPTCL would like to submit that the physical status of transmission system as on 31st March 2021 (including the details of transmission lines, number of substations and their capacity) is as follows:

Table 1 Overview of Transmission Lines as on 31st March 2021

Particulars	Transmission Lines (Circuit Km.) till 31.03.2020	Addition in FY 2020-21	Total Transmission Lines (Circuit Km.)
400 kV lines	1918	0	1918
220 kV lines	4032	0	4032
132 kV lines	6802	390	7192

Particulars	Transmission Lines (Circuit Km.) till 31.03.2020	Addition in FY 2020-21	Total Transmission Lines (Circuit Km.)
Total Transmission Lines	12752	390	13142

Table 2: Overview of Transmission Substations as on 31st March 2021

Particulars	No. of Substations till 31.03.2020	Addition in FY 2020-21	Total No. of Substations till 31.03.2021	Power Transformer Capacity (MVA)
400 kV	4	0	4	2835
220 kV	25	0	25	8660
132 kV	92	2	94	9079
Total	121	2	123	20574

Transmission Loss

- 4.4 CSPTCL would like to submit that on the basis of the actual reading of the energy meters installed at the various points of the state's periphery, the actual transmission loss for FY 2020-21 is 3.09% as against the approved loss of 3.22% for FY 2020-21 in the MYT order dated 30th April 2016. The detailed computation of the same has been provided below:

Table 3: Transmission Loss for FY 2020-21

Sr. No	Particulars	FY 2020-21
1	State Generation Ex-Bus at 132 KV and above (MU)	17405.56
2a	Import from CTU Grid at CG Periphery at 132 kV and above (MU)	17532.86
2b	Export to CTU Grid at CG Periphery at 132 kV and above (MU)	7881.27
2	Net Drawl from CTU Grid at CG Periphery at 132 kV and above (MU)	9651.60
3	IPPs/CPP Injection in CSPTCL System at 132 KV & above (MU)	1067.82
4	Total Injection at State Grid of STU (MU) (1+2+3)	28124.98
5	EHV Sales from Sub Station (MU)	2390.86
6	Net Output to DISCOM (MU)	24867.24
7	Total Output from CSPTCL System (MU) (7= 5+6)	27258.10
8	Transmission Loss (MU) (8=4-7)	866.88
9	Transmission Loss (%) (9 =8/4*100)	3.09%

4.5 The monthly consumption in MU from April 2020 to March 2021 for the heads shown in the above table for actual injection of power in MU by generators (CGS, SGS, CPP's/IPP's), EHV Sales on Account of CSPDCL, JMR Readings, Transmission Loss details etc. are provided in **Annexure 1 to 6**.

4.6 CSPTCL requests the Hon'ble Commission to kindly consider the actual transmission loss of 3.09 % for FY 2020-21.

Transmission System Availability Factor (TSAF)

4.7 CSPTCL would like to submit that continuing its legacy of better performance, it has achieved Transmission System Availability Factor (TSAF) of 99.79 % as shown below:-

Table 4: Monthly Transmission System Availability Factor (TSAF) for FY 2020-21

Sr. No	Month	AFM in %		
		132 kV	220 kV	400 kV
1	April -20	99.91	99.88	99.62
2	May-20	99.82	99.67	99.48
3	June- 20	99.99	99.72	99.68
4	July- 20	99.88	99.78	99.60
5	Aug- 20	99.87	99.88	99.78
6	Sep-20	99.85	99.78	99.85
7	Oct-20	99.91	99.74	99.50
8	Nov-20	99.76	99.72	99.94
9	Dec-20	99.71	99.83	99.81
10	Jan-21	99.86	99.89	99.79
11	Feb-21	99.87	99.77	99.87
12	Mar-21	99.92	99.83	99.66
13	Average	99.86	99.79	99.71

Table 5: Annual Average Transmission System Availability Factor (TSAF) for FY 2020-21

Sr. No	Particulars	Normative(%)	Voltage Level	Achieved(%)
1	Transmission System Availability Factor (TSAF)	99%	400 kV	99.71
			220kV	99.79
			132kV	99.86
			Average	99.79

4.8 The incentive/penalty eligible to the Petitioner on account of TSAF has been discussed separately later in the petition.

4.9 It is to be submitted here that the above TSAF has been verified and certified by SLDC.

Gross Fixed Assets (GFA)

4.10 The Hon'ble Commission in its MYT order for the control period from FY 2016-17 to FY 2020-21 dated 30th April 2016 had approved the methodology for determination of capital structure of GFA into consumer contribution, debt and equity. CSPTCL would like to submit that the capital structure for FY 2020-21 has been determined based on the following:

- Opening CWIP of Rs. 524.41 Crores for FY 2020-21 has been considered equal to the closing CWIP for FY 2019-20 as per the true-up of ARR for FY 2019-20
- Closing CWIP of Rs. 494.93 Crores has been considered as per the audited accounts for FY 2020-21
- The actual loan addition of Rs. 25.07 Crores has been considered as per the audited accounts for FY 2020-21
- GFA addition of Rs. 339.43 Crores (net of GFA addition for SLDC) has been considered as per the audited accounts for FY 2020-21
- Assets generated on account of consumer contribution/ grants has been taken as NIL being considered its value as Rs.1 only as per accounting standard
- The normative debt: equity ratio has been considered as 70:30 for additional capitalisation during the year as per the MYT Regulations, 2015

4.11 The Capital Structure submitted by the Petitioner for FY 2020-21 is as follows:

Table 6: Capital Structure for FY 2020-21 (Rs. Crores)

Sr. No.	Particulars	FY 2019-20 (True- Up order dated 2.08.2021)	FY 2020-21 (Based on final accounts)
A	GROSS FIXED ASSETS (GFA)		
1	Opening GFA	4,699.69	5,096.45
2	Opening CWIP	653.43	524.41
3	Opening Capex	5,353.11	5,620.86
4	Capitalisation during the Year	396.76	339.43
5	Closing GFA	5,096.45	5,435.88

Final True-up of ARR for FY21 and MYT Petition for 4th MYT Control Period

Sr. No.	Particulars	FY 2019-20 (True- Up order dated 2.08.2021)	FY 2020-21 (Based on final accounts)
6	Closing CWIP	524.41	494.93
7	Closing Capex	5,620.86	5,930.81
B	GRANTS & CONSUMER CONTRIBUTION		
1	Opening Grant and Contribution	101.56	109.54
2	Consumer Contribution/Grants during the Year	7.98	0.00
3	Closing Consumer Contribution	109.54	109.54
4	Consumer Contribution in Opening GFA	46.06	54.04
5	Consumer Contribution in Closing GFA	54.04	54.04
C	LOAN BORROWED		
1	Opening Borrowed Loan	2,585.33	2,753.37
2	Loan Borrowed during the Year	168.05	25.07
3	Closing Borrowed Loan	2753.37	2778.44
4	Borrowed Loan in Opening GFA	3,054.01	3,326.16
5	Borrowed Loan in Closing GFA	3,326.16	3,563.76
D	EQUITY		
1	Opening Gross Equity	2,666.23	2,757.95
2	Equity addition during the Year	91.72	284.88
3	Closing Gross Equity	2,757.95	3,042.83
4	Gross Equity in Opening GFA	1,599.62	1,716.25
5	Gross Equity in Closing GFA	1,716.25	1,818.08
6	Average Gross Equity during the year	1,657.94	1,767.17
E	PERMISSIBLE EQUITY		
1	Permissible Equity in Opening GFA	1,222.50	1,339.13
2	Permissible Equity in Closing GFA	1,339.13	1,440.96
3	Average Gross Permissible Equity during the year	1,280.82	1,390.05
F	NORMATIVE LOAN		
1	Opening Normative Loan	377.12	377.12
2	Closing Normative Loan	377.12	377.12
3	Average Normative Loan	377.12	377.12

4.12 The means of finance for the GFA addition during FY 2020-21 is as shown below:

Table 7: Means of Finance for addition in GFA for FY 2020-21 (Rs. Crores)

Sr. No	Particulars	FY 2020-21
1	GFA Addition in FY 2020-21	339.43
2	Means of Finance	
a	Consumer Contribution	0.00
b	Equity (30%)	101.83
c	Debt (70%)	237.60

4.13 CSPTCL would like to submit that assets Rs. 339.43 Crores created during the FY 2020-21 is a part of GFA mentioned in Audited Account of FY 2020-21 which excludes asset created due to consumer contribution/ grant.. However as per Audited Accounts it is reflected that grants received by PSDF during FY 2020-21 is Rs. 12.27 Crores. The amount received from grants has not been converted in assets till date and as per accounting practise assets created due to consumer contribution is taken as Re. 1 irrespective of actual value of asset.

4.14 The Hon'ble Commission is requested to approve capital structure and means of finance including GFA addition for FY 2020-21 as per the calculation provided in the above tables.

Depreciation

4.15 CSPTCL would like to submit that it has calculated depreciation as per Regulation 24 of MYT Regulations 2015. The Regulation states that:

"24.1 The value base for the purpose of depreciation shall be the capital cost of the asset admitted by the Commission:

Provided that the capital cost shall not include funds from grant or consumer contribution or deposit works received for funding of fixed asset as specified in Regulation 21.

24.2 The salvage value of the asset except for IT equipment's and software used for SLDC business shall be considered as 10% and depreciation shall be allowed up to maximum of 90% of the capital cost of the asset.

Provided that, the salvage value for IT equipment's and Software shall be considered as NIL and 100% value of the assets shall be considered depreciable.

24.3 Land other than the land held under lease and the land for reservoir in case of hydro generating station and the land for ash-bund for thermal power stations shall

not be a depreciable asset and its cost shall be excluded from the capital cost while computing depreciable value of the asset.

24.4 Depreciation shall be calculated annually based on Straight Line Method and at rates as specified in Appendix-I to these regulations for the assets of the generating station, transmission system, distribution system and SLDC:

Provided that the remaining depreciable value as on 31st March of the year closing after a period of 15 years from date of commercial operation shall be spread over the balance useful life of the assets;

In case of the existing projects, the balance depreciable value as on 01.04.2016 shall be worked out by deducting the cumulative depreciation as admitted by the Commission up to 31.03.2016 from the gross depreciable value of the assets.

Provided that in those cases where the capital investment plan has been approved by the Commission and the depreciation rates as provided in these Regulations are insufficient for the repayment of loan, the rate of depreciation shall be decided by the Commission at the time of issuance of tariff order, subject to prudence check.

24.5 Till the separate SLDC Company is notified by the State Government, the depreciation shall be calculated as applicable for the STU under this Regulations;

Provided further the balance depreciable value as on the date of transfer shall be worked out by deducting the cumulative depreciation from the gross depreciable value of the assets appearing in the books of accounts of the SLDC for the SLDC as on the date of transfer.

24.6 Depreciation shall be chargeable from the first year of commercial operation. The depreciation shall be computed on the average asset base during the year:

Provided for the new generating station or unit, the depreciation shall be charged on prorata basis during the year the asset has been declared under commercial operation. For subsequent years, the depreciation shall be computed on the average asset base during the year”

- 4.16 CSPTCL, while calculating the depreciation for FY 2020-21 has followed the methodology specified in the aforesaid Regulation as well as the methodology considered by the Hon'ble Commission in the past and has computed the depreciation as follows:

Table 8: Depreciation for FY 2020-21 (Rs. Crores)

Sr. No	Particulars	FY 2019-20	FY 2020-21	
		(True- Up order dated 02.08.2021)	MYT order dt. 30.04.2016 further revised order dated 30.05.2020	Final True-up
1	Opening GFA excluding SLDC	4699.69	5,028.47	5,096.45
2	Add: Additional capitalization during the year	396.76	62.35	339.43
3	GFA at the end of the year excluding SLDC	5096.45	5,090.82	5,435.88
4	Average GFA for the year	4898.07	5,059.65	5,266.17
5	Depreciation Rate	5.26%	5.25%	5.26%
6	Depreciation @ rates as per applicable Regulation	257.55	265.63	277.00
7	Opening consumer contribution		46.06	54.04
8	Addition: consumer contribution during the year	-	-	
9	Closing consumer contribution	46.06	46.06	54.04
10	Average consumer contribution	54.04	46.06	54.04
11	Less: Depreciation on consumer contribution on live assets	2.63	2.42	2.84
12	Less: Depreciation on fully depreciated assets	22.92	23.14	25.03
13	Net Depreciation	232.00	242.12	249.12

4.17 Thus, CSPTCL would like to request the Hon'ble Commission to approve depreciation of Rs. 249.12 Crores for final true-up of ARR for FY 2020-21 as detailed above.

Interest on Loan

4.18 CSPTCL would like to submit that it has computed Interest and Finance Charges as per Regulation 23 of the MYT Regulations, 2015. The Regulation states that:

23.1. The loans arrived at in the manner indicated in Regulation 17 shall be considered as gross normative loan for calculation of interest on loan.

23.2. The normative loan outstanding as on 01.04.2016 shall be worked out by deducting the cumulative repayment as admitted by the Commission up to 31.03.2016 from the gross normative loan.

23.3. The repayment for the year of the tariff period shall be deemed to be equal to the depreciation allowed for that year.

23.4. Notwithstanding any moratorium period availed by the generating company or the licensee, as the case may be the repayment of loan shall be considered from the first year of commercial operation of the project and shall be equal to the annual depreciation allowed.

23.5. The rate of interest shall be the weighted average rate of interest calculated on the basis of the actual loan portfolio at the beginning of each year applicable to the project;

Provided that if there is no actual loan for a particular year but normative loan is still outstanding, the last available weighted average rate of interest shall be considered:

Provided further that if the generating station or the licensee, as the case may be, does not have actual loan, then the weighted average rate of interest of the generating company or the licensee as a whole shall be considered:

Provided further, in case of new generating station or the licensee commencing its operation after the date of effectiveness of these Regulations, and which don't have actual loan portfolio, the rate of interest shall be considered on normative basis and shall be equal to the Base rate of State Bank of India plus 200 basis points as on the date on which the generating station or a unit thereof or the transmission system or the distribution licensee, as the case may be, is declared under commercial operation.

23.6. The interest on loan shall be calculated on the normative average loan of the year by applying the weighted average rate of interest.

23.7. The above interest computation shall exclude interest on loan amount, normative or otherwise, to the extent of capital cost funded by consumer contribution, grants or deposit works carried out by transmission licensee or distribution licensee or generating company, as the case may be.

23.8. The generating company or SLDC or the licensee, as the case may be, shall make every effort to re-finance the loan as long as it results in net savings on interest and in that event the costs associated with such re-financing shall be borne by the beneficiaries and the net savings shall be shared between the beneficiaries and the generating company or the STU or the transmission licensee, as the case may be, in the ratio of 2:1.

Provided in case of SLDC, this provision shall be applicable only to those intra-State entities who are availing long-term services of SLDC.

23.9. Provided that the beneficiary shall not withhold any payment on account of the interest claimed by the generating company or the licensee during the pendency of any dispute arising out of re-financing of loan.

23.10. The changes to the terms and conditions of the loans shall be reflected from the date of such re-financing.

23.11. In case of distribution licensee, the interest paid on security deposit (cash) to the consumers shall be allowed as a part of the Interest and Finance charges under these regulations.

4.19 The actual loan details as per the accounts for FY 2020-21 are as follows:

Table 9: Loan Details for FY 2020-21 (Rs. Crores)

Sr. No.	Particulars	Opening Loan	Addition	Repayment	Closing Loan	Avg.	RoI
1	PFC	668.94	0.00	98.22	570.73	619.83	10.64%
2	SBI	89.95	0.00	10.77	79.19	84.57	8.10%
3	REC	673.01	25.07	6.43	691.65	682.33	9.50%
4	Total	1,431.90	25.07	115.41	1,341.56	1,386.73	9.76%

Note: -The rate of interest has been computed on the actual loan portfolio at the beginning of the year and therefore has been considered as 9.76%

4.20 CSPTCL would like to submit that it has considered the opening normative loan balance for true-up of ARR for FY 2020-21 equal to the closing normative loan balance for FY 2019-20 as per the submission of the Petitioner based on the audited accounts for FY 2019-20 (true-up based on audited accounts for FY 2019-20). The debt component of 70% of the GFA addition during FY 2020-21 has been considered as the normative loan addition during the year. The allowable depreciation for the year as calculated above has been considered as the normative repayment for the year. The rate of interest has been computed in accordance with Regulation 23.5 i.e. as the weighted average rate of interest on the basis of the actual loan portfolio at the beginning of the year. The actual weighted average interest rate of 9.76% has been considered for computation of the interest on loan for FY 2020-21.

Table 10: Interest on Loan for FY 2020-21 (Rs. Crores)

Sr. No	Particulars	FY 2019-20	FY 2020-21	
		(True- Up order dated 02.08.2021)	MYT order dt. 30.04.2016 further revised order dated 30.05.2020	Final True-up
1	Total Opening Net Loan	1933.83	1883.41	1,973.98
2	Repayment during the period	232.00	242.12	249.12
3	Additional Capitalization of Borrowed Loan during the year	272.15	43.65	237.60
4	Total Closing Net Loan	1973.98	1684.97	1,962.46
5	Average Loan during the year	1953.91	1784.20	1,968.22
6	Weighted Average Interest Rate	10.02%	10.86%	9.76%
7	Bank Charges			0.20
8	Interest Expense for the Period	195.75	198.77	192.26

4.21 Thus, CSPTCL requests the Hon'ble Commission to approve Interest on Loan of Rs.192.26 Crores for final true-up of ARR for FY 2020-21 as detailed above.

Return on Equity (RoE) and Income Tax

4.22 Petitioner submits that it has computed Return on Equity as per Regulation 22 of the MYT Regulations, 2015. The Regulation states that:

*22.1. **Generation, Transmission and SLDC:** Return on equity shall be computed in rupee terms on the equity base determined in accordance with Regulation 17. Return on equity shall be computed on pre-tax basis at the base rate of 15.50% to be grossed up as per Regulation 22.3 of these Regulations.*

22.3. The rate of return on equity for each year of the control period shall be computed by grossing up the base rate with the prevailing MAT rate of the base year: Provided that return on equity with respect to the actual tax rate applicable to the generating company or the transmission licensee or distribution licensee, as the case may be, in line with the provisions of the relevant Finance Acts of the respective year during the Control Period shall be trued up separately for each year of the Control Period. In case, no tax is payable during the financial year, the tax rate for the purpose of truing up shall be taken as nil.

Rate of return on equity shall be rounded off to three decimal points and be computed as per the formula given below:

Rate of pre-tax return on equity = Base rate / (1-t)

Where, 't' is the applicable tax rate in accordance with regulation 22.3 of these regulations.

Provided that if there is a loss incurred by the generating company or the transmission licensee or distribution licensee or SLDC, as the case may be, in the previous year and based on the prudence check made by the Commission, the Minimum Alternate Tax may not be considered in such a case while determining the return on equity.

- 4.23 CSPTCL would like to submit that it has filed Current Tax for FY 2020-21 for Rs. 1.98 Crores as per the audited accounts and requests the Hon'ble Commission to approve Rs.1.98 Crores for tax expense separately.
- 4.24 The closing permissible equity balance of FY 2019-20 (as submitted for true-up of FY 2019-20 based on final accounts) has been considered as the opening permissible equity balance for true-up of ARR for FY 2020-21.
- 4.25 Equity addition during FY 2020-21 has been considered as 30% of the actual capitalisation during the year.
- 4.26 Considering the above, CSPTCL would like to submit that it has computed Return on Equity as per Regulation 22 of the MYT Regulations, 2015 using the base rate of Return on Equity of 15.50% (without grossing up by MAT rate of 20.96%) and Rs. 1.98 Crores tax expense separately due to actual tax paid during the year.

Table 11: Return on Equity for FY 2020-21 (Rs. Crores)

Sr. No	Particulars	FY 2019-20	FY 2020-21	
		(True- Up order dated 02.08.2021)	MYT order dt. 30.04.2016 further revised order dated 30.05.2020	Final True-up
1	Permissible Equity in Opening GFA	1222.50	1,320.01	1,339.13
2	Addition of permissible equity during the year	116.63	18.71	101.83
3	Permissible Equity in Closing GFA	1339.13	1,338.72	1,440.96
4	Average Gross Permissible Equity during the year	1280.82	1,329.36	1,390.05
5	Rate of Return on Equity	15.50%	15.50%	15.50%
6	Return on Equity	198.53	206.00	215.46

Table 12: Income Tax for FY 2020-21 (Rs. Crores)

Sr. No	Particulars	FY 2019-20	FY 2020-21	
		(True- Up order dated 30.05.2020)	MYT order dt. 30.04.2016	Final True-up
1	Income Tax	12.74	-	1.98

- 4.27 Thus, CSPTCL would like to request the Hon'ble Commission to approve Return on Equity of Rs.215.46 Crores for true-up of ARR for FY 2020-21 as detailed above. It is also requested the Hon'ble Commission to consider the similar approach for CSPTCL for computation of RoE by grossing up rate of return on equity with MAT rate of %, if adopted for CSPGCL and CSPDCL.

Operation and Maintenance (O&M) Expenses

- 4.28 O&M expenses include Employee expenses, Administrative & General (A&G) expenses and Repairs & Maintenance (R&M) expenses. As per provision 47.5 of the MYT Regulations 2015:

Employee Cost

(c) The employee cost, excluding pension fund contribution and impact of pay revision arrears for the base year i.e. FY 2015-16, shall be derived on the basis of the normalized average of the actual employee expenses excluding pension fund contribution and impact of pay revision arrears available in the accounts for the previous five (5) years immediately preceding the base year FY 2015-16, subject to prudence check by the Commission. Any other expense of nonrecurring nature shall also be excluded while determining normalized average for the previous five (5) years.

(d) The normalization shall be done by applying last five year average increase in Consumer Price Index (CPI) on year to year basis. The average of normalized net present value for FY 2010-11 to FY 2014-15, shall then be used to project base year value for FY 2015-16. The base year value so arrived, shall be escalated by the above inflation rate to estimate the employee expense (excluding impact of pension fund contribution and pay revision, if any) for each year of the control period.

At the time of true up, the employee costs shall be considered after taking into account the actual increase in CPI during the year instead of projected inflation for that period.

Provided further that impact of pay revision (including arrears) and pension fund contribution shall be allowed on actual during the true-up as per accounts, subject to prudence check and any other factor considered appropriate by the Commission.

A&G Expenses and R&M Expenses

(e) The administrative and general expenses and repair and maintenance expenses, for the base year i.e. FY 2015-16, shall be derived on the basis of the normalized average of the actual administrative and general expenses and repair and maintenance expenses, respectively available in the accounts for the previous five (5) years immediately preceding the base year FY 2015-16, subject to prudence check by the Commission. Any expense of non-recurring nature shall be excluded while determining normalized average for the previous five (5) years.

(f) The normalization shall be done by applying last five year average increase in Wholesale Price Index (WPI) on year to year basis. The average of normalized net present value for FY 2010-11 to FY 2014-15, shall then be used to project base year value for FY 2015-16. The base year value so arrived, shall be escalated by the above inflation rate to estimate the administrative and general expense and repair and maintenance expenses for each year of the control period.

At the time of true up, the administrative and general expenses and repair and maintenance expenses shall be considered after taking into account the actual inflation instead of projected inflation for that period.

(g) The additional O&M Expenses on account of new transmission lines/ substations commissioned after March 31, 2016 shall be allowed by the Commission subject to prudence check at the time of truing up exercise.

4.29 O&M expenses include Employee expenses, Administrative & General (A&G) expenses and Repairs & Maintenance (R&M) expenses.

4.30 CSPTCL would like to submit that the gross employee expenses (net of employee expenses on account of SLDC) for FY 2020-21 based on the audited accounts are Rs. 189.43 Crores. The details of the same are as below.

Table 13: Gross Employee Expenses for FY 2020-21(Rs. Crores)

Sr. No	Particulars	FY 2020-21
		Audited
1	Gross Employee Expenses (CSPTCL+SLDC) excluding terminal benefits	198.34
2	Less: SLDC Employee Expenses (including interim wage relief)	8.91
3	CSPTCL Gross Employee Expenses	189.43

4.31 The capitalisation of employee expenses has been considered as Rs. 9.88 Crores as per the accounts for FY 2020-21.

4.32 CSPTCL would like to request the Hon'ble Commission to approve Rs. 179.55 Crores for Employee Expenses (net of capitalization) for FY 2020-21 based on the audited accounts.

4.33 Further, the Petitioner wants to highlight the current employee strength at CSPTCL. As on 31st March 2021, total sanctioned strength of different class of employees exclusive of SLDC is 3,080 out of which 1,563 are currently working and balance 1517 are envisaged to be filled in the coming FYs. The details are as follows:

Table 14: Employee Strength at CSPTCL as on 31st March 2021 (Nos)

No. of Employees as on 31st March 2021				
Sr. No	Particulars	Sanctioned	Working	Vacant
CSPTCL				
1	Class I	159	120	39
2	Class II	240	191	49
3	Class III	1543	786	757
4	Class IV	1138	466	672
5	Total	3080	1563	1517
SLDC				
1	Class I	20	16	4
2	Class II	24	15	9
3	Class III	23	15	8
4	Class IV	9	2	7
5	Total	76	48	28
CSPTCL+SLDC				
1	Class I	179	136	43
2	Class II	264	206	58
3	Class III	1566	801	765
4	Class IV	1147	468	679
5	Total	3156	1611	1545

4.34 CSPTCL would like to submit that the Administrative & General (A&G) and Repair & Maintenance (R&M) expenses (excluding expenses on account of SLDC) on the basis of audited accounts for FY 2020-21 are as shown below:

Table 15: Gross R&M and A&G Expenses for FY 2020-21 (Rs. Crores)

Sr. No	Particulars	FY 2020-21
		Audited
1	Gross A&G Expenses	58.17
2	Less: SLDC Expenses	0.51
3	CSPTCL Gross A&G Expenses	57.67
4	Gross R&M Expenses	55.73
5	Less: SLDC Expenses	1.66
6	CSPTCL Gross R&M Expenses	54.07

4.35 CSPTCL would like to submit that while calculating Gross A&G Expenses it has not considered expenses on account of CSR, shortage of inventory and penalty charges.

4.36 The capitalisation of A&G expenses has been considered as Rs. 0.93 Crores as per the accounts for FY 2020-21.

4.37 The comparison of O&M expenses for FY 2020-21 vis-a-vis that approved earlier is as follows.

Table 16: O&M Expenses for FY 2020-21 (Rs. Crores)

Sr. No	Particulars	FY 2019-20	FY 2020-21	
		(True- Up order dated 30.05.2020)	MYT order dt. 30.04.2016 further revised order dated 30.05.2020	Final True-up
1	Gross Employee Expenses	195.24	186.72	189.43
2	Gross A&G Expenses	56.20	44.21	57.67
3	Gross R&M Expenses	51.14	45.31	54.07
4	Provision for Interim Wage Relief			-
5	Gross O&M Expenses (excluding SLDC)	302.58	276.24	301.17
6	<i>Employee expenses capitalized</i>	13.56	-	9.88
7	<i>A&G Expenses capitalized</i>	1.29	-	0.93
8	Net O&M Expenses (excluding SLDC)	287.73	-	290.36

4.38 CSPTCL requests the Hon'ble Commission to approve actual O&M expenses for FY 2020-21 based on the audited accounts as shown in the above table.

- 4.39 CSPTCL requests the Hon'ble Commission to approve Rs. 290.36 Crores towards net operation & maintenance expenses for FY 2020-21.

Sharing of gain and losses on account of O&M expenses

- 4.40 CSPTCL would like to submit that the MYT Regulations 2015 allows incentive/disincentive for better/under performance in operational norms so that such efforts are appropriately recognized and promoted, thereby, ensuring improved efficiency on a sustainable basis.
- 4.41 Regulation 8 of MYT Regulations 2015 states that:

8. SPECIFIC TRAJECTORY FOR CERTAIN VARIABLES

Targets will be set by the Commission for the items that are "controllable". Besides, trajectory for specific variables may be stipulated by the Commission where the performance of the applicant is sought to be improved upon through incentives and disincentives.

- 4.42 Regulation 11.2 of the MYT Regulations 2015 mentions the "Controllable factors" as following:

11.2 For the purpose of these Regulations, the term "Controllable factors" shall comprise of the following:

.....

(d) Operation & Maintenance expenses.

...

- 4.43 In addition to the above, Regulation 13 of the MYT Regulations 2015 has also provision of allowing the incentive/disincentive to the utilities on account of improved/under performance in efficiency linked controllable items.

13. MECHANISM FOR SHARING OF GAINS OR LOSSES ON ACCOUNT OF CONTROLLABLE FACTORS

13.1 The mechanism for sharing of aggregate net gain on account of over achievement in reference to the target set in tariff order for efficiency linked controllable items other than energy losses computed in accordance to Regulation 71 shall be passed on to the beneficiary / consumer(s) and retained by the generating company or the licensee or SLDC, as the case may be, in the ratio of 50:50 or as may be specified in the Order of the Commission passed under these Regulations.

13.2 The mechanism for sharing of aggregate net loss on account of under achievement in reference to the target set in tariff order for efficiency linked controllable items shall be passed on to the beneficiary/consumer(s) and retained by the generating company or the licensee, as the case may be, in the ratio of 50:50 or as may be specified in the Order of the Commission passed under these Regulations.

- 4.44 As per amendment dated 16 June 2017 to the principal regulations, following proviso has been inserted in clause 13.1-

Provided further that employee cost shall not be factored in for sharing of gains or losses on account of operation & maintenance expenses,

- 4.45 Accordingly, the employee expenses for FY 2019-20 have been considered based on actual and not subject to sharing of gains or losses. The Petitioner, therefore, requests the Commission to approve Rs. 195.24 Crores as gross employee expenses and capitalisation of employee expenses as Rs. 13.56 Crores for FY 2019-20.

- 4.46 A&G and R&M expenses have been subject to sharing of gains/losses as per regulation 47.5 of the MYT Regulations 2015. The calculation of the normative A&G and R&M expenses for FY 2019-20 is as discussed below.

- 4.47 As per regulation 47.5, clause (f):

(f) The normalization shall be done by applying last five year average increase in Wholesale Price Index (WPI) on year to year basis. The average of normalized net present value for FY 2010-11 to FY 2014-15, shall then be used to project base year value for FY 2015-16. The base year value so arrived shall be escalated by the above inflation rate to estimate the administrative and general expense and repair and maintenance expenses for each year of the control period.

At the time of true up, the administrative and general expenses and repair and maintenance expenses shall be considered after taking into account the actual inflation instead of projected inflation for that period.

- 4.48 The Commission's approach on arriving at the normative expenses for A&G and R&M expenses has been adopted. The normative A&G and R&M expenses for FY 2018-19 as determined in the chapter on final true-up of ARR for FY 2018-19 have been considered to arrive at the normative A&G and R&M expenses for FY 2019-20. The same have been escalated by the increase in WPI of 1.68 % for FY 2019-20 to arrive at the normative expenses for FY 2019-20.

- 4.49 It is pertinent to mention that Regulation 47.5(g) of the CSERC MYT Regulations 2015 states that:

“The additional O&M Expenses on account of new transmission lines/substations commissioned after March 31, 2016 shall be allowed by the Commission subject to prudence check at the time of truing up exercise.”

- 4.50 The Petitioner would like to submit that actual O&M expenditure for FY 2019-20 includes expense on account of these new lines/substations. However, practically, it is not possible to isolate the actual O&M expenses specifically on new transmission lines/substations commissioned after 31st March 2016.
- 4.51 The calculation of the base normative A&G and R&M expenses for FY 2020-21 is as shown below.

Table 17: Base normative A&G and R&M Expenses for FY 2020-21 (Rs. Crores)

Particulars	Formula	FY 2020-21
Normative A&G expenses for FY 2019-20	A	39.36
Additional A&G expenses for FY 2019-20	B	2.76
Revised Normative A&G expenses for FY 2019-20	$C = A + B$	42.12
Inflation Factor (%)	D	1.27
Base Normative A&G expenses for FY 2020-21	$E = C * (1+D)$	42.66
Normative R&M expenses for FY 2019-20	F	40.34
Additional R&M expenses for FY 2019-20	G	2.83
Revised Normative R&M expenses for FY 2019-20	$H = F + G$	43.16
Inflation Factor (%)	I	1.27
Base Normative R&M expenses for FY 2020-21	$J = H * (1+I)$	43.71

- 4.52 The additional normative A&G and R&M expenses on account of new transmission lines and sub-stations commissioned during FY 2020-21 have been determined basis the methodology adopted by the Commission in its previous tariff orders.
- 4.53 Assets generated on account of consumer contribution is taken as Rs. 1 in the audited account as per accounting practice. However, assets so generated are being maintained by Petitioner and hence qualify for additional R&M and A&G expenses against these assets. Total assets generated on account of consumer contribution for the respective years are as mentioned below.

FY 2018-19: Rs. 5.78 Crores
FY 2019-20: Rs. 13.6 Crores
FY 2020-21: Rs. 24.49 Crores

- 4.54 Considering the above, these assets along with the GFA as indicated in the audited accounts have been considered for computing additional normative R&M and A&G expenses for FY 2020-21 as shown below.

Table 18: Additional Normative A&G and R&M for FY 2020-21 (Rs. Crores)

Particulars	Formula	Amount (Rs. Crores)
Average of opening and closing GFA for FY 2019-20 inclusive of assets created out of consumer contribution	A	4,904.87
Average of opening and closing GFA for FY 2020-21 inclusive of assets created out of consumer contribution	B	5278.41
Increase in GFA (%)	$C = (B-A)/A \times 100$	7.62%
Normative A&G Expenses arrived at for FY 2020-21	D	42.66
Normative R&M Expenses arrived at for FY 2020-21	E	43.71
Additional A&G Expenses on account of increase in GFA for FY 2020-21	$F = D \times C$	3.25
Additional R&M Expenses on account of increase in GFA for FY 2020-21	$G = E \times C$	3.33

- 4.55 The revised normative A&G and R&M expenses, including additional A&G and R&M expenses on account of new transmission lines/sub stations for FY 2020-21 is as shown below.

Table 19: Revised Normative O&M expenses for FY 2020-21 (Rs. Crores)

Particulars	Formula	FY 2020-21
Normative A&G expenses for FY 2020-21	A	42.66
Additional A&G expenses for FY 2020-21	B	3.25
Revised Normative A&G expenses for FY 2020-21	$C = A + B$	45.91
Normative R&M expenses for FY 2020-21	D	43.71
Additional R&M expenses for FY 2020-21	E	3.33
Revised Normative R&M expenses for FY 2020-21	$F = D + E$	47.04

- 4.56 The normative A&G and R&M expenses for FY 2020-21, including additional A&G and R&M on account of new transmission lines/sub stations are Rs. 45.91 Crores and Rs. 47.04 Crores respectively. The normative A&G and R&M expenditure so arrived have been considered for the purpose of gain/loss calculation. The actual net A&G and R&M expenses are Rs. 56.74 Crores and Rs. 54.07 Crores (net of capitalisation) respectively for FY 2020-21. The same have been considered for sharing of gain/(loss) as shown in the table below.

Table 20: Sharing of gain/(loss) on A&G and R&M expenses for FY 2020-21 (Rs. Crores)

Sr. No	Particulars	Normative Expense	Actual	Gain/(Loss)
1	Net A&G expenses	45.91	56.74	(10.83)
2	Net R&M expenses	47.04	54.07	(7.04)
3	Total Gain/(Loss)	92.95	110.81	
4	CSPTCL share (1/2 of Total Gain/(Loss))			(8.93)

4.57 The gain/(loss) of Rs.(8.93) Crores on account of expenditure in actual A&G and R&M expenses as compared to the normative A&G and R&M expenses has been considered as part of the true-up of ARR for FY 2020-21.

4.58 The Petitioner submits that the prevalent norms of calculation of R&M based on WPI alone are not sufficient and should be linked with the growth in the asset base of the utility, besides inflationary increase.

Regarding consideration of outsourced works under R&M head

4.59 R&M works indicated in the instant petition for FY 2020-21 have increased to the norms arrived for R&M expenses for these years due to the reason that EHV sub-station of CSPTCL are being outsourced for operational purpose (including cleaning, watch and ward). The details of expenditure under out-sourced works for EHV sub-station for the respective years are as given below.

Sr. No	Particulars (in Rs.)	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21
1	132 kV sub-station	103,535,290	144,088,237	244651969	246262757	242550472
2	220 kV sub-station	26,547,355	36,481,294	69496040	67528131	70531357
3	400 kV sub-station				8909046	9066733
3	TOTAL	130,082,645	180,569,531	3,141,448,009	32,26,99,934	322,148,562

The reason for considering these expenses under R&M expenses is that this expenditure has been incurred on R&M works for EHV sub-stations. There is no separate account head for booking expenditure incurred on outsourced employees. If regular employees of CSPTCL had been deployed for this purpose, then even more expenditure (2 to 3 times) would have to be incurred.

Similarly for economic reasons, we have employed various personal through outsourcing against vacant post in ministerial cadre; wages of such personal are booked under A&G head, instead salaries/employee expenses. The wages are variable and linked to price index. The vacancies created by retirement are mostly filled up by this method through outsourcing.

The expenditure incurred in the form of salaries and wages (plus a small profit) to outsourced personnel should be treated as a separate line item and not be subject to sharing of gain/(loss). It is pertinent to mention here that these wages are required to be paid by CSPTCL to outsourced employees against the vacant post of CSPTCL for day to day operation (including cleaning, watch & ward) of existing/new EHV sub-stations/offices etc. Since the nature of these expenses (wages) are similar to employee expenses for regular employees, CSPTCL would like to request the Commission to consider the same at par with employee expenses only for the purpose of computation of gain and loss of A&G and R&M expenses.

Contribution to Pension and Gratuity (P&G)

4.60 As per MYT Regulations, 2015 Regulation 32:

PENSION FUND

For meeting up the past unfunded liabilities of erstwhile CSEB/State Power Companies employees appointed before 1.1.2004, a pension and gratuity trust has been created and funding to the same has been allowed in the past Tariff Orders of the Commission. The contribution to the fund shall be decided by the Commission on the basis of actuarial analysis, expected pension outflow for the State Power Companies and availability of fund with the Pension trust at the time of determination of MYT / ARR for each year of the control period. However, the actual outflow towards the pension payment shall not be allowed in the O&M expenses covered in these Regulations for the Control Period. The pension outflow shall be met by the Pension trust. The pension fund contribution so determined by the Commission shall be recoverable in the same manner as specified in relevant chapters.

Provided till the time SLDC is part of STU, SLDC's share out of the STU contribution shall be decided on pro-rata basis. For the purpose of ratio determination, the employee strength as on 1st April of the preceding year shall be considered.

4.61 The Hon'ble Commission in its MYT Tariff Order dated 30th April 2016 for the control period from FY 2016-17 to FY 2020-21 allowed contribution to Pension and Gratuity (P&G) fund of Rs. 63.75 Crores which was further revised vide tariff order issued by the commission dated 30th May, 2020 for FY 2020-21 as Rs. 69.52 Crores for FY 2020-21 net of SLDC. Accordingly, CSPTCL has contributed Rs. towards Pension & Gratuity. The same is as provided in the table below:

Table 21: Terminal Benefits (Pension & Gratuity) for FY 2020-21 (Rs. Crores)

Sr. No	Particulars	FY 2019-20	FY 2020-21	
		(True- Up order dated 02.08.2021)	MYT order dt. 30.04.2016	Final True-up
1	CSPTCL	45.26	69.52	69.52

- 4.62 CSPTCL would like to request the Hon'ble Commission to approve Rs. 69.52 Crores as P&G contribution for FY 2020-21.

Interest on Working Capital

- 4.63 Regulation 25 of the MYT Regulations 2015 states that:

25.1. The working capital shall cover:

(c) In case of Transmission business:

i. Operation and maintenance expenses for one (1) month; plus

ii. Maintenance spares @ 40% of repair and maintenance expenses specified in Regulation 47.5; plus

iii. Receivables equivalent to one (1) month of fixed cost.

iv. Less: Amount, if any, held as security deposits from Transmission System users.

- 4.64 Further, the MYT Regulations, 2015 states that:

25.2 At the time of True-up, the receivables for the computation of working capital requirement of the generating company, STU/transmission licensee, distribution licensee and SLDC will be determined equivalent to one (1) month of actual revenue billed.

25.4. Interest on working capital shall be allowed at a rate equal to the Base rate of State Bank of India as on 30th September of the financial year in which the Petition is filed plus 350 basis points. At the time of true up, the interest rate shall be adjusted as per the actual rate prevailing on 1st April of the financial year for which truing up exercise has been undertaken.

25.5. Interest on working capital shall be payable on normative basis notwithstanding that the generating company or the transmission licensee or the distribution licensee or SLDC has not taken loan for working capital from any outside agency."

- 4.65 The Petitioner would like to submit that it has considered one month of O&M expenses, maintenance spares at 40% of R&M expenses and receivables equivalent to one month of revenue billed for computing the working capital requirement for FY 2020-21.

- 4.66 The Petitioner has considered the interest rate of 10.90% (7.40% - SBI Base Rate on 01st September 2020 plus 350 basis points) for computing the Interest on Working Capital for final true-up of ARR for FY 2020-21.

Table 22: Interest on Working Capital for FY 2020-21(Rs. Crores)

Sr. No	Particulars	FY 2019-20	FY 2020-21	
		(True- Up order dated 02.08.2021)	MYT order dt. 30.04.2016 further revised order dated 30.05.2020	Final True-up
1	O&M for One Month	22.25	23.02	24.20
2	Maintenance Spares – 40% of R&M Expenses	17.27	18.12	21.63
3	Receivables – 1 Month of Fixed Cost	68.07	83.61	77.27
4	Total WC requirement	107.58	124.76	123.10
5	Less: SD amount from Trans. Users	-		
6	Net Working Capital Requirement	107.58	124.76	123.10
7	Rate of Interest on WC	12.20%	13.20%	10.90%
8	Net Interest on Working Capital	13.50	16.47	13.42

- 4.67 The Petitioner requests the Hon'ble Commission to approve IWC of Rs. 13.42 Crores for final true-up of ARR for FY 2020-21.

Prior Period (Income)/ Expense

- 4.68 CSPTCL would like to submit that there is NIL prior period (income)/ expense for FY 2020-21 as per the accounts.

Incentive/Penalty on Transmission System Availability Factor (TSAF)

- 4.69 As per clause 51 of the MYT Regulations 2015, target availability of transmission system has to be specified for the control period for incentive/penalty payable/levied to a transmission licensee.
- 4.70 The MYT tariff order for the control period from FY 2016-17 to FY 2020-21 dated 30th April 2016, has specified the annual target availability factor for incentive/penalty consideration as 99% for the entire MYT control period from FY 2016-17 to FY 2020-21.

Provided further that no incentive/penalty shall be payable for availability beyond 99.75%

- 4.71 The transmission licensee shall be entitled to incentive/penalty on achieving the annual availability beyond/lower than the target availability in accordance with the following formula:

$$\text{Incentive/Penalty} = \text{Annual Fixed Charges for that year} \times (\text{Annual availability achieved} - \text{Target availability}) / \text{Target availability}$$

- 4.72 Incentive/Penalty shall be shared equally (50:50) between the transmission licensee and beneficiaries.
- 4.73 The Petitioner has achieved TSAF of 99.79 % for FY 2020-21 as against target availability of 99%, and hence is eligible for incentive payment. It is to be noted that no incentive is payable for availability beyond 99.75%.
- 4.74 The detailed calculation of the incentive eligible to the Petitioner is as follows:

Table 23: Incentive for higher transmission system availability for FY 2020-21 (Rs. Crores)

Sr. No	Particulars	FY 2020-21
1	Annual Transmission System Availability Factor	99.79%
2	Annual Transmission System Target Availability Factor	99.00%
3	Max availability factor that can be claimed for incentive	99.75%
4	Incentive/(Penalty) to be claimed (Rs. Crores)	7.24
5	Sharing of gain/(loss) (50%) (Rs. Crores)	3.62

- 4.75 The incentive eligible to the Petitioner on account of achieving higher transmission system availability factor for FY 2020-21 is Rs. 3.62 Crores.
- 4.76 In view of the above, CSPTCL would like to submit that it has achieved better performance by achieving TSAF of 99.79% in comparison to normative TSAF of 99%.

Non - Tariff Income

- 4.77 The Petitioner has considered Rs. 71.65 Crores as non-tariff income for CSPTCL based on the segmental notes to the audited accounts for FY 2020-21. The Petitioner has claimed non-tariff income as per the below table for FY 2020-21.

Table 24: Non – Tariff Income for FY 2020-21(Rs. Crores)

Sr. No	Particulars	FY 2019-20	FY 2020-21	
		(True- Up order dated 02.08.2021)	MYT order dt. 30.04.2016	Final True-up
1	Non-Tariff Income	13.50	22.35	71.65

4.78 Thus, CSPTCL would like to request the Hon'ble Commission to approve Non-Tariff Income of Rs. 71.65 Crores for FY 2020-21 based on the accounts.

Aggregate Revenue Requirement (ARR) for FY 2020-21

4.79 Based on the submission in the above paragraphs, the Aggregate Revenue Requirement (ARR) for FY 2020-21 is as shown below:

Table 25: Aggregate Revenue Requirement (ARR) for FY 2020-21(Rs. Crores)

Sr. No	Particulars	FY 2019-20	FY 2020-21	
		(True- Up order dated 02.08.2021)	MYT order dt. 30.04.2016 & revised vide T.O dated 30.05.2020	Final True-up
1	Employee Expenses	195.24	186.72	189.43
2	A&G Expenses	50.42	44.21	57.67
3	R&M Expenses	51.14	45.31	54.07
4	Terminal Benefits	45.26	69.52	69.52
5	Provision for Interim Wage Relief		16.61	
6	Less: Capitalization of Employee, R&M and A&G Expenses	14.85		10.81
7	Depreciation	232.00	242.12	249.12
8	Interest on Loan	195.75	198.77	192.26
9	Interest on Working capital	13.50	16.47	13.42
10	Prior Period (Income) / Expenses			
11	Return on Equity	198.53	206.00	215.46
12	Gain/(Loss) on sharing O&M efficiency	(7.49)		(8.93)
13	Incentive on Transmission Availability	3.65		3.62
14	Current Tax	12.74		1.98
15	Total	975.89	932.90	1,026.82
16	Less: Non-Tariff Income	13.50	22.35	71.65
17	Aggregate Revenue Requirement (ARR)	962.39	1002.42	955.16

4.80 Thus, CSPTCL would like to request the Hon'ble Commission to approve Aggregate Revenue Requirement (ARR) of Rs. 955.16 Crores for final true-up of ARR for FY 2020-21 as shown above.

Revenue Surplus/ (Deficit)

4.81 Based on approved ARR and actual ARR on account of True-up, revenue surplus arrived as below

Table 26: Revenue Surplus for FY 2020-21 (Rs. Crores)

Sr. No	Particulars	FY 2020-21
1	AFC for FY 2020-21 as approved in MYT order dated 30.04.2016 & later on revised vide tariff order dated 30.05.2020	1002.42
2	Surplus of adjusted with carrying cost up to FY 2019-20 as approved in tariff order dated 30.05.2020	53.08
3	Adjusted ARR for FY 2020-21 (should be considered as)	949.34
4	Less:- Unrealized ARR in the month of April' 20 & May' 20 (as tariff order was applicable from 01.06.2021)	22.08
5	AFC for FY 2020-21 as approved in MYT order dated 30.04.2016 & later on revised 30.05.2020	980.34
6	Actual ARR determined based on Final True-up for FY 2020-21 should be considered as	955.16
7	Surplus/(Deficit) in Rs. Crores (5-6)	25.18

4.82 Revenue billed to LTOA/ MTOA customers including CSPDCL during FY 2019-20 is annexed as Annexure 7 for your kind perusal.

4.83 ARR of Tariff Order FY 20-21 was issued on 30.05.2020 and was applicable w.e.f 01-06-2020 accordingly CSPTCL during the month of April' 20 and May' 20 recovered revenue based on ARR of Tariff Order FY 2019-20 due to which CSPTCL has not realized Rs. 22.08 Crores towards ARR for the period FY 2020-21.

4.84 As per Hon'ble CERC order dated 16.02.2016 in petition no. 245/TT/2013, CSPTCL has executed RSA & TSA with Power Grid Corporation of India Limited on dated 02.08.2017 for disbursement of transmission charges by PGCIL in CSPTCL account in respect of 220 kV Natural Inter-State Transmission Lines belonging to CSPTCL.

4.85 Hon'ble CERC has made the following directives in the order dated 16.02.2016 at para 19 on petition no. 245/TT/2013:

“ The annual transmission charges allowed for the assets covered in the instant petition shall be considered in the YTC as per the sharing of Inter State Transmission Charges and Losses Regulation 2010 and shall be adjusted against the ARR of the Petitioner approved by the State Commission.”

- 4.86 On account of the above said order, CSPTCL received Nil amount from PGCIL towards POC charges during FY 2020-21.
- 4.87 The Hon'ble Commission may kindly consider the same while approving the true-up of ARR of CSPDCL for FY 2020-21.

5: CAPITAL EXPENDITURE PLAN FOR MULTI YEAR TARIFF CONTROL PERIOD FROM FY 2022-23 TO FY 2023-23

Capital Expenditure

5.1 CSPTCL has prepared petition for approval of Capital Investment Plan for 4th MYT Control Period for under taking Capital Expenditure for:-

- Laying of transmission network for evacuation of power from the upcoming generation projects;
- Strengthening of the existing transmission network to cope with the growing demand and connectivity to the new areas under development by construction of new EHV substations, Transmission lines, system improvement works & renovation and modernization in the existing transmission system.

Planned Capital Expenditure

5.2 The Petitioner has proposed following capital expenditure for the 4th MYT Control Period and need the approval for the same:-

Table 27: Summary of capital expenditures (Rs. Crores)

S No.	Scheme	Scheme Provision	FY 22	FY 23	FY 24	FY 25
A. Spill Over Works						
1	400/220 KV Substation and Associated Lines	962.62	7.00	42.00	82.00	71.62
2	220/132 KV Substation and Associated Lines	755.89	30.20	275.00	295.13	57.09
3	132/33 KV Substation and Associated Lines	744.44	149.50	383.00	129.17	14.05
4	Other System Improvement Schemes	410.84	42.00	197.48	148.22	3.14
	Sub Total A	2873.79	228.70	897.48	654.52	145.90
B. New Normal Development Scheme (State)						
1	400/220 KV Substation and Associated Lines	0.00	0.00	0.00	0.00	0.00
2	220/132 KV Substation and Associated Lines	559.84	0.00	75.00	262.00	193.54
3	132/33 KV Substation and Associated Lines	269.30	0.00	52.00	188.00	19.30
4	Other System Improvement Schemes	1370.61	0.00	505.00	503.64	356.97
	Sub-Total B	2199.75	0.00	632.00	953.64	569.81

C. New Normal Development Scheme (Center)						
1	Other System Improvement Schemes	1606.19	2.00	331.50	720.79	526.90
	Sub Total C	1606.19	2.00	331.50	720.79	526.90
	Grand Total	6679.73	230.70	1860.98	2328.95	1242.61
C. IDC						
	Interest During Construction		0.00	63.51	210.82	347.09
	Total Capex Including IDC		230.70	1924.49	2539.77	1589.70

Capitalization schedule

- 5.3 The new assets/ schemes will be capitalized in line with the completion of capital works on the respective schemes. Often it may happen that a scheme gets completed in a year, while capital expenditure occurs in subsequent years.
- 5.4 This is due the fact that vendor payments are made once the system stabilizes and line is operational. However, in cases like these, capitalization is considered in the year when the line is charged and operational, rather than the year in which the last capital expenditure is incurred
- 5.5 The schedule of capitalization of assets is shown in the table below:-

Table 28: Capitalization (Rs. Crores)

S No.	Scheme	Scheme Provision	FY 22	FY 23	FY 24	FY 25
A. Spill Over Works						
1	400/220 KV Substation and Associated Lines	962.62	0.00	0.00	0.00	181.62
2	220/132 KV Substation and Associated Lines	755.89	0.00	0.00	198.42	459.00
3	132/33 KV Substation and Associated Lines	744.44	39.00	148.50	397.17	91.05
4	Other System Improvement Schemes	410.84	0.00	54.48	336.36	0.00
	Sub Total A	2873.79	39.00	202.98	931.95	731.67
B. New Normal Development Scheme (State)						
1	400/220 KV Substation and Associated Lines	0.00	0.00	0.00	0.00	0.00
2	220/132 KV Substation and Associated Lines	559.84	0.00	0.00	0.00	455.54
3	132/33 KV Substation and Associated Lines	269.30	0.00	0.00	259.30	0.00
4	Other System Improvement Schemes	1370.61	0.00	0.00	181.76	123.85
5	Augmentation Scheme		0.00	0.00	0.00	1055.00

	Sub-Total B	2199.75	0.00	0.00	441.06	1634.39
C. New Normal Development Scheme (Center)						
1	Other System Improvement Schemes	1606.19	0.00	0.00	82.29	776.29
	Sub Total C	1606.19	0.00	0.00	82.29	776.29
	Grand Total	6679.73	39.00	202.98	1455.30	3142.35
C. IDC						
	Interest During Construction		0.00	6.93	63.99	225.25
	Total Capex Incuding IDC		39.00	209.91	1519.29	3367.60

6: MULTI YEAR TARIFF FOR FY 2022-23 TO FY 2024-25

Introduction

- 6.1 CSPTCL would like to submit the Multi-Year Tariff proposal for FY 2022-23 to FY 2024-25 according to Multi-Year Tariff principles and Methodology and Procedure for determination of Expected revenue from Tariff and Charges) Regulations, 2021. The Hon'ble Commission notified the CSERC (Terms and Conditions for determination of tariff according to Multi-Year Tariff principles and Methodology and Procedure for determination of Expected revenue from Tariff and charges) Regulations, 2021 (hereinafter referred to as "MYT Regulations 2021") on applicable for FY 2022-23 to FY 2024-25 under Section 62 of the Electricity Act, 2003.
- 6.2 CSPTCL, being the state transmission utility, is filing its tariff petition for the Control Period FY 2022-23 to FY 2024-25 under the aforesaid regulations. The Petitioner has made projections on the basis of:
- True up of FY 2020-21 which is based on audited accounts as discussed in earlier chapter;
 - Additions as discussed in CIP petition for 4th MYT Control Period
- 6.3 Now we would discuss each component of the ARR for the petitioner as follows:

Gross Fixed Assets

- 6.4 The Hon'ble in its MYT Order dated 30.04.2016 had approved the methodology for determination of capital structure of GFA into consumer contribution, debt and equity. The petitioner submits that the capital structure for FY 2022-23 to FY 2024-25 has been determined on the same methodology and escalated based on the following:
- Closing GFA of FY 2020-21 has been considered as opening GFA for FY 2021-22 and any addition simultaneously as discussed in CIP Petition for FY 23, FY 24 and FY 25 leads to closing GFA of the said FYs;
 - Opening consumer contribution has been considered as approved by the Hon'ble Commission for FY 2019-20 i.e. Rs. 54.04 Crores
 - Closing CWIP of in FY 2020-21 of Rs 494.93 Crores considered opening CWIP for FY 2021-22 any addition as discussed in CIP Petition closing CWIP of the said FY;
 - Loan addition has been considered as 70% of the total asset addition.

- Addition in consumer contribution has been considered nil for FY 2020-21 onwards;
- Equity addition has been considered as 30% of the total asset addition;
- GFA addition of Rs. 202.98 Crores, Rs. 1455.30 Crores and Rs. 3142.35 Crores has been considered for FY 2022-23 to FY 2024-25 based on schedule and plan submitted in Capital Investment Plan Petition;

6.5 In order to ascertain the capital mix (i.e. debt, equity and grant) in GFA and Capex for arriving at the Return on Equity and Interest expenses, CSPTCL has adopted the following approach tabulated as under:

Table 29: Capital Structure (Rs. Crores)

Sr. No.	Particulars	FY 2022-23	FY 2023-24	FY 2024-25
A	GROSS FIXED ASSETS (GFA)			
1	Opening GFA	5,587.38	5,790.36	7,245.66
2	Opening CWIP	743.43	2,401.43	3,275.08
3	Opening Capex	6,330.81	8,191.79	10,520.74
4	Capitalisation during the Year	202.98	1455.30	3142.35
5	Closing GFA	5,790.36	7,245.66	10,388.01
6	Closing CWIP	2,401.43	3,275.08	1,375.34
7	Closing Capex	8,191.79	10,520.74	11,763.35
B	GRANTS & CONSUMER CONTRIBUTION			
1	Opening Grant and Contribution	109.54	109.54	109.54
2	Consumer Contribution/Grants during the Year			
3	Closing Consumer Contribution	109.54	109.54	109.54
4	Consumer Contribution in Opening GFA	54.04	54.04	54.04
5	Consumer Contribution in Closing GFA	54.04	54.04	54.04
C	LOAN BORROWED			
1	Opening Borrowed Loan	2,878.44	3,005.20	3,131.96
2	Loan Borrowed during the Year	126.76	126.76	126.76
3	Closing Borrowed Loan	3005.20	3131.96	3258.72
4	Borrowed Loan in Opening GFA	3,669.81	3,811.90	4,830.61
5	Borrowed Loan in Closing GFA	3,811.90	4,830.61	7,030.25
D	EQUITY			
1	Opening Gross Equity	3,342.83	5,077.05	7,279.24
2	Equity addition during the Year	1734.22	2202.19	1115.85
3	Closing Gross Equity	5,077.05	7,279.24	8,395.09

Sr. No.	Particulars	FY 2022-23	FY 2023-24	FY 2024-25
4	Gross Equity in Opening GFA	1,863.53	1,924.43	2,361.02
5	Gross Equity in Closing GFA	1,924.43	2,361.02	3,303.72
6	Average Gross Equity during the year	1,893.98	2,142.72	2,832.37
E	PERMISSIBLE EQUITY			
1	Permissible Equity in Opening GFA	1,486.41	1,547.31	1,983.90
2	Permissible Equity in Closing GFA	1,547.31	1,983.90	2,926.60
3	Average Gross Permissible Equity during the year	1,516.86	1,765.60	2,455.25
F	NORMATIVE LOAN			
1	Opening Normative Loan	377.12	377.12	377.12
2	Closing Normative Loan	377.12	377.12	377.12
3	Average Normative Loan	377.12	377.12	377.12

6.6 The Hon'ble Commission is requested to approve the Capital structure from FY 2022-23 to FY 2024-25 as per calculation provided in above table.

Depreciation

6.7 CSPTCL would like to submit that it has calculated depreciation as per Regulation 25 of MYT Regulations 2021. The Regulation states that:

25. DEPRECIATION

25.1. The value base for the purpose of depreciation shall be the capital cost of the asset as admitted by the Commission:

25.2. Provided that the capital cost shall not include funds from grant or consumer contribution or deposit works received for funding of fixed asset as specified in Regulation 22.

25.3. The salvage value of the asset except for IT equipments and software used for SLDC business shall be considered as 10% and depreciation shall be allowed up to maximum of 90% of the capital cost of the asset.

25.4. Provided that, the salvage value for IT equipments and Software shall be considered as NIL and 100% value of the assets shall be considered depreciable.

25.5. Land other than the land held under lease and the land for reservoir in case of hydro generating station and the land for ash-bund for thermal power stations shall not be a depreciable asset and its cost shall be excluded from the capital cost while computing depreciable value of the asset. Subject to specific provisions, Land for integrated mine shall also be considered for depreciation.

25.6. Depreciation shall be calculated annually based on Straight Line Method and at rates as specified in Appendix-I to this regulation for the assets of the generating station, transmission system, distribution system and SLDC and Appendix –I (A) for integrated coal mine:

Provided that, in case of the existing projects, the balance depreciable value as on 01.04.2022 shall be worked out by deducting the cumulative depreciation as admitted by the Commission up to 31.03.2022 from the gross depreciable value of the assets.

Provided that in those cases where the capital investment plan has been approved by the Commission and the depreciation rates as provided in this Regulation are insufficient for the repayment of loan, the rate of depreciation shall be decided by the Commission at the time of issuance of tariff order, subject to prudence check.

Provided that in the case where additional capital investment is approved by the commission for a plant at the end of its useful life or after its useful life is already over, the recoverable depreciation in respect of additional capital investment, shall be spread over the balance projected physical life as submitted by the generation company or the licensee in the capital investment plan after prudence check by the Commission.

Provided that until a Government company or any authority or corporation is notified for operating the SLDC, the depreciation shall be calculated as applicable for the STU under these Regulations.

Provided further the balance depreciable value as on the date of transfer shall be worked out by deducting the cumulative depreciation from the gross depreciable value of the assets appearing in the books of accounts of the SLDC for the SLDC as on the date of transfer.

25.7. Depreciation shall be chargeable from the first year of commercial operation. The depreciation shall be computed on the average asset base during the year:

Provided that for the new generating station or unit, assets of transmission licensee or assets of distribution licensee or SLDC, as the case may be, the depreciation on such new assets shall be charged on day-wise pro-rata basis during the first year the asset has been declared under commercial operation. For subsequent years, the depreciation shall be computed on the average asset base during the year.

- 6.8 Thus, CSPTCL, based on the above provisions and past methodology as adopted by the Hon'ble Commission, has calculated depreciation from FY 2022-23 to FY 2024-25 as follows:-

Table 30: Depreciation (Rs. Crores)

Sr. No	Particulars	FY 2022-23	FY 2023-24	FY 2024-25
1	Opening GFA excluding SLDC	5,587.38	5,790.36	7,245.66
2	Add: Additional capitalization during the year	202.98	1455.3	3142.35
3	GFA at the end of the year excluding SLDC	5,790.36	7,245.66	10,388.01
4	Average GFA for the year	5,688.87	6,518.01	8,816.84
5	Depreciation Rate	5.26%	5.26%	5.26%
6	Depreciation @ rates as per applicable Regulation	299.23	342.85	463.77
7	Opening consumer contribution	54.04	54.04	54.04
8	Addition: consumer contribution during the year			
9	Closing consumer contribution	54.04	54.04	54.04
10	Average consumer contribution	54.04	54.04	54.04
11	Less: Depreciation on consumer contribution on live assets	2.84	2.84	2.84
12	Less: Depreciation on fully depreciated assets	25.03	25.03	25.03
13	Net Depreciation	271.36	314.97	435.89

- 6.9 Thus, CSPTCL, would like to request the Hon'ble Commission to approve the projected depreciation for the respective years of the Control Period as detailed above.

Interest on Loan

- 6.10 CSPTCL would like to submit that it has computed Interest and Finance Charges as per provision 24 of the CSERC, MYT Regulations, 2021. The Regulation states that:

24. INTEREST AND FINANCE CHARGES ON LOAN CAPITAL

24.1. The debt arrived at in the manner indicated in Regulation 17 shall be considered as gross normative loan for calculation of interest on loan.

24.2. The normative loan outstanding as on 01.04.2022 shall be worked out by deducting, the cumulative repayment as admitted by the Commission up to 31.03.2022, from the gross normative loan.

24.3. The repayment of loan for the year of the tariff period shall be deemed to be equal to the depreciation allowed for that year.

24.4. Notwithstanding any moratorium period availed by the generating company or the licensee, as the case may be the repayment of loan shall be considered from the first year of commercial operation of the project and shall be equal to the annual depreciation allowed.

24.5. The rate of interest shall be the weighted average rate of interest calculated on the basis of the actual loan portfolio at the beginning of each year applicable to the project:

Provided that if there is no actual loan for a particular year but normative loan is still outstanding, the last available weighted average rate of interest shall be considered:

Provided further that if the generating station or the licensee, as the case may be, does not have actual loan, then the weighted average rate of interest of the generating company or the licensee as a whole shall be considered:

Provided further, in case of new generating station or the licensee commencing its operation after the date of effectiveness of this Regulation, and which don't have actual loan portfolio, the rate of interest shall be considered on normative basis and shall be equal to the Marginal Cost of Fund based Lending Rate (MCLR - one year tenor) of State Bank of India plus 150 basis points as applicable on the date of COD.

24.6. The interest on loan shall be calculated on the average of opening and closing loan of the year. For the computation of interest amount, the interest rate shall be the weighted average rate of interest for the same year.

24.7. The interest amount as per regulation 24.6 shall exclude interest on loan amount, normative or otherwise, to the extent of capital cost funded by consumer contribution,

grants or deposit works carried out by generating company, transmission licensee, SLDC or distribution licensee, as the case may be.

24.8. The generating company or SLDC or the licensee, as the case may be, shall make every effort to re-finance the loan as long as it results in net savings on interest and in that event the costs associated with such re-financing shall be borne by the beneficiaries and the net savings shall be shared between the beneficiaries and the generating company or the STU or the transmission licensee, as the case may be, in the ratio of 2:1.

Provided in case of SLDC, this provision shall be applicable only to those intra-State entities who are availing services of SLDC on long-term basis.

Provided that re-finance shall not be done if it results in net increase on interest or shall not be subject to any adverse terms and conditions leading to additional cost.

Provided also that the net savings in interest shall be computed after factoring all the terms and conditions, and based on the weighted average rate of interest of actual portfolio of loans taken from Banks and Financial Institutions recognised by the Reserve Bank of India, before and after re-financing of loans:

Provided that the beneficiary shall not withhold any payment on account of the interest claimed by the generating company or the licensee during the pendency of any dispute arising out of re-financing of loan.

24.9. The changes to the terms and conditions of the loans shall be reflected from the date of such re-financing.

24.10. In case of licensee, the interest paid on security deposit to the consumers shall not be allowed as a part of Annual Revenue Requirement. The licensee shall bear the interest liability on security deposit.

- 6.11 CSPTCL would like to submit that it has considered the closing loan balance for FY 2020-21 as opening loan balance for FY 2021-22. The debt component of GFA addition in FY 2022-23 and thereon has been considered as the loan addition during the year for projects for Control Period. The allowable depreciation for the FYs has been considered as the normative repayment for the FYs in the Control Period. The annual weighted average interest rate of as calculated in FY 2020-21 has been considered for computation of interest expenses.

Table 31: Interest on Loan (Rs. Crores)

Sr. No	Particulars	FY 2022-23	FY 2023-24	FY 2024-25
1	Total Opening Net Loan	1,806.47	1,677.20	2,380.94
2	Repayment during the period	271.36	314.97	435.89
3	Additional Capitalization of Borrowed Loan during the year	142.09	1,018.71	2,199.65
4	Total Closing Net Loan	1,677.20	2,380.94	4,144.69
5	Average Loan during the year	1,741.84	2,029.07	3,262.82
6	Weighted Average Interest Rate	9.76%	9.76%	9.76%
8	Interest Expense for the Period	169.97	198.00	318.39

6.12 Thus, CSPTCL, would like to request the Hon'ble Commission to approve the Interest on Loan as per calculations provided above for the Control Period.

Return on Equity

6.13 CSPTCL would like to submit that it has computed Return on Equity as per provision 23 of the CSERC MYT Regulations, 2021. The provision states that:

23. RETURN ON EQUITY

23.1. Base rate for Return on equity shall be computed in rupee terms on the equity base determined in accordance with Regulation 17. Return on equity shall be computed at the rate of 14.0% for Generation and Transmission and SLDC.

23.2. Distribution: Base rate for Return on equity shall be computed in rupee terms on the equity base determined in accordance with Regulation 17. Return on equity shall be computed at the rate of 16.0%.

23.3. The ROE shall be grossed up at the time of tariff by MAT rate for the year in which tariff is being determined, subject to the condition that MAT / Corporate tax has been paid for last three consecutive years for regulated business filed petition under these Regulations. In such case, Rate of return on equity shall be rounded off to three decimal places and shall be computed as per the formula given below:

Rate of return on equity = Base rate / (1-MAT Rate)

At the time of True up, the income tax shall be pass through on actual basis, subject to ceiling as following:

= Average Permissible Equity X Base Rate of Return X ((t/ (1-t))

Where "t" is the actual tax rate for the year. The tax rate shall be calculated without considering the delay payment surcharge received or receivable during the said financial year by generating company or licensee as the case may be.

Table 32: Return on Equity for FY 2020-21 (Rs. Crores)

Sr. No	Particulars	FY 2022-23	FY 2023-24	FY 2024-25
1	Permissible Equity in Opening GFA	1,486.41	1,547.31	1,983.90
2	Addition of permissible equity during the year	60.89	436.59	942.71
3	Permissible Equity in Closing GFA	1,547.31	1,983.90	2,926.60
4	Average Gross Permissible Equity during the year	1,516.86	1,765.60	2,455.25
5	Rate of Return on Equity	14.00%	14.00%	14.00%
6	Return on Equity	212.36	247.18	343.73

6.14 Thus, CSPTCL, would like to request the Hon'ble Commission to approve the Return on Equity as per calculations provided above for the Control Period.

Operation and Maintenance (O&M) Expenses

6.15 O&M expenses include Human resource, Maintenance & General Expenses as per Provision 73.5.1, 73.5.2 & 73.5.3 of CSERC MYT regulations, 2021:

73.5.1. Human Resource (HR) Expenses

(a) HR expenses shall include:

(i) employees costs;

(ii) impact of Pay revision;

(iii) manpower deployed on outsourcing basis;

(b) The Commission shall stipulate a separate trajectory for each of the components of HR expenses for the Control Period.

(c) The HR expenses includes employee cost, impact of pay revision arrears, all expenses towards manpower deployed on outsourcing basis, pension fund contribution, and any other expense of non-recurring nature related to HR. The base year i.e. FY 2021-22, shall be derived on the basis of the normalized average of the actual HR expenses excluding pension fund contribution, impact of pay revision arrears and any other expense of non-recurring nature, available in the accounts for the previous five (5) years immediately preceding the base year FY 2021-22, subject to prudence check by the Commission.

(d) The normalization of HR expenses shall be done by applying last five year average increase in Consumer Price Index Industrial Worker (CPI (IW)) on year to year basis. The average of normalized net present value for FY 2016-17 to FY 2020-21, shall then be used to project base year value for FY 2021-22. The projected base year value shall be escalated by the above inflation rate to estimate

the HR expense (excluding impact of pension fund contribution and pay revision and any other expense of non-recurring nature, if any) for each year of the control period.

(e) At the time of true up, the HR expenses shall be considered at actual and shall not be subjected to gain/loss mechanism.

Provided further that during the true-up, actual cash outflow on impact of pay revision (including arrears) and pension fund contribution shall be allowed as per accounts, subject to prudence check and any other factor considered appropriate by the Commission.

(f) CPI (IW) (all India) shall be as per Labour Bureau, Government of India {Base Year: 2001=100}.

73.5.2. Maintenance & General (M&G) Expenses

(a) Maintenance & General (M&G) expenses shall include:

(i) Administrative and General (A&G) expenses;

(ii) Repair and Maintenance (R&M) expenses

(b) The Commission shall stipulate a separate trajectory for M&G expenses i.e.,

R&M and A&G expenses for the Control Period.

(c) The A&G expenses (excluding expenses towards outsourcing manpower if any) for the base year i.e. FY 2020-21, shall be derived on the basis of the normalized average of the actual A&G expenses (excluding expenses towards outsourcing manpower if any) available in the accounts for the previous five (5) years immediately preceding the base year FY 2021-22, subject to prudence check by the Commission. Any other expense of non-recurring nature shall be excluded while determining normalized average for the previous five (5) years.

(d) For normalization of A&G expenses shall be estimated by applying last five year average increase/decrease in inflation to be considered on the basis of 40% weightage of WPI and 60% weightage of CPI respectively on year to year basis. The average of normalized net present value for FY 2016-17 to FY 2020-21, shall then be used to project base year value for FY 2020-21. The projected base year value shall be escalated by the above inflation rate to estimate the A&G expense.

(e) R&M expenses for the first year of the control period shall be calculated as a percentage (as per the norm decided in the tariff order) of opening Gross Fixed Assets. For arriving at the R&M expenses of subsequent years of the control period, projected WPI rate shall be applied on the estimated R&M expenses of first year.

(f) Wholesale Price Index numbers of all commodities shall be as per Office of Economic Advisor, Ministry of Commerce & Industry, Government of India {Base Year: 2011-12 Series};

(g) Consumer Price Index for Industrial Workers (all India) shall be as per Labour Bureau, Government of India {Base Year: 2001=100}.

(h) At the time of true up, the A&G and R&M expenses shall be considered after taking into account the actual inflation instead of projected inflation for that period.

73.5.3. In cases the additional O&M expenses incurred due to additional capital investment or any change in law or any direction by any statutory authority shall be pass-through over and above the O&M charges allowed in the Tariff order after prudence check by the Commission.

Human Resource Expenses

6.16 CSPTCL would like to submit the HR Expenses, for the base year i.e. FY 2021-22 is derived on the basis of the normalized average of the actual HR expenses excluding pension fund contribution, impact of pay revision arrears and any other expenses of non-recurring nature, available in the accounts for the previous five years immediately preceding the base year FY 2021-22.

6.17 The normalization of HR expenses is being done by applying last five year average increase in Consumer Price Index Industrial Worker (CPI (IW)) on year to year basis i.e.5.27%. The average of normalized net present value for FY 2016-17 to FY 2020-21, is then used to project base year value for FY 2021-22. The projected base year value is escalated by the above inflation rate to estimate the HR expense (excluding impact of pension fund contribution and pay revision and any other expense of non-recurring nature, if any) for each year of the control period.

6.18 CSPTCL is submitting following H&R Expenses as shown below:

Table 33 Normalization of HR Expenses (Rs. Crores)

Particulars	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
HR Expenses	167.34	184.02	231.17	219.08	216.82				

Final True-up of ARR for FY21 and MYT Petition for 4th MYT Control Period

Normalized FY 2016-17 to net present value FY 2020-21	167.34	176.16	185.44	195.22	205.50				
Normalized FY 2017-18 to net present value FY 2020-21		184.02	193.72	203.93	214.67				
Normalized FY 2018-19 to net present value FY 2020-21			231.17	243.35	256.18				
Normalized FY 2019-20 to net present value FY 2020-21				219.08	230.62				
Normalized net present value FY 2020-21					216.82				
Average of NPV of 5 FY's used for projection of base year FY 2021-22					224.76				
HR Expenses for Control Period				Project ed Base year value for 2021-22		236.61	249.08	262.20	276.02

6.19 CSPTCL would like to request the Hon'ble Commission to approve projected Human Resource Expenses from FY 2022-23 to FY 2024-25 based on methodology provided in MYT Regulation 2021 as per calculation provided in above table.

A&G Expenses

- 6.20 CSPTCL would like to submit the A&G Expenses, for the base year i.e. FY 2021-22 is derived on the basis of the normalized average of the actual A&G expenses (excluding expenses towards outsourcing manpower if any), available in the accounts for the previous five years immediately preceding the base year FY 2021-22
- 6.21 The normalization of A&G expenses is being done by applying last five year average increase/decrease in inflation to be considered on the basis of 40% weightage of WPI and 60% weightage of CPI respectively on year to year basis i.e. 4.18%. The average of normalized net present value for FY 2016-17 to FY 2020-21, is then used to project base year value for FY 2021-22. The projected base year value is escalated by the above inflation rate 4.18% for each year of the control period.
- 6.22 CSPTCL is submitting following A&G Expenses as shown below:-

Table 34: Normalization of A&G Expenses (Rs. Crores)

Particulars	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
A&G Expenses	37.05	42.78	40.61	44.01	51.68				
Normalized FY 2016-17 to net present value FY 2020-21	37.05	38.60	40.21	41.89	43.64				
Normalized FY 2017-18 to net present value FY 2020-21		42.78	44.57	46.43	48.37				
Normalized FY 2018-19 to net present value FY 2020-21			40.61	42.30	44.07				
Normalized FY 2019-20 to net present value FY 2020-21				44.01	45.85				

Particulars	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
Normalized net present value FY 2020-21					51.68				
Average of NPV of 5 FY's used for projection of base year FY 2021-22					46.72				
A&G Expenses for Control Period				Projected Base year value for 2021-22		48.67	50.71	52.82	55.03

6.23 CSPTCL would like to request the Hon'ble Commission to approve projected A&G Expenses from FY 2022-23 to FY 2024-25 based on methodology provided in MYT Regulation 2021 as per calculation provided in above table.

R&M Expenses

6.24 CSPTCL would like to submit the R&M Expenses, for the base year i.e. FY 2021-22 is derived as 1% of opening GFA of FY 2021-22 and then escalated with average increase in WPI% of last 5 year i.e.2.54%.

6.25 CSPTCL is submitting following R&M Expenses as shown below:-

Table 35 R&M Expenses (Rs. Crores)

Particulars	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
R&M Expenses	54.36	55.74	57.15	58.60

6.26 CSPTCL would like to request Hon'ble Commission to allow above following R&M Expenses for the Control Period.

Terminal Benefits- Contribution to P&G

34. PENSION FUND

34.1. For meeting up the past unfunded liabilities of employees appointed before 01.01.2004 erstwhile CSEB State Power Companies, a pension and gratuity trust has been constituted and funding to the same has been allowed in the past by the Commission. The contribution to this fund shall be specified by the Commission on the basis of actuarial analysis, expected pension outflow for the State Power Companies and availability of fund with the Pension trust at the time of determination of MYT / ARR for each year of the control period. The pension outflow shall be met from the Pension and Gratuity Fund. Contribution to the pension fund as approved by the Commission shall be recoverable as specified in this regulations.

Provided till the time SLDC is administered by STU, SLDC's share to the Pension and Gratuity Fund shall be met by the STU on pro-rata basis. For the purpose of ratio determination, the employee strength of SLDC and STU as on 1st April of the preceding year shall be considered.

- 6.27 CSPTCL would like to submit that the actuarial valuation of CSPTCL has been completed and based on the same the Pension and Gratuity trust has raised a demand of Rs. 1128.00 Cr. for FY 2022-23, Rs. 1234.39 Cr for FY 2023-24 and Rs.1327.43 Cr. for FY 2024-25 for all the companies.
- 6.28 CSPTCL has considered the share of CSPTCL and CSLDC in line with the percentage determined by Hon'ble Commission in the MYT order dated 30.04.2016.
- 6.29 Further it is submitted that the total share of CSPTCL and CSLDC has further been bifurcated between the two companies on the basis of the working strength of employees as shown in Table 13 in the true up part of this Petition.

Table 36: Terminal Benefits (Rs. Crores)

S No.	Particular	FY 23	FY 24	FY 25
1.	Demand by P&G Trust	1128.00	1234.39	1327.43
2.	Combined Share of CSPTCL and CSLDC (%)	10.45%	10.45%	10.45%
	Combined Share of CSPTCL and CSLDC (Rs. Cr.)	117.92	129.04	138.77
3.	Percentage of Working Strength of CSPTCL	97%	97%	97%
4.	P&G for CSPTCL	114.41	125.20	134.63

- 6.30 CSPTCL would like to request Hon'ble Commission to allow above P&G Expenses for the Control Period.

Interest on Working Capital

6.31 The CSERC MYT Regulations, 2021 provision 26 states that:

26.1. The working capital shall cover:

(c) For Transmission business:

i. O&M expenses for 15 days ; plus

ii. Maintenance spares @ 20% of Maintenance and General expenses specified in Regulation 73.5.1; plus

iii. Receivables equivalent to one (1) month of fixed cost.

6.32 Further, the CSERC MYT Regulation, 2021 states that:

26.2. At the time of True-Up, the receivables for the computation of working capital requirement of the generating company, STU/transmission licensee, distribution licensee and SLDC will be determined equivalent to one (1) month of actual revenue billed.

26.3. The cost of fuel in cases covered under sub-clauses (a) of Regulation 26.1 shall be based on the landed cost incurred taking into account normative transit and handling losses by the generating company and gross calorific value of the fuel as per latest available actual data for the three months and no fuel price escalation projection shall be considered during the tariff period.

26.4. Interest on working capital shall be estimated at the rate equal to the Marginal Cost of Fund based Lending Rate (MCLR - one year tenor) of State Bank of India plus 200 basis point prevailing on 30th September of current financial year. During truing-up, the interest on working capital shall be computed at an average actual sanctioned rate of interest during the year.

6.33 CSPTCL would like to submit that it has considered O&M Expenses for 15 days, Maintenance Spares @ 20% of Maintenance and General expenses and Receivables equivalent to one (1) month of fixed cost, along with interest rate of for computing the Interest on Working Capital for MYT Control Period.

6.34 CSPTCL would like to further submit that the Rate of Interest on working capital has been considered in line with the clause 26.4 of CSERC MYT Regulations 2021. The SBI MCLR rate on 30th September which was 7% plus 200 basis points.

Table 37: Interest on Working Capital (Rs. Crores)

Sr. No	Particulars	FY 2022-23	FY 2023-23	FY 2024-25
1	O&M	14.81	15.51	16.24
2	Maintenance Spares	21.29	22.00	22.73
3	Receivables	93.48	104.74	135.37
4	Total WC requirement	129.58	142.24	174.34
5	Rate of Interest on WC	9.00%	9.00%	9.00%
6	Net Interest on Working Capital	11.66	12.80	15.69

6.35 CSPTCL would like to request the Hon'ble Commission to approve the projected Interest on Working Capital from FY 2022-23 to FY 2024-25, based on methodology provided in MYT regulation 2021, as per calculation provided in above table.

Non-Tariff Income

6.36 CSPTCL would like to submit that it has claimed Non-Tariff income for MYT control Period as approved by Hon'ble Commission for FY 2021-22 in its order dated 02.8.2021.

Table 38: Non- Tariff Income (Rs. Crores)

Sr. No	Particulars	FY 2022-23	FY 2023-24	FY 2024-25
1	Total Non-tariff Income	13.50	13.50	13.50

Annual Revenue Requirement FY 2022-23 to FY 2024-25

6.37 Based on submissions in above paragraphs, the Annual Revenue Requirement from FY 2022-23 to FY 2024-25 is shown below:-

Table 39: Annual Revenue Requirement (Rs. Crores)

Sr. No	Particulars	FY 2022-23	FY 2023-24	FY 2024-25
1	HR Expenses	249.08	262.20	276.02
2	A&G Expenses	50.71	52.82	55.03
3	R&M Expenses	55.74	57.15	58.60
4	Terminal Benefits	114.41	125.20	134.63
7	Depreciation	271.36	314.97	435.89

Sr. No	Particulars	FY 2022-23	FY 2023-24	FY 2024-25
8	Interest on Loan	169.97	198.00	318.39
9	Interest on Working capital	11.66	12.80	15.69
11	Return on Equity	212.36	247.18	343.73
12	Total	1135.28	1270.33	1637.99
13	Less: Non-Tariff Income	13.50	13.50	13.50
14	Aggregate Revenue Requirement (ARR)	1,121.78	1,256.83	1,624.49

6.38 CSPTCL would like to request the Hon'ble Commission to approve Annual Revenue Requirement as shown above.

Cumulative Surplus Gap for FY 2022-23

6.39 CSPTCL has arrived cumulative surplus gap for FY 2022-23:-

Table 40: Cumulative Surplus Gap for FY 2022-23 (Rs. Crores)

Sr. No	Particulars	FY 2020-21	FY 2021-22	FY 2022-23
1.	Opening Surplus	0	26.55	29.45
2.	Standalone Surplus	25.18	0	-
3.	Closing Surplus	25.18	26.55	29.45
4.	Interest Rate	10.90%	10.90%	9.00%
5.	Carrying Cost	1.37	2.89	1.33
6.	Total Closing Surplus	26.55	29.45	30.77

Annual Transmission Charges

6.40 CSPTCL would like to submit that it has projected Annual Transmission charges as per MYT Regulations, 2021, Clause 71.1 and 71.2 as shown below:

71. COMPONENTS OF TARIFF

71.1. Annual Transmission Charges for each year of the Control Period:

The Annual Transmission Charges for each financial year of the Control Period shall provide for the recovery of the Aggregate Revenue Requirement of the transmission licensee / STU for the respective financial year of the Control Period, reduced by the amount of Non-Tariff Income and income from other business, as approved by the Commission:

71.2. The Annual Transmission Charges of the transmission licensee shall be determined by the Commission on the basis of an application for determination of Aggregate Revenue Requirement made by the transmission licensee in accordance with Chapter-2 of this Regulation.

- 6.41 Keeping in view the above-mentioned provisions, CSPTCL has projected the net ARR as the annual transmission charges to be recovered in the relevant financial year only and would like to request the Hon'ble Commission

Transmission Losses

- 6.42 The Hon'ble Commission has not provided any transmission loss trajectory in respect of petitioner for respective years for the upcoming Control Period from FY 2022-23 to FY 2024-25 in the MYT Regulation 2021. The Petitioner in consideration with loss of last 5 years would like request the Hon'ble Commission the following loss trajectory to kindly consider and approve the same.

Table 41: Transmission Losses

Sr. No	Particulars	FY 2022-23	FY 2023-24	FY 2024-25
1	Transmission Losses (%)	3.08%	3.08%	3.08%

- 6.43 Thus, the Petitioner request the Hon'ble Commission to approve the Transmission Losses as shown above.

7: TARIFF PROPOSAL FOR LTOA/STOA/MTOA FOR FY 2022-23

- 7.1 As per Chhattisgarh State Electricity Regulatory Commission (Connectivity & Intrastate Open Access) Regulation 2011 clause 33 of PART 8, Open access charges for using State Grid have been defined. The amendment in the Chhattisgarh State Electricity Regulatory Commission (Connectivity and Intra-State Open Access) First Amendment - Regulations, 2012 has also been incorporated in the below mentioned extract of clause 33 related to open access charges in the principal regulations.

Transmission Charges

- 7.2 The transmission charges for use of the transmission system of the STU/Transmission licensee for intra-state transmission shall be regulated as under:

(a) The transmission charges for use of the intra-State transmission system shall be recovered from the long-term open access customers and the medium-term open access customers in accordance with terms and conditions of tariff specified by the Commission from time to time. These charges shall be as determined by the Commission under section 62(1) (b) of the Act, and shall be applicable as per the tariff order issued by the Commission from time to time. These charges shall be shared by the long-term open access customers and medium-term open access customers as per allotted capacity proportionately. Provided further that the transmission charges for using State grid by the long-term or medium-term open access customers for inter-State power transaction shall be shared on the basis of capacity allotted by the Central Transmission Utility (CTU).

Illustration: The basis for sharing of transmission charges shall be the maximum demand in MW served by the intra-state transmission system of the transmission licensee in the previous FY.

Suppose the maximum demand in previous FY 2015-16 is 3000 MW.

The capacity contracted by long-term open access customer is 50 MW.

The capacity contracted by medium-term open access customer is 20 MW.

The capacity served for distribution licensee shall be $3000 - 50 - 20 = 2930$ MW

Suppose if annual estimated and approved transmission charge for FY 2016-17 is Rs. 300 crores, then monthly transmission charges for the FY 2016-17 shall be shared as follows:

Distribution licensee= $(300 \times 2930) / (3000 \times 12) = \text{Rs } 24.4166 \text{ crores}$

Long-term open access customer= $(300 \times 50) / (3000 \times 12) = \text{Rs } 0.4166 \text{ crores}$

Medium-term open access customer= $(300 \times 20) / (3000 \times 12) = \text{Rs } 0.1666 \text{ crores}$

(b) The transmission charges shall be payable by the short-term open access customer for the energy approved /contracted for bilateral transaction at the point or points of injection. The energy approved shall be computed by considering the reserved capacity for bilateral transaction. The transmission charges payable by a short-term open access customer for the use of intrastate transmission system shall be calculated in accordance with the following methodology:

ST_RATE = TSC / Net annual estimated energy input to the transmission system of STU/transmission licensee for the relevant year,

Where:

ST_RATE is the rate for short-term open access customer in Rs. per kWh or in Rs/MWh

"TSC" means the annual transmission charges or annual revenue requirement on account of the transmission system as determined by the Commission. The transmission charges for use of intra-state transmission system for all type of transactions (bilateral or collective inter-State transactions through exchanges) shall be the same.

Illustration: Suppose if annual estimated and approved transmission charge for the FY 2016-17 is Rs 300 crores, and net annual estimated energy input to the transmission system of STU for the FY 2016-17 is 15000 MU.

ST_RATE = $300/15000 = 20 \text{ paisa per kWh}$ Or $ST_RATE = \text{Rs } 200/\text{MWh}$

Provided that the transmission charges for using State grid for short-term inter-State bilateral transaction shall be at the rate specified by the Commission from time to time for the energy approved by the Regional Load Despatch Centre for transmission at the point / points of injection.

Provided further that the transmission charges for using State grid for short-term inter-State collective transactions shall be at the rate specified by the Commission from time to time for energy approved by the National Load Despatch Centre for transmission separately for each point of injection and for each point of drawal.

(c) The revenue thus earned from the short-term open access customers by the STU/ transmission licensee for bilateral transaction and collective transaction in a month shall be directly disbursed to the long term and medium term customers to reduce the transmission charges of the long-term and medium term open access customers for the successive months in proportion to monthly charges payable to them. The STU/ transmission licensee shall maintain separate account for the revenue earned from short-term customers and shall submit it to the Commission.

- 7.3 Based on the above regulation and methodology illustrated therein, the Hon'ble Commission, has determined STOA charges in the previous year tariff orders. Estimated energy handled by CSPTCL to determine the short term open access charges for FY 2022-23. Looking into the trend, CSPTCL would like to propose an increase of in maximum demand every year and energy handled for arriving at short term open access charges of respective FY's of the Control Period as tabulated below:-

Table42: Proposed STOA Charges for FY 2022-23

Sr. No	Particulars	FY 2022-23
1	ARR Projected in Rs. Crores	1,121.78
2	Less: Surplus of FY 2022-23 with Carrying Cost	30.77
	Adjusted ARR for FY 2022-23 (Rs. Crore)	1091.01
3	Max Demand Projected in MW	4878
4	Energy Input in MU considering 70% Load Factor	29911.90
5	STOA Charges in Paisa/Kwh	36.47

Proposed Long & Medium term open access charges

- 7.4 The long term & medium term open access customers including CSPDCL shall pay monthly transmission charges as per ARR & MW capacity as approved for the respective FY's of the Control Period by Hon'ble Commission.
- 7.5 The Hon'ble Commission is requested to approve the above transmission charges.

8: PRAYER

8.1 CSPTCL requests the Hon'ble Commission to:

- a. **To invoke the power conferred to it under Section 62 of the Electricity Act, 2003, and to admit the petition seeking approval of Final True-up of ARR for FY21 and MYT Petition for 4th MYT Control Period To allow taxes, FBT, Cess, etc. as pass through on actual basis**
- b. To condone any inadvertent omissions/ errors/ shortcomings and permit the petitioner to add/ change/ modify/ alter this filing and make further submissions as may be required at a future date
- c. To allow the Petitioner to make alterations/additions in the said petition as and when the audited accounts are made available
- d. To allow further submissions, addition and alteration to this Petition as may be necessitated from time to time
- e. As per Clause 73.1:-

"The charges for auxiliary energy consumption in the sub-station shall be borne by the transmission licensee/ STU and shall be recoverable on reimbursement basis, as per actual"

CSPTCL is allowed to recover auxiliary energy consumption at EHV substations as a pass through in tariff. However, CSPTCL has not considered this in the instant petition and craves leave to submit the same on actuals at the time of truing up of respective year of control period.

- f. Treat the filing as complete in view of substantial compliance as also the specific requests for waivers with justification placed on record
- g. And pass such other and further orders as are deemed fit and proper in the facts and circumstances of the case in the interest of justice

BY THE APPLICANT THROUGH

Chief Engineer (Commercial & Regulatory Affairs)

CSPTCL, Raipur

9: ANNEXURES

Annexure – 1: Injection of Power (In MU) by 132 kV & above CPPs/IPPs/Biomass in FY 2020-21

S.No	CIRCLE		CPP/IPP	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Cumulative
1	RAIPUR	ACCL	ACC	0.00	0.01	0.01	0.01	0.02	0.00	0.00	0.00	0.02	0.08	0.00	0.00	0.16
2			ACME Solar Power Plant Jhalap	4.60	4.90	3.25	3.58	2.61	6.29	0.87	3.99	4.18	4.02	3.70	4.46	46.46
3			Ambuja Cement Ltd., Balodabazar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
4			Azure power Dhamdha	4.21	4.28	3.00	3.24	2.71	3.57	3.72	3.92	4.04	3.93	4.03	4.06	44.72
5			Emami Cement Ltd., Balodabazar	0.21	0.55	0.43	0.61	0.07	1.02	0.57	0.51	0.50	0.39	0.33	0.45	5.63
6		GPIL	Godawari Power & Ispat Ltd (GPIL), Siltara	0.03	0.31	0.67	0.69	0.69	0.85	0.82	1.08	1.17	1.16	1.23	0.68	9.37
7		HFAL	Hira Ferro & Alloys Ltd. (HFAL), Urla	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8			J K Lakshmi	0.00	0.04	0.22	0.27	0.54	0.09	0.15	0.15	0.04	0.05	0.06	0.16	1.78
9		JNIL	Jaiswal Neco	0.08	0.27	0.70	0.18	0.09	0.03	0.20	0.03	0.03	0.04	0.10	0.00	1.77
10		MIELMH	Monnet Ispat & Energy, MH (MIELMH)	0.00	0.73	0.75	0.68	0.78	1.60	2.05	1.63	1.61	1.86	1.16	1.79	14.64
11			Parampujya (Rajpur) Ckt-1	10.32	10.89	7.77	8.10	6.83	8.44	8.68	9.33	9.55	9.28	9.62	10.07	108.89
12			Parampujya (Hathidov) Ckt-2	10.43	11.20	7.74	8.42	6.88	8.59	8.81	9.54	9.67	9.33	9.66	10.18	110.44

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

13		REAL ISPAT	Real Ispat & Power Ltd. (RIPL)	0.11	0.05	0.03	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.01	0.01	0.22
14		SEML	Sarda Energy & Minerals (SEML)	0.89	1.86	1.86	0.31	0.09	0.00	0.35	1.93	2.07	2.10	1.96	2.10	15.53
15		SCL	Shree Cement Ltd., Baloda Bazar	0.17	0.85	1.08	1.92	2.12	1.45	1.23	1.78	1.67	0.83	0.68	1.26	15.04
16		SBMPL	Shri Bajrang Power & Ispat (SBPIL) Borjhara	0.00	0.09	0.21	0.62	0.71	1.13	0.87	0.59	0.61	0.99	0.89	1.15	7.86
17		SBPIL	Shri Bajrang Power & Ispat Ltd., TMT Dn.(SBMPL) Urla	0.00	0.75	0.68	0.65	0.52	0.61	0.56	0.55	0.58	0.56	0.47	0.55	6.48
18			Shri Bajrang Power & Ispat Ltd., Tilda division	0.00	0.49	3.47	2.42	0.64	0.23	2.16	0.50	0.34	1.03	0.11	0.05	11.44
19		SNIL	Shri Nakoda Ispat Ltd. (SNIL)	0.00	0.17	0.98	0.46	0.54	0.71	0.48	0.42	0.53	0.61	0.48	0.73	6.10
20		SKSIPL	SKS Ispat & Power Ltd. (SKSIPL)	0.00	1.52	1.75	2.17	1.67	1.44	1.57	1.75	1.93	2.21	1.59	2.01	19.61
21		UTCL	UTCL Grasim Cement Rawan	0.00	0.00	0.00	0.00	0.00	0.00	0.25	3.31	3.64	4.95	4.86	4.71	21.72
22		VGL	Vandana Global (VGL)	0.00	0.00	0.02	0.03	0.02	0.07	0.52	0.59	0.51	0.25	0.36	0.43	2.81
23		API	API Ispat, Siltara	0.11	1.45	0.85	0.45	0.82	0.82	0.60	0.39	0.19	0.35	0.34	0.40	6.78
			Nuvoco Vistas Corp. Ltd., Balodabazar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.06	0.14
1	BILA SPUR	ACPCL	Aresmeta Captive	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.07	17.17	26.25

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22


2		Chhattisgarh Hydro Power Ltd. (Gullu)-CHP Jashpur	1.88	1.74	8.70	19.10	20.31	17.16	16.36	7.99	4.73	3.15	2.34	1.50	104.97
3	ISL	Ind Syenergy Ltd.	0.00	0.37	1.09	0.73	0.55	1.04	0.87	0.55	1.02	1.32	0.45	0.71	8.70
4	JPL	Jindal Power Ltd. Raigarh-1	0.00	0.00	0.02	0.01	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.09
5	JPL	Jindal Power Ltd. Raigarh-2	0.00	0.01	0.02	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.03	0.05	0.20
6	JSPL	Jindal Steel and Power Ltd. Raigarh-1	4.48	5.27	6.33	6.23	6.54	6.26	6.75	6.50	6.50	6.33	5.50	5.98	72.66
7	JSPL	Jindal Steel and Power Ltd. Raigarh-2	4.61	5.35	6.32	6.22	6.65	6.35	6.85	6.89	6.66	6.76	5.97	6.24	74.88
8	KVKBPL	KVK Bio Energy Ltd.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9		Mahavir Energy	6.33	7.77	4.24	4.53	4.20	5.47	6.77	7.24	7.22	8.07	6.67	1.49	70.02
10	MIEL	Monnet Ispat & Energy, Kharsiya (MIEL)-1	0.90	3.93	3.74	3.20	2.42	3.11	1.90	2.65	2.77	2.60	6.09	2.80	36.11
11	MIEL	Monnet Ispat & Energy, Kharsiya (MIEL)-2	0.19	1.34	0.63	0.65	0.60	0.62	0.72	0.73	0.69	0.57	0.68	0.53	7.95
12	MSPSPL	M/s M.S.P. Steel & Power Ltd	0.29	1.55	1.87	1.74	1.64	1.91	1.91	1.66	1.80	1.52	1.03	1.51	18.44
13	RREL	RR Energy (RREL)	9.41	9.18	9.04	9.54	9.45	9.24	9.75	6.82	7.45	10.03	9.06	9.91	108.88
15	VVL	Vandana Vidyut	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
1	KORBA	CSPL Chhattisgarh Steel Power Ltd. (CSPL)	0.35	0.00	0.59	1.07	0.58	0.69	0.62	0.76	0.59	0.53	0.79	0.62	7.18

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

2		PIL	Prakash Industries Ltd. (PIL)	0.12	1.34	1.15	1.24	0.82	1.34	1.38	1.39	2.07	2.27	1.93	1.87	16.94
3		SVPL	S.V. Power, Renki	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4			Swastik Minerals, Kanberi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5			Venika Hydro Power Plant	0.49	0.45	3.70	10.53	17.43	11.98	8.06	2.28	1.03	0.56	0.30	0.12	56.93
			TOTAL IPP/CPP INJECTION	60.22	78.70	82.91	99.63	99.56	102.14	96.43	87.54	85.47	87.75	91.63	95.83	1067.81 7

Source of Data/ Informations : CE(S/S:O&M) CSPTCL

Annexure – 2: Net Drawl of Chhattisgarh in FY 2020-21 (IN MWhr)

NET DRAWAL OF CHHATTISGARH FOR THE MONTH OF 			Apr-20			May-20			Jun-20		
S. No.	Drawl point/Name of ICT/Feeder		IMPORT(+) in MWhr	EXPORT(-) in MWhr	Total MWhr	IMPORT(+) in MWhr	EXPORT(-) in MWhr	Total MWhr	IMPORT(+) in MWhr	EXPORT(-) in MWhr	Total MWhr
1	400 KV Raipur PGCIL	ICT-I	62,951.05		62,951.05	81,649.41		81,649.41	91,245.93		91,245.93
2		ICT-II	62,173.52		62,173.52	80,040.36		80,040.36	90,699.92		90,699.92
3		ICT-III	58,232.04		58,232.04	75,158.65		75,158.65	83,436.54		83,436.54
4	400 KV Khedamara CSPTCL	NTPC KSTPS-1	2,41,655.48		2,41,655.48	2,62,067.55		2,62,067.55	2,26,853.74		2,26,853.74
5		NTPC KSTPS-2	2,37,415.12		2,37,415.12	2,67,122.55		2,67,122.55	2,29,167.30		2,29,167.30
6		Raipur PGCIL		-2,77,372.86	-2,77,372.86		-2,72,211.70	-		2,83,648.42	-2,83,648.42
7		Kinapur		-1,976.58	-1,976.58		-23,712.94	-23,712.94		-	0.00
8		Koradi		-2,35,624.28	-2,35,624.28		-2,26,187.05	-		1,81,534.91	-1,81,534.91
9		Bhadrawati		-1,63,991.33	-1,63,991.33		-1,28,249.74	-		96,310.18	-96,310.18
10		Bhatapara PGCIL	89,810.18		89,810.18	1,08,979.56		1,08,979.56	81,072.61		81,072.61
11#	400 KV Raigarh PGCIL	ICT-1	90,682.77		90,682.77	79,889.93		79,889.93	75,701.80		75,701.80

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22


12#		ICT-2	91,090.42		91,090.42	78,272.65		78,272.65	76,247.47		76,247.47
13	400 KV KORBA(W) CSPGCL	NTPC KSTPS	0.00		0.00	1,246.04		1,246.04	39,673.96		39,673.96
14	400 KV Bhatapara PGCIL	ICT-1	1,13,608.16		1,13,608.16	1,17,877.66		1,17,877.66	1,11,544.66		1,11,544.66
15		ICT-2	1,14,542.22		1,14,542.22	1,16,707.96		1,16,707.96	1,12,462.35		1,12,462.35
16	220 KV Kotmikala CSPTCL	Anuppur-1		-6,442.09	-6,442.09		-9,837.31	-9,837.31		-	-20,272.93
17		Anuppur-2		-6,430.88	-6,430.88		-11,127.20	-11,127.20		-	-20,328.28
18#	220 KV Raigarh CSPTCL	Budhipadar-1	65,371.12		65,371.12	44,743.82		44,743.82	26,777.42		26,777.42
19	220 KV KORBA(E) CSPGCL	Budhipadar-2		-32,683.10	-32,683.10		-37,229.42	-37,229.42		-	-45,985.01
20		Budhipadar-3		-30,750.19	-30,750.19		-35,025.15	-35,025.15		-	-45,665.52
21*	220 KV Raigarh CSPTCL	Raigarh PGCIL-1									
22*	220 KV Raigarh CSPTCL	Raigarh PGCIL-2.									
23*	220 KV Raigarh CSPTCL	Raigarh PGCIL-3									
24	132 KV Dongargarh CSPTCL	Kimnampur		-16,476.88	-16,476.88		-16,614.56	-16,614.56		-	-7,093.26

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

25	POWERGRID Drawal	at Durg(PG) [33 KV Tertiary side of 400/200/33kV ICT-1 at Durg (Raipur-PS)]	51.04		51.04	107.85		107.85	103.30		103.30
	Adjst.	Value	0.00		0.00	27.52		27.52	-		0.00
26	132 KV Manendragarh CSPTCL	Amarkantak	0.00		0.00	-		0.00	-		0.00
27	POWERGRID Drawal	at Dharamjaygarh(PG) [33 KV Tertiary side of 400/22033 kV ICT-2 at Dharamjaygarh (PG)]	85.29		85.29	116.70		116.70	95.92		95.92
28	220KV NSPCL	BSP LINE-1	40,750.91		40,750.91	52,479.12		52,479.12	68,064.45		68,064.45
29	220KV NSPCL	BSP LINE-2	40,611.82		40,611.82	52,315.97		52,315.97	67,191.42		67,191.42
30	220KV NSPCL	BSP LINE-3	37,083.87		37,083.87	40,115.55		40,115.55	44,817.38		44,817.38
31	220KV NSPCL	BSP LINE-4	36,839.44		36,839.44	39,809.05		39,809.05	44,690.11		44,690.11
32	ICT-1&2 Loss	at NSPCL	949.42		949.42	1,265.84		1,265.84	1,463.47		1,463.47
	TOTAL		13,83,903.87	-7,71,748.21	6,12,155.67	14,99,993.76	-7,60,195.09	7,39,798.67	14,71,309.76	-7,00,838.50	7,70,471.26
A	TOTAL		13,83,767.54	-7,71,748.21	6,12,019.34	14,99,769.21	-7,60,195.09	7,39,574.12	14,71,110.54	-7,00,838.50	7,70,272.04

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

B	220KV BHILAI -BSP CKT-I/II (IMP/EXP) at CPPs/PPs/Remote End/220 KV side of ICTs (Source: CE (S/s:O&M), CSPTCL)										
1	220 KV KHEDAMARA-BSP-I		8,466.00	-1,679.00	6,787.00	21,615.00	-1,307.00	20,308.00	36,327.00	-93.00	36,234.00
2	220 KV KHEDAMARA-BSP-II		8,596.00	-1,639.00	6,957.00	21,747.00	-1,265.00	20,482.00	37,368.00	-87.00	37,281.00
C	Drawal (A+B)	CHATTISGARH	14,00,829.54	-7,75,066.21	6,25,763.34	15,43,131.21	-7,62,767.09	7,80,364.12	15,44,805.54	-7,01,018.50	8,43,787.04
D	NET DRAWL of CG (C-28,29,30,31,32)		12,44,594.07	-7,75,066.21	4,69,527.87	13,57,145.67	-7,62,767.09	5,94,378.58	13,18,578.71	-7,01,018.50	6,17,560.21
NET DRAWAL {C.G} (In MU)			1,244.59	-775.07	469.53	1,357.15	-762.77	594.38	1,318.58	-701.02	617.56

NET DRAWAL OF CHHATTISGARH FOR THE MONTH OF 			Jul-20			Aug-20			Sep-20		
S. No.	Drawl point/Name of ICT/Feeder		IMPORT(+) in MWHr	EXPORT(-) in MWHr	Total MWHr	IMPORT(+) in MWHr	EXPORT(-) in MWHr	Total MWHr	IMPORT(+) in MWHr	EXPORT(-) in MWHr	Total MWHr
1	400 KV Raipur PGCIL	ICT-I	1,15,812.65		1,15,812.65	1,05,264.04		1,05,264.04	1,02,786.40		1,02,786.40
2		ICT-II	1,14,799.52		1,14,799.52	1,03,385.12		1,03,385.12	1,02,197.78		1,02,197.78
3		ICT-III	1,07,716.47		1,07,716.47	97,857.89		97,857.89	96,157.45		96,157.45

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

4	400 KV Khedamara CSPTCL	NTPC KSTPS-1	2,53,893.62		2,53,893.62	2,35,649.55		2,35,649.55	2,29,418.25		2,29,418.25
5		NTPC KSTPS-2	2,56,517.22		2,56,517.22	2,46,842.86		2,46,842.86	2,36,577.58		2,36,577.58
6		Raipur PGCIL		-1,44,184.79	-1,44,184.79		-2,64,568.20	-2,64,568.20		-2,46,850.59	-2,46,850.59
7		Kirnapur		-1,90,025.08	-1,90,025.08		-1,31,593.89	-1,31,593.89		-	0.00
8		Koradi		-1,68,099.27	-1,68,099.27		-1,56,224.14	-1,56,224.14		-1,49,359.77	-1,49,359.77
9		Bhadrawati		-62,146.76	-62,146.76		-65,870.83	-65,870.83		-69,118.69	-69,118.69
10		Bhatapara PGCIL	64,168.80		64,168.80	66,759.92		66,759.92	52,155.02		52,155.02
11#	400 KV Raigarh PGCIL	ICT-1	98,713.04		98,713.04	58,009.50		58,009.50			0.00
12#		ICT-2	99,423.17		99,423.17	58,435.07		58,435.07			0.00
13	400 KV KORBA(W) CSPGCL	NTPC KSTPS			0.00	9,691.27		9,691.27	-		0.00
14	400 KV Bhatapara PGCIL	ICT-1	1,46,232.90		1,46,232.90	1,37,115.15		1,37,115.15	1,40,342.63		1,40,342.63
15		ICT-2	1,47,532.70		1,47,532.70	1,38,303.28		1,38,303.28	1,41,662.08		1,41,662.08
16	220 KV Kotmikala CSPTCL	Anuppur-1		-30,484.42	-30,484.42		-34,886.92	-34,886.92		-16,963.75	-16,963.75
17		Anuppur-2		-30,602.50	-30,602.50		-34,932.99	-34,932.99		-19,288.57	-19,288.57
18#	220 KV Raigarh CSPTCL	Budhipadar-1	47,130.54		47,130.54	14,289.86		14,289.86			0.00


Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

19	220 KV KORBA(E) CSPGCL	Budhipadar-2		-33,889.15	-33,889.15		-48,788.99	-48,788.99		-	-48,040.02
20		Budhipadar-3		-31,245.06	-31,245.06		-44,453.36	-44,453.36		-	-44,659.36
21*	<u>220 KV Raigarh CSPTCL</u>	<u>Raigarh PGCIL-1</u>				28,572.18		28,572.18	81,794.39		81,794.39
22*	<u>220 KV Raigarh CSPTCL</u>	<u>Raigarh PGCIL-2</u>				28,320.37		28,320.37	81,330.96		81,330.96
23*	<u>220 KV Raigarh CSPTCL</u>	<u>Raigarh PGCIL-3</u>				28,028.72		28,028.72	76,323.86		76,323.86
24	132 KV Dongargarh CSPTCL	Kirnapur	16,166.11		16,166.11	16,148.70		16,148.70	3,411.57		3,411.57
25	POWERGRID Drawal	at Durg(PG) [33 KV Tertiary side of 400/200/33kV ICT-1 at Durg (Raipur-PS)]	125.12		125.12	122.35		122.35	81.73		81.73
	Adjst.	value			0.00	-		0.00	-		0.00
26	132 KV Manendragarh CSPTCL	Amarkantak			0.00	-		0.00	-		0.00
27	POWERGRID Drawal	at Dharamjaygarh(PG) [33 KV Tertiary side of 400/22033 kV ICT-2 at Dharamjaygarh (PG)]	96.86		96.86	104.76		104.76	116.35		116.35
28	220KV NSPCL	BSP LINE-1	91,753.22		91,753.22	72,819.92		72,819.92	84,026.18		84,026.18
29	220KV NSPCL	BSP LINE-2	91,644.00		91,644.00	72,638.37		72,638.37	82,440.78		82,440.78

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

30	220KV NSPCL	BSP LINE-3	56,741.08		56,741.08	54,500.45		54,500.45	54,758.35		54,758.35
31	220KV NSPCL	BSP LINE-4	56,286.98		56,286.98	53,952.83		53,952.83	54,268.58		54,268.58
32	ICT-1&2 Loss	at NSPCL	1,880.48		1,880.48	1,695.02		1,695.02	3,536.69		3,536.69
	TOTAL		17,66,634.49	-6,90,677.03	10,75,957.46	16,28,507.16	-7,81,319.32	8,47,187.84	16,23,386.61	-5,94,280.75	10,29,105.86
A	TOTAL		17,66,412.51	-6,90,677.03	10,75,735.49	16,28,280.05	-7,81,319.32	8,46,960.74	16,23,188.53	-5,94,280.75	10,28,907.78
B	220KV BHILAI -BSP CKT-I/II (IMP/EXP) at CPPs/IPP/Remote End/220 KV side of ICTs (Source: CE (S/s:O&M), CSPTCL)										
1	220 KV KHE DAMARA-BSP-I		60,983.00	-9.00	60,974.00	40,834.00	-610.00	40,224.00	52,006.00	-286.00	51,720.00
2	220 KV KHE DAMARA-BSP-II		60,256.00	-8.00	60,248.00	40,786.00	-603.00	40,183.00	51,882.00	-280.00	51,602.00
C	Drawal (A+B)	CHATTISGARH	18,87,651.51	-6,90,694.03	11,96,957.49	17,09,900.05	-7,82,532.32	9,27,367.74	17,27,076.53	-5,94,846.75	11,32,229.78
D	NET DRAWL of CG (C-28,29,30,31,32)		15,89,345.75	-6,90,694.03	8,98,651.73	14,54,293.47	-7,82,532.32	6,71,761.15	14,48,045.95	-5,94,846.75	8,53,199.20
NET DRAWAL {C.G} (In MU)			1,589.35	-690.69	898.65	1,454.29	-782.53	671.76	1,448.05	-594.85	853.20

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

NET DRAWAL OF CHHATTISGARH FOR THE MONTH OF 			Oct-20			Nov-20			Dec-20		
S. No.	Drawl point/Name of ICT/Feeder		IMPORT(+) in MWHr	EXPORT(-) in MWHr	Total MWHr	IMPORT(+) in MWHr	EXPORT(-) in MWHr	Total MWHr	IMPORT(+) in MWHr	EXPORT(-) in MWHr	Total MWHr
1	400 KV Raipur PGCIL	ICT-I	97,442.94		97,442.94	78,672.43		78,672.43	97,683.52		97,683.52
2		ICT-II	96,631.78		96,631.78	79,205.42		79,205.42	95,332.54		95,332.54
3		ICT-III	90,880.62		90,880.62	72,561.56		72,561.56	89,540.21		89,540.21
4	400 KV Khedamara CSPTCL	NTPC KSTPS-1	2,16,533.30		2,16,533.30	2,04,974.65		2,04,974.65	1,73,127.85		1,73,127.85
5		NTPC KSTPS-2	2,18,166.35		2,18,166.35	2,06,518.32		2,06,518.32	1,90,617.25		1,90,617.25
6		Raipur PGCIL		-2,51,730.03	-2,51,730.03		-3,12,282.17	-3,12,282.17		-1,89,215.70	-1,89,215.70
7		Kirmapur		-3,494.62	-3,494.62		-	0.00		-	0.00
8		Koradi		-1,81,883.84	-1,81,883.84		-2,20,285.08	-2,20,285.08		-1,91,104.65	-1,91,104.65
9		Bhadrawati		-67,392.72	-67,392.72		-88,977.02	-88,977.02		-1,06,774.69	-1,06,774.69
10		Bhatapara PGCIL	64,964.47		64,964.47	72,301.30		72,301.30	27,995.60		27,995.60
11#	400 KV Raigarh PGCIL	ICT-1			0.00			0.00			0.00

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22


12#		ICT-2			0.00			0.00			0.00
13	400 KV KORBA(W) CSPGCL	NTPC KSTPS	28,984.58		28,984.58	-		0.00	17,910.91		17,910.91
14	400 KV Bhatapara PGCIL	ICT-1	1,12,741.57		1,12,741.57	1,01,744.02		1,01,744.02	1,25,635.43		1,25,635.43
15		ICT-2	1,13,552.47		1,13,552.47	1,02,501.35		1,02,501.35	1,26,679.69		1,26,679.69
16	220 KV Kotmikala CSPTCL	Anuppur-1		-27,524.77	-27,524.77		-24,856.61	-24,856.61		-	-16,110.84
17		Anuppur-2		-24,968.95	-24,968.95		-24,949.18	-24,949.18		-	-16,488.84
18#	220 KV Raigarh CSPTCL	Budhipadar-1			0.00			0.00			0.00
19	220 KV KORBA(E) CSPGCL	Budhipadar-2		-27,684.80	-27,684.80		-41,105.58	-41,105.58		-	-6,305.55
20		Budhipadar-3		-25,224.18	-25,224.18		-39,365.30	-39,365.30		-	-6,872.77
21*	220 KV Raigarh CSPTCL	Raigarh PGCIL-1	74,200.17		74,200.17	51,667.66		51,667.66	69,594.57		69,594.57
22*	220 KV Raigarh CSPTCL	Raigarh PGCIL-2	73,497.94		73,497.94	51,398.14		51,398.14	68,911.42		68,911.42
23*	220 KV Raigarh CSPTCL	Raigarh PGCIL-3	73,084.19		73,084.19	49,823.41		49,823.41	67,762.10		67,762.10
24	132 KV Dongargarh CSPTCL	Kimapaur		-12,080.90	-12,080.90		-22,462.22	-22,462.22		-	-16,791.30

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

25	POWERGRID Drawal	at Durg(PG) [33 KV Tertiary side of 400/200/33kV ICT-1 at Durg (Raipur-PS)]	119.86		119.86	37.87		37.87	102.70		102.70
	Adjst.	value	-		0.00	-		0.00	-		0.00
26	132 KV Manendragarh CSPTCL	Amarkantak	-		0.00	-		0.00	-		0.00
27	POWERGRID Drawal	at Dharamjaygarh(PG) [33 KV Tertiary side of 400/22033 kV ICT-2 at Dharamjaygarh (PG)]	107.63		107.63	91.36		91.36	97.48		97.48
28	220KV NSPCL	BSP LINE-1	74,938.08		74,938.08	61,542.72		61,542.72	87,050.03		87,050.03
29	220KV NSPCL	BSP LINE-2	83,831.23		83,831.23	61,250.35		61,250.35	87,153.94		87,153.94
30	220KV NSPCL	BSP LINE-3	56,885.86		56,885.86	48,849.91		48,849.91	58,215.57		58,215.57
31	220KV NSPCL	BSP LINE-4	56,308.32		56,308.32	48,368.11		48,368.11	56,843.60		56,843.60
32	ICT-1&2 Loss	at NSPCL	3,440.42		3,440.42	1,500.15		1,500.15	1,947.45		1,947.45
	TOTAL		15,36,311.79	-6,21,984.80	9,14,326.98	12,93,008.73	-7,74,283.16	5,18,725.57	14,42,201.88	-5,49,664.33	8,92,537.55
A	TOTAL		15,36,084.29	-6,21,984.80	9,14,099.49	12,92,879.51	-7,74,283.16	5,18,596.35	14,42,001.69	-5,49,664.33	8,92,337.36

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

B	220KV BHILAI -BSP CKT-I/II (IMP/EXP) at CPPs/PPs/Remote End/220 KV side of ICTs (Source: CE (S/s:O&M), CSPTCL)										
1	220 KV KHE DAMARA-BSP-I		47,089.00	-7.00	47,082.00	26,080.00	-967.00	25,113.00	54,451.00	-19.00	54,432.00
2	220 KV KHE DAMARA-BSP-II		47,534.00	-6.00	47,528.00	26,375.00	-948.00	25,427.00	54,568.00	-18.00	54,550.00
C	Drawal (A+B)	CHATTISGARH	16,30,707.29	-6,21,997.80	10,08,709.49	13,45,334.51	-7,76,198.16	5,69,136.35	15,51,020.69	-5,49,701.33	10,01,319.36
D	NET DRAWL of CG (C-28,29,30,31,32)		13,55,303.38	-6,21,997.80	7,33,305.58	11,23,823.27	-7,76,198.16	3,47,625.11	12,59,810.11	-5,49,701.33	7,10,108.78
NET DRAWAL {C.G} (In MU)			1,355.30	-622.00	733.31	1,123.82	-776.20	347.63	1,259.81	-549.70	710.11

NET DRAWAL OF CHHATTISGARH FOR THE MONTH OF 			Jan-21			Feb-21			Mar-21		
S. No.	Drawl point/Name of ICT/Feeder		IMPORT(+) in MWHr	EXPORT(-) in MWHr	Total MWHr	IMPORT(+) in MWHr	EXPORT(-) in MWHr	Total MWHr	IMPORT(+) in MWHr	EXPORT(-) in MWHr	Total MWHr
1	400 KV Raipur PGCIL	ICT-I	1,10,060.18		1,10,060.18	97,845.78		97,845.78	1,20,201.88		1,20,201.88
2		ICT-II	1,07,744.39		1,07,744.39	95,944.87		95,944.87	1,09,604.54		1,09,604.54

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

3		ICT-III	1,01,268.94		1,01,268.94	90,164.22		90,164.22	1,10,437.09		1,10,437.09
4	400 KV Khedamara CSPTCL	NTPC KSTPS-1	2,03,236.19		2,03,236.19	1,92,928.58		1,92,928.58	2,32,318.32		2,32,318.32
5		NTPC KSTPS-2	1,95,527.05		1,95,527.05	2,00,946.65		2,00,946.65	2,34,982.60		2,34,982.60
6		Raipur PGCIL		-	-1,91,045.15		-68,158.32	-68,158.32		-	-1,46,456.72
7		Kinapur		-1,610.84	-1,610.84		-	-2,21,534.62		-	-1,96,559.48
8		Koradi		-	-1,94,177.73		-	-1,45,508.50		-	-1,06,878.10
9		Bhadrawati		-82,613.74	-82,613.74		-54,788.21	-54,788.21		-	-95,128.65
10		Bhatapara PGCIL	3,726.47		3,726.47	29,895.45		29,895.45	23,482.36		23,482.36
11#	400 KV Raigarh PGCIL	ICT-1			0.00			0.00			0.00
12#		ICT-2			0.00			0.00			0.00
13	400 KV KORBA(W) CSPGCL	NTPC KSTPS	2,45,041.89		2,45,041.89	2,54,160.79		2,54,160.79	3,11,261.95		3,11,261.95
14	400 KV Bhatapara PGCIL	ICT-1	1,53,716.39		1,53,716.39	1,34,823.91		1,34,823.91	1,64,613.15		1,64,613.15
15		ICT-2	1,55,072.06		1,55,072.06	1,36,016.47		1,36,016.47	1,66,118.08		1,66,118.08
16	220 KV Kotmikala CSPTCL	Anuppur-1	311.26		311.26		-4,217.23	-4,217.23	24,999.65		24,999.65
17		Anuppur-2	383.04		383.04		-4,315.28	-4,315.28	25,091.66		25,091.66


Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

18#	220 KV Raigarh CSPTCL	Budhipadar-1			0.00			0.00			0.00
19	220 KV KORBA(E) CSPGCL	Budhipadar-2		-12,624.19	-12,624.19		-10,301.20	-10,301.20		-	-17,677.81
20		Budhipadar-3		-19,805.94	-19,805.94		-10,594.53	-10,594.53		-	-15,231.54
21*	220 KV Raigarh CSPTCL	Raigarh PGCIL-1	1,00,969.60		1,00,969.60	1,03,286.01		1,03,286.01	1,30,561.99		1,30,561.99
22*	220 KV Raigarh CSPTCL	Raigarh PGCIL-2.	99,952.75		99,952.75	1,00,993.33		1,00,993.33	1,29,010.09		1,29,010.09
23*	220 KV Raigarh CSPTCL	Raigarh PGCIL-3	98,767.30		98,767.30	1,01,269.02		1,01,269.02	1,28,005.97		1,28,005.97
24	132 KV Dongargarh CSPTCL	Kirnapur		-14,326.95	-14,326.95		-265.81	-265.81	9,947.28		9,947.28
25	POWERGRID Drawal	at Durg(PG) [33 KV Tertiary side of 400/200/33kV ICT-1 at Durg (Raipur-PS)]	134.44		134.44	102.99		102.99	90.01		90.01
	Adjst.	value			0.00		-	0.00	-		0.00
26	132 KV Manendragarh CSPTCL	Amarkantak			0.00		-	0.00	-		0.00
27	POWERGRID Drawal	at Dharamjaygarh(PG) [33 KV Tertiary side of 400/22033 kV ICT-2 at Dharamjaygarh (PG)]	86.72		86.72	76.63		76.63	97.76		97.76

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

28	220KV NSPCL	BSP LINE-1	83,183.07		83,183.07	84,664.01		84,664.01	1,02,549.76		1,02,549.76
29	220KV NSPCL	BSP LINE-2	83,123.34		83,123.34	84,598.17		84,598.17	1,02,624.83		1,02,624.83
30	220KV NSPCL	BSP LINE-3	57,898.54		57,898.54	55,631.37		55,631.37	64,459.78		64,459.78
31	220KV NSPCL	BSP LINE-4	57,333.89		57,333.89	56,005.47		56,005.47	63,957.61		63,957.61
32	ICT-1&2 Loss	at NSPCL	1,969.22		1,969.22	2,114.57		2,114.57	2,583.59		2,583.59
	TOTAL		18,59,506.72	-5,16,204.54	13,43,302.18	18,21,468.30	-5,19,683.71	13,01,784.59	22,56,999.97	-5,77,932.30	16,79,067.67
A	TOTAL		18,59,285.56	-5,16,204.54	13,43,081.02	18,21,288.68	-5,19,683.71	13,01,604.97	22,56,812.20	-5,77,932.30	16,78,879.89
B	220KV BHILAI -BSP CKT-I/II (IMP/EXP) at CPPs/PPs/Remote End/220 KV side of ICTs (Source: CE (S/s:O&M), CSPTCL)										
1	220 KV KHE DAMARA-BSP-I		47,086.00	-35.00	47,051.00	52,362.00	-31.00	52,331.00	68,784.00	-2.00	68,782.00
2	220 KV KHE DAMARA-BSP-II		46,473.00	-34.00	46,439.00	51,505.00	-31.00	51,474.00	68,533.00	-2.00	68,531.00
C	Drawal (A+B)	CHATTISGARH	19,52,844.56	-5,16,273.54	14,36,571.02	19,25,155.68	-5,19,745.71	14,05,409.97	23,94,129.20	-5,77,936.30	18,16,192.89
D	NET DRAWL of CG (C-28,29,30,31,32)		16,69,336.50	-5,16,273.54	11,53,062.95	16,42,142.08	-5,19,745.71	11,22,396.36	20,57,953.62	-5,77,936.30	14,80,017.32
NET DRAWAL {C.G} (In MU)			1,669.34	-516.27	1,153.06	1,642.14	-519.75	1,122.40	2,057.95	-577.94	1,480.02

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

NET DRAWAL OF CHHATTISGARH FOR THE MONTH OF 			Yearly		
S. No.	Drawl point/Name of ICT/Feeder		IMPORT(+) in MWHr	EXPORT(-) in MWHr	Total MWHr
1	400 KV Raipur PGCIL	ICT-I	11,61,616.22	-	11,61,616.22
2		ICT-II	11,37,759.76	-	11,37,759.76
3		ICT-III	10,73,411.67	-	10,73,411.67
4	400 KV Khedamara CSPTCL	NTPC KSTPS-1	26,72,657.08	-	26,72,657.08
5		NTPC KSTPS-2	27,20,400.86	-	27,20,400.86
6		Raipur PGCIL	-	-26,47,724.65	-26,47,724.65
7		Kirnapur	-	-7,70,508.04	-7,70,508.04
8		Koradi	-	-21,56,867.33	-21,56,867.33
9		Bhadrawati	-	-10,81,362.57	-10,81,362.57
10		Bhatapara PGCIL	6,85,311.76	-	6,85,311.76
11#	400 KV Raigarh PGCIL	ICT-1	4,02,997.03	-	4,02,997.03
12#		ICT-2	4,03,468.79	-	4,03,468.79

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

13	400 KV KORBA(W) CSPGCL	NTPC KSTPS	9,07,971.39	-	9,07,971.39
14	400 KV Bhatapara PGCIL	ICT-1	15,59,995.62	-	15,59,995.62
15		ICT-2	15,71,150.72	-	15,71,150.72
16	220 KV Kotmikala CSPTCL	Anuppur-1	25,310.90	-1,91,596.87	-1,66,285.97
17		Anuppur-2	25,474.70	-1,93,432.68	-1,67,957.98
18#	220 KV Raigarh CSPTCL	Budhipadar-1	1,98,312.77	-	1,98,312.77
19	220 KV KORBA(E) CSPGCL	Budhipadar-2	-	-3,62,314.83	-3,62,314.83
20		Budhipadar-3	-	-3,48,892.88	-3,48,892.88
21*	220 KV Raigarh CSPTCL	<u>Raigarh PGCIL-1</u>			
22*	220 KV Raigarh CSPTCL	<u>Raigarh PGCIL-2.</u>			
23*	220 KV Raigarh CSPTCL	<u>Raigarh PGCIL-3</u>			
24	132 KV Dongargarh CSPTCL	Kirnapaur	45,673.67	-1,06,111.88	-60,438.22
25	POWERGRID Drawal	at Durg(PG) [33 KV Tertiary side of 400/200/33kV ICT-1 at Durg (Raipur-PS)]	1,179.25	-	1,179.25

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	Adjst.	value	27.52	-	27.52
26	132 KV Manendragarh CSPTCL	Amarkantak	-	-	-
27	POWERGRID Drawal	at Dharamjaygarh(PG) [33 KV Tertiary side of 400/22033 kV ICT-2 at Dharamjaygarh (PG)]	1,173.47	-	1,173.47
28	220KV NSPCL	BSP LINE-1	9,03,821.48	-	9,03,821.48
29	220KV NSPCL	BSP LINE-2	9,09,424.23	-	9,09,424.23
30	220KV NSPCL	BSP LINE-3	6,29,957.71	-	6,29,957.71
31	220KV NSPCL	BSP LINE-4	6,24,664.00	-	6,24,664.00
32	ICT-1&2 Loss	at NSPCL	24,346.31	-	24,346.31
	TOTAL		1,95,83,233.04	-78,58,811.73	1,17,24,421.30
A	TOTAL		1,95,80,880.31	-78,58,811.73	1,17,22,068.58
B	220KV BHILAI -BSP CKT-I/II (IMP/EXP) at CPPs/PPs/Remote End/220 KV side of ICTs (Source: CE (S/s:O&M), CSPTCL)		-	-	-
1	220 KV KHEDAMARA- BSP-I		5,16,083.00	-5,045.00	5,11,038.00

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2	220 KV KHEDAMARA- BSP-II		5,15,623.00	-4,921.00	5,10,702.00
C	Drawal (A+B)	CHATTISGARH	2,06,12,586.31	-78,68,777.73	1,27,43,808.58
D	NET DRAWL of CG (C-28,29,30,31,32)		1,75,20,372.59	-78,68,777.73	96,51,594.85
NET DRAWAL {C.G} (In MU)			17,520.37	-7,868.78	9,651.59

NOTE:	1)*#	a)	Consequent upon LILO arrangement of 220 KV Raigarh(CSPTCL/WR)-Budhipadar (OPTCL/ER) line at 220 KV Raigarh (PGCIL) on 25/08/2018, the computation of Chhattisgarh drawal at Raigarh (PGCIL) which is = Summation of meters on 400 KV side of 400/220 KV ICTs (i.e., ICT-1 and ICT-2) at Raigarh (PGCIL) minus export to ER (Budhipadar) is revised w.e.f. 17/08/2020 to = Summation of meters on 220 KV Raigarh (CSPTCL) line 1,2 & 3 at Raigarh (PGCIL), post cahrging of 220 KV Raigarh (PGCIL) - Budhipadar (OPTCL/ER).
		b)	Accordingly, SEM data readings were provided by WRLDC for 220 KV Raigarh (CSPTCL) -Raigarh (PGCIL) line 1,2 & 3 from 17/08/2020 onwards.
		c)	Hence 220KV Raigarh(CSPTCL)-Budhipadar line is no longer in service from 17/08/2020.

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	2)	The data of 220 KV Khedamara-BSP Ckt-1 & Ckt-2 is to be converted into MWH and for export (-) sign is to be used.
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Annexure – 3: Consumer-wise consumption in kWh of EHV Consumers of CSPDCL in FY 2020-21

Sr No	BP	Name	Division	Supply Voltage	CD (KVA)	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20
1	1000007	THE DIVIN.RAIL.MANAGER	E.E. (O&M) DN SURAJPUR	132	9,000	11,51,460	12,71,820	10,13,760	11,63,880	9,49,020	11,98,980
2	1000039	THE DIVIN.RAILWAY MANAGER	E.E. (O&M) DN Manendragarh	132	19,500	27,56,520	32,12,040	28,59,720	31,56,960	29,01,600	31,22,880
3	1000067	THE DIVIN.ELECT.ENGINEER	E.E.(O&M) RAIGARH	132	23,000	36,39,720	49,27,320	52,86,360	55,60,920	57,55,920	63,19,920
4	1000074	THE DIVN.ELECT.ENG.(TRD)	E.E(O&M) RAIGARH -II	132	12,500	19,75,380	30,03,960	30,94,860	32,80,740	33,92,340	34,88,100
5	1000120	M/s. VANDANA VIDYUT LTD.	E.E. City East Bilaspur	132	800	15,120	16,680	21,000	32,160	20,640	240
6	1000138	THE DIVNL.ELECT.ENGG.	E.E. (O&M) DN BILASPUR	132	22,500	40,18,800	48,77,880	51,43,920	50,82,120	51,89,400	57,27,600
7	1000160	M/S THE DIVN ELECTRICAL ENGINE	E.E.(O&M) Dn Chanpa	132	21,000	36,40,680	49,23,240	46,76,760	50,23,200	53,56,440	58,98,720
8	1000165	THE DIVN.ELEC.ENGINEER(TRD)	E.E.(O&M) AKALTARA	132	13,000	20,46,000	27,60,060	27,18,240	27,65,280	29,17,140	30,62,940
9	1000169	M/S PRAKASH INDUSTRIES LTD	E.E.(O&M) Dn Chanpa	132	40,000	21,32,400	47,98,320	48,27,600	49,72,800	64,71,120	47,94,960
10	1000185	M/S DY.Chief Engineer(E&M)	E.E.(O&M) KORBA	132	35,000	1,46,72,490	1,57,60,885	1,45,52,583	1,49,33,330	1,58,22,960	1,56,46,880
11	1000194	THE DIVN.ELECT.ENGG.(TRD)	E.E.(City) Dn. Korba	132	15,500	41,66,760	35,43,900	40,63,920	41,28,180	46,19,160	40,03,440

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12	1000200	THE DIVN.ELECT.ENGINEER(TRD)	E.E. (O&M) Dn Pendra Road	132	16,500	18,27,780	23,50,500	23,36,040	24,08,460	28,84,440	29,63,580
13	1000201	THE DIVN.ELECT.ENGR.(TRD)	E.E. (O&M) Dn Pendra Road	220	25,000	28,94,550	35,26,200	40,18,800	42,85,050	50,11,500	49,83,300
14	1000235	THE DIVN.ELECT.ENGINEER(TRD)	E.E. (CITY) EAST DN. BHILAI	132	18,000	30,18,720	35,62,320	33,07,200	33,57,360	35,36,160	37,49,520
15	1000338	THE SR. DIVN.ELECT.ENGG.(T.D.)	E.E. (O&M) DN JAGDALPUR	132	9,000	5,96,340	8,26,560	9,17,040	9,23,040	6,43,680	8,47,680
16	1000339	THE SR. DIVN.ELECT.ENGG.(T.D.)	E.E. (O&M) DN JAGDALPUR	132	9,000	4,95,960	6,37,800	6,90,840	7,11,120	5,17,680	6,49,320
17	1000340	THE SR. DIVN.ELECT.ENGG.(T.D.)	E.E. (O&M) DN JAGDALPUR	132	12,000	5,01,480	6,74,760	7,65,000	7,57,920	5,46,600	7,25,880
18	1000360	THE SR. DIVN.ELECT.ENGG.(T.D.)	E.E. (O&M) DN DANTEWADA	132	8,700	6,27,000	8,59,920	9,44,640	9,72,360	6,87,360	9,03,840
19	1000361	THE SR. DIVN.ELECT.ENGG.(T.D.)	E.E. (O&M) DN DANTEWADA	132	12,000	10,81,320	13,16,520	14,17,080	15,74,880	12,78,960	16,17,120
20	1000362	THE SR.DIV.ELECT.ENGG.(T.D.)	E.E. (O&M) DN DANTEWADA	132	12,000	7,31,640	9,59,160	10,28,760	10,80,120	7,74,720	9,99,360
21	1000437	M/S VANDANA GLOBAL LTD.	E.E. (O&M) SILTARA	132	18000	3,40,800	1,02,64,080	47,99,280	19,78,320	19,23,120	19,56,720
22	1000455	M/S SHREE NAKODA ISPAT LTD.	E.E. (O&M) SILTARA	132	12,000	2,14,680	19,24,680	9,20,640	12,45,240	11,75,880	8,56,320
	1000478	M/S NANDAN STEELS & POWER LTD.	E.E. (O&M) SILTARA	132	30,000						
23	1000490	M/S.CENTURY CEMENT FACTORY	E.E. (O&M) DN RAIPUR	132	10,000	6,01,560	8,99,550	9,88,020	6,48,090	7,73,010	6,66,090

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24	1000491	M/S SARDA ENERGY & MINERALS LT	E.E. (O&M) SILTARA	132	0	2,78,640	4,680	4,680	-	47,957	-
25	1000492	DIV. ELECT. ENG. (TRD)DRM	E.E. (O&M) SILTARA	132	20,000	40,62,480	57,59,520	42,76,320	46,12,320	45,76,080	50,98,800
26	1000557	M/S GODAWARI POWER AND ISPAT	E.E. (O&M) SILTARA	132	4000	21,08,400	15,50,400	14,16,960	13,56,720	14,17,440	11,53,680
27	1000559	M/S MONNET ISPAT&ENERGY LTD.UN	E.E. (O&M) DN RAIPUR	132	0	2,69,040	71,040	37,920	40,800	54,960	18,960
28	1000646	M/S. ULTRATECH CEMENT LIMITED	E.E. (O&M) DN BHATAPARA	132	10,000	5,30,040	83,040	1,800	39,000	48,720	51,360
29	1000648	M/S NUVOCO VISTAS CORP. LTD (earlier LAFARGE INDIA LIMITED)	E.E. (O&M) DN BALODA BAZAR	132	36,000	7,19,760	57,63,120	1,36,08,000	1,36,14,240	1,20,75,360	92,73,360
30	1000651	DIVN.ELECT. ENGINEER (TRD)	E.E. (O&M) DN BHATAPARA	132	20,000	30,92,040	42,40,800	42,09,300	42,55,020	41,01,480	48,03,660
31	1000820	M/S SHRI BAJRANG POWER & ISPAT	E.E. (O&M) DN URLA	132	4,000	1,70,640	2,83,320	3,44,640	2,16,960	5,72,520	4,21,200
32	1000829	THE SR.DIVNL.ELEC.ENGR.(TRD)	E.E. (O&M) DN DONGARGARH	132	22,500	23,27,760	28,71,240	25,18,920	23,05,680	25,36,560	27,70,440
33	1000863	THE SR.DIVNL.ELEC.ENGR. (TRD)	E.E. (O&M) DN RAJNANDGAON	132	16,000	18,43,080	22,37,232	18,78,240	17,95,560	20,40,600	22,25,640
34	1000871	M/S M.S.P. Steel & Power Ltd	E.E.(O&M) RAIGARH	132	4,000	8,90,000	6,54,000	5,30,000	5,57,000	6,00,000	5,64,000
35	1000905	M/S JINDAL STEEL & POWER LTD.	E.E.(O&M) RAIGARH	220	25,000	11,37,600	15,18,000	12,37,200	13,30,800	12,94,800	14,06,400
36	1000911	M/S SHRI BAJRANG POWER ISPAT	E.E CITY DN NORTH RAIPUR	132	7000	3,22,680	36,15,360	29,05,680	13,38,480	12,35,040	7,81,560

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37	1000914	The Chief Finance Manager,BSP	E.E. (CITY) WEST DN.BHILAI	220	2,00,000	1,89,75,197	1,30,63,491	54,13,691	48,85,560	46,90,658	87,92,296
38	1000919	M/s ESSAR STEEL INDIA LTD.	E.E. (O&M) DN DANTEWADA	132	32,000	1,01,83,680	1,29,22,080	1,34,46,960	1,31,83,920	1,25,09,520	1,10,41,200
	1001063	M/S ARTI SPONG &POWER LTD AART	E.E. (O&M) SILTARA	132	14,000						
	1001102	M/S MARUTI FERROUS (P)LTD	E.E. (O&M) SILTARA	132	16,300						
39	1001152	M/S S.K.S. ISPAT &POWER LIM	E.E. (O&M) SILTARA	132	0	3,84,000	52,000	32,000	52,000	32,000	44,000
40	1001157	M/S.HEERA FERRO ALLOYS UNIT-I	E.E. (O&M) DN URLA	132	16,000	3,42,360	27,26,280	39,41,280	37,64,280	37,64,280	37,62,840
41	1001315	M/S JAYASWALS NECO INDUSTRIES	E.E. (O&M) SILTARA	220	54,000	15,92,400	16,77,600	14,09,700	68,56,800	1,11,05,400	1,13,35,200
42	1001343	M/S REAL ISPAT & POWER LTD.	E.E CITY DN NORTH RAIPUR	132	5,000	5,94,600	81,35,760	87,87,960	96,86,520	97,39,920	94,12,200
43	1001344	M/S PRIME ISPAT LTD	E.E CITY DN NORTH RAIPUR	132	11,000	1,15,680	9,46,800	78,31,080	75,72,600	68,93,880	63,84,000
44	1001564	M/S SAI LILAGAR POWER LTD.	E.E.(O&M) AKALTARA	132	0	-	-	-	-	-	-
45	1001701	M/S A.P.I. ISPAT&POWER TECH(P)	E.E. (O&M) SILTARA	132	2000	3,29,760	4,05,840	4,88,160	6,66,240	6,07,680	14,13,840
46	1002097	M/S R.R.ENERGY PVT. LTD.	E.E.(O&M) RAIGARH	132	1,100	3,480	18,960	12,000	12,960	2,400	3,480
47	1002631	M/S ACC LIMITED	E.E. (CITY) EAST DN. BHILAI	132	30,000	17,85,960	78,46,740	1,11,50,640	92,52,360	49,02,840	97,15,770

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	1003023	M/S ALANKAR ALLOYS (P)LTD.	E.E CITY DN NORTH RAIPUR	132	15,500						
48	1003095	M/S MAHAMAYA STEEL INDUSTRIES	E.E. (O&M) DN URLA	132	11,000	70,440	89,280	18,37,440	33,79,080	33,45,300	18,27,240
49	1003137	M/S Chhattisgarh Steel & Power	E.E.(O&M) Dn Chanpa	132	0	1,01,040	9,840	11,760	12,480	1,50,000	81,600
50	1003664	M/S MONNET ISPAT & ENERGY LTD.	E.E(O&M) RAIGARH -II	132	0	2,52,000	1,91,040	55,200	6,47,040	12,480	2,77,440
51	1003761	M/S MAHAVIR ENERGY &	E.E.(O&M) RAIGARH	132	1,500	16,000	2,800	64,500	40,100	35,100	27,600
52	1004022	M/S Gen.Manager NTPC SAIL POWE	E.E. (CITY) EAST DN. BHILAI	220	0	-	-	-	-	-	-
53	1004119	M/S Bhilai Jaypee Cement Ltd.	E.E. (CITY) EAST DN. BHILAI	132	9,000	1,48,230	7,43,310	6,42,510	6,45,840	5,40,090	4,80,870
54	1004207	M/S AMBUJA CEMENT LIMITED	E.E. (O&M) DN BALODA BAZAR	132	18,000	14,00,520	10,21,320	1,30,680	9,42,600	10,04,040	13,27,440
55	1004443	THE CHIEF GENERAL MANAGER, SECL, Kusmunda Area, Korba	E.E.(O&M) KORBA	132	15,000						
56	1004863	M/S S.V.POWER (P)LTD.	E.E.(O&M) KORBA	132	3,000	1,51,680	1,49,760	1,35,840	1,35,360	1,22,400	1,05,600
57	1006194	THE S.E.(ELECTRICAL ERECTION)	E.E.(O&M) Dn Chanpa	132	15000	49,500	-	48,240	-	-	5,13,180
58	1006433	M/S SHRI BAJRANG POWER &	E.E. (O&M) DN RAIPUR	132	0	5,14,800	7,49,040	3,86,640	1,69,920	3,58,320	6,28,560
59	1006446	THE CHIEF GENERAL MANAGER	E.E.(O&M) KORBA	132	16,500	47,95,200	58,49,200	56,77,200	67,42,800	65,98,625	63,82,575

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60	1006524	M/S LAFARJ INDIA LIMITED	E.E.(O&M) AKALTARA	132	27,000	9,35,040	61,13,760	39,48,240	96,66,720	73,44,480	33,31,680
61	1018925	M/S PROJECT MANAGER	E.E. (O&M) DN JAGDALPUR	132	5,000	-	21,240	-	-	-	-
62	1019711	M/S J.K.Lakshmi Cement Ltd.	E.E. (O&M) DN BHILAI	220	31,111	27,60,800	66,46,000	5,74,400	2,41,600	3,71,200	26,32,400
63	1020082	M/S SWASTIK POWER& MINERALS RE	E.E.(O&M) KORBA	132	1,389	29,040	31,200	30,480	29,760	28,560	29,040
64	1020210	M/S SHREE CEMENT LTD.,	E.E. (O&M) DN BHATAPARA	132	20,000	6,46,080	7,81,920	8,49,600	4,36,320	2,07,600	8,82,720
65	1021050	M/S THE SE(EE)2X500MW	E.E.(O&M) Dn Champa	400	10,000	35,673	-	27,927	-	-	4,64,836
66	1021100	M/S EMAMI CEMENT LTD.,	E.E. (O&M) DN BALODA BAZAR	132	13,500	5,35,200	1,18,200	2,36,520	5,75,520	16,65,480	1,14,480
67	1021220	M/S ACME RAIPUR SOLAR PVT.LTD.	E.E. (O&M) DN MAHASAMUND	132	481	21,420	19,800	19,080	20,520	23,220	21,960
68	1022545	M/S AZURE POWER PVT.LTD	E.E. (O&M) Saja	132	481	35,010	35,460	33,480	36,180	38,610	37,080
69	1023243	THE SR. DIVISIONAL ELECTRICAL	E.E. (O&M) DN JAGDALPUR	132	5,000	3,03,120	4,20,240	4,84,800	4,68,600	3,40,800	4,55,760
70	1023261	THE PROJECT MANAGER,NMDC LTD.	E.E. (O&M) DN JAGDALPUR	220	30,000	19,29,600	22,94,400	23,83,200	27,67,200	28,12,800	26,14,800
71	1023314	M/s Chhattisgarh Hydro Power Ltd.	EE(O&M) DN, Jashpur	132	0	9,240	10,440	3,720	120	-	480
72	1023870	M/S PARAMPUJYA SOLAR ENERGY PV	E.E. (O&M) Saja	132	500	39,900	36,600	35,400	38,400	40,200	42,450

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73	1023872	M/S PARAMPUJYA SOLAR ENERGY PV	E.E. (O&M) Saja	132	500	36,300	36,000	34,200	35,400	37,200	37,650
74	1023890	M/s Rajshthan Rajya Vidyut Utp	E.E. (O&M) DN Ambikapur	132	10,000	12,68,280	16,08,120	13,79,760	19,64,760	19,50,780	18,54,360
75	1024356	IND SYNERGY LIMITED	E.E.(O&M) RAIGARH	132	4,000	3,12,480	7,76,040	3,94,200	5,45,760	7,05,960	4,28,400
76	1024440	M/S SURGUJA RAIL CORRIDOR (P)	E.E. (O&M) DN SURAJPUR	132	10,000	12,54,780	14,87,940	11,57,880	14,19,120	12,06,660	13,05,960
77	1025770	THE GENERAL MANAGER, NTPC LTD.	E.E.(O&M) RAIGARH	132	4,000	-	-	-	-	-	-
78	1026053	Venika Hydro Projects Private	E.E. (O&M) DN SURAJPUR	132	350	26,460	30,780	15,480	540	180	-
79	1026380	DEE/TRD/EAST COAST RAILWAY SAM	E.E. (O&M) DN MAHASAMUND	132	8,000	20,61,600	29,20,320	11,80,560	15,63,840	15,60,720	13,26,720
80	1026450	THE Sr. DIVISIONAL ELECT. ENGI	E.E.(O&M) RAIGARH	132	9,000						
(a)		Total [KWH]				12,49,45,870	18,55,39,508	17,76,54,131	18,99,62,930	18,84,99,750	19,18,90,157
		Total [MU]				124.95	185.54	177.65	189.96	188.50	191.89
(b)	1000914	The Chief Finance Manager,BSP	E.E. (CITY) WEST DN.BHILAI	220	2,00,000	18975197	1,30,63,491	54,13,691	48,85,560	46,90,658	87,92,296
(c)	1021050	M/S THE SE(EE)2X500MW	E.E.(O&M) Dn Champa	400	10,000	35673	0	27,927	0	0	4,64,836
		Total (KWH) = (a) - (b) - (c)				10,59,35,000	17,24,76,017	17,22,12,513	18,50,77,370	18,38,09,092	18,26,33,025

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(d)		Grand total (in MU) = (a) - (b) - (c) Total EHV sales of ED(Rev), CSPDCL, Raipur minus EHV sales Of BSP and ABVTPS, Marwa.	105.94	172.48	172.21	185.08	183.81	182.63
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Sr No	BP	Name	Division	Supply Voltage	CD (KVA)	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Total for FY:2020-21
1	1000007	THE DIVIN.RAIL.MANAGER	E.E. (O&M) DN SURAJPUR	132	9,000	15,61,260	16,73,280	17,48,340	17,73,420	16,75,560	16,97,100	1,68,77,880
2	1000039	THE DIVIN.RAILWAY MANAGER	E.E. (O&M) DN Manendragarh	132	19,500	42,84,600	41,99,040	44,80,080	45,01,800	41,06,160	45,29,520	4,41,10,920
3	1000067	THE DIVIN.ELECT.ENGINEER	E.E.(O&M) RAIGARH	132	23,000	72,72,840	74,02,680	76,28,880	74,63,640	69,45,960	67,22,016	7,49,26,176
4	1000074	THE DIVN.ELECT.ENG.(TRD)	E.E(O&M) RAIGARH -II	132	12,500	40,13,940	40,67,340	41,34,420	39,39,360	35,22,000	44,59,260	4,23,71,700
5	1000120	M/s. VANDANA VIDYUT LTD.	E.E. City East Bilaspur	132	800	120	240	240	240	120	120	1,06,920
6	1000138	THE DIVNL.ELECT.ENGG.	E.E. (O&M) DN BILASPUR	132	22,500	67,55,640	69,16,320	73,63,920	82,11,000	73,63,080	86,49,000	7,52,98,680
7	1000160	M/S THE DIVN ELECTRICAL ENGINE	E.E.(O&M) Dn Chanpa	132	21,000	69,46,200	66,68,880	70,86,840	69,05,880	67,33,800	79,22,280	7,17,82,920
8	1000165	THE DIVN.ELEC.ENGINEER (TRD)	E.E.(O&M) AKALTARA	132	13,000	35,42,100	34,98,240	36,84,960	39,21,780	37,45,560	43,57,140	3,90,19,440
9	1000169	M/S PRAKASH INDUSTRIES LTD	E.E.(O&M) Dn Chanpa	132	40,000	44,59,680	41,32,560	35,41,920	32,88,960	36,92,160	42,34,800	5,13,47,280

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10	1000185	M/S DY.Chief Engineer(E&M)	E.E.(O&M) KORBA	132	35,000	1,50,90,800	1,44,81,840	1,57,17,280	1,58,88,400	1,52,37,280	1,57,00,480	18,35,05,208
11	1000194	THE DIVN.ELECT.ENGG.(TRD)	E.E.(City) Dn. Korba	132	15,500	48,90,480	44,99,760	44,23,560	50,38,920	47,10,960	58,84,920	5,39,73,960
12	1000200	THE DIVN.ELECT.ENGINEER(TRD)	E.E. (O&M) Dn Pendra Road	132	16,500	26,91,960	26,67,300	29,18,040	33,64,860	27,88,980	31,24,380	3,23,26,320
13	1000201	THE DIVN.ELECT.ENGR.(TRD)	E.E. (O&M) Dn Pendra Road	220	25,000	45,73,650	45,90,600	49,71,750	55,76,100	42,22,950	51,06,300	5,37,60,750
14	1000235	THE DIVN.ELECT.ENGINEER(TRD)	E.E. (CITY) EAST DN. BHILAI	132	18,000	49,55,640	51,38,400	58,49,520	62,92,320	61,10,880	66,16,080	5,54,94,120
15	1000338	THE SR. DIVN.ELECT.ENGG.(T.D.)	E.E. (O&M) DN JAGDALPUR	132	9,000	10,21,560	13,00,620	15,75,900	16,31,760	15,32,760	16,64,340	1,34,81,280
16	1000339	THE SR. DIVN.ELECT.ENGG.(T.D.)	E.E. (O&M) DN JAGDALPUR	132	9,000	7,45,320	9,54,240	11,16,360	12,13,800	11,32,440	12,58,560	1,01,23,440
17	1000340	THE SR. DIVN.ELECT.ENGG.(T.D.)	E.E. (O&M) DN JAGDALPUR	132	12,000	8,35,920	10,54,560	12,32,760	13,03,440	11,89,200	13,01,040	1,08,88,560
18	1000360	THE SR. DIVN.ELECT.ENGG.(T.D.)	E.E. (O&M) DN DANTEWADA	132	8,700	10,65,936	13,02,720	14,85,660	15,22,080	14,30,820	15,54,240	1,33,56,576
19	1000361	THE SR. DIVN.ELECT.ENGG.(T.D.)	E.E. (O&M) DN DANTEWADA	132	12,000	17,82,720	21,36,360	25,28,400	26,44,800	24,43,560	26,13,840	2,24,35,560
20	1000362	THE SR.DIV.ELECT.ENGG.(T.D.)	E.E. (O&M) DN DANTEWADA	132	12,000	11,85,720	15,29,520	18,36,120	19,22,280	17,57,280	18,84,060	1,56,88,740
21	1000437	M/S VANDANA GLOBAL LTD.	E.E. (O&M) SILTARA	132	18000	16,15,200	13,59,600	15,47,520	18,79,200	16,01,520	21,88,560	3,14,53,920
22	1000455	M/S SHREE NAKODA ISPAT LTD.	E.E. (O&M) SILTARA	132	12,000	10,67,520	12,38,040	11,69,880	12,89,400	14,18,280	13,56,240	1,38,76,800

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	10004 78	M/S NANDAN STEELS & POWER LTD.	E.E. (O&M) SILTARA	132	30,00 0					80,06,64 0	1,57,70,6 40	2,37,77,28 0
23	10004 90	M/S.CENTURY CEMENT FACTORY	E.E. (O&M) DN RAIPUR	132	10,00 0	9,49,500	8,18,280	10,05,390	12,16,530	9,44,730	9,84,420	1,04,95,17 0
24	10004 91	M/S SARDA ENERGY & MINERALS LT	E.E. (O&M) SILTARA	132	0	38,363	5,400	6,120	9,000	6,480	6,120	4,07,440
25	10004 92	DIV. ELECT. ENG. (TRD)DRM	E.E. (O&M) SILTARA	132	20,00 0	62,24,400	60,78,480	68,05,440	74,09,760	68,39,52 0	76,12,080	6,93,55,20 0
26	10005 57	M/S GODAWARI POWER AND ISPAT	E.E. (O&M) SILTARA	132	4000	14,28,480	10,73,760	11,68,800	12,30,240	8,55,600	15,06,960	1,62,67,44 0
27	10005 59	M/S MONNET ISPAT&ENERGY LTD.UN	E.E. (O&M) DN RAIPUR	132	0	12,240	13,200	28,560	15,600	12,720	10,800	5,85,840
28	10006 46	M/S. ULTRATECH CEMENT LIMITED	E.E. (O&M) DN BHATAPARA	132	10,00 0	41,160	36,000	-	7,440	44,400	66,360	9,49,320
29	10006 48	M/S NUVOCO VISTAS CORP. LTD (earlier LAFARGE INDIA LIMITED)	E.E. (O&M) DN BALODA BAZAR	132	36,00 0	1,29,29,040	1,18,32,000	1,16,39,760	93,71,040	15,89,04 0	11,65,920	10,35,80,6 40
30	10006 51	DIVN.ELECT. ENGINEER (TRD)	E.E. (O&M) DN BHATAPARA	132	20,00 0	59,39,460	61,12,620	64,79,280	68,73,660	63,63,36 0	73,60,110	6,38,30,79 0
31	10008 20	M/S SHRI BAJRANG POWER & ISPAT	E.E. (O&M) DN URLA	132	4,000	5,00,760	4,59,360	4,71,240	5,54,160	4,31,880	5,24,160	49,50,840
32	10008 29	THE SR.DIVNL.ELEC.ENGR. (TRD)	E.E. (O&M) DN DONGARGARH	132	22,50 0	38,78,280	40,99,320	48,11,040	52,83,120	52,22,76 0	60,08,880	4,46,34,00 0
33	10008 63	THE SR.DIVNL.ELEC.ENGR. (TRD)	E.E. (O&M) DN RAJNANDGAON	132	16,00 0	31,53,360	31,27,920	36,53,520	39,62,040	39,79,80 0	45,77,880	3,44,74,87 2
34	10008 71	M/S M.S.P. Steel & Power Ltd	E.E.(O&M) RAIGARH	132	4,000	5,67,000	5,48,000	5,64,000	7,28,000	6,73,000	5,31,000	74,06,000

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35	10009 05	M/S JINDAL STEEL & POWER LTD.	E.E.(O&M) RAIGARH	220	25,00 0	14,31,600	10,59,600	13,66,800	13,16,400	13,59,60 0	17,79,600	1,62,38,40 0
36	10009 11	M/S SHRI BAJRANG POWER ISPAT	E.E CITY DN NORTH RAIPUR	132	7000	10,09,680	13,26,360	14,22,120	7,54,200	7,77,000	5,75,520	1,60,63,68 0
37	10009 14	The Chief Finance Manager, BSP	E.E. (CITY) WEST DN.BHILAI	220	2,00,0 00	82,33,279	43,35,188	62,96,447	1,70,78,529	1,56,31,7 27	1,89,39,9 38	12,63,36,0 01
38	10009 19	M/s ESSAR STEEL INDIA LTD.	E.E. (O&M) DN DANTEWADA	132	32,00 0	1,26,48,240	1,45,37,280	1,56,21,360	1,31,78,400	1,22,25,6 00	1,41,84,9 60	15,56,83,2 00
	10010 63	M/S ARTI SPONG &POWER LTD AART	E.E. (O&M) SILTARA	132	14,00 0					61,97,48 0	80,27,040	1,42,24,52 0
	10011 02	M/S MARUTI FERROUS (P)LTD	E.E. (O&M) SILTARA	132	16,30 0					76,10,16 0	94,77,120	1,70,87,28 0
39	10011 52	M/S S.K.S. ISPAT &POWER LIMI	E.E. (O&M) SILTARA	132	0	32,000	28,000	40,000	52,000	44,000	52,000	8,44,000
40	10011 57	M/S.HEERA FERRO ALLOYS UNIT-I	E.E. (O&M) DN URLA	132	16,00 0	38,18,640	37,27,680	54,31,200	53,18,400	46,07,76 0	59,01,480	4,71,06,48 0
41	10013 15	M/S JAYASWALS NECO INDUSTRIES	E.E. (O&M) SILTARA	220	54,00 0	1,13,38,800	1,13,09,100	1,06,40,100	1,10,23,200	1,19,49,3 00	1,54,70,4 00	10,57,08,0 00
42	10013 43	M/S REAL ISPAT & POWER LTD.	E.E CITY DN NORTH RAIPUR	132	5,000	95,58,360	97,39,560	96,47,760	99,42,240	88,91,52 0	1,00,03,4 40	10,41,39,8 40
43	10013 44	M/S PRIME ISPAT LTD	E.E CITY DN NORTH RAIPUR	132	11,00 0	31,19,040	56,18,040	78,45,960	77,86,200	78,36,00 0	74,61,000	6,94,10,28 0
44	10015 64	M/S SAI LILAGAR POWER LTD.	E.E.(O&M) AKALTARA	132	0	-	-	28,080	92,880	3,18,240	1,64,160	6,03,360
45	10017 01	M/S A.P.I. ISPAT&POWER TECH(P)	E.E. (O&M) SILTARA	132	2000	18,06,960	19,83,840	23,30,640	22,20,960	21,02,16 0	23,02,320	1,66,58,40 0

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46	10020 97	M/S R.R.ENERGY PVT. LTD.	E.E.(O&M) RAIGARH	132	1,100	3,600	47,160	5,040	4,800	4,680	960	1,19,520
47	10026 31	M/S ACC LIMITED	E.E. (CITY) EAST DN. BHILAI	132	30,00 0	1,03,31,910	92,52,630	80,14,860	81,70,560	88,62,30 0	1,17,53,8 20	10,10,40,3 90
	10030 23	M/S ALANKAR ALLOYS (P)LTD.	E.E CITY DN NORTH RAIPUR	132	15,50 0					79,02,90 0	99,64,560	1,78,67,46 0
48	10030 95	M/S MAHAMAYA STEEL INDUSTRIES	E.E. (O&M) DN URLA	132	11,00 0	30,41,400	30,85,860	34,58,700	44,86,620	63,80,64 0	76,70,040	3,86,72,04 0
49	10031 37	M/S Chhattisgarh Steel & Power	E.E.(O&M) Dn Chanpa	132	0	1,24,560	63,840	16,320	1,74,480	59,760	1,28,160	9,33,840
50	10036 64	M/S MONNET ISPAT & ENERGY LTD.	E.E(O&M) RAIGARH -II	132	0	78,240	22,560	26,880	1,02,240	3,43,680	1,61,760	21,70,560
51	10037 61	M/S MAHAVIR ENERGY &	E.E.(O&M) RAIGARH	132	1,500	15,900	12,300	17,500	1,200	16,100	39,400	2,88,500
52	10040 22	M/S Gen.Manager NTPC SAIL POWE	E.E. (CITY) EAST DN. BHILAI	220	0	-	-	-	-	0	0	0
53	10041 19	M/S Bhilai Jaypee Cement Ltd.	E.E. (CITY) EAST DN. BHILAI	132	9,000	8,14,680	5,79,690	5,56,920	6,18,750	5,26,500	8,71,560	71,68,950
54	10042 07	M/S AMBUJA CEMENT LIMITED	E.E. (O&M) DN BALODA BAZAR	132	18,00 0	6,30,240	2,49,600	5,75,160	73,800	4,26,480	3,92,040	81,73,920
55	10044 43	THE CHIEF GENERAL MANAGER, SECL, Kusmunda Area, Korba	E.E.(O&M) KORBA	132	15,00 0	43,52,300	45,80,400	35,10,100	36,51,700	27,48,30 0	26,72,300	2,15,15,10 0
56	10048 63	M/S S.V.POWER (P)LTD.	E.E.(O&M) KORBA	132	3,000	1,15,200	1,26,240	1,19,040	1,23,360	94,560	1,05,664	14,84,704
57	10061 94	THE S.E.(ELECTRICAL ERECTION)	E.E.(O&M) Dn Chanpa	132	15000	5,56,080	-	-	-	0	3,02,160	14,69,160

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58	10064 33	M/S SHRI BAJRANG POWER &	E.E. (O&M) DN RAIPUR	132	0	1,56,960	6,17,280	5,71,800	5,14,080	19,21,92 0	35,38,080	1,01,27,40 0
59	10064 46	THE CHIEF GENERAL MANAGER	E.E.(O&M) KORBA	132	16,50 0	60,35,625	59,86,325	68,10,550	63,36,375	54,45,85 0	58,24,050	7,24,84,37 5
60	10065 24	M/S LAFARJ INDIA LIMITED	E.E.(O&M) AKALTARA	132	27,00 0	67,70,880	1,13,20,800	1,01,36,400	93,50,880	97,29,36 0	1,05,17,0 40	8,91,65,28 0
61	10189 25	M/S PROJECT MANAGER	E.E. (O&M) DN JAGDALPUR	132	5,000	-	-	-	-	-	-	21,240
62	10197 11	M/S J.K.Lakshmi Cement Ltd.	E.E. (O&M) DN BHILAI	220	31,11 1	17,16,400	5,85,400	12,39,000	3,95,200	5,00,400	12,66,000	1,89,28,80 0
63	10200 82	M/S SWASTIK POWER& MINERALS RE	E.E.(O&M) KORBA	132	1,389	29,520	5,280	-	-	0	0	2,12,880
64	10202 10	M/S SHREE CEMENT LTD.,	E.E. (O&M) DN BHATAPARA	132	20,00 0	13,47,360	3,19,680	3,66,000	12,05,760	11,10,24 0	4,23,120	85,76,400
65	10210 50	M/S THE SE(EE)2X500MW	E.E.(O&M) Dn Champa	400	10,00 0	7,46,182	-	-	-	0	3,06,545	15,81,163
66	10211 00	M/S EMAMI CEMENT LTD.,	E.E. (O&M) DN BALODA BAZAR	132	13,50 0	1,26,600	1,27,680	9,70,680	1,30,560	1,27,800	1,23,360	48,52,080
67	10212 20	M/S ACME RAIPUR SOLAR PVT.LTD.	E.E. (O&M) DN MAHASAMUND	132	481	25,020	24,840	25,380	27,360	23,220	22,860	2,74,680
68	10225 45	M/S AZURE POWER PVT.LTD	E.E. (O&M) Saja	132	481	39,600	39,150	40,860	40,500	35,460	38,340	4,49,730
69	10232 43	THE SR. DIVISIONAL ELECTRICAL	E.E. (O&M) DN JAGDALPUR	132	5,000	4,97,640	6,34,680	7,50,840	8,30,760	7,28,160	7,65,360	66,80,760
70	10232 61	THE PROJECT MANAGER,NMDC LTD.	E.E. (O&M) DN JAGDALPUR	220	30,00 0	26,83,200	25,00,800	24,96,000	35,47,200	27,46,80 0	38,92,800	3,26,68,80 0

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71	10233 14	M/s Chhattisgarh Hydro Power Ltd.	EE(O&M) DN, Jashpur	132	0	240	1,320	-	3,480	6,000	11,400	46,440
72	10238 70	M/S PARAMPUJYA SOLAR ENERGY PV	E.E. (O&M) Saja	132	500	39,150	40,800	46,650	42,450	38,250	42,300	4,82,550
73	10238 72	M/S PARAMPUJYA SOLAR ENERGY PV	E.E. (O&M) Saja	132	500	37,500	40,500	40,950	37,050	34,350	37,800	4,44,900
74	10238 90	M/s Rajshthan Rajya Vidyut Utp	E.E. (O&M) DN Ambikapur	132	10,00 0	18,52,380	18,95,280	25,92,900	23,84,700	21,27,72 0	25,56,600	2,34,35,64 0
75	10243 56	IND SYNERGY LIMITED	E.E.(O&M) RAIGARH	132	4,000	5,61,000	5,15,760	4,90,080	3,57,000	6,67,920	5,96,640	63,51,240
76	10244 40	M/S SURGUJA RAIL CORRIDOR (P)	E.E. (O&M) DN SURAJPUR	132	10,00 0	17,30,100	18,64,620	19,95,840	18,94,500	19,42,08 0	20,61,120	1,93,20,60 0
77	10257 70	THE GENERAL MANAGER, NTPC LTD.	E.E.(O&M) RAIGARH	132	4,000	58,800	61,200	57,400	50,800	45,000	49,000	3,22,200
78	10260 53	Venika Hydro Projects Private	E.E. (O&M) DN SURAJPUR	132	350	180	13,860	21,420	23,580	22,500	25,200	1,80,180
79	10263 80	DEE/TRD/EAST COAST RAILWAY SAM	E.E. (O&M) DN MAHASAMUND	132	8,000	21,28,320	17,42,160	22,64,880	26,42,160	22,59,36 0	16,36,320	2,32,86,96 0
80	10264 50	THE Sr. DIVISIONAL ELECT. ENGI	E.E.(O&M) RAIGARH	132	9,000		23,880	3,24,180	1,65,960	1,55,220	2,82,600	9,51,840
(a)		Total [KWH]				21,56,64,215	21,50,62,703	23,08,88,297	24,23,85,304	25,49,15,297	30,13,67,543	2,51,87,75,705
		Total [MU]				215.66	215.06	230.89	242.39	254.92	301.37	2,518.78
(b)	10009 14	The Chief Finance Manager,BSP	E.E. (CITY) WEST DN.BHILAI	220	2,00,0 00	82,33,279	43,35,188	62,96,447	1,70,78,529	1,56,31,727	1,89,39,9 38	12,63,36,0 01

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(c)	10210 50	M/S THE SE(EE)2X500MW	E.E.(O&M) Dn Champa	400	10,00 0	7,46,182	0	0	-	-	3,06,545	15,81,163
		Total (KWH) = (a) - (b) - (c)				20,66,84,754	21,07,27,515	22,45,91,850	22,53,06,775	23,92,83,57 0	28,21,21, 060	2,39,08,58, 541
(d)		Grand total (in MU) = (a) - (b) - (c) Total EHV sales of ED(Rev), CSPDCL, Raipur minus EHV sales Of BSP and ABVTPS, Marwa.				206.68	210.73	224.59	225.31	239.28	282.12	2,390.86

Annexure – 4: Consumption of 132 / 33 kV X-Mers (MWH) during FY 2020-21

Consumption of 132 / 33 KV Power Transformers (33 KV side reading) in MWH during FY 2020-21

CIRCLE	DIVISION	S R · N O ·	NAME OF SUB- STATION	No. of X-mer	CAPACITY OF X-MER (In MVA)	Apr-20	May- 20	Jun-20	Jul-20	Aug-20	Sep-20
1) CE (S/s : O&M) ,CSPTCL Raipur											
a) SE (S/s : O&M) Circle ,CSPTCL Bhilai											
BHILAI	Sub-Station Dn. Bhilai										
	BHILAI	1	220 KV GURUR	2	40 MVA X-mer I	13,448.24	8,844.48	9,568.00	10,979.92	5,525.60	4,958.96
					40 MVA X-mer II				2,874.80	5,415.52	7,542.72
		2	132 KV BHILAI	3	40 MVA X-mer I	10,191.44	16,742.56	18,599.20	19,486.40	19,084.00	18,362.72
					40 MVA X-mer II	9,911.36	16,410.08	18,224.72	19,100.40	18,696.96	18,006.96
					40 MVA X-mer III	12,926.40	19,038.64	17,848.32	21,790.24	18,349.52	19,764.24
		3	132 KV DHAMTAR I	2	40 MVA X-mer I	13,160.16	10,332.64	11,541.60	14,902.88	10,336.08	15,790.40

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			40 MVA X-mer II	8,645.52	11,551.28	10,710.08	11,701.36	8,065.68	4,152.00
	4	132KV DHAMDH A	40 MVA X-mer I	6,831.12	5,284.80	5,612.56	14,503.92	12,306.24	11,848.96
			40 MVA X-mer II	6,451.68	5,207.12	5,592.00	14,359.12	12,665.60	11,095.68
	5	132 KV RUABAND HA	40 MVA X-mer -I	9,422.40	14,414.96	11,103.04	10,704.56	7,358.88	8,723.36
			63 MVA X-mer	22,666.80	26,048.16	21,431.04	22,104.48	19,646.16	21,987.00
	6	132 KV BALOD	40 MVA X-mer	15,394.40	9,343.28	7,652.72	16,473.04	12,258.64	14,119.52
			40 MVA X-mer II						
	7	132 KV SAJA	40 MVA X-mer I	4,118.08	4,348.48	4,671.84	10,518.64	7,126.56	6,742.32
			40 MVA X-mer II	4,279.00	4,537.00	4,846.00	11,127.00	9,869.00	9,389.00
	8	132 KV KURUD BHILAI	40 MVA X-mer I	1,831.20	10,492.80	9,352.00	11,398.40	10,155.20	11,549.60
			40 MVA X-mer II	14,164.80	11,441.60	11,646.40	13,061.60	11,841.60	12,154.40
	9	132KV GUNDERD EHI	40 MVA X-mer I	16,620.56	11,465.44	12,053.12	17,143.76	13,955.04	16,113.84
			40 MVA X-mer II						
10		132KV PATAN	40 MVA X-mer	18,156.16	10,282.80	10,633.52	14,418.96	13,003.92	16,524.72

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				40 MVA X-mer	0.00	3,646.00	2,474.00	3,692.00	4,317.00	4,170.00
	11	132KV PULGAON	2	40 MVA X-mer I	13,440.00	15,622.40	15,516.00	14,365.60	14,528.00	14,171.20
				40 MVA X-mer II						
	12	132 KV BERLA	2	40 MVA X-mer	13,758.80	9,516.60	7,470.80	11,154.20	9,762.40	13,805.80
				20 MVA X-mer	452.80	1,633.60	3,784.00	4,638.00	4,606.40	2,348.80
		Sub-total	25		2,15,870.92	2,26,204.72	2,20,330.96	2,90,499.28	2,48,874.00	2,63,322.20
		Sub-Station Dn. Rajnandgaon								
	13	132 KV MOHALA	1	40 MVA X-mer	7,796.00	5,510.00	2,919.00	-	-	3,932.00
RAJNANDGAON	14	220 KV BEMETAR A	2	40 MVA X-mer I	9,652.00	6,056.00	6,404.00	14,192.00	13,624.00	8,498.00
				40 MVA X-mer II	9,921.00	6,193.39	6,481.01	14,544.90	12,265.93	14,185.97
	15	220 KV THELKADI H	2	40 MVA X-mer I	7,591.52	9,571.84	10,717.36	19,849.84	14,869.68	11,060.24
				40 MVA X-mer II	7,156.72	6,910.40	8,487.04	20,080.00	13,934.64	11,124.24

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

		16	132 KV RAJNAND GAON	2	40 MVA X-mer I	12,546.72	14,615.76	13,478.16	16,274.88	14,934.00	14,726.40
					40 MVA X-mer II	12,466.40	14,537.60	13,448.80	16,228.80	14,794.40	14,578.40
		17	132 KV DONGAR GARH	2	40 MVA X-mer	7,371.36	7,205.04	7,499.76	14,409.12	12,549.36	7,899.36
					20 MVA X-mer	3,673.00	3,630.00	3,732.00	7,193.00	6,273.00	3,964.00
		18	132 KV DALLIRAJ HARA	3	20 MVA X-mer I	8,082.72	7,057.08	6,834.84	9,539.40	7,697.28	7,526.28
					12.5 MVA X-mer I	3,191.88	2,623.92	2,342.52	4,375.08	3,114.24	3,244.80
					12.5 MVA X-mer II	3,220.80	2,646.96	2,348.76	4,103.64	2,604.48	1,870.68
		19	132 KV KAWARD HA	3	40 MVA X-mer I	6,658.00	8,918.00	6,110.00	10,334.00	9,542.00	10,702.00
					63 MVA X-mer -II	14,126.40	13,799.40	9,904.20	18,590.40	12,520.80	10,335.60
					40 MVA X-mer -III			5,384.00	12,274.00	10,120.00	8,819.00
		20	132 KV NAWAGA RH	2	40 MVA X-mer I	5,718.16	4,979.12	4,810.96	10,031.76	10,481.84	6,525.36
					40 MVA X-mer II	6,219.53	5,575.91	5,207.34	10,786.19	10,787.32	11,486.18
		21	132 KV DONGAR GAON	2	40 MVA X-mer I	14,702.00	9,948.00	9,734.00	19,776.00	17,588.00	15,426.00
					40 MVA X-mer II	14,082.00	9,614.00	9,199.00	17,243.00	14,631.00	14,377.00

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

		2 2	132 KV PANDARI YA	2	40 MVA X-mer I	9,778.0 0	10,020. 00	10,182.0 0	17,946.0 0	12,160.00	13,568.0 0
					40 MVA X-mer II	10,067. 04	10,304. 40	10,610.1 6	18,466.5 6	11,402.88	13,864.3 2
		2 3	132 KV RASMADA	2	40 MVA X-mer I	2,962.5 5	4,276.4 0	6,741.25	10,862.0 5	12,573.65	11,079.8 5
					40 MVA X-mer II	3,199.6 0	4,556.9 0	7,099.70	11,177.4 0	12,409.80	11,509.9 0
		2 4	132 KV GANDAI	1	40 MVA X-mer -I	5,108.0 0	6,268.0 0	6,340.00	15,656.0 0	10,754.00	8,828.00
				1	40 MVA X-mer -II	5,070.0 0	6,247.0 0	6,327.00	15,595.0 0	11,421.00	8,632.00
		2 5	220 KV GENDPUR	1	40 MVA X-mer I	7,476.6 0	7,926.3 0	7,930.00	17,216.1 0	12,618.10	11,934.4 0
					40 MVA X-mer -II						
			Sub-total	26		1,97,83 8.00	1,88,99 1.42	1,90,272. 86	3,46,745. 12	2,85,671.4 0	2,59,697. 98
b) SE (S/s : O&M) Circle ,CSPTCL Jagdalpur											
JAGDALPUR	Sub-Station Dn. Jagdalpur										
	JAGDALPUR	2 6	220 KV BARSOOR	1	40 MVA X-mer I	7,423.8 4	7355.9 2	6743.04	7,229.04	6,731.04	7,201.60
		2 7	132 KV JAGDALP UR	3	40 MVA X-mer I	11,936. 16	12645. 04	11552.88	11,959.0 4	11,120.40	10,636.8 0

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			40 MVA X-mer II	12,113.84	12809.60	11786.00	12,143.52	11,020.16	10,883.84
			40 MVA X-mer III	0.00	0.00	0.00	-	-	-
	28	132 KV KIRANDUL	2	40 MVA X-mer	5,782.00	7208.80	6569.84	6,805.04	6,055.36
				20 MVA X-mer	2,758.64	3449.08	3142.12	3,245.16	3,025.00
	29	132 KV KANKER	2	40 MVA X-mer-I	17,087.36	9633.36	8153.92	13,526.40	10,803.20
				40 MVA X-mer-II	18,105.44	10175.12	8604.48	14,279.60	12,212.40
	30	132 KV BHANUPR ATAPPUR	2	40 MVA X-mer I	5,044.00	3996.00	3732.00	5,832.00	4,860.00
				40 MVA X-mer II	4,989.00	3957.00	3704.00	5,783.00	4,821.00
	31	132 KV KONDAG AON	2	40 MVA X-mer I	16,491.06	13383.27	7069.00	9,010.11	7,602.24
				40 MVA X-mer II		462.00	6845.00	8,759.00	7,478.00
	32	132 KV CHARAMA	1	40 MVA X-mer	9,958.00	4098.00	3832.00	9,670.00	5,039.00
	33	132 KV SUKMA	1	40 MVA X-mer	3,900.00	4452.00	3958.00	4,105.00	3,595.00
	34	132 KV PAKHANJUR	1	40 MVA X-mer	12,420.00	9800.00	8081.00	10,034.00	7,349.00
	35	132 KV DORNAPAL	1	40 MVA X-mer	1,373.00	1559.00	1365.00	1,519.00	1,205.00
	36	220 KV NARAYANPUR	1	40 MVA X-mer	4,731.60	3741.60	3158.70	3,621.90	3,239.40

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

		37	132 KV BIJAPUR	1	40 MVA X-mer						
			Sub-total	18		1,34,113.94	1,08,725.79	98,296.98	1,27,521.81	1,06,452.84	1,10,485.47
	400KV substation division Parchanpal, JAGDALPUR	37	220 KV Jagdalpur (Parchanpal)	1	40 MVA X-mer	7,290.90	5,582.70	6499.00	10,579.00	8,853.50	7,840.10
			Sub-total	1		7,290.90	5,582.70	6,499.00	10,579.00	8,853.50	7,840.10
c) SE (S/s : O&M) Circle ,CSPTCL Raipur											
RAIPUR	Sub-Station Dn. Raipur-I										
	RAIPUR DN-I	38	220 KV URLA	3	63 MVA X-mer	1,656.54	18,110.88	26,660.88	30,670.92	29,413.29	27,706.62
					40 MVA X-mer I	0.00	10,890.48	18,895.44	20,892.00	19,372.80	18,696.60
					40 MVA X-mer II	809.68	11,654.88	18,149.04	20,061.19	18,600.30	17,997.25
		39	220 KV SILTARA	4	63 MVA X-mer	0.00	18,496.78	28,599.02	35,576.22	32,830.95	32,289.47
					40 MVA X-mer I	1,827.00	13,661.00	17,243.00	21,588.00	19,989.00	19,630.00
					40 MVA X-mer II	2,601.08	14,349.76	13,568.99	0.00	16,664.29	12,087.20

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				40 MVA X-mer III	3,627.1 2	10,897. 44	18,141.6 0	21,472.8 0	16175.04	11,088.0 0
	4 0	220 KV BHATAPA RA	2	40 MVA X-mer I	8,143.9 1	3,661.5 3	3,030.02	8,100.79	8437.42	7,225.82
				40 MVA X-mer II	11,515. 09	12,749. 61	13,017.1 6	11,123.8 4	11823.95	10,885.3 7
	4 1	220 KV SUHELA	1	40 MVA X-mer I	10,136. 00	7,346.0 0	6,360.00	9,220.00	9694.00	7,958.00
	4 2	132 KV GUDHIYA RI	3	40 MVA X-mer I	9,931.6 8	15,834. 48	14,331.7 4	15,446.5 0	10097.76	11,238.7 2
				40 MVA X-mer II	5,678.6 4	8,049.3 6	9,926.83	10,245.1 7	8653.92	10,201.6 8
				40 MVA X-mer III	6,887.2 0	12,181. 60	7,600.32	7,333.28	7276.40	8,382.40
	4 3	132 KV KACHNA	3	63 MVA X-mer I	14,880. 60	21,096. 36	18,839.5 2	17,448.4 8	13294.08	16,556.4 0
				63 MVA X-mer II	16,003. 80	18,230. 40	16,917.4 8	19,170.7 2	15640.92	15,103.8 0
				40 MVA X-mer	9,536.0 0	10,561. 20	7,990.00	7,447.20	8636.80	7,191.60
	4 4	132 KV BIRGAON	3	63 MVA X-mer	14,568. 06	30,151. 08	31,145.6 4	31,876.0 8	31842.78	32,436.7 2
				40 MVA X-mer I	7,308.6 0	17,303. 63	18,119.4 8	18,946.8 2	18717.55	18,328.5 7
				40 MVA X-mer II	0.00	14,177. 15	16,915.5 8	17,605.4 8	17531.84	16,550.8 2

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

	4 5	132 KV SECTOR C URLA	3	63 MVA X-mer I	0.00	6,346.0 7	10,942.3 4	11,673.6 5	9992.74	8,830.01
				63 MVA X-mer II	171.72	22,154. 04	23,883.8 4	31,087.8 0	31201.56	30,116.8 8
				40 MVA X-mer I	1,504.1 8	5,423.9 0	6,573.65	7,477.82	6406.01	5,667.84
	4 6	132 KV SIMGA	2	40 MVA X-mer- I	13,193. 27	1,384.0 4	0.00	4,323.59	6490.20	7,316.72
				40 MVA X-mer- II (earlier 16 MVA X-mer)		2,859.1 4	3,558.23	3,818.49	2316.64	3,888.56
	4 7	132 KV BALODAB AZAR	2	40 MVA X-mer I	11,541. 60	10,362. 00	10,094.0 0	11,274.0 0	10,234.00	11,006.0 0
				40 MVA X-mer -II	3,446.0 0	3,996.0 0	4,398.00	4,544.00	6,604.00	6,536.00
	4 8	220 KV BORJHAR A	3	40 MVA X-mer I	3,618.8 0	12,117. 60	16,481.6 0	16,950.0 0	15,274.40	16,837.6 0
				40 MVA X-mer -II	3,849.3 0	13,141. 20	17,906.0 3	18,411.3 9	16,536.86	18,239.4 0
				63 MVA X-mer I						
	4 9	132 KV TULSI	2	40 MVA X-mer I	7,624.9 1	9,120.8 8	9,258.10	5,428.55	5,111.87	8,816.88
				40 MVA X-mer II	9,688.1 2	7,329.8 0	6,916.60	14,108.9 8	15,037.71	16,994.1 7
	5 0	132 KV SARONA	1	40 MVA X-mer	15,982. 96	17,807. 96	15,288.7 2	15,330.3 2	16,405.62	16,646.8 2

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

	51	132 KV KASDOL	1	40 MVA X-mer	13,674.00	12,806.00	11,812.00	14,250.00	13,210.00	13,814.00
	52	132 KV SECTOR A HEERA POOL	2	40 MVA X-mer <i>(earlier 63 MVA X-mer)</i>	3.00	5,421.60	4,378.80	3,877.80	6,550.20	5,011.20
				40 MVA X-mer -II	671.20	7,916.80	11,899.20	14,162.40	9,375.20	10,386.07
	53	220 KV KUTHREL	2	63 MVA X-mer-I	7,383.70	18,632.80	23,205.20	30,346.80	28,682.90	28,433.40
				63 MVA X-mer-II						
		Sub-total	37		2,17,463.75	4,26,223.44	4,82,048.04	5,31,291.08	5,14,122.99	5,10,096.60
		Sub-Station Dn. Raipur II								
	54	220 KV DOMA	2	40 MVA X-mer I	0.00	0.00	0.00	-	-	-
				40 MVA X-mer II	14,952.00	17,226.00	14,986.00	15,418.00	13,496.00	13,658.00
	55	220 KV SARAIPAL I	3	40 MVA X-mer I	13,180.44	9,033.74	6,995.10	8,792.45	8,672.47	8,883.76
				40 MVA X-mer II	13,785.35	3,944.75	710.07	9,201.78	8,163.86	9,024.89
				40 MVA X-mer III	13,543.20	7,509.20	7,442.40	4,684.00	6,643.60	8,021.60
	56		2	40 MVA X-mer I	4.00	0.00	44.00	-	1,684.00	6,892.00

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			220KV PARASW ANI		40 MVA X-mer (earlier 20 MVA X-mer)	12,818. 00	9,246.0 0	9,304.00	11,300.0 0	8,798.00	6,254.00
	5 7	2	132 KV MANA		40 MVA X-mer I	7,239.6 0	10,376. 40	9,424.40	7,745.60	5,721.20	6,278.00
					40 MVA X-mer II	5,298.7 2	5,501.1 6	5,260.79	6,655.65	6,561.58	7,338.97
	5 8	2	132 KV KUHERA		63 MVA X-mer I	0.00	7,938.6 6	136.10	6,093.14	-	4,825.34
					63 MVA X-mer II	7,947.6 9	124.53	7,998.11	1,568.94	6,992.88	3,486.28
	5 9	2	132 KV MANDIR HAUSAD		40 MVA X-mer	8,724.0 0	6,942.0 0	10,568.0 0	10,754.0 0	8,846.00	9,898.00
					40 MVA X-mer- II	1,250.0 0	13,386. 00	10,956.0 0	11,118.0 0	9,139.00	10,729.0 0
	6 0	2	132 KV MAHASA MUND		40MVA X-mer I	13,653. 33	5,630.9 1	6,781.74	9,164.78	9,478.52	8,920.52
					40 MVA X-mer II	14,028. 73	5,747.9 0	7,012.42	9,516.40	10,382.08	10,525.6 6
	6 1	2	132KV JHALAP		40 MVA X-mer I	15,808. 00	3,092.0 0	4,986.00	10,178.0 0	10,708.00	11,482.0 0
					40 MVA X-mer II	17,403. 20	8,885.2 0	7,893.20	11,118.0 0	12,569.60	12,538.0 0
6 2	3		132 KV RAJIM		40 MVA X-mer I	14,216. 00	6,129.5 0	10,020.0 0	10,147.0 0	10,029.00	12,965.5 0
					40 MVA X-mer II	14,058. 00	5,212.0 0	3,728.00	9,958.00	3,621.50	10,718.0 0
					40 MVA X-mer III	14,017. 60	9,486.0 0	7,894.80	6,042.00	10,405.50	2,132.00

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	63	132 KV SANKRA	2	40 MVA X-mer	12,677.19	5,975.81	0.00	4,098.03	8,259.05	8,540.53
				63 MVA Xmer	21,052.34	4,773.17	10,350.10	16,316.77	14,273.33	14,217.54
	64	132 KV MAGARLOAD	2	40 MVA X-mer-I	5,728.00	2,884.00	3,386.00	3,012.00	2,840.00	3,938.00
				40 MVA X-mer-II	9,166.39	3,558.74	3,604.17	5,674.87	4,590.92	4,017.69
	65	132KV KURUD DHAMTAR I	2	40 MVA X-mer	1,142.47	2,112.10	1,425.10	3,088.66	6,986.50	4,699.15
				40 MVA X-mer (earlier 20 MVA X-mer)	13,980.00	8,194.00	8,946.00	9,818.00	5,166.00	7,674.00
	66	132 KV BAGBAHARA	2	40 MVA X-mer I	11,211.83	786.83	9,165.69	9,490.13	8,412.61	8,485.76
				40 MVA X-mer II	13,378.00	7,242.00	368.00	8,482.00	8,204.00	7,446.00
	67	132 KV GARIYABAND	1	40 MVA X-mer	16,480.48	10,996.12	9,245.72	11,267.24	11,755.76	9,454.80
	68	132 KV RAWANBHATA	2	63 MVA X-mer II	13,115.31	16,835.37	18,313.75	18,125.23	9,202.10	17,140.96
				40 MVA X-mer	7,829.33	10,175.60	10,661.56	10,861.11	15,407.46	10,238.73
	69	132 KV BAKHARA	1	40 MVA X-mer	7,094.20	4,409.80	5,399.80	6,155.20	5,303.80	6,735.40
	70	132 KV NAGARI	1	40 MVA X-mer I	10,780.00	6,255.00	4,357.00	6,716.00	6,982.00	5,645.00

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	7 1	132 KV BASANA	1	40 MVA X-mer I	11,021. 00	4,453.0 0	7,223.00	10,585.8 0	9,950.80	9,617.80
		Sub-total	34		3,56,58 4.42	2,24,06 3.49	2,24,587. 02	2,83,146. 78	2,69,247.1 2	2,82,422. 89

2) CE (S/s : O&M) ,CSPTCL Bilaspur

a) SE (S/s : O&M) Circle ,CSPTCL Bilaspur

BILASPUR	MRT Cum Sub-Station Dn. Raigarh										
	RAIGARH	7 2	220 KV RAIGARH	3	40MVA X-Mer No.-1 (alstrom)	0.00	0.00	0.00	-	-	-
					40MVA X-Mer No.-2 (TELK)	10,614.00	12612.00	12046.00	12,530.00	10,608.00	10,570.00
					40MVA X-Mer No.-3 (ECE)	11,298.00	13831.68	13035.12	13,596.96	11,582.40	11,504.64
		7 3	132 KV RAIGARH	2	40 MVA X-Mer No.-1 (B.B.)	8,666.00	10238.00	6966.00	10,120.00	7,588.00	7,746.00
					20MVA X-Mer (CGL)	4,492.00	5380.00	3642.00	3,345.00	3,957.00	4,050.00
		7 4	132 KV SARANGA RH	2	40MVAX-Mer No1(EMCO)	13,123.20	12868.00	10971.20	13,633.60	13,361.60	14,992.35
					40MVAX-Mer No2(EMCO)	14,238.00	13945.60	11752.80	14,694.80	15,258.80	16,316.00
		7 5	132 KV BARAMKE LA	2	40MVA X-Mer No-1 (ABB)	8,147.20	11398.80	6546.00	9,608.40	7,169.20	9,706.40
					40MVA X-Mer No-2 (VIJAY ELE.)	7,998.00	11088.00	6346.00	9,394.00	7,142.00	9,528.00

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		76	132 KV GHARGH ODA	2	40MVA X-Mer (AREVA)	6,592.00	6977.00	7560.00	6,199.00	7,968.00	8,126.00
					40MVA X-Mer-II (ECE)	7,042.00	6561.50	5885.00	10,185.50	7,590.50	8,402.50
		77	132 KV KHARSIY A (CHAPLE)	2	40MVA X-Mer (EMCO)	9,874.40	6567.20	7740.80	8,608.80	9,294.40	8,696.80
					40MVA X-Mer (BHEL)	2456.00	3808.00	3386.00	6,384.00	3,894.00	7,420.00
		78	132 KV PATHALG AON	2	20MVA X-Mer No.-I (GEC)	7257.72	6817.44	5245.44	5,944.44	5,685.00	5,327.28
					40MVA X-Mer No.-2 (ALSTOM)	14188.32	13245.12	10167.36	11,463.84	11,682.48	10,322.88
		79	132 KV JASHPUR	2	20MVA X-Mer (EMCO)	5102.00	4508.00	3183.00	4,290.00	4,492.00	3,452.00
					20MVA X-Mer - 2 (EMCO)	5,084.72	4549.32	3191.08	4,291.78	4,360.50	3,437.22
		80	132 KV ADHBAR	2	40MVA X-Mer No.-1 (ABB)	11,281.70	9311.60	8045.50	10,356.70	9,009.60	9,080.60
					40MVA X-Mer No.-2 (Andrew Yule)	11,082.00	9178.00	7866.00	9,924.00	8,808.00	8,898.00
81			132 KV JAIJAPUR	1	40MVA X-Mer (TEC, ASSO.)	16,804.00	14380.00	11366.00	14,752.00	14,276.00	13,164.00
82			220 KV GERWANI	2	63MVA X-Mer No.-1 (BB)	7,125.73	17027.44	17887.49	18,614.55	16,902.36	19,086.27
					63MVA X-Mer No.-2 (BB)	21.09	15221.63	17661.93	17,871.64	16,687.65	18,395.73
83			132 KV KONDATA RAI	1	40 MVA X-MER (B.B.)	7,561.01	6008.90	4308.06	8,783.65	6,704.57	11,739.98

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

	84	132 KV DABHRA	1	40 MVA X-MER (Toshiba)	10,720.91	8953.15	7845.02	11,460.11	9,667.50	9,832.54
	85	132 KV KANSABE L	1	40 MVA X-MER (BB)	5,838.72	9074.08	9998.29	11,901.49	10,491.48	14,126.81
		Sub-total	25		2,06,608.72	2,33,550.46	2,02,642.09	2,47,954.26	2,24,181.04	2,43,922.00
Sub-Station Dn. Bilaspur										
BILASPUR	86	220 KV MOPKA	3	40 MVA 1-EMCO	11,184.00	13966.00	12538.00	13,038.00	11,146.00	12,978.00
				40 MVA 2-EMCO	9,955.44	9093.84	8279.52	10,178.40	10,140.24	10,183.68
				40 MVA 3-ALSTOM	10,892.50	13544.50	12159.50	12,641.50	10,657.00	12,308.00
	87	220 KV MUNGELI	1	40 MVA X-mer (T&R)	4,464.00	4988.00	5394.00	9,888.00	10,188.00	8,860.00
	88	220 KV DHERDEH I	1	160MVA-II (Tertiary side import)	22.31	29.68	23.54	24.12	22.62	23.96
	88	132 KV BILASPUR	4	40 MVA BHEL-1	5,725.60	1120.00	1915.20	7,871.20	6,336.00	8,024.80
				40 MVA EMCO-2	405.60	9860.80	8084.80	8,496.00	4,812.00	8,464.80
				40 MVA BB-3	14,138.40	16412.80	15905.60	12,127.20	11,385.60	9,902.40

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

			40 MVA ALSTOM-4	14,912.80	12607.60	11271.20	10,925.20	10,334.80	10,642.00
89	132 KV MUNGELI	2	40 MVA-1 BHEL	8,118.40	6756.00	5881.60	11,078.40	8,707.20	9,526.80
			40 MVA-2 TELK	8,180.00	6434.00	5830.00	11,052.00	8,316.00	9,012.00
90	132 KV AKALTAR A	2	40 MVA EMCO	10,832.64	11461.68	11615.04	12,647.52	11,373.12	12,178.56
			20 MVA APEX	5,522.00	5864.00	5958.00	6,658.00	5,609.00	6,199.00
91	132 KV SILPAHRA I	2	40 MVA BB	11,084.00	12472.00	13362.00	15,162.00	13,138.00	16,768.00
			40 MVA ALSTOM	11,324.00	12958.00	13576.00	15,436.00	13,972.00	17,002.00
92	132 KV CHAKARB HATA	2	40 MVA-1 TECH.ASS.	4,468.00	3856.00	3534.00	4,324.00	4,292.00	5,810.00
			40 MVA-2 VEL	3,488.00	3360.80	3908.00	4,635.60	5,284.00	4,927.20
93	132 KV KOTA	1	40 MVA X-mer I TECH.ASS.	8,788.00	8224.00	7496.00	9,418.00	8,404.00	10,528.00
		1	40 MVA X-mer II ECE	8,400.32	7858.29	7162.71	8,994.21	8,023.67	10,113.20
94	132 KV PATHARI A	2	40 MVA X-mer TECH.ASS.	17,392.00	12830.00	12054.00	18,272.00	15,964.00	16,046.00
			40 MVA X-mer -II						
95	132 KV KONI	2	40 MVA X-Mer (ECE)	12,020.40	10707.60	1571.80	36.00	-	71.80

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

				40 MVA X-mer-II (ECE)		0.00	6376.00		12,570.00	8,771.00	10,964.00
96	132 KV TAKHATPUR	1		40 MVA X-mer I	14,839.60	10290.40	9063.40		9,704.60	11,288.40	15,908.10
97	132 KV SEORINARAYAN	2		40 MVA X-mer I	14,932.00	15939.00	14606.00		17,210.00	16,292.00	13,309.00
				40 MVA X-mer -II							
98	132 KV LORMI	2		40 MVA X-mer I	16,649.00	14210.00	13661.00		16,909.00	13,710.00	15,789.00
				40 MVA X-mer II							
	Sub-total	28			2,27,739.01	2,24,844.99	2,11,226.91		2,59,296.95	2,28,166.65	2,55,540.30

b) SE (S/s : O&M) Circle ,CSPTCL Korba

	MRT Cum Sub-Station Dn. Bishrampur										
KORBA	BISHRAMPUR	99	132 KV BISHRAMPUR	3	40 MVA XMER EMCO	7,968.00	8596.80	6845.60	10,327.60	9,435.60	9,321.20
					20 MVA XMER-I EMCO	3,791.80	3905.20	3333.60	4,642.20	4,346.60	4,296.40
					40 MVA XMER Bharat Bijali	0.00	0.00	0.00	-	-	-
		100	132 KV AMBIKAPUR	3	40 MVA XMER-I EMCO	10,320.00	11758.00	10968.00	12,578.00	11,784.00	11,940.00

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

			40 MVA XMER-II TELK	9,532.80	10578.40	10099.20	11,614.40	10,888.00	11,034.40
			40 MVA XMER-III AREVA	9,670.00	11044.40	10284.00	11,786.00	11,055.20	11,208.80
1 0 1	132 KV BAIKUN THPUR	2	40 MVA XMER 1	9,107.00	9217.40	8486.00	10,104.60	9,629.60	9,234.60
			40 MVA XMER 2	8,843.20	8949.20	8245.60	9,818.00	9,469.20	10,872.80
1 0 2	132 KV MANEN DRAGA RH	2	40 MVA XMER-I T&R	10,651.04	11525.84	10484.56	11,595.36	11,121.44	12,281.76
			40 MVA XMER-II A Y	9,134.00	9979.60	9015.20	9,954.00	9,586.00	10,504.40
1 0 3	132 KV BALRA MPUR	1	40 MVA XMER TA	9,102.64	8792.00	7467.12	9,540.86	9,084.58	9,686.64
1 0 4	220 KV BISHRA MPUR	2	40 MVA XMER ALSTRO M	15,168.00	17448.00	10430.00	9,406.00	9,002.00	9,194.00
			40 MVA X-mer-II		0.00	5599.50	9,956.70	9,643.80	9,682.50
1 0 5	132 KV PRATA PPUR	1	40 MVA XMER	12,128.00	12214.00	9720.00	13,598.64	11,834.00	12,774.00
1 0 6	132 KV BATAU LI	2	40 MVA X-mer I	4,565.19	5271.19	4741.94	5,775.03	5,211.07	5,144.65
			40 MVA X-mer II	4,622.03	5334.18	4810.30	5,853.95	5,286.93	5,211.57
1 0 7	132 KV WADRA FNAGA R	1	40 MVA X'mer Bharat Bijlee	8,060.36	8513.99	7482.73	8,810.05	9,448.01	9,473.17

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

		108	132 KV RAJPUR	1	40 MVA X'mer Bharat Bijlee	8,533.60	8002.40	7081.60	10,601.44	9,059.36	9,227.20
		109	132 KV Udaypur (Salka)	1	40 MVA X-mer						
			Sub-total	19		1,41,197.67	1,51,130.60	1,35,094.95	1,65,962.84	1,55,885.38	1,61,088.09
	Sub-Station Dn. Korba										
KORBA		110	220 KV KOTMI KALA	3	20 MVA ABB-1	8,087.40	9058.60	7724.80	10,180.80	9,213.60	10,544.60
					20 MVA CGL-2	7,679.66	8618.90	7351.14	9,720.39	8,713.78	5,580.40
					40 MVA ECE						
		111	220 KV BANARI	1	40 MVA EMCO	4,794.00	8468.00	6274.00	7,136.00	7,920.00	7,532.00
		112	132 KV CHAMPA	2	40 MVA EMCO-1	6,692.00	8047.20	8956.00	6,766.40	5,072.80	8,729.60
					40 MVA EMCO-2	6,758.80	8110.80	9075.20	10,073.60	9,396.40	8,777.60
		113	132 KV DARRI	2	40 MVA TELK-1	8,437.60	11661.60	12284.00	8,868.80	9,777.60	10,623.20
					40 MVA GEC-2	9,417.61	12534.60	11551.36	9,522.44	10,497.22	11,415.80

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

	1 1 4	132 KV RENKI	1	40 MVA X-Mer (CGL)	6,909.60	5076.00	763.44	6,534.24	6,610.08	6,840.72
	1 1 5	100 MW POWER HOUSE KORBA	2	40 MVA X-mer I	14,261.70	18056.51	15015.58	15,969.74	16,066.84	17,202.90
				40 MVA X-mer II	10,812.77	12695.96	10221.03	12,025.03	10,290.90	10,954.90
	1 1 6	132 KV CHHURI - KHURD	1	40 MVA	7,449.00	7689.00	7179.00	9,157.00	8,954.00	9,142.00
	1 1 7	220 KV CHHURI	1	160MVA- II (Tertiary side import)	14.02	16.16	14.26	13.92	14.17	15.74
		Sub-total	1 3		91,314.15	1,10,033.33	96,409.81	1,05,968.35	1,02,527.38	1,07,359.46
GRAND TOTAL			2 2 6		17,96,021.4 7	18,99,350.94	18,67,408 .62	23,68,965.48	21,43,982.30	22,01,775.09
		MU			1,796.02	1,899.35	1,867.41	2,368.97	2,143.98	2,201.78

Consumption of 132 / 33 KV Power Transformers (33 KV side reading) in MWH during FY 2020-21

CIRCLE	DIVISION	S R · N O ·	NAME OF SUB- STATION	N o. of X - m er	CAPACITY OF X-MER (In MVA)	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Yearly
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Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

1) CE (S/s : O&M) ,CSPTCL Raipur												
a) SE (S/s : O&M) Circle ,CSPTCL Bhilai												
BHILAI	Sub-Station Dn. Bhilai											
	BHILAI	1	220 KV GURUR	2	40 MVA X-mer I	3,664.72	2,953.68	4,571.44	7,515.36	7212.08	10949.44	90191.92
					40 MVA X-mer II	3,962.80	2,535.92	6,158.56	7,326.64	6887.12	11113.44	53817.52
		2	132 KV BHILAI	3	40 MVA X-mer I	18,744.96	13,987.12	15,698.80	16,783.28	15997.12	19349.76	203027.36
					40 MVA X-mer II	18,376.40	13,715.52	15,391.12	16,454.80	15684.96	19061.60	199034.88
					40 MVA X-mer III	19,667.20	18,184.00	19,462.64	19,245.36	17773.12	20143.68	224193.36
		3	132 KV DHAMTARI	2	40 MVA X-mer I	11,817.04	6,392.96	11,770.08	13,885.52	13341.20	14185.36	147455.92
					40 MVA X-mer II	6,323.44	6,579.52	8,387.76	11,914.16	11012.32	11400.00	110443.12
		4	132KV DHAMDHA	2	40 MVA X-mer I	8,493.28	6,149.84	9,695.04	10,714.56	8804.48	9942.72	110187.52
					40 MVA X-mer II	8,460.56	6,111.52	9,654.88	10,686.16	8746.72	9889.36	108920.40
		5	132 KV RUABANDH A	2	40 MVA X-mer - I	11,213.04	6,936.56	6,299.44	6,355.60	5596.96	11424.00	109552.80
					63 MVA X-mer	19,720.08	14,543.04	14,434.08	15,365.76	14860.20	18287.16	231093.96
		6	132 KV BALOD	2	40 MVA X-mer	9,795.44	6,202.64	1,329.84	5,448.40	6668.08	8196.64	112882.64

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

				40 MVA X-mer II			7,012.00	5,603.00	6869.00	8438.00	27922.00
	7	132 KV SAJA	2	40 MVA X-mer I	5,071.36	5,050.16	7,136.00	6,843.20	4418.64	5117.28	71162.56
				40 MVA X-mer II	5,513.00	5,280.00	7,575.00	7,204.00	4619.00	5340.00	79578.00
	8	132 KV KURUD BHILAI	2	40 MVA X-mer I	9,295.20	3,298.40	6,776.00	7,941.60	8166.40	10325.60	100582.40
				40 MVA X-mer II	12,184.00	12,029.60	10,496.00	9,788.00	8782.40	10138.40	137728.80
	9	132KV GUNDERDE HI	2	40 MVA X-mer I	11,430.80	4,634.40	-	2,907.76	5764.40	8127.68	120216.80
				40 MVA X-mer II		1,607.00	9,719.00	7,757.00	6017.00	8492.00	33592.00
	10	132KV PATAN	2	40 MVA X-mer	11,358.80	7,673.60	10,709.60	9,148.48	9059.44	10901.92	141871.92
				40 MVA X-mer	3,570.00	1,129.00	1,170.00	8,912.00	8831.00	10634.00	52545.00
	11	132KV PULGAON	2	40 MVA X-mer I	6,367.20	7,600.00	8,797.60	11,911.20	11444.80	13737.60	147501.60
				40 MVA X-mer II	5,668.00	3,080.00	1,846.00	2,089.00	1200.00	2141.00	16024.00
	12	132 KV BERLA	2	40 MVA X-mer	8,323.40	7,032.00	9,352.40	13,873.40	16125.00	13433.40	133608.20
				20 MVA X-mer	4,414.40	3,724.00	4,849.68	2,987.92	0.00	5788.00	39227.60
	Sub-total	25		2,23,435.12	1,66,430.48	2,08,292.96	2,38,662.16	2,23,881.44	2,76,558.04	2802362.28	

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

	Sub-Station Dn. Rajnandgaon											
		1 3	132 KV MOHALA	1	40 MVA X-mer	5,048.00	4,239.00	3,424.00	5,440.00	5,843.00	9,560.00	53711.00
	RAJNANDGAON	1 4	220 KV BEMETARA	2	40 MVA X-mer I	3,428.00	4,234.00	11,380.00	14,234.00	12,118.00	14,178.00	117998.00
					40 MVA X-mer II	10,411.20	10,858.62	11,838.80	14,598.01	11992.20	14,527.77	137818.80
		1 5	220 KV THELKADIH	2	40 MVA X-mer I	7,518.32	8,320.64	10,240.48	9,802.24	9,424.96	9,551.92	128519.04
					40 MVA X-mer II	7,625.60	8,424.72	10,379.12	9,444.32	4,308.08	8,268.32	116143.20
		1 6	132 KV RAJNANDGAON	2	40 MVA X-mer I	13,863.60	9,645.84	12,068.40	13,228.08	13317.84	16,749.84	165449.52
					40 MVA X-mer II	13,440.00	9,720.00	11,951.20	13,109.60	13,209.60	16,604.00	164088.80
		1 7	132 KV DONGARGARH	2	40 MVA X-mer	5,634.96	4,885.44	6,780.00	8,384.40	8600.88	10,778.16	101997.84
					20 MVA X-mer	2,954.00	2,345.00	3,386.00	4,210.00	4303.00	5,363.00	51026.00
		1 8	132 KV DALLIRAJHARA	3	20 MVA X-mer I	5,435.40	3,187.80	6,759.60	5,852.88	6275.88	9,152.52	83401.68
					12.5 MVA X-mer I	2,478.60	2,225.64	2,771.76	3,054.60	3092.76	3,846.24	36362.04
					12.5 MVA X-mer II	2,365.32	2,048.64	2,653.68	2,942.52	2889.36	3,733.68	33428.52
		1 9	132 KV KAWARDHA	3	40 MVA X-mer I	7,064.00	5,302.00	5,364.00	5,844.00	5,792.00	8,482.00	90112.00
					63 MVA X-mer - II	13,170.60	11,428.20	11,407.80	9,915.00	6,754.80	10,056.60	142009.80
					40 MVA X-mer-III	1,657.00	-	4,114.00	6,530.00	4,538.00	6,566.00	60002.00

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

		20	132 KV NAWAGARH	2	40 MVA X-mer I	4,736.32	5,846.32	8,883.44	8,845.76	5,670.88	8,911.44	85441.36
					40 MVA X-mer II	6,941.91	6,300.48	9,504.52	9,568.31	7,253.14	9,633.95	99264.78
		21	132 KV DONGARGA ON	2	40 MVA X-mer I	9,990.00	8,589.00	13,158.00	15,570.00	15916.00	18,992.00	169389.00
					40 MVA X-mer II	9,351.00	8,762.00	12,752.00	14,257.00	14,315.00	16,644.00	155227.00
		22	132 KV PANDARIYA	2	40 MVA X-mer I	9,178.00	7,226.00	8,206.00	8,318.00	5,770.00	10,422.00	122774.00
					40 MVA X-mer II	9,317.04	7,864.08	8,371.20	9,344.88	8,348.88	10,658.88	128620.32
		23	132 KV RASMADA	2	40 MVA X-mer I	10,245.15	8,483.35	10,362.50	11,297.50	11,339.50	11,498.70	111722.45
					40 MVA X-mer II	10,632.30	8,523.60	10,736.80	11,741.20	11,782.30	11,857.80	115227.30
		24	132 KV GANDAI	1	40 MVA X-mer - I	6,552.00	6,094.00	8,402.00	7,172.00	4,118.00	5,670.00	90962.00
				1	40 MVA X-mer - II	6,534.00	6,077.00	8,381.00	7,056.00	4,083.05	5,656.00	91079.05
		25	220 KV GENDPUR	1	40 MVA X-mer I	6,546.10	6,584.80	8,783.00	8,921.00	4,259.70	4,220.50	104416.60
					40 MVA X-mer - II						774.36	774.36
			Sub-total	26		1,92,118.42	1,67,216.17	2,22,059.30	2,38,681.30	2,05,316.81	2,62,357.68	2756966.46
b) SE (S/s : O&M) Circle CSPTCL Jagdalpur												
JAGDA LPUR	Sub-Station Dn. Jagdalpur											

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

JAGDALPUR	26	220 KV BARSOOR	1	40 MVA X-mer I	6,300.40	2,732.72	2,724.56	2,597.04	2,555.52	3,352.00	62946.72
	27	132 KV JAGDALPUR	3	40 MVA X-mer I	10,005.12	9,028.24	9,421.20	7,283.92	5,884.48	7,712.88	119186.16
				40 MVA X-mer II	10,187.76	9,157.44	9,479.68	5,047.92	4,134.96	6,442.00	115206.72
				40 MVA X-mer III	-	-	-	7,776.00	8,678.00	10,274.00	26728.00
	28	132 KV KIRANDUL	2	40 MVA X-mer	6,337.44	6,156.64	6,370.88	6,713.20	6,201.52	7,169.04	77721.76
				20 MVA X-mer	3,192.48	3,109.64	3,349.80	3,302.44	2,874.60	3,441.04	38241.00
	29	132 KV KANKER	2	40 MVA X-mer-I	7,235.04	5,812.48	9,674.72	14,054.08	13,805.92	18,942.56	140431.44
				40 MVA X-mer-II	7,490.40	6,248.48	10,260.24	14,889.76	15,171.52	20,125.60	149738.00
	30	132 KV BHANUPRA TAPPUR	2	40 MVA X-mer I	4,136.00	3,688.00	4,292.00	4,916.00	5,056.00	6,688.00	57584.00
				40 MVA X-mer II	4,102.00	3,613.00	4,281.00	4,901.00	5,015.00	6,400.00	56870.00
	31	132 KV KONDAGAO N	2	40 MVA X-mer I	5,678.46	5,272.66	7,159.39	9,849.62	9,565.39	14,435.50	112240.61
				40 MVA X-mer II	5,611.00	5,263.00	7,058.00	9,488.00	9,436.00	14,160.00	81157.00
	32	132 KV CHARAMA	1	40 MVA X-mer	4,059.00	2,101.00	6,035.00	8,480.00	12,084.00	16,142.00	88472.00
	33	132 KV SUKMA	1	40 MVA X-mer	3,915.00	3,709.00	3,590.00	3,623.00	3,336.00	4,425.00	46309.00
	34	132 KV PAKHANJU R	1	40 MVA X-mer	8,657.00	8,503.00	10,887.00	11,845.00	11,596.00	14,030.00	121979.00
	35	132 KV DORNAPAL	1	40 MVA X-mer	1,286.00	1,053.00	907.00	968.00	937.00	1,490.00	15246.00

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

		36	220 KV NARAYANPUR	1	40 MVA X-mer	3,326.20	3,096.90	3,353.90	3,371.10	3,199.80	4,107.60	42423.30
		37	132 KV BIJAPUR	1	40 MVA X-mer	1,279.00	3,413.00	3,282.00	3,355.00	3,015.00	4,090.00	18434.00
			Sub-total	18		92,798.30	81,958.20	1,02,126.37	1,22,461.08	1,22,546.71	1,63,427.22	1370914.71
	400KV substation division Parchanpal, JAGDALPUR	37	220 KV Jagdalpur (Parchanpal)	1	40 MVA X-mer	8,002.30	7,745.10	9,259.50	9,836.30	9,413.50	11,354.70	102256.60
			Sub-total	1		8,002.30	7,745.10	9,259.50	9,836.30	9,413.50	11,354.70	102256.60
c) SE (S/s : O&M) Circle ,CSPTCL Raipur												
RAIPUR	Sub-Station Dn. Raipur-I											
	RAIPUR DN -I	38	220 KV URLA	3	63 MVA X-mer	30,863.35	28,313.40	27,601.80	18,747.60	20,207.40	19,529.85	279482.53
					40 MVA X-mer I	19,858.94	18,358.40	18,687.60	18,575.60	13,989.06	15,180.68	193397.59
					40 MVA X-mer II	19,293.49	18,066.64	17,981.86	16,479.95	13,447.96	16,090.27	188632.53
		39	220 KV SILTARA	4	63 MVA X-mer	37,031.91	35,065.85	37,328.79	37,727.10	32,111.63	32,801.80	359859.50
					40 MVA X-mer I	22,412.00	21,103.00	22,738.00	23,042.00	19,736.00	19,572.00	222541.00
					40 MVA X-mer II	17,138.90	17,243.21	17,824.83	18,996.51	16,216.68	17,583.91	164275.35

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

				40 MVA X-mer III	15,548.40	15,376.56	16,231.66	17,163.36	14,814.72	15,756.48	176293.18
	40	220 KV BHATAPARA	2	40 MVA X-mer I	5,458.81	4,930.92	7,287.71	10,242.49	10,861.25	12,914.10	90294.78
				40 MVA X-mer II	10,235.88	7,801.52	10,913.84	13,610.59	12,485.13	14,786.41	140948.37
	41	220 KV SUHELA	1	40 MVA X-mer I	6,146.00	5,566.00	7,414.00	10,418.00	10,502.00	12,076.00	102836.00
	42	132 KV GUDHIYARI	3	40 MVA X-mer I	10,292.88	9,826.80	8,712.96	8,695.92	7,514.16	10,061.04	131984.64
				40 MVA X-mer II	11,958.48	8,212.80	11,330.88	13,009.92	10,063.92	12,067.92	119399.52
				40 MVA X-mer III	11,132.40	5,950.00	4,527.60	2,499.60	2,958.00	6,270.40	82999.20
	43	132 KV KACHNA	3	63 MVA X-mer I	16,833.24	11,152.44	9,351.36	12,680.64	12,664.08	16,603.56	181400.76
				63 MVA X-mer II	14,025.24	12,863.52	11,648.88	9,829.08	8,422.56	13,555.08	171411.48
				40 MVA X-mer	8,492.00	5,272.40	8,286.80	6,608.00	10,216.00	10,678.80	100916.80
	44	132 KV BIRGAON	3	63 MVA X-mer	31,613.64	27,946.98	29,625.06	29,710.56	28,468.62	32,186.64	351571.86
				40 MVA X-mer I	19,738.90	17,513.82	19,053.36	18,169.50	17,469.95	18,996.19	209666.37
				40 MVA X-mer II	18,456.06	15,210.47	17,856.18	16,967.63	16,240.51	17,412.92	184924.64

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		4 5	132 KV SECTOR C URLA	3	63 MVA X-mer I	10,862.35	9,880.99	10,951.38	9,693.50	9,723.06	11,890.87	110786.97
					63 MVA X-mer II	31,658.04	30,295.80	32,092.56	31,025.16	30,026.88	31,683.24	325397.52
					40 MVA X-mer I	6,969.19	6,876.96	7,019.76	6,208.66	6,225.55	7,612.56	73966.08
		4 6	132 KV SIMGA	2	40 MVA X-mer-I	5,746.35	4,466.63	11,755.86	15,154.66	12,475.77	15,678.38	97985.47
					40 MVA X-mer-II (earlier 16 MVA X-mer)	6,205.66	4,887.25	5,259.23	4,644.46	6,160.17	9,339.66	52937.49
		4 7	132 KV BALODABA ZAR	2	40 MVA X-mer I	10,360.00	7,480.00	8,056.00	7,632.00	6,736.00	9,982.00	114757.60
					40 MVA X-mer - II	4,948.00	6,286.00	5,298.00	3,880.00	3,726.00	4,546.00	58208.00
		4 8	220 KV BORJHARA	3	40 MVA X-mer I	17,324.80	13,973.20	16,102.80	14,824.00	11,330.00	13,787.20	168622.00
					40 MVA X-mer - II	18,795.20	14,973.92	17,468.96	8,635.15	12,275.40	14,941.24	175174.06
					63 MVA X-mer I			625.50	21,957.00	17,941.50	16,623.00	57147.00
		4 9	132 KV TULSI	2	40 MVA X-mer I	7,327.50	3,942.59	4,988.13	6,136.04	6,747.44	9,408.73	83911.63
					40 MVA X-mer II	14,574.57	9,482.64	12,719.67	14,738.69	14,410.82	16,686.06	152687.82
		5 0	132 KV SARONA	1	40 MVA X-mer	11,046.06	11,890.54	10,117.84	14,926.58	11,318.64	12,532.40	169294.46

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

	5 1	132 KV KASDOL	1	40 MVA X-mer	13,140.00	9,660.00	10,848.00	11,746.00	11,134.00	15,862.00	151956.0 0
	5 2	132 KV SECTOR A HEERA POOL	2	40 MVA X-mer (earlier 63 MVA X-mer)	5,634.60	6,308.40	14,439.00	15,442.20	14,107.20	17,238.00	98412.00
				40 MVA X-mer - II	13,013.60	16,828.00	17,871.20	16,383.20	15,110.40	18,476.00	152093.2 7
	5 3	220 KV KUTHREL	2	63 MVA X-mer-I	28,114.10	24,663.40	30,519.90	22,282.20	23,191.80	16,149.10	281605.3 0
				63 MVA X-mer- II				9,729.50	8,646.60	11,113.60	29489.70
		Sub-total	3 7		5,32,250.55	4,67,671.05	5,20,536.95	5,38,213.03	4,99,676.87	5,67,674.10	5807268. 46
		Sub-Station Dn. Raipur II									
	5 4	220 KV DOMA	2	40 MVA X-mer I	-	-	5,458.61	5,891.24	6,152.50	8,630.34	26132.70
				40 MVA X-mer II	18,386.00	12,366.00	8,726.00	6,260.00	6,538.00	9,214.00	151226.0 0
	5 5	220 KV SARAIPALI	3	40 MVA X-mer I	10,155.36	7,707.26	9,092.63	12,380.93	12,725.37	15,588.87	123208.4 0
				40 MVA X-mer II	4,276.52	949.59	10,670.62	12,955.55	13,289.91	16,297.96	103270.8 4
				40 MVA X-mer III	5,150.40	6,595.60	7,896.00	9,326.00	12,306.80	15,948.40	105067.2 0
	5 6	220KV PARASWANI	2	40 MVA X-mer I	5,854.00	5,496.00	8,116.00	7,116.00	8,604.00	13,188.00	56998.00

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			40 MVA X-mer (earlier 20 MVA X-mer)	5,916.00	2,486.00	3,144.00	6,806.00	8,304.00	12,624.00	97000.00
5	132 KV MANA	2	40 MVA X-mer I	7,239.20	5,132.40	5,139.20	5,764.40	5,835.60	6,630.40	82526.40
7			40 MVA X-mer II	7,777.13	4,878.05	4,868.58	4,836.58	5,444.42	10,785.22	75206.85
5	132 KV KUHERA	2	63 MVA X-mer I	3,539.04	-	5,579.93	3,846.19	5,485.15	9,786.30	47229.86
8			63 MVA X-mer II	3,852.63	5,796.73	74.02	3,024.61	1,427.90	-	42294.32
5	132 KV MANDIR HAUSAD	2	40 MVA X-mer	9,802.00	8,198.40	9,149.20	9,153.20	7,401.20	9,458.00	108894.00
9			40 MVA X-mer- II	9,902.00	8,498.00	9,447.00	9,660.00	7,614.00	9,726.00	111425.00
6	132 KV MAHASAMU ND	2	40MVA X-mer I	5,661.40	3,877.54	6,996.01	9,971.38	11,503.48	14,332.51	105972.12
0			40 MVA X-mer II	5,820.10	618.94	6,802.04	10,249.49	11,856.00	14,670.99	107230.76
6	132KV JHALAP	2	40 MVA X-mer I	7,012.00	1,524.00	11,552.00	17,634.00	17,626.00	19,650.00	131252.00
1			40 MVA X-mer II	7,862.00	7,475.60	13,267.20	19,330.80	19,390.40	21,628.80	159362.00
6	132 KV RAJIM	3	40 MVA X-mer I	2,158.00	1,627.50	9,083.50	11,610.50	12,715.50	15,869.50	116571.50
2			40 MVA X-mer II	9,122.00	4,826.00	6,996.00	8,182.00	12,200.00	15,662.00	104283.50
			40 MVA X-mer III	8,161.20	6,420.80	8,494.00	11,416.00	12,507.00	15,606.80	112583.70
6	132 KV SANKRA	2	40 MVA X-mer	803.99	8,701.06	10,968.82	11,736.04	13,546.38	15,954.30	101261.21
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Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

			63 MVA Xmer	13,614.87	591.97	9,769.70	19,514.66	22,337.49	26,370.14	173182.09
64	132 KV MAGARLOAD	2	40 MVA X-mer-I	2,736.00	2,016.00	6,708.00	4,202.00	5,700.00	8,926.00	52076.00
			40 MVA X-mer - II	1,869.93	1,509.51	3,611.66	8,956.89	6,764.91	9,404.18	62729.86
65	132KV KURUD DHAMTARI	2	40 MVA X-mer	4,701.70	1,695.65	3,626.47	8,863.42	4,950.10	8,843.47	52134.77
			40 MVA X-mer (earlier 20 MVA X-mer)	4,284.00	4,504.00	5,584.00	5,604.00	9,564.00	9,038.00	92356.00
66	132 KV BAGBAHARA	2	40 MVA X-mer I	5,550.68	1,902.94	8,719.15	11,693.61	12,893.49	18,429.80	106742.52
			40 MVA X-mer II	5,208.00	6,454.00	10,180.00	12,476.00	13,680.00	19,318.00	112436.00
67	132 KV GARIYABAND	1	40 MVA X-mer	9,043.28	8,799.36	13,403.36	16,089.60	16,504.84	20,838.32	153878.88
68	132 KV RAWANBHATA	2	63 MVA X-mer II	17,106.64	11,888.33	11,242.02	11,789.65	11,180.90	16,276.49	172216.73
			40 MVA X-mer	10,224.41	7,066.00	6,716.14	7,042.89	6,671.44	9,742.03	112636.70
69	132 KV BAKHARA	1	40 MVA X-mer	4,927.80	2,715.60	5,048.60	7,479.80	7,922.80	9,838.00	73030.80
70	132 KV NAGARI	1	40 MVA X-mer I	4,388.00	3,385.00	6,175.00	9,624.00	9,912.00	14,104.00	88323.00
71	132 KV BASANA	1	40 MVA X-mer I	7,888.40	4,695.20	10,268.40	13,884.80	15,713.20	20,702.00	126003.40
	Sub-total	34		2,29,994.67	1,60,399.02	2,62,573.87	3,34,372.22	3,56,268.77	4,63,082.83	3446743.10

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

2) CE (S/s : O&M) ,CSPTCL Bilaspur											
a) SE (S/s : O&M) Circle ,CSPTCL Bilaspur											
BILASPUR	MRT Cum Sub-Station Dn. Raigarh										
	RAIGARH	7	220 KV RAIGARH	3	40MVA X-Mer No.-1 (alstrom)	-	-	-	-	-	0.00
		2			40MVA X-Mer No.-2 (TELK)	10,228.00	8,280.00	8,082.00	10,026.00	9,126.00	126454.00
					40MVA X-Mer No.-3 (ECE)	11,153.96	9,065.04	8,880.04	10,951.88	9,910.32	137564.60
		7	132 KV RAIGARH	2	40 MVA X-Mer No.-1 (B.B.)	7,306.00	4,616.00	5,826.00	7,706.00	9,474.00	98060.00
		3			20MVA X-Mer (CGL)	3,847.00	2,531.00	2,981.00	4,051.00	4,993.00	49487.00
		7	132 KV SARANGARH	2	40MVAX-Mer No1(EMCO)	14,232.88	10,006.54	11,157.01	13,910.74	12,859.98	157605.96
		4			40MVAX-Mer No2(EMCO)	15,326.40	10,701.60	11,989.20	15,016.00	13,905.20	170974.00
		7	132 KV BARAMKEL A	2	40MVA X-Mer No-1 (ABB)	11,026.00	6,580.80	8,292.80	15,134.40	15,766.80	128579.20
		5			40MVA X-Mer No-2 (VIJAY ELE.)	10,728.00	6,354.00	8,130.00	15,066.00	15,892.00	126778.00
		7	132 KV GHARGHOD A	2	40MVA X-Mer (AREVA)	7,635.00	6,681.00	7,117.00	8,503.00	7,347.00	91540.00
		6			40MVA X-Mer-II (ECE)	8,188.50	7,209.00	7,641.50	9,024.50	8,423.00	98180.00

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		77	132 KV KHARSIYA (CHAPLE)	2	40MVA X-Mer (EMCO)	10,422.40	8,454.40	9,032.80	8,081.60	8,353.80	10,394.70	105522.10
					40MVA X-Mer (BHEL)	1,934.00	-	560.00	6,212.00	6,576.00	9,688.00	52318.00
		78	132 KV PATHALGA ON	2	20MVA X-Mer No.-1 (GEC)	6,210.48	4,473.60	-	-	14,252.16	10,246.56	71460.12
					40MVA X-Mer No.-2 (ALSTOM)	12,036.96	11,836.08	16,591.68	17,824.80	1,066.56	10,938.96	141365.04
		79	132 KV JASHPUR	2	20MVA X-Mer (EMCO)	3,816.00	4,414.00	4,903.00	4,355.00	3,836.00	3,646.00	49997.00
					20MVA X-Mer - 2 (EMCO)	3,814.06	4,409.46	4,906.26	4,375.46	3,827.16	3,639.30	49886.32
		80	132 KV ADHBAR	2	40MVA X-Mer No.-1 (ABB)	8,863.20	5,632.10	7,710.70	10,286.30	10,057.20	13,133.40	112768.60
					40MVA X-Mer No.-2 (Andrew Yule)	8,648.00	5,424.00	7,438.00	10,086.00	9,872.00	12,934.00	110158.00
		81	132 KV JAIJAPUR	1	40MVA X-Mer (TEC, ASSO.)	14,938.00	8,376.00	10,370.00	14,340.00	13,902.00	18,996.00	165664.00
		82	220 KV GERWANI	2	63MVA X-Mer No.-1 (BB)	19,411.42	20,215.82	20,317.91	20,946.08	19,440.63	20,764.01	217739.71
					63MVA X-Mer No.-2 (BB)	18,797.94	19,512.95	19,622.43	20,146.88	18,773.56	20,056.18	202769.59
		83	132 KV KONDATAR AI	1	40 MVA X-MER (B.B.)	11,812.94	6,299.14	7,189.74	12,059.87	13,567.68	17,551.01	113586.55
		84	132 KV DABHRA	1	40 MVA X-MER (Toshiba)	9,537.68	7,284.03	6,921.55	8,796.66	10,808.39	13,934.81	115762.36
		85	132 KV KANSABEL	1	40 MVA X-MER (BB)	13,317.76	10,797.17	12,567.96	14,779.96	12,698.48	13,455.42	139047.62
			Sub-total	25		2,43,232.58	1,89,153.73	2,08,228.57	2,61,680.13	2,54,728.93	3,17,385.26	2833267.77

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Sub-Station Dn. Bilaspur											
BILASPUR	86	220 KV MOPKA	3	40 MVA 1- EMCO	13,169.52	9,902.15	10,324.02	10,808.00	10,128.00	11,966.00	141147.69
				40 MVA 2- EMCO	10,622.09	7,878.87	7,844.90	7,337.52	7,714.32	10,608.48	109837.30
				40 MVA 3- ALSTOM	12,563.50	9,383.46	9,936.50	10,394.50	9,716.50	11,552.00	135749.46
	87	220 KV MUNGELI	1	40 MVA X-mer (T&R)	6,512.00	6,002.00	6,456.00	6,456.00	5,300.00	7,062.00	81570.00
	88	220 KV DHERDEHI	1	160MVA-II (Tertiary side import)	23.87	19.84	19.43	19.07	16.90	23.04	268.38
	88	132 KV BILASPUR	4	40 MVA BHEL- 1	3,378.40	3,159.20	5,559.20	7,643.20	6,663.20	10,328.80	67724.80
	40 MVA EMCO-2			7,482.40	8,956.80	7,089.60	7,004.00	5,428.80	8,188.80	84274.40	
	40 MVA BB-3			13,361.60	7,992.80	6,527.20	8,769.60	8,709.60	11,791.20	137024.00	
	40 MVA ALSTOM-4			9,717.20	5,478.80	6,723.60	6,599.20	5,886.00	8,057.60	113156.00	
	89	132 KV MUNGELI	2	40 MVA-1 BHEL	9,077.20	5,712.40	6,163.60	7,506.00	7,797.60	10,086.00	96411.20
	40 MVA-2 TELK			5,138.00	5,092.00	5,844.00	7,486.00	7,762.00	10,320.00	90466.00	
	90	132 KV AKALTARA	2	40 MVA EMCO	11,456.40	8,932.80	9,460.08	10,273.68	9,555.12	11,777.04	131563.68

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			20 MVA APEX	5,861.00	4,535.00	4,908.00	5,243.00	4,812.00	6,018.00	67187.00
91	132 KV SILPAHRAI	2	40 MVA BB	12,554.00	9,660.00	12,806.00	15,278.00	14,706.00	18,046.00	165036.00
			40 MVA ALOSTOM	12,672.00	9,936.00	12,782.00	15,446.00	14,886.00	18,152.00	168142.00
92	132 KV CHAKARBHATA	2	40 MVA-1 TECH.ASS.	3,166.00	4,652.00	3,172.00	4,124.00	3,374.00	5,668.00	50440.00
			40 MVA-2 VEL	4,772.80	3,654.00	3,046.80	4,540.80	5,033.20	5,673.20	52324.40
93	132 KV KOTA	1	40 MVA X-mer I TECH.ASS.	8,198.00	6,242.00	7,182.00	8,846.00	9,086.00	11,570.00	103982.00
		1	40 MVA X-mer II ECE	9,109.34	5,962.69	6,790.41	8,435.21	8,436.35	11,008.98	100295.38
94	132 KV PATHARIA	2	40 MVA X-mer TECH.ASS.	12,830.00	12,632.00	17,496.00	17,168.00	11,314.00	16,096.00	180094.00
			40 MVA X-mer - II				3,473.55	11,104.00	15,678.00	30255.55
95	132 KV KONI	2	40 MVA X-Mer (ECE)	64.60	42.20	-	-	-	369.80	24884.20
			40 MVA X-mer-II (ECE)	11,542.20	5,009.80	5,736.00	8,157.00	7,502.00	13,088.00	89716.00
96	132 KV TAKHATPUR	1	40 MVA X-mer I	9,890.60	6,644.00	8,495.00	14,591.90	12,630.90	15,158.70	138505.60
97	132 KV SEORINARA YAN	2	40 MVA X-mer I	16,230.00	12,700.00	11,626.00	11,892.00	11,429.00	15,270.00	171435.00
			40 MVA X-mer - II					-	63.60	63.60
98	132 KV LORMI	2	40 MVA X-mer I	14,026.00	11,541.00	12,872.00	11,788.00	7,725.00	9,851.00	158731.00

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

					40 MVA X-mer II				2,279.00	7,721.00	9,998.00	19998.00
			Sub-total	28		2,23,418.72	1,71,721.80	1,88,860.34	2,21,559.23	2,14,437.49	2,83,470.24	2710282.64
b) SE (S/s : O&M) Circle ,CSPTCL Korba												
KORBA	MRT Cum Sub-Station Dn. Bishrampur											
	BISHRAMPUR	99	132 KV BISHRAMPU R	3	40 MVA XMER EMCO	7,546.80	7,258.80	5,146.80	8,346.00	5,735.20	3,724.80	90253.20
					20 MVA XMER-I EMCO	3,490.40	3,287.60	4,725.40	3,836.60	2,623.80	1,708.20	43987.80
					40 MVA XMER Bharat Bijali	-	-	-	-	2,612.20	8,888.00	11500.20
		100	132 KV AMBIKAPUR	3	40 MVA XMER-I EMCO	11,092.00	10,496.00	12,382.00	12,298.00	10,658.00	12,610.00	138884.00
					40 MVA XMER-II TELK	10,164.00	9,665.60	11,472.00	11,421.60	9,880.80	11,740.80	128092.00
					40 MVA XMER-III AREVA	10,570.00	9,653.20	11,648.80	11,610.80	10,030.00	11,934.00	130495.20
		101	132 KV BAIKUNTHPUR	2	40 MVA XMER 1	10,009.80	9,999.80	11,268.60	11,236.40	9,309.20	10,527.20	118130.20
					40 MVA XMER 2	9,770.40	9,730.00	10,980.40	10,317.40	9,029.36	9,922.00	115947.56
		102	132 KV MANENDRA GARH	2	40 MVA XMER-I T&R	12,801.68	10,530.48	11,534.40	11,799.20	10,128.48	10,856.74	135310.98
					40 MVA XMER-II A Y	10,987.60	9,011.60	9,895.60	10,128.40	8,704.80	9,351.60	116252.80

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

		103	132 KV BALRAMPU R	1	40 MVA XMER TA	8,989.20	9,350.40	11,654.40	11,379.84	10,048.88	10,791.47	115888.03
		104	220 KV BISHRAMPU R	2	40 MVA XMER ALSTROM	8,522.00	8,394.00	12,272.00	10,118.00	8,976.57	10,092.00	129022.57
					40 MVA X-mer-II	8,908.50	8,970.00	12,921.00	10,648.50	9,462.00	10,450.50	96243.00
		105	132 KV PRATAPPU R	1	40 MVA XMER	12,114.00	12,250.00	14,568.00	15,008.00	13,604.00	16,696.00	156508.64
		106	132 KV BATAULI	2	40 MVA X-mer I	5,150.84	5,578.44	6,944.75	6,845.90	6,297.69	6,338.87	67865.56
					40 MVA X-mer II	5,271.02	5,657.61	7,031.51	6,957.96	6,392.20	6,425.20	68854.46
		107	132 KV WADRAFNA GAR	1	40 MVA X'mer Bharat Bijlee	9,288.83	10,611.35	11,960.08	12,073.60	10,909.92	11,531.52	118163.62
		108	132 KV RAJPUR	1	40 MVA X'mer Bharat Bijlee	8,520.00	9,717.60	12,252.80	12,504.80	10,577.60	11,812.48	117890.88
		109	132 KV Udaypur (Salka)	1	40 MVA X-mer					-	-	0.00
			Sub-total	19		1,53,197.07	1,50,162.48	1,78,658.55	1,76,531.00	1,54,980.69	1,75,401.38	1899290.68
	Sub-Station Dn. Korba											
	KORBA		220 KV KOTMIKALA	3	20 MVA ABB-1	7,297.80	5,217.40	6,010.00	6,356.20	5,728.20	5,145.40	90564.80

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

		1 1 0			20 MVA CGL-2	-	-	-	-	-	-	47664.26		
					40 MVA ECE	6,206.92	10,193.88	11,539.69	12,203.58	10,997.77	15,344.10	66485.94		
		1 1 1	220 KV BANARI	1	40 MVA EMCO	11,240.00	6,504.00	4,986.00	3,178.00	2,234.00	5,008.00	75274.00		
		1 1 2	132 KV CHAMPA	2	40 MVA EMCO-1	7,555.20	5,198.40	4,176.00	4,756.80	4,656.00	6,333.60	76940.00		
					40 MVA EMCO-2	7,429.20	5,234.00	4,286.80	4,790.40	4,690.40	6,392.80	85016.00		
		1 1 3	132 KV DARRI	2	40 MVA TELK-1	8,418.40	7,010.40	7,785.60	7,931.37	7,013.60	7,304.00	107116.17		
					40 MVA GEC-2	9,241.94	7,836.47	8,388.64	8,539.57	7,597.58	7,859.01	114402.22		
		1 1 4	132 KV RENKI	1	40 MVA X-Mer (CGL)	6,535.20	5,402.64	5,102.40	5,606.64	5,010.96	6,580.56	66972.48		
		1 1 5	100 MW POWER HOUSE KORBA	2	40 MVA X-mer I	15,740.40	12,359.91	12,402.72	12,284.15	10,678.42	13,713.65	173752.53		
					40 MVA X-mer II	11,385.03	8,933.04	9,274.90	9,428.77	8,505.04	10,363.70	124891.08		
		1 1 6	132 KV CHHURI- KHURD	1	40 MVA	8,448.00	7,823.00	8,478.00	8,690.00	7,524.00	11,050.00	101583.00		
				1 1 7	220 KV CHHURI	1	160MVA-II (Tertiary side import)	15.53	14.17	13.46	14.17	13.54	17.59	176.70
					Sub-total	13		99,513.63	81,727.31	82,444.21	83,779.66	74,649.50	95,112.41	1130839.20
GRAND TOTAL				226		19,97,961.35	16,44,185.34	19,83,040.63	22,25,776.11	21,15,900.71	26,15,823.86	24860191.90		

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

MU			1,997.96	1,644.19	1,983.04	2,225.78	2,115.90	2,615.82	24860.19
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FY 2020-21			Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Yearly
ED(S/s : O&M), CSPTCL, Raipur	(As per above calculation)	As per above calculation	1129.16	1179.79	1222.03	1,589.78	1,433.22	1,433.87	1,278.60	1,051.42	1,324.85	1,482.23	1,417.10	1,744.45	16286.51
CE(S/s : O&M), CSPTCL, Bilaspur	(As per above calculation)		666.86	719.56	645.37	779.18	710.76	767.91	719.36	592.77	658.19	743.55	698.80	871.37	8573.68
Total			1796.02	1899.35	1867.41	2,368.97	2,143.98	2,201.78	1,997.96	1,644.19	1,983.04	2,225.78	2,115.90	2,615.82	24860.19
ED(S/s : O&M), CSPTCL, Raipur	(As per their letters)		1128.73	1179.42	1221.72	1,589.33	1,432.79	1,433.43	1,278.19	1,051.17	1,324.31	1,481.72	1,416.42	1,743.55	16280.78
CE(S/s : O&M), CSPTCL, Bilaspur	(As per their letters)		666.86	719.56	645.37	779.18	710.76	767.91	719.36	592.77	658.19	743.55	698.80	871.37	8573.68
Total			1795.59	1898.98	1867.10	2,368.51	2,143.55	2,201.34	1,997.55	1,643.94	1,982.50	2,225.27	2,115.21	2,614.92	24854.46

Annexure – 5: Transmission Loss Statement for FY 2020-21

Transmission	Units		Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Cumulative
			1st Quarter			2nd Quarter			3rd Quarter			4th Quarter			
CSPTCL (CSEB own Gen) EX Bus at 132 KV & above.	MU	A	1,443.84	1,444.46	1,395.72	1,646.15	1,644.01	1,512.91	1,442.13	1,472.15	1,477.43	1,290.46	1,204.92	1,431.40	17,405.56
Drawl from CTU Grid at CG Periphery.	MU	B	469.53	594.38	617.56	898.65	671.76	853.20	733.31	347.63	710.11	1,153.06	1,122.40	1,480.02	9,651.60
IPPs/CPP Injection in CSPTCL System at 132 KV & above.	MU	C	60.22	78.70	82.91	99.63	99.56	102.14	96.43	87.54	85.47	87.75	91.63	95.83	1,067.82
Total Injection at State Grid of STU.	MU	D = A+B+C	1,973.59	2,117.54	2,096.19	2,644.43	2,415.33	2,468.24	2,271.86	1,907.31	2,273.01	2,531.28	2,418.94	3,007.24	28,124.97
Net Output to DISCOM.	MU	E	1,796.02	1,899.35	1,867.41	2,368.97	2,143.98	2,201.78	1,997.96	1,644.19	1,983.04	2,225.78	2,115.90	2,615.82	24,860.19
EHV Sales from Sub Station.	MU	F	105.94	172.48	172.21	185.08	183.81	182.63	206.68	210.73	224.59	225.31	239.28	282.12	2,390.86
Sum of import data of transformers and import data of generating stations feeder's import	MU	G													4.89
Total Output from CSPTCL System.	MU	H=E+F+G	1,901.96	2,071.83	2,039.62	2,554.04	2,327.79	2,384.41	2,204.65	1,854.91	2,207.63	2,451.08	2,355.18	2,897.94	27,255.94
Transmission Loss.	MU	I=D-H	71.63	45.71	56.57	90.38	87.54	83.84	67.21	52.40	65.37	80.19	63.76	109.30	869.03
Transmission Loss.	%	M = I*100/D	3.63%	2.16%	2.70%	3.42%	3.62%	3.40%	2.96%	2.75%	2.88%	3.17%	2.64%	3.63%	3.09%
			3.30%	2.72%	2.84%	3.29%	3.15%	3.11%	2.71%	2.62%	3.07%	2.65%	2.64%	3.26%	2.96%

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

Transmission loss in FY2019-20													
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Annexure – 6: JMR Readings of CSPGCL Power Stations for FY 2020-21

JMR Readings of CSPGCL generators FY 2020-21

S. NO.	PARTICULAR	UNIT	1st Quarter			2nd Quarter			3rd Quarter			4th Quarter			COMMULATIVE FIG: (upto Mar-21)
			Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	
GENERATION															
1	KTPS, Korba East	MU	97.73	106.62	91.72	109.19	98.07	93.00	102.27	96.13	65.43	0.00	0.00	0.00	860.17
2	HTPS, Korba West	MU	441.46	442.45	417.39	443.86	389.99	413.29	410.09	372.25	441.33	361.26	332.77	319.81	4,785.95
3	DSPM, Korba East	MU	281.91	284.64	281.36	311.59	291.88	270.79	286.08	237.78	158.98	146.44	216.00	288.93	3,056.38
4	Korba West (Extn)	MU	331.19	329.16	306.92	294.86	298.76	339.77	325.98	332.73	338.88	320.95	320.59	316.92	3,856.71
5	ABVTPS	MU	272.69	272.43	276.81	406.06	477.66	315.68	282.15	428.41	467.74	436.54	312.83	479.06	4,428.06
6	HASDEO BANGO HYDEL	MU	18.84	9.16	21.52	80.59	87.65	80.38	35.55	4.85	5.06	25.27	22.73	26.68	418.29
C.S.P.G.C.L Gen. 132 KV & above as per JMR data			1,443.84	1,444.46	1,395.72	1,646.15	1,644.01	1,512.91	1,442.13	1,472.15	1,477.43	1,290.46	1,204.92	1,431.40	17,405.56
1	SHP-Gangrel	MU	4.58	1.25	0.22	0.30	3.21	5.18	1.23	0.22	0.00	3.37	3.28	5.24	28.09
2	SHP-Sikasar	MU	0.81	0.05	0.83	2.24	1.19	2.52	0.94	0.00	0.00	0.20	0.69	0.36	9.81
3	SHP-HTPS Korba West (Mini-Micro)	MU	0.65	0.66	0.40	0.38	0.51	0.34	0.35	0.29	0.35	0.34	0.33	0.34	4.94
4	CO-GEN Kawardha plant	MU	0.34	0.24	0.00	0.00	0.00	0.00	-0.01	-0.01	0.49	1.18	1.07	0.99	4.30
OVERALL C.S.P.G.C.L Gen. as per JMR data		MU	1,450.22	1,446.66	1,397.18	1,649.07	1,648.91	1,520.94	1,444.64	1,472.64	1,478.26	1,295.55	1,210.28	1,438.32	17,452.69

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

Source of Data/ Informations : JMR from CSPGCL

Annexure – 7: Details of transmission charge billed to CSPDCL, MTOA & STOA Customers from April 2019 to March 2020

Details of transmission charge billed to & received from CSPDCL, MTOA & STOA Customers from April 2020 to March 2021													
S.No.	Month	Total ARR	Amount billed to				Amount received in the next month against the bill issued in the previous month					POC Charges received from PGCIL	Total Amount Realised (8+9+10+11+12+13)
			CSPDCL (LTOA)	CSPDCL (LTOA 70 MW Solar) Inter-State	CSPTadCL (376.5MW) LTOA FROM 10.01.2018	Rajaram Maize Product (04MW Solar Power Intra-State)	CSPDCL (LTOA)	CSPDCL (LTOA 70 MW Solar)	CSPTadCL (376.5MW) LTOA FROM 10.01.2018	Rajaram Maize Product (04MW Solar Power Intra-State)	STOA (Current Month)		
1	2	3	4	5	7	6	8	9	10	11	12	13	14
1	Apr-20	68.070	61.343	1.024	5.507	0.000	0.000	1.010	5.431	0.000	0.196	0.000	6.637
2	May-20	68.070	61.222	1.022	5.497	0.000	66.000	1.024	5.507	0.000	0.329	0.000	72.860
3	Jun-20	79.110	71.618	1.169	6.286	0.000	94.000	1.1599	6.238	0.000	0.038	0.000	101.436
4	Jul-20	79.110	71.608	1.169	6.285	0.000	69.000	1.169	6.285	0.000	0.048	0.000	76.502
5	Aug-20	79.110	71.611	1.169	6.285	0.000	23.000	1.2573	6.285	0.000	0.045	0.000	30.588
6	Sep-20	79.110	71.029	1.159	6.234	0.000	73.000	1.159	6.234	0.000	0.687	0.000	81.081
7	Oct-20	79.110	71.283	1.163	6.257	0.000	50.000	1.163	6.257	0.000	0.407	0.000	57.827
8	Nov-20	79.110	71.295	1.163	6.258	0.000	23.000	1.163	6.258	0.000	0.394	0.000	30.815

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

9	Dec-20	79.110	71.486	1.167	6.275	0.000	104.000	1.167	6.275	0.000	0.183	0.000	111.624
10	Jan-21	79.110	71.490	1.167	6.275	0.000	40.000	1.167	6.275	0.000	0.179	0.000	47.620
11	Feb-21	79.110	70.620	1.152	6.199	0.000	94.710	1.152	6.199	0.000	1.139	0.000	103.200
12	Mar-21	79.110	70.685	1.153	6.204	0.000	1.153	1.153	6.204	0.000	1.068	0.000	9.579
	TOTAL	927.240	835.289	13.677	73.561	0.000	637.863	13.745	73.448	0.000	4.712	0.000	729.769

Note :- (1) All the amount are in Crs.

(2) Monthly ARR is Rs 68.079 Cr. w.e.f 01.04.2018 as per the tariff order 19-2 Oup to May 2020 & thereafter Rs. 79.11 Cr. From June 2020.

(3) ARR is Rs 949.34 Cr. w.e.f 01.06.2020 as per the tariff order 20.21 issued on order dated 30.05.2020 & Corrigendum order 03.07.2020 issued by CSERC in petition no. 03/2020(T)

S.No.	Particulars	Billed				Received					% Realization
		LTOA	MTOA	STOA	TOTAL	LTOA	MTOA	STOA	POC Charges	TOTAL	
1	CSPDCL	835.289	0.000	4.712	840.002	637.863	0.000	4.712	0.000	642.576	76
2	CSPDCL (70 MW)	13.677	0.000	0.000	13.677	13.745	0.000	0.000	0.000	13.745	100
3	CSPTrad.CL (376.5 MW)	73.561	0.000	0.000	73.561	73.448	0.000	0.000	0.000	73.448	100
4	OTHER OA CONSUMER	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0
5	TOTAL	922.528	0.000	4.712	927.240	725.056	0.000	4.712	0.000	729.769	79

Note:- Revised bill was issued vide letter No.245 & 243 dtd 04/07/2020 whereas CSPDCL has paid as per the bill dtd. 01/07/2020 of month June 2020 so the difference amount of Rs. 88,683.00 & Rs. 4,76,985.00 is balance for payment against 70MW & 376.5 MW LTA.

10: TECHNICAL FORMATS FOR FY 2020-21

F-1			
Aggregate Revenue Requirement (Rs. Crores)			
CHHATTISGARH STATE POWER TRANSMISSION COMPANY LIMITED			
Sr. No	Particulars	FY 2019-20	FY 2020-21
1	Employee Expenses	195.24	189.43
2	A&G Expenses	50.42	57.67
3	R&M Expenses	51.14	54.07
4	Terminal Benefits	45.26	69.52
5	Interim Wage Relief	-	0.00
6	Less: Capitalization of Emp, R&M and A&G Expenses	14.85	10.81
7	Depreciation	232.00	249.12
8	Interest on Loan	195.77	192.26
9	Interest on Working capital	13.50	13.42
10	Prior Period (Income) / Expenses	-	0.00
11	Return on Equity	198.53	215.46
12	Gain/(Loss) on Sharing O&M Efficiency	(7.49)	-8.94
13	Incentive on Transmission Availability	3.65	3.62
14	Current Tax	12.74	1.98
15	Total Gross Aggregate Revenue Requirement	975.92	1,026.81
		-	
16	Less: Non Tariff Income	13.50	71.65
		-	
17	Aggregate Revenue Requirement	962.42	955.16

FORM-2 Calculation of Return on Equity (Rs Crores) CHHATTISGARH STATE POWER TRANSMISSION COMPANY LIMITED			
Sr. No	Particulars	FY 2019-20	FY 2020-21
1	Normative Equity Capital		
a	GFA as on 01-04-18	4,699.69	5096.45
b	Normative Equity Capital for assets till 1.04.2018	1,222.50	1339.13
2	GFA Opening Balance (After 1.04.2018)	4,699.69	5096.45
a	Additions to GFA	396.76	339.43
b	Closing GFA	5,096.45	5435.88
3	Normative Equity for assets acquired after 01-04-2018		
a	Opening Balance	1,222.50	1339.13
b	Additions during the year	119.03	101.83
c	Closing balance	1,341.53	1440.96
4	Notional Equity for Computation of AFC	1280.82	1390.05
5	Return on Equity (Pre-tax %)	15.50%	15.50%
6	Return on Equity	198.53	215.46

FORM-3 Statement of Capital Cost (Rs. Crores) CHHATTISGARH STATE POWER TRANSMISSION COMPANY LIMITED			
Sr. No	Particulars	FY 2019-20	FY 2020-21
A	a) Opening Gross Block Amount as per books	4,699.69	5,096.45
	b) Amount of capital liabilities in A(a) above		
	c) Amount of IDC, FC, FERV & Hedging cost included in A(a) above		
	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a) above		
B	a) Addition in Gross Block Amount during the period	396.76	339.43
	b) Amount of capital liabilities in B(a) above		
	c) Amount of IDC, FC, FERV & Hedging cost included in B(a) above		
	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a) above		
C	a) Closing Gross Block Amount as per books	5,096.45	5,435.88
	b) Amount of capital liabilities in C(a) above		
	c) Amount of IDC, FC, FERV & Hedging cost included in C(a) above		
	d) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a) above		
	Note:		
	GFA is as per the accounts		
	GFA is net of assets addition on account of SLDC		
	GFA addition for FY 2019-20 is as per the accounts		

Form No. 4			
<u>Gross Fixed Assets (Rs Crores)</u>			
CHHATTISGARH STATE POWER TRANSMISSION COMPANY LIMITED			
Sr. No	Particulars	Closing GFA for FY 2019-20	Closing GFA for FY 2020-21
A	Tangible Assets (Under Lease)	0.29	0.29
1	Leasehold Land (including land development cost)	0.29	0.29
		0.00	0.00
B	Tangible Assets	4714.99	5451.97
1	Land (including land development cost)	0.33	0.33
2	Factory Buildings	29.91	36.54
3	Office Buildings	15.09	17.11
4	Residential & Other Buildings	6.12	6.14
5	Hydraulic Works	0.50	1.00
6	Roads & Others	7.88	9.44
7	Plant, Machinery & Equipments	2658.61	3305.13
8	Lines & Cable Networks	1984.51	2061.28
9	Furniture and Fixtures	2.44	2.74
10	Office Equipments	2.05	2.64
11	Vehicles	1.13	1.13
12	Others	0.00	0.00
13	Computer (Hardware, Software & Peripherals)	6.42	8.49
C	Total Tangible Assets	4715.28	5452.26
	<i>Notes</i>		
	<i>GFA break-up including SLDC assets</i>		
	<i>GFA is as per the accounts</i>		

FORM-5 A						
Calculation of Weighted Average Depreciation Rate (%)						
CHHATTISGARH STATE POWER TRANSMISSION COMPANY LIMITED						
Sr. No	Particulars	Opening GFA (CSPTCL+SLDC) for FY 2020-21	Depreciation Rates (%)	Closing GFA (CSPTCL+SLDC) for FY 2020-21	Average GFA (CSPTCL+SLDC) for FY 2020-21	Gross Depreciation for FY 2020-21 (Rs Crores)
A	Tangible Assets (Under Lease)	0.29		0.29	0.29	0.01
1	Leasehold Land (including land development cost)	0.29	3.34%	0.29	0.29	0.01
B	Tangible Assets	5,112.54		5,451.97	5,282.26	277.75
1	Land (including land development cost)	0.33	0.00%	0.33	0.33	-
2	Factory Buildings	35.84	3.34%	36.54	36.19	1.21
3	Office Buildings	15.91	3.34%	17.11	16.51	0.55
4	Residential & Other Buildings	6.12	3.34%	6.14	6.13	0.20
5	Hydraulic Works	0.57	5.28%	1.00	0.78	0.04
6	Roads & Others	9.21	3.34%	9.44	9.32	0.31
7	Plant, Machinery & Equipments	3,034.86	5.28%	3,305.13	3,170.00	167.38
8	Lines & Cable Networks	1,995.23	5.28%	2,061.28	2,028.25	107.09
9	Furniture and Fixtures	2.70	6.33%	2.74	2.72	0.17
10	Office Equipments	2.31	6.33%	2.64	2.48	0.16
11	Vehicles	1.13	9.50%	1.13	1.13	0.11
12	Others	-	5.28%	-	-	-
13	Computer (Hardware, Software & Peripherals)	8.34	6.33%	8.49	8.41	0.53
		-				
C	Total	5,112.83		5,452.26	5,282.55	277.76
D	Weighted Average Rate of	-				5.26%

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	Depreciation					
	Notes					
	GFA including SLDC assets					

Final True-up of ARR for FY21 and MYT Petition for 4th MYT Control Period

FORM- 5 B Computation of depreciation CHHATTISGARH STATE POWER TRANSMISSION COMPANY LIMITED												
FY	Openin g GFA	Additional Capitalizatio n	Disposal/Sal e of Asset	Closing GFA	Rate of Depreciatio n	Dep durin g the FY	Less: Dep on the fully dep asset s	Less: Dep on the live assets created out of consumer contributio n	Net Dep durin g the year	Accumulate d depreciatio n	Net Bloc k	Salvag e value as per norm
2019-20	4,699.6 9	396.76		5,096.4 5	5.26%	257.5 5	22.92	2.63	232.0 0			
FY 2020- 21	5,096.4 5	339.43		5,435.8 8	5.26%	277.0 0	25.03	2.84	249.1 2			

Notes

GFA Schedule is taken as approved by the Hon'ble Commission

Depreciation calculations are as per the methodology determined by the Commission

Depreciation Rate is taken as the weighted average Depreciation rate

GFA addition is taken net of SLDC assets

Form F-6 Statement of Depreciation (Rs. Crores) CHHATTISGARH STATE POWER TRANSMISSION COMPANY LIMITED			
Sr. No	Particulars	FY 2019-20	FY2020-21
1	Cumulative Depreciation on Capital Cost (Opg.)	1683.00	1931.36
2	Depreciation on Additional Capitalisation		
3	Amount of Additional Capitalisation	396.76	339.43
4	Depreciation Amount during the year	232.00	277.00
5	Detail of FERV		
6	Amount of FERV on which depreciation charged		
7	Depreciation amount		
8	Depreciation recovered during the Year		
9	Advance against Depreciation recovered during the Year		
10	Depreciation & Advance against Depreciation recovered during the year		
11	Cumulative Depreciation & Advance against Depreciation recovered upto the year	1,915.00	2208.36
	Note:		
	Depreciation calculations are as per the methodology while determining ARR		
	GFA addition is taken net of SLDC assets		

FORM-7 Calculation of Interest on Normative Loan (Rs. Crores) CHHATTISGARH STATE POWER TRANSMISSION COMPANY LIMITED			
Sr. No	Particulars	FY 2019-20 (Rs Crores)	FY 2020-21 (Rs Crores)
1	Borrowed Loan in Opening GFA	3054.01	3431.13
2	Opening Normative Loan	377.12	377.12
3	Total Opening Gross Loan	3431.13	3808.25
4	Repayment till previous year	1135.66	1367.66
5	Total Opening Net Loan	1933.83	1973.98
6	Repayment during the period	232.00	249.12
7	Additional Capitalization of Borrowed Loan during the year	272.15	237.60
8	Addition/(Reduction) in Normative Loan during the year		0.00
9	Total Closing Net Loan	1973.98	1962.46
10	Average Loan during the year	1953.91	1968.22
11	Weighted Average Interest Rate	10.02%	9.76%
12	Interest Expense for the Period	195.77	192.26

FORM-8 Interest on Working Capital (Rs. Crores.) CHHATTISGARH STATE POWER TRANSMISSION COMPANY LIMITED			
Sr. No	Particulars	FY 2019-20 (₹ Crores)	FY 2020-21 (₹ Crores)
1	O&M	22.25	24.20
2	Maintenance Spares	17.27	21.63
3	Receivables	68.07	77.27
4	Total WC requirement	107.59	123.10
5	Less: Int on SD from Trans. Users	0.00	-
6	Gross Interest on Working Capital	107.59	123.10
7	Rate of Interest on WC	12.55%	10.90%
8	Net Interest on Working Capital	13.50	13.42
<u>Notes :</u> * As per the norms of the regulations			

Form No: F9			
Income from Investments and Non-tariff Income (Rs. Crores.)			
CHHATTISGARH STATE POWER TRANSMISSION COMPANY LIMITED			
Sr. No	Particulars	FY 2019-20	FY 2020-21
A	Interest Income		
1	Interest on Bank Deposits	0.11	0.44
2	Interest on Refund from Excise Department	0.00	40.52
3	Interest on Deposits with Contractors and Suppliers	0.18	0.41
4	Interest on Loans to Employees	0.04	0.01
5	Sub-Total	0.33	41.37
B	Other Non Tariff Income		
1	Rental Income	0.56	1.08
2	Net proceeds from Sale of Scrap	2.98	0.41
3	Other Miscellaneous Income	9.04	28.39
4	Other Recoveries from Contractors/ Suppliers	0.03	0.43
5	Surplus on redemption of Mutual Fund	0.59	0.00
6	Sub-Total	13.19	30.30
C	Total	13.518901	71.67
Note: The above also includes SLDC income			

FORM-10			
Details of Expenses Capitalized (Rs. Crores.)			
CHHATTISGARH STATE POWER TRANSMISSION COMPANY LIMITED			
Sr. No	Particulars	FY 2019-20 (₹ in Crores)	FY 2020-21 (₹ in Crores)
1	Employee Expenses	13.56	9.88
2	R&M and A&G Expenses	1.29	0.93
3	Total	14.85	10.81

Form No: 11 Energy balance statement (in MU) at transmission system CHHATTISGARH STATE POWER TRANSMISSION COMPANY LIMITED			
S No	Particulars	FY 2019-20	FY 2020-21
1	State Generation Ex-Bus at 132 KV and above (MU)	17,037.41	17405.56
2	Drawal from CTU Grid at CG Periphery at 132 kV and above (Mu)	9,528.43	9651.6
3	IPPs/CPP Injection in CSPTCL System at 132 KV & above (MU)	1,199.62	1067.82
4	Total Injection at State Grid of STU (MU)	27,765.46	28124.98
5	EHV Sales from Sub Station (MU)	2,764.76	9651.6
6	Net Output to DISCOM (MU)	24,178.00	1067.82
7	Total Output from CSPTCL System (MU)	26,942.75	28124.98
8	Transmission Loss (MU)	822.71	866.88
9	Transmission Loss (%)	2.96%	3.09%

Form No:12			
Employee Cost and Provisions (Rs. Crores.)			
Sr. No	Particulars	FY 2019-20	FY 2020-21
A	Employee Strength		
1	Working Strength At the end Of The Year		
I	Employee Category		
a	Class I	132	120
b	Class II	195	191
c	Class III	779	786
d	Class IV	521	466
	Total	1,627	1,563
2	Sanctioned Strength At The End Of The Year		
I	Employee Category		
a	Class I	160	159
b	Class II	241	240
c	Class III	1,543	1543
d	Class IV	1,141	1138
	Total		3080
A	Salaries & Wages		
1	Basic Salary		
2	Addl pay		
3	Overtime		
4	Additional Wages		
5	Dearness Allow.		
6	Salary Wages Adj A/c		
7	CCA		
8	CA		
9	NSA		
10	RDA		
11	HRA		
12	Medical Allow		
13	Conveyance Allow		
14	Compen. Encashment		
15	Bilingual Allow.		
16	Kit/Dress/Wash Allw.		
17	Othr Allow-Settl Prj		
18	Field Allowance		
19	Bastar Allowance		
20	Other Allow		
21	Bonus-Ex-Gratia		
22	Aprenticship Stipend		
23	Transport Allowance		
24	Scheduled Area Alow.		
B	Staff Welfare Expenses		
1	Recreation exp		
2	Staff welfare exp		

Final True-up of ARR for FY 20 & Determination of Transmission Tariff for FY 22

3	Welfare exp.on death		
4	Training exp		
C	Other Staff Costs		
1	G.T.I.S. 100%		
2	Medical Rembrs		
3	Uniforms exp		
4	Con-Medicine		
5	Medical exp		
6	Tuition Rembrs		
7	LTC		
8	MP SK NIDHI		
9	Employees Costs PY		
D	Interim Relief (Wage Revision)	185.31	
E	Earned Leave Encashment to Retired Employees		
F	Gratuity & Pension		
1	Pension payment		
2	Gratuity payment		
3	Emp Cont pension		
G	Contribution to Provident Fund & Other Funds		
1	Emp Contr. to NCP		
2	PF Board Cont		
3	FPS/FPF Board Cont		
4	PF Inspection charge		
5	Employer Contr.- ESI		
6	Employer Contr.EDLI		
7	Employer Contr.EPS		
H	Gross Employee Expenses		
I	Capitalization		
J	Net Employee Expenses		
Employee expenses including that of SLDC			

Final True-up of ARR for FY21 and MYT Petition for 4th MYT Control Period

			Rs Crores
Form F13- A&G Expenses			
Sr. No	Particulars	FY 2019-20	FY 2020-21
a	Rent	0.39	0.00
b	Rates & Taxes	1.26	1.58
c	Insurance	0.00	0.00
d	Electricity Charges (Office & Other Consumption)	14.84	27.48
e	Service Contract including Legal & Professional Charges	2.21	3.06
f	Vehicle Running, Hiring and Maintenance	5.76	6.17
g	A & G Expenses of CSPHCL	6.77	4.65
h	Provision for Shortages in Inventory	0.46	0.09
i	Other Miscellaneous Expenses	24.69	15.11
j	Statutory Audit Fees	0.10	0.11
k	Tax Audit Fees	0.02	0.02
l	Gross A&G Expenses	56.50	58.17
m	Capitalization	1.29	(0.93)
n	Net A&G expenses	55.21	57.25
	Note		
	This includes expenses of SLDC also		

Rs Crores			
Form F14- R&M Expenses			
Sr. No	Particulars	FY 2019-20	FY 2020-21
1	Plant and Machinery	46.50	46.93
2	Building and Civil Works	5.44	8.17
3	Others	0.33	0.63
4	Gross R&M expenses	52.28	55.73
5	Capitalization		
6	Net R&M expenses	52.28	55.73
<p>Note This includes expenses of SLDC also</p>			