

**Before the Central Electricity Regulatory Commission  
NEW DELHI**

**PETITION FOR**

**APPROVAL OF TRANSMISSION TARIFF FOR FOLLOWING  
NATURAL INTER-STATE LINES**

- (i) Kotmikala- Amarkantak-1, 220 kV Line
- (ii) Kotmikala- Amarkantak-2, 220 kV Line
- (iii) Raigarh – Budhipadar, 220 kV Line
- (iv) Korba – Budhipadar, 220 kV Line
- (v) Seoni- Bhilai 400 kV Line

**PETITION NO. \_\_\_\_\_  
TARIFF BLOCK 2014-2019**

**Chhattisgarh State Power Transmission Company Limited  
(CSPTCL)**

**Registered Office -**

Sewa Bhawan,  
Dangania– 492013, Raipur (C.G.)

Tel. No. : 0771-2574831, 2574832

Fax No. : 0771-2574698



**EXECUTIVE DIRECTOR  
COMMERCIAL & PLANNING  
CSPTCL, RAIPUR**

**Before the Central Electricity Regulatory Commission  
NEW DELHI**

File No.  
Petition No.

**IN THE MATTER OF** Petition for determination of Transmission Tariff from FY 2014-15 to FY 2018-19 of the Transmission Lines belonging to the Petitioner (CSPTCL) conveying electricity as ISTS lines, for inclusion of these assets in computation of Point of Connection, Transmission Charges and Losses in accordance with the CERC (Terms & Conditions of Tariff) Regulations 2014 and (Sharing of Inter-State Transmission Charges and Losses), Regulations, 2010 namely;

- (i) Kotmikala- Amarkantak-1, 220 kV Line
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- (iv) Korba – Budhipadar, 220 kV Line
- (v) Seoni- Bhilai 400 kV Line

**Chhattisgarh State Power Transmission Company Ltd. - PETITIONER**

Registered Office – SewaBhawan,  
Dangania– 492013, Raipur (C.G.)

**Power Grid Corporation of India Limited - RESPONDENT**

‘‘Saudamini’’ Plot No. 2, Sector – 29  
Gurgaon – 122001, Haryana and others

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Dated: 25/05/2018

Place: Raipur

**Filed by:**

Chhattisgarh State Power  
Transmission Company Limited

**Represented by:**

  
**Executive Director (C&P)  
CSPTCL, Raipur**

  
**EXECUTIVE DIRECTOR  
COMMERCIAL & PLANNING  
CSPTCL, RAIPUR**

# Before the Central Electricity Regulatory Commission

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**Chhattisgarh State Power Transmission Company Ltd. - PETITIONER**

Registered Office – SewaBhawan,

Dangania– 492013, Raipur (C.G.)

**PowerGrid Corporation of India Limited**

“Saudamini” Plot No. 2, Sector – 29

Gurgaon – 122001, Haryana and others

**- RESPONDENT**

  
**EXECUTIVE DIRECTOR  
COMMERCIAL & PLANNING  
CSPTCL, RAIPUR**

To,  
**The Secretary,  
Central Electricity Regulatory Commission,  
NEW DELHI – 110 001**

Sir,  
The application under Regulation 86 of CERC (Conduct of Business) Regulations, 1999 and CERC (Terms & Conditions of Tariff) Regulations, 2014 for determination of Transmission Tariff with effect from 01.04.2014 to 31.3.2019, may please be registered.

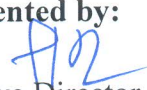
Dated: 25/05/2018


Place: Raipur

**Filed by:**

Chhattisgarh State Power  
Transmission Company Limited

**Represented by:**

  
Executive Director (C&P)  
CSPTCL, Raipur

  
**EXECUTIVE DIRECTOR  
COMMERCIAL & PLANNING  
CSPTCL, RAIPUR**

# Before the Central Electricity Regulatory Commission

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- (iv) Korba – Budhipadar, 220 kV Line
- (v) Seoni- Bhilai 400 kV Line

**Chhattisgarh State Power Transmission Company Ltd. - PETITIONER**

Registered Office – SewaBhawan,

Dangania– 492013, Raipur (C.G.)

**PowerGrid Corporation of India Limited**

**- RESPONDENT**

‘Saudamini’ Plot No. 2, Sector – 29

Gurgaon – 122001, Haryana and others

  
**EXECUTIVE DIRECTOR**  
**COMMERCIAL & PLANNING**  
**CERC, RAIPUR**

**MEMO OF PARTIES**

**Chhattisgarh State Power Transmission Company Ltd. - PETITIONER**

**Versus**

1. **PowerGrid Corporation of India Limited** - RESPONDENT  
"Saudamini" Plot No. 2, Sector – 29  
Gurgaon – 122001, Haryana and others
2. **The Executive Director (CRA)**  
MPPTCL : "Shakti Bhawan",  
Rampur, Jabalpur (M.P.) – 482008
3. **The Chief Engineer (Commercial)**  
Plot - N-1/22, IRC Village,  
Nayapalli, Bhubaneswar (Orissa) - 751015

Dated: 25/05/2018


Place: Raipur

**Filed by:**

Chhattisgarh State Power  
Transmission Company Limited

**Represented by:**

  
Executive Director (C&P)  
CSPTCL, Raipur

  
**EXECUTIVE DIRECTOR  
COMMERCIAL & PLANNING  
CSPTCL, RAIPUR**

**Before the Central Electricity Regulatory Commission  
NEW DELHI**

File No.  
Petition No.

**IN THE MATTER OF** Petition for determination of Transmission Tariff from FY 2014-15 to FY 2018-19 of the Transmission Lines belonging to the Petitioner (CSPTCL) conveying electricity as ISTS lines, for inclusion of these assets in computation of Point of Connection, Transmission Charges and Losses in accordance with the CERC (Terms & Conditions of Tariff) Regulations, 2014 and (Sharing of Inter-State Transmission Charges and Losses), Regulations, 2010 namely;

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- (iv) Korba – Budhipadar, 220 kV Line
- (v) Seoni- Bhilai 400 kV Line

**Chhattisgarh State Power Transmission Company Ltd.,**

**- PETITIONER**

Registered Office – Sewa Bhawan,  
Dagania– 492013, Raipur (C.G.)

**Power Grid Corporation of India Limited**

**- RESPONDENT**

“Saudamini” Plot No. 2, Sector – 29

Gurgaon – 122001, Haryana and others

I K.S. Manothiya son of Lt. Shri D.S. Manothiya, aged about 51 years, resident of Danganiya, Raipur working as Executive Director (C&P), Chhattisgarh State Power Transmission Company Ltd, having its registered office at SewaBhawan, Danganiya– 492013, Raipur (C.G.), do hereby solemnly affirm and state as under :

1. I am the Executive Director, (C&P), Chhattisgarh State Power Transmission Company Ltd, the representative of the Petitioner in the above matter, and am duly authorized to make this affidavit.

2. I submit that the enclosed Petition is being filed for determination of Transmission Tariff for the Inter-State Lines belonging to the Petitioner, for inclusion of these Assets in computation of Point of Connection, Transmission Charges and Losses under CERC (Sharing of Inter-State Transmission Charges and Losses), Regulations, 2010.

3. The statement made in the Petition herein are based on Petitioner Company’s official records maintained in the ordinary course of business and I believe them to be true and correct.

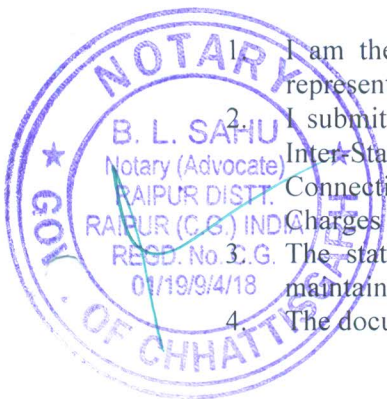
4. The documents attached with the Petition are legible copies and duly attested by me.

**DEPONENT**

**VERIFICATION:**

Solemnly affirmed at Raipur on this day of 22<sup>nd</sup> of May 2018 that the contents of the above affidavit are true to my knowledge and belief and no part of it is false and no other material has been concealed there from.

**DEPONENT**



2 MAY 2018

AKASH Tiwari  
DSU Nagar MIC-527  
Sector - 1 Raipur.

**Identifying Witness**

SOLEMNLY AFFIRMED OR SWORN  
BEFORE ME BY THE WITHIN NAMED  
मेरे समक्ष इस दस्तावेज पर संबंधित व्यक्ति  
से पढ़कर/पढ़वाकर शपथ पूर्वक कथन कहा  
और इस दस्तावेज पर हस्ताक्षर/अंगुलि किया।

BHARAT LAL SAHU  
Notary(Advocate)/नोटरी  
Raipur District  
RAIPUR (C.G.)/रायपुर (छ.ग.)

Date... 22 MAY 2018

**CHHATTISGARH STATE POWER TRANSMISSION COMPANY LIMITED**

**A STATE TRANSMISSION UTILITY**

**(A CG Government Undertaking) (A Successor Company of CSEB)**

**State Load-Despatch Building, Dagania-492013, Raipur (C.G.)**

No. 02-12/C&P/CERC/ 309

Raipur, Dtd. 25 MAY 2018

**AUTHORIZATION**

Shri K.S. Manothiya Executive Director (C&P), CSPTCL, Raipur is hereby authorized to submit the Petition and appear before the Hon'ble CERC for hearing in the matter of "Approval under Regulation 86 of CERC (Conduct of Business) Regulations 1999 and CERC (Terms & Conditions of Tariff) Regulations, 2014 for determination of Transmission Tariff for the Inter-State Lines belonging to the Petitioner, for inclusion of these Assets in computation of Point of Connection, Transmission Charges and Losses under CERC (Sharing of Inter-State Transmission Charges and Losses), Regulations, 2010" on behalf of Chhattisgarh State Power Transmission Company Limited, Raipur.

*Asha*  
24.5.18.  
**Managing Director**  
**CSPTCL, Raipur**



**Before the Central Electricity Regulatory Commission  
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**IN THE MATTER OF** Petition for determination of Transmission Tariff from FY 2014-15 to FY 2018-19 of the Transmission Lines belonging to the Petitioner (CSPTCL) conveying electricity as ISTS lines, for inclusion of these assets in computation of Point of Connection, Transmission Charges and Losses in accordance with the CERC (Terms & Conditions of Tariff) Regulations, 2014 and (Sharing of Inter-State Transmission Charges and Losses), Regulations, 2010 namely;

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- (iv) Korba – Budhipadar, 220 kV Line
- (v) Seoni- Bhilai 400 kV Line

**Chhattisgarh State Power Transmission Company Ltd.,**

**- PETITIONER**

Registered Office – Sew Bhawan,

Dangania– 492013, Raipur (C.G.),

**Power Grid Corporation of India Limited**

**- RESPONDENT**

“Saudamini” Plot No. 2, Sector – 29

Gurgaon – 122001, Haryana and others

The Petitioner most respectfully begs to submit as under;

1. The Petitioner is a Company registered under Companies Act 1956 on dated. 02.06.2005, with its head quarter at Raipur, for the purpose of undertaking the transmission activities in the State of Chhattisgarh. The Company has been declared as State Transmission Utility by the Government of Chhattisgarh vide NotificationNo. F-21/13/2009/13/2, Raipur dated. 31.03.2010. The Petitioner is a STU and a deemed Transmission Licensee under Section 14 of the Electricity Act, 2003.

2. The Petitioner, as a part of its Transmission System, is Operating & Maintaining the following deemed ISTS lines, which were commissioned in part on various dates;

- (i) Kotmikala- Amarkantak-1, 220 KV Line.
- (ii) Kotmikala- Amarkantak-2, 220 KV Line.
- (iii) Raigarh – Budhipadar, 220 KV Line.
- (iv) Korba – Budhipadar, 220 KV Line.
- (v) Seoni- Bhilai 400 kV Line

  
**EXECUTIVE DIRECTOR  
COMMERCIAL & PLANNING  
CSPTCL, RAIPUR**

The portion of the line falling in a particular state is owned by the state licensee i.e. only the portion of line falling in the state of Chhattisgarh is owned by CSPTCL.

3. Hon'ble Commission has notified the CERC (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2010 which provide for Point of Connection charges. The Aggregate Revenue Requirement of all the Transmission Service Providers in Inter-State Transmission System is allocated to beneficiaries as per the methodology approved in the above mentioned Sharing Regulations. Certain transmission lines, owned by the State Utilities, are also contributing to the Inter-State Transmission of power. Therefore, these State Utilities have approached the 'Implementing Agency' of POC methodology for including their Transmission Assets in computation of Point of Connection, Transmission Charges and Losses under the CERC (Sharing of Inter-State Transmission Charges and Losses), Regulations, 2010.

- (a) Hon'ble Commission taking cognizance of above issue, registered a Suo-Motu Petition No. 15/2012. Disposing this petition vide its order dated 14.03.2012, Hon'ble Commission proposed to include the Transmission lines connecting two States for computation of Point of Connection Transmission Charges and Losses. The lines are listed in Annexure to the order dated 14.03.2012. The lines mentioned in Para 2 of this Petition are included at S.No. 06 to 07 of 'Inter Regional Lines' and S.No. 2& 3 of lines under 'Western Region'. Further, WRPC vide its certification letter dated 07.06.2016 enclosed as **Annexure -I** to the petition has approved that the Seoni-Bhilai line be treated as deemed ISTS lines.
- (b) Hon'ble CERC vide its order dated 16.02.2016 under Petition No. 245/TT/2013 has approved the Annual Transmission Charges from 01.07.2011 to 31.03.2014 (as per applicability of Sharing Regulations, 2010) for the control period FY 2009-14 for the transmission lines mentioned at S. No. (i) to (iv) of Para 2 of this petition.
- (c) Line under para 2(v) i.e. 400 kV Seoni-Bhilai line are included in the instant petition being considered as natural ISTS line as mentioned above

4. The Petitioner has been filing the Transmission Tariff Petitions for Intra-State Transmission System before the State Electricity Regulatory Commission for the whole Transmission Network. The transmission lines mentioned in Para-2 of this Petition are old and commissioned in parts in certain cases. The circuit length of line for formulation of this petition has been considered on proportionate basis as per information collected from old records. Details of the said lines are mentioned in **Annexure II** of the petition. Further, certification pertaining to the said lines as inter-state lines is enclosed as **Annexure III** to the petition. The single line diagram of the above mentioned ISTS lines is given in **Annexure-IV** of this petition.

5. Hon'ble Commission has notified the CERC (Terms & Conditions of Tariff) Regulations, 2014 on 21<sup>st</sup> January 2014, which are applicable for control period from 2014-15 to 2018-19 (Five Years). The CERC Sharing of Inter-State Transmission Charges and Losses Regulations, 2010 came into force from 01.07.2011. Therefore, it is submitted that PoC

transmission tariff for deemed ISTS lines of CSPTCL, are also to be determined under these Regulations. The Petitioner has confined the Tariff Petition to the control period only i.e. from FY 2014-15 to FY 2018-19.

6. Transmission lines mentioned in Para-2 of this Petition have been constructed under various estimates, may not exactly be named as in Para-2; in some case one portion is constructed under certain estimates at a particular time, whereas the other portion is added under another estimate at a later date. Further, the line length up to the border of the State is considered for claim of tariff by the Petitioner, and the portion under ownership of other State is to be dealt by that State. **The Transmission Lines mentioned in Para 2 are considered in the following manner:-**

(i) **220 kV Kotmikala- Amarkantak-1 Line-**

220 kV Korba- Amarkantak DCSS line was completed in March 1975. On bifurcation of State into Madhya Pradesh and Chhattisgarh, length of line from Amarkantak upto MP Border came under ownership of MPSEB (Now under MPPTCL) and the length of line from Korba up to CG Border came under the ownership of CSEB (Now under CSPTCL). 220 kV Korba-Amarkantak line was made LILO at 220 kV Substation Kotmikala in year 2007. Therefore, the line from Kotmikala up to CG border has been taken in two parts. In first part, line section from Kotmikala to LILO point (D1E1) and in second part, line section from LILO point up to CG border (E1F1) which is shown clearly in single line diagram at **Annexure-IV**, for calculation of transmission charges.

(ii) **220 kV Kotmikala- Amarkantak-2 Line-**

Second circuiting of 220 kV Korba-Amarkantakline was done in July 1979. On bifurcation of the State, the length of line from Korba up to CG Border came under ownership of CSEB (Now under CSPTCL). 220 kV Korba-Amarkantak-2line was made LILO at 220 kV Substation Kotmikala in year 2007. Therefore, the line from Kotmikala up to CG border has been taken in two parts. In first part line section from Kotmikala to LILO point (D2E2) and in second part, line section from LILO point up to CG Border (E2F2) which is shown clearly in single line diagram at **Annexure-IV** for calculation of transmission charges.

NOTE: 220 kV DCDS Korba-Amarkantak line was made LILO at 220 kV Substation Kotmikala in year 2007 by constructing two numbers 220 KV feeder bay at newly constructed 220 KV Kotmikala substation.

(iii) **220 kV Raigarh – Budhipadar Line**

220 kV Korba – Budhipadar circuit-I was completed in year 1985 including the LILO portion of line for Raigarh S/S. At that time Raigarh S/S was proposed to be constructed in future however, LILO line for Raigarh S/S was constructed alongwith the Korba - Budhipadar main line. The line section from Raigarh up to CG-Orissa Border is now under ownership of CSPTCL.

  
**EXECUTIVE DIRECTOR  
COMMERCIAL & PLANNING  
CSPTCL, RAIPUR**

**(iv) 220 kV Korba – Budhipadar Line**

220 kV Korba – Budhipadar line (ckt-II) was completed in year 1988. Line section from Korba upto CG-Orissa Border is under ownership of CSPTCL.

**(v) 400 kV Seoni- Bhilai Line**

400 kV Sarni (MP) – Bhilai (Chhattisgarh) was commissioned on 25.09.1985 and in the year 2007 LILO work at Seoni was carried out by PGCIL breaking it into Seoni-Sarni and Seoni-Bhilai segments. As the LILO part was constructed by PGCIL therefore it has not been considered. However, because of this LILO, the main line 400 kV Sarni (MP) – Bhilai (Chhattisgarh) has been broken into 400 kV Seoni (MP) – Sarni (MP) and 400 kV Seoni (MP) – Bhilai (Chhattisgarh) segment. The portion of the line falling in the state of Chhattisgarh only has been considered here.

**7. TRANSMISSION TARIFF –**

Regarding the above mentioned five lines included in this petition, it is submitted that for determination of Point of Connection Charges, the tariff is worked out by first calculating the yearly transmission charges separately for the mentioned lines based on the methodology adopted by Hon'ble CERC while determining the PoC charges vide its order dated 16.02.2016 on Petition No. 245/TT/2013, and subsequently summing up all these charges for particular years. The component-wise details are given in succeeding paras.

**8. Calculation of Yearly Transmission Charges (YTC) –**

The Hon'ble Commission while disposing the Petition No. 245/TT/2013 has adopted a certain procedure for calculating Yearly Transmission Charges (YTC) for the Transmission Lines of the Petitioner, whereby the YTC is based on Tariff of the lines (owned by the Petitioner) as determined by the CSERC, and considered the ARR of CSPTCL as approved by CSERC and adopted its methodology for the purpose of calculation of PoC Charges and apportioned it for the ISTS Transmission Lines of different configuration of the Petitioner.

In line with the procedure prescribed by Hon'ble CERC and the process adopted by the Hon'ble CERC in their order dated 16.02.2016 under Petition No.245/TT/2013; Yearly Transmission Charges (YTC) for the five lines is calculated as hereunder:

- a) The indicative cost of various configurations of EHV lines from FY 2014-15 to FY 2016-17 is available at the POSOCO website. The indicative cost of EHV lines for FY 2017-18 and FY 2018-19 is not available on POSOCO website. Therefore, indicative cost for the same is taken as that for FY 2016-17 for remaining period i.e. FY 2017-18 and FY 2018-19. The indicative cost for various configuration of EHV lines is average of indicative cost of four quarters of that particular financial year and the same is indicated below for each year.

b) Quarterly indicative cost as depicted on POSOCO website is as below:

**FY 2014-15**

Configuration	Q1	Q2	Q3	Q4	Average
500 kV HVDC	154.00	158.00	158.00	162.00	158.00
800 kV HVDC	282.00	346.00	158.00	354.00	285.00
765 kV D/C	368.00	450.00	449.00	460.00	431.75
765 kV S/C	189.00	180.00	179.00	182.00	182.50
400 kV D/C TM	131.00	135.00	135.00	138.00	134.75
<b>400 kV D/C QM</b>	235.00	240.00	244.00	250.00	242.25
400 kV S/C TM	86.00	88.00	88.00	90.00	88.00
220 kV D/C	70.00	56.00	56.00	57.00	59.75
220 kV S/C	43.00	35.00	35.00	36.00	37.25
132 kV D/C	55.00	44.00	44.00	45.00	47.00
132 kV S/C	34.00	28.00	28.00	29.00	29.75

**FY 2015-16**

Configuration	Q1	Q2	Q3	Q4	Average
500 kV HVDC	160.00	160.00	154.00	127.00	150.25
800 kV HVDC	353.00	353.00	327.00	266.00	324.75
765 kV D/C	447.00	447.00	412.00	334.00	410.00
765 kV S/C	175.00	175.00	165.00	133.00	162.00
400 kV D/C TM	132.00	132.00	127.00	104.00	123.75
<b>400 kV D/C QM</b>	239.00	239.00	227.00	180.00	221.25
400 kV S/C TM	89.00	89.00	86.00	71.00	83.75
220 kV D/C	55.00	55.00	52.00	42.00	51.00
220 kV S/C	37.00	37.00	34.00	23.00	32.75
132 kV D/C	46.00	46.00	41.00	27.00	40.00
132 kV S/C	30.00	30.00	27.00	18.00	26.25

  
**EXECUTIVE DIRECTOR**  
**COMMERCIAL & PLANNING**  
**CSPTCL, RAIPUR**

**FY 2016-17**

<b>Configuration</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Average</b>
500 kV HVDC	127.00	127.00	137.00	131.00	130.50
800 kV HVDC	265.00	265.00	286.00	280.00	274.00
765 kV D/C	332.00	332.00	355.00	347.00	341.50
765 kV S/C	133.00	133.00	145.00	142.00	138.25
400 kV D/C TM	104.00	104.00	111.00	105.00	106.00
<b>400 kV D/C QM</b>	180.00	180.00	192.00	181.00	183.25
400 kV S/C TM	71.00	71.00	77.00	74.00	73.25
220 kV D/C	41.00	41.00	44.00	43.00	42.25
220 kV S/C	23.00	23.00	26.00	26.00	24.50
132 kV D/C	27.00	27.00	31.00	31.00	29.00
132 kV S/C	18.00	18.00	21.00	22.00	19.75

**FY 2017-18**

<b>Configuration</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Average</b>
500 kV HVDC	127.00	127.00	137.00	131.00	130.50
800 kV HVDC	265.00	265.00	286.00	280.00	274.00
765 kV D/C	332.00	332.00	355.00	347.00	341.50
765 kV S/C	133.00	133.00	145.00	142.00	138.25
400 kV D/C TM	104.00	104.00	111.00	105.00	106.00
<b>400 kV D/C QM</b>	180.00	180.00	192.00	181.00	183.25
400 kV S/C TM	71.00	71.00	77.00	74.00	73.25
220 kV D/C	41.00	41.00	44.00	43.00	42.25
220 kV S/C	23.00	23.00	26.00	26.00	24.50
132 kV D/C	27.00	27.00	31.00	31.00	29.00
132 kV S/C	18.00	18.00	21.00	22.00	19.75

**FY 2018-19**

<b>Configuration</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Average</b>
500 kV HVDC	127.00	127.00	137.00	131.00	130.50
800 kV HVDC	265.00	265.00	286.00	280.00	274.00
765 kV D/C	332.00	332.00	355.00	347.00	341.50
765 kV S/C	133.00	133.00	145.00	142.00	138.25
400 kV D/C TM	104.00	104.00	111.00	105.00	106.00
<b>400 kV D/C QM</b>	180.00	180.00	192.00	181.00	183.25
400 kV S/C TM	71.00	71.00	77.00	74.00	73.25
220 kV D/C	41.00	41.00	44.00	43.00	42.25
220 kV S/C	23.00	23.00	26.00	26.00	24.50
132 kV D/C	27.00	27.00	31.00	31.00	29.00
132 kV S/C	18.00	18.00	21.00	22.00	19.75

  
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e) Calculation of voltage-wise yearly coefficient:

FY 2014-15

Configuration	Cost (In Lacs)	Cost (In Lacs/Ckt. Km.)	Coefficient	
			a= D/A	
765 kV D/C	431.75	215.88	a= D/A	0.56
765 kV S/C	182.50	182.50	b=D/B	0.66
400 kV D/C TM	134.75	67.38	c= D/C	1.80
<b>400 kV D/C QM</b>	242.25	121.13	d=D/D	1.00
400 kV S/C TM	88.00	88.00	e=D/E	1.38
220 kV D/C	59.75	29.88	f=D/F	4.05
220 kV S/C	37.25	37.25	g=D/G	3.25
132 kV D/C	47.00	23.50	h=D/H	5.15
132 kV S/C	29.75	29.75	i=D/I	4.07

FY 2015-16

Configuration	Cost (In Lacs)	Cost (In Lacs/Ckt. Km.)	Coefficient	
			a= D/A	
765 kV D/C	410.00	205.00	a= D/A	0.54
765 kV S/C	162.00	162.00	b=D/B	0.68
400 kV D/C TM	123.75	61.88	c= D/C	1.79
<b>400 kV D/C QM</b>	221.25	110.63	d=D/D	1.00
400 kV S/C TM	83.75	83.75	e=D/E	1.32
220 kV D/C	51.00	25.50	f=D/F	4.34
220 kV S/C	32.75	32.75	g=D/G	3.38
132 kV D/C	40.00	20.00	h=D/H	5.53
132 kV S/C	26.25	26.25	i=D/I	4.21

FY 2016-17

Configuration	Cost (In Lacs)	Cost (In Lacs/Ckt. Km.)	Coefficient	
			a= D/A	
765 kV D/C	341.50	170.75	a= D/A	0.54
765 kV S/C	138.25	138.25	b=D/B	0.66
400 kV D/C TM	106.00	53.00	c= D/C	1.73
<b>400 kV D/C QM</b>	183.25	91.63	d=D/D	1.00
400 kV S/C TM	73.25	73.25	e=D/E	1.25
220 kV D/C	42.25	21.13	f=D/F	4.34
220 kV S/C	24.50	24.50	g=D/G	3.74
132 kV D/C	29.00	14.50	h=D/H	6.32
132 kV S/C	19.75	19.75	i=D/I	4.64

  
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**FY 2017-18**

Configuration	Cost (In Lacs)	Cost (In Lacs/Ckt. Km.)	Coefficient	
765 kV D/C	341.50	170.75	a= D/A	0.54
765 kV S/C	138.25	138.25	b=D/B	0.66
400 kV D/C TM	106.00	53.00	c= D/C	1.73
<b>400 kV D/C QM</b>	183.25	91.63	d=D/D	1.00
400 kV S/C TM	73.25	73.25	e=D/E	1.25
220 kV D/C	42.25	21.13	f=D/F	4.34
220 kV S/C	24.50	24.50	g=D/G	3.74
132 kV D/C	29.00	14.50	h=D/H	6.32
132 kV S/C	19.75	19.75	i=D/I	4.64

**FY 2018-19**

Configuration	Cost (In Lacs)	Cost (In Lacs/Ckt. Km.)	Coefficient	
765 kV D/C	341.50	170.75	a= D/A	0.54
765 kV S/C	138.25	138.25	b=D/B	0.66
400 kV D/C TM	106.00	53.00	c= D/C	1.73
<b>400 kV D/C QM</b>	183.25	91.63	d=D/D	1.00
400 kV S/C TM	73.25	73.25	e=D/E	1.25
220 kV D/C	42.25	21.13	f=D/F	4.34
220 kV S/C	24.50	24.50	g=D/G	3.74
132 kV D/C	29.00	14.50	h=D/H	6.32
132 kV S/C	19.75	19.75	i=D/I	4.64

- d) Details of voltage-wise ckt. km. length of lines of CSPTCL in FY 2014-15, FY 2015-16 and FY 2016-17 to FY 2018-19 is as below:

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
400 kV D/C TM	708.52	997.46	1085.92	1085.92	1085.92
<b>400 kV D/C QM</b>	552.60	552.60	552.60	552.60	552.60
400 kV S/C TM	277.00	277.00	277.00	277.00	277.00
220 kV D/C	3010.02	3072.35	3072.35	3099.41	3099.41
220 kV S/C	303.39	358.62	405.64	418.064	418.064
132 kV D/C	3159.27	3207.84	3217.31	3337.368	3337.368
132 kV S/C	2316.48	2480.51	2535.50	2739.90	2739.90

No network addition during FY 2018-19 has been considered as of now. Its effect would be considered during the true-up exercise for determination of tariff of inter-state lines for the respective year.

  
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- e) Hon'ble CSERC has approved transmission charges of CSPTCL for FY 2014-15, FY 2015-16 and FY 2016-17 to FY 2018-19 as shown below:

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
ARR (Approved) In Rs. Crores	699.96	742.63	823.49	916.8	993.46

For FY 2014-15 and FY 2015-16, ARR as approved in the true-up orders dated 30.04.2016 and 31.03.2017 respectively have been considered. For FY 2016-17 to FY 2018-19, ARR as approved in the MYT order dated 30.04.2016 has been considered. Here, it is respectfully submitted that the charges for FY 2016-17 to FY 2018-19 are subject to subsequent true-ups too.

Relevant pages of the tariff orders issued by the Hon'ble CSERC is annexed as **Annexure V(i) & (ii)** along with the petition.

- f) Calculation of Yearly Transmission Charges (YTC)

Formula used for calculation of YTC:

**YTC per ckt. km. 400 kV D/C Quad Moose=**

ARR for FY ..... (inRs)

{(Length of 765 kV DC/a) + (Length of 765 kV SC/b) + (Length of 400 kV DC TM/c) + (Length of 400 kV DC QM/d) + (Length of 400 kV SC TM/e) + (Length of 220 kV DC/f) + (Length of 220 kV SC/g) + (Length of 132 kV DC/h) + (Length of 132 kV SC/i)}

The YTC per ckt. km. of transmission lines has been calculated from the above formula given in Hon'ble CERC order dated 16.02.2016. It is also submitted that the inter-state lines in the instant petition are 400 kV S/C, 220 kV D/C and 220 kV S/C line configuration only, therefore, the calculations have been confined to these configurations.

YTC per ckt. km. (in Rs.) of the same has been calculated from FY 2014-15 to FY 2018-19 and is tabulated below:

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
400 kV S/C	1606459.76	1702077.76	2010388.68	2189629.58	2372719.68
220 kV D/C	545374.83	518244.57	579787.86	631480.20	684282.64
220 kV S/C	680007.11	665588.62	672416.69	732367.57	793605.90

  
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g) Length of the inter-state lines mentioned in para 2 of the petition are as below.

S. No.	Name of the Line	Part of line used as inter-state transmission line (inckt. km.)
1	220 kV Kotmikala- Amarkantak-1 Line	23.317
2	220 kV Kotmikala- Amarkantak-2 Line	23.616
3	220 kV Raigarh – Budhipadar Line	21.00
4	220 kV Korba – Budhipadar Line	123.00
5	400 kV Seoni- Bhilai Line	76.78

9. The YTC per ckt. km. of a particular configuration has been calculated and is as shown above in para 8(f). In addition, length of the concerned five inter-state lines has been indicated in para 8(g) above. Based on these two parameters, the yearly charges for each line are calculated as below.

**FY 2014-15**

S. No.	Name of Line	Type	Length	YTC/ckt. km.	YTC (in Rs.)
1	220 kV Kotmikala- Amarkantak-1	S/C	23.317	680007.11	15855725.85
2	220 kV Kotmikala- Amarkantak-2	S/C	23.616	680007.11	16059047.97
3	220 kV Raigarh – Budhipadar	D/C	21.00	545374.83	11452871.47
4	220 kV Korba – Budhipadar	D/C	123.00	545374.83	67081104.33
5	400 kV Seoni- Bhilai	S/C	76.78	1606459.76	123343980.07
	<b>TOTAL (in Rs.)</b>				<b>233792729.69</b>

**FY 2015-16**

S. No.	Name of Line	Type	Length	YTC/ckt. km.	YTC
1	220 kV Kotmikala- Amarkantak-1	S/C	23.317	665588.62	15519529.75
2	220 kV Kotmikala- Amarkantak-2	S/C	23.616	665588.62	15718540.75
3	220 kV Raigarh – Budhipadar	D/C	21.00	518244.57	10883135.99
4	220 kV Korba – Budhipadar	D/C	123.00	518244.57	63744082.23
5	400 kV Seoni- Bhilai	S/C	76.78	1702077.76	130685530.23
	<b>TOTAL</b>				<b>236550818.95</b>

**FY 2016-17**

S. No.	Name of Line	Type	Length	YTC/ckt. km.	YTC
1	220 kV Kotmikala- Amarkantak-1	S/C	23.317	672416.69	15678739.98
2	220 kV Kotmikala- Amarkantak-2	S/C	23.616	672416.69	15879792.57
3	220 kV Raigarh – Budhipadar	D/C	21.00	579787.86	12175545.08
4	220 kV Korba – Budhipadar	D/C	123.00	579787.86	71313906.90
5	400 kV Seoni- Bhilai	S/C	76.78	2010388.68	154357642.68
	<b>TOTAL</b>				<b>269405627.22</b>

  
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## FY 2017-18

S. No.	Name of Line	Type	Length	YTC/ckt. km.	YTC
1	220 kV Kotmikala- Amarkantak-1	S/C	23.317	732367.57	17076614.73
2	220 kV Kotmikala- Amarkantak-2	S/C	23.616	732367.57	17295592.63
3	220 kV Raigarh – Budhipadar	D/C	21.00	631480.20	13261084.29
4	220 kV Korba – Budhipadar	D/C	123.00	631480.20	77672065.12
5	400 kV Seoni- Bhilai	S/C	76.78	2189629.58	168119759.45
	<b>TOTAL</b>				<b>293425116.22</b>

## FY 2018-19

S. No.	Name of Line	Type	Length	YTC/ckt. km.	YTC
1	220 kV Kotmikala- Amarkantak-1	S/C	23.317	793605.90	18504508.80
2	220 kV Kotmikala- Amarkantak-2	S/C	23.616	793605.90	18741796.96
3	220 kV Raigarh – Budhipadar	D/C	21.00	684282.64	14369935.42
4	220 kV Korba – Budhipadar	D/C	123.00	684282.64	84166764.63
5	400 kV Seoni- Bhilai	S/C	76.78	2372719.68	182177417.35
	<b>TOTAL</b>				<b>317960423.16</b>

### **10. POINT OF CONNECTION CHARGES -**

On approval of the Yearly Transmission Charges of lines as submitted in para 9 of this petition, the same will be intimated to the 'Implementing Agency' to incorporate the same in 'Point of Connection Charges' as per the methodology prescribed in the CERC (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2010.

Once these transmission charges are approved, the Petitioner will approach the Hon'ble Chhattisgarh State Electricity Regulatory Commission (CSERC), for set-off the amount in Intra-State transmission charges.

### **11. RELAXATION IN TARIFF FILING FORMATS-**

This petition has been framed on the basis of methodology as adopted by the Hon'ble CERC in its order dated 16.02.2016 on petition no. 245/TT/2013 and similar other petitions pertaining to various states.

It is also submitted that the Hon'ble Commission has prescribed the Tariff Filing Formats in Part-III of Appendix-I of the CERC (Terms & Conditions of Tariff) Regulations, 2014. These have been filled up and enclosed with the Petition. However, as mentioned earlier, certain lines are quite old and the liabilities against them have been allocated to the Petitioner through Opening Balance Sheet. Therefore, certain information is not available in the manner asked in the Formats. The Petitioner has therefore modified the information to the extent available. The exact deviation is given in following table. It is prayed that the Hon'ble Commission may consider to accept the Formats in that manner.

  
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S.No.	Form No.	Heading	Deviations if any
1	1	Summary Sheet	Not Applicable as approach followed in the present petition is different
2	2	Details of Transmission Lines and Substations, Communication System	No Deviation
3	3	Normative Parameters considered for Tariff Computations	Not Applicable as approach followed in present petition is different
4	4	Abstract of admitted parameters for the existing transmission assets/elements under project	Not Applicable, very old lines
5	4A	Statement of Capital Cost	Not Applicable, being old lines
6	4B	Statement of Capital Works in Progress	Not Applicable being old lines
7	4C	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New Project/Elements	Not Applicable, since old lines already commissioned long before
8	5	Element wise Break-up of Project/Asset/Element Cost for Transmission System or Communication System	Not Applicable as very old lines thus not possible
9	5A	Break-up of Construction/Supply/Service packages	Not Applicable being old lines
10	5B	Details of element-wise cost of the Project	Not Applicable as very old lines
11	6	Financial Package upto COD	Not Applicable
12	7	Statement of Additional Capitalization after COD	Not Applicable
13	7A	Financing of Additional Capitalization	Not Applicable
14	7B	Statement of Additional Capitalization during fag end* of the Project	Not Applicable
15	8	Calculation of Return on Equity	Not Applicable as approach followed in present petition is different
16	8A	Details of Foreign Equity	Not Applicable since no Foreign Loan
17	8B	Details of additional RoE	Not Applicable being old lines
18	9	Details of Allocation of corporate loans to various transmission elements	Not Applicable
19	9A	Details of Project Specific Loans	No Deviation
20	9B	Details of Foreign Loans	Not Applicable, since no foreign loan
21	9C	Calculation of Weighted Average Rate of Interest on Actual Loans	Not Applicable
22	9D	Loans in Foreign Currency	Not Applicable, since no foreign loan
23	9E	Calculation of Interest on Normative Loan	Not Applicable as approach followed in present petition is different
24	10	Calculation of Depreciation Rate	Not Applicable as approach followed in present petition is different
25	10A	Statement of Depreciation	Not Applicable
26	10B	Statement of De-capitalization	Not Applicable
27	11	Calculation of Interest on Working Capital	Not Applicable as approach followed in present petition is different
28	12	Details of time over run	Not Applicable
29	12A	Incidental Expenditure during Construction	Not Applicable
30	12B	Draw Down Schedule for Calculation of	Not Applicable, being old lines

  
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**CSPTCL, RAIPUR**

		IDC & Financing Charges	
31	13	Breakup of Initial spares	Not Applicable
32	14	Other Income as on COD	Not Applicable
33	15	Actual cash expenditure	Not Applicable being old lines

## 12. PRAYER-

In view of the submission made in foregoing Paras, the Petitioner respectfully prays that the Hon'ble Commission may:

- (1) Approve the Yearly Transmission Charges (YTC) as shown in para 9 for the Assets covered under this Petition
- (2) Allow the Petitioner to recover the Yearly Transmission Charges (YTC) for the control period FY 2014-15 to FY 2018-19 from the beneficiaries through the billing agency M/S PGCIL as per the procedure mentioned in the CERC (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2010
- (3) Approve the reimbursement of expenditure by beneficiaries towards petition fee, and other expenses in relation to filing of Petition
- (4) Condone any inadvertent omission/ errors/ short comings and permit the Petitioner to add/ modify/ alter this filing and make further submission as may be required at a later stage.
- (5) Pass such orders, as Hon'ble Commission may deem fit and proper & necessary in the facts and circumstances of the case to grant relief to Applicant.

Dated:25/05/2018

Place: Raipur

**Filed by:**

Chhattisgarh State Power Transmission Company Limited

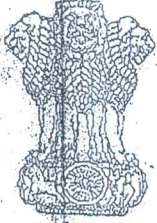
**Represented by:**



Executive Director (Commercial & Planning)  
CSPTCL, Raipur



**EXECUTIVE DIRECTOR  
COMMERCIAL & PLANNING  
CSPTCL, RAIPUR**



सत्यमेव जयते

भारत सरकार  
Government of India  
केन्द्रीय विद्युत प्राधिकरण  
Central Electricity Authority  
पश्चिम क्षेत्रीय विद्युत समिति

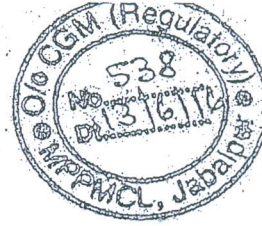
Western Regional Power Committee

एफ-3, एमआयडीसी क्षेत्र, अंधेरी (पूर्व), मुंबई - 400 093

F-3, MIDC Area, Andheri (East), Mumbai - 400 093

दूरभाष Phone: 022-28221681, 2820 0194, 95, 96

Website: www.wrpc.gov.in



आई एस / आई एस ओ :  
9001-2008  
IS/ISO: 9001-  
2008

फैक्स Fax: 022-2837 0193  
E-mail: comml-wrpc@nic.in

No. WRPC/Comml-I/corr / 2016 / 1041 - 11

Date: 07.06.2016

To,

Executive Director  
NLDC  
New Delhi

Sub : Certification of 400kv Seoni-Sarni and Seoni-Bhilai Lines- Reg.

महोदय /Sir,

MPPMCL vide letter No. CGM(Regulatory)/494 dated 20.10.2015 requested WRPC to decide the certification of 400 kV Seoni-Sarni and 400 kV Seoni - Bhilai (part of line in MP Jurisdiction) as Inter-State lines by RPC and payment thereof through PoC mechanism.

Accordingly, WRLDC was requested to carry out the studies on Webnet s/w on PoC case of Oct-15 to Dec-15 quarter in line with the procedure mentioned in 3<sup>rd</sup> Amendment of Principal regulation of Sharing of Transmission Charges and Losses Regulations 2010.

WRLDC vide letter dated 11.02.2016 intimated that as per studies carried out on WebNet software for 400kV Seoni(MP) - 400 kV Sarni(MP) to check the usage of the line by home state and other than home state, the results show that out of total tariff of the circuit, 49% of the tariff usage is by home state Madhya Pradesh where as 51% of the tariff of the said line is being used by other states.

In the 31<sup>st</sup> WRPC meeting, the 400kV Seoni (MP) - Sarni (MP) was recommended to be considered as deemed ISTS line for the purpose of PoC computation based on the above results. The 400kV Seoni (MP) - Bhilai (Chattisgarh) is Natural ISTS and so approved under PoC without certification of WRPC.

It is therefore requested to include the above lines in the PoC computation.

भवदीय /yours faithfully,

(Satyanarayan S.)

Suprintending Engineer (Comml.)

Copy to :

- CGM(Regulatory), MPPMCL, Shakti Bhawan, Rampur, Jabalpur, MP-482008, Fax - 0761-2664749

EXECUTIVE DIRECTOR  
COMMERCIAL & PLANNING  
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**Annexure-II**

**Details of Inter-State Lines**

Sl. No.	Name of Line	Voltage (In KV)	Length under consideration in ckt. KM	Name of work and estimate no.	Total length of line (In ckt Km)	Part of line used as inter-state line (In ckt Km)	Cost of Transmission line (Book value/ Estimated value)	Cost of 220 KV Feeder Bay (Book value/ Estimated value)	Date of completion	Type of Tower	Conductor	Earth wire	Disc Insulator
1	220 KV Kotmikala-Amarkantak line-1	220 KV	23.317	220 KV Korba- Amarkantak (now Kotmikala - Amarkantak) DCSS line upto CG Border Estt.No. 01-025-056-68-0010 Dt. 19.11.68	23.317	23.317	54.94 Lacs	Amarkantak -I bay at Kotmikala Rs. 90 Lacs	March 1975	A series 220 KV Tower	ACSR Zebra conductor	7/8 SWG	70 KN & 160 KN
2	220 KV Kotmikala-Amarkantak Line-2	220 KV	23.616	2 <sup>nd</sup> ckt of 220 KV Korba- Amarkantak (now Kotmikala - Amarkantak) DCSS line upto CG Border Estt.No. 01-025-056-76-0145 Dt. 04.07.76	23.616	23.616	58.04 Lacs	Amarkantak -II bay at Kotmikala Rs. 90 Lacs	July 1979	A series 220 KV Tower	ACSR Zebra conductor	7/8 SWG	70 KN & 160 KN
3	220 KV Raigarh - Budhipadar line	220 KV	21	220 KV Raigarh- Budhipadar DCDS line upto CG Border Estt.No. 01-35-888-84-1071 dtd. 18.06.84	21	21	120.75 Lacs	Budhipadar bay at Raigarh Rs. 86 Lacs	Mar-85	A series 220 KV Tower	ACSR Zebra conductor	7/8 SWG	70 KN & 160 KN
4	220 KV Korba - Budhipadar line	220 KV	123	220 KV Korba- Budhipadar DCDS line upto CG Border Estt.No. 01-35-888-84-1071 dtd. 18.06.84	123	123	394.30 Lacs	Under CSPGCL	Aug-88	A series 220 KV Tower	ACSR Zebra conductor	7/8 SWG	70 KN & 160 KN
5	400 KV Seoni-Bhilai S/C Line	400 KV	76.78	400kV Sami-Bhilai S/C line Estt. No. 01-25-888-80-568 Dt. 07.05.1980 Revised Estt. No. 01-25-888-84-0005 Dt. 06.08.1984 Amount Rs. 37.32 Crore.	76.78	76.78	Details not available as very old line	Not available	Sept-85	F & FD Type	Twin Moose ACSR	7/9 SWG	120 KN & 160 KN

Remarks: 220 KV LILO section for power supply to Kotmikala S/S completed in 2006-07.

Executive Director (Commercial & Planning) CSPTCL, Raipur

  
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**COMMERCIAL & PLANNING**  
**CSPTCL, RAIPUR**

**CERTIFICATE**

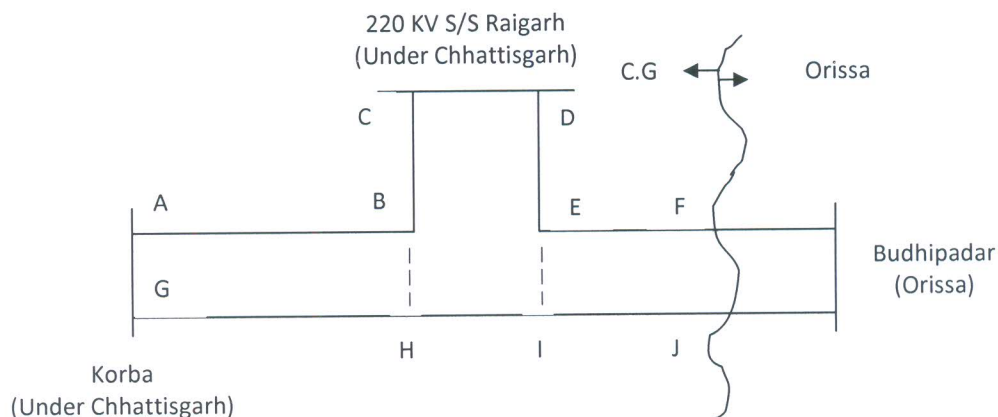
S.N.	Name of Line	Total length in circuit km	Length under consideration in circuit km	Remark/ Certificate
1	2	3	4	5
1	220 KV Kotmikala-Amarkantak line-1	23.317	23.317	<b>This is to certify that-</b> The length of line under consideration from Kotmikala to MP-CG Border 23.317 ckt. kms. is owned & maintained by CSPTCL
2	220 KV Kotmikala-Amarkantak Line-2	23.616	23.616	<b>This is to certify that-</b> The length of line under consideration from Kotmikala to MP-CG Border 23.616 ckt. kms. is owned & maintained by CSPTCL
3	220 KV Raigarh – Budhipadar line	21	21	<b>This is to certify that-</b> The length of line under consideration from Raigarh to CG-Orissa Border 21ckt. kms. is owned & maintained by CSPTCL
4	220 KV Korba – Budhipadar line	123	123	<b>This is to certify that-</b> The length of line under consideration from Korba to CG-Orissa Border 123ckt. kms. is owned & maintained by CSPTCL
5	400 KV Seoni-Bhilai Line	76.78	76.78	<b>This is to certify that-</b> The length of line under consideration upto CG-MP Border 76.78 ckt. kms. is owned & maintained by CSPTCL



Executive Director (Commercial & Planning)  
CSPTCL, Raipur

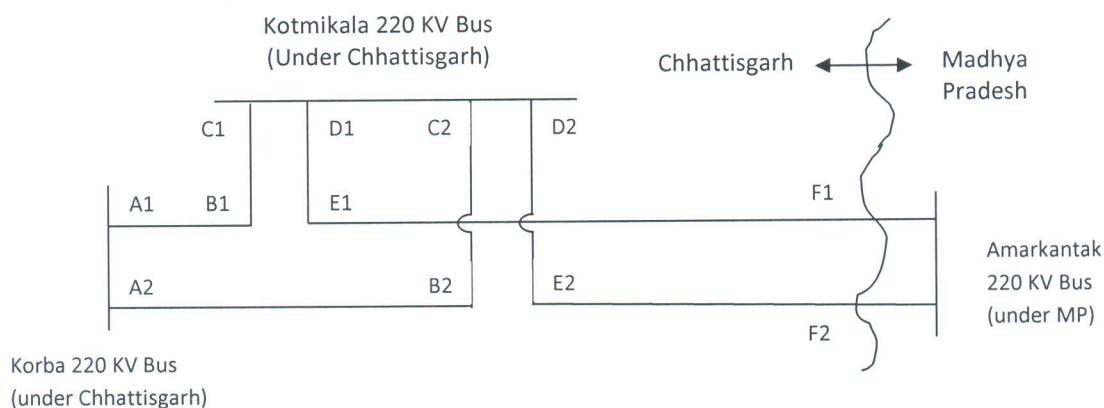


**220 KV RAIGARH – BUDHIPADAR LINE**  
**220 KV KORBA – BUDHIPADAR LINE**



Line section DE = 03 KM, EF = 18 KM, Total=D-E-F=21 KM  
 GH = 105 KM, IJ = 18 KM (Total=123 KM)  
 AB & GH on 220 KV DCDS line, EF & IJ on DCDS line and BC & ED on DCDS line.

**220 KV KOTMIKALA - AMARKANTAK LINE CKT II**

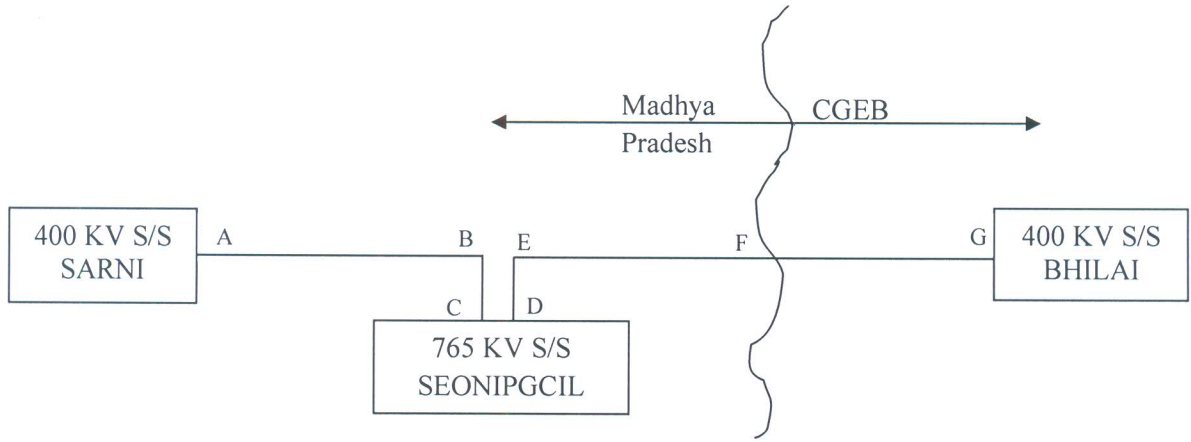


$D1E1 = 3.317 \text{ KM}$   
 And  $D2E2 = 3.616 \text{ KM}$   
 $E1F1 = E2F2 = 20 \text{ KM}$  (up to CG Border)  
 Therefore, line section  $D1E1F1 = 23.317 \text{ km}$   
 And line section  $D2E2F2 = 23.616 \text{ KM}$   
 Line section  $A1B1C1$  Korba- Kotmikala – I and  $A2B2C2$  Korba-Kotmikala-II are intra-state line of CG.

*AS*  
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**COMMERCIAL & PLANNING**  
**CSPTCL, RAIPUR**

**ANNEXURE-IV**

**400 KV Bhilai-Seoni-Sarni**



AB-400 KV S/C Line from Sarni to Seoni  
BC & DE- Constructed by PGCIL  
EF-400 KV S/C Line from Seoni to M.P. Border  
FG-400 KVS/C Line from 400Kv Substation  
Bhilai to C.G. Border (76.78 Km)

FG=76.78 km.

Executive Director (Commercial & Planning)  
CSPTCL, Raipur

## INDEX

### Checklist of Forms and other information / documents for tariff filing for Transmission System

Form No.	Tariff Filing Formats (Transmission)	Tick
FORM-1	Summary Sheet	√
FORM-2	Details of Transmission Lines and Substations, Communication System	√
FORM-3	Normative Parameters considered for Tariff Computations	√
FORM-4	Abstract of admitted parameters for the existing transmission assets/elements under project	√
FORM-4A	Statement of Capital Cost	√
FORM-4B	Statement of Capital Works in Progress	√
FORM-4C	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New Project/Element	√
FORM-5	Element wise Break-up of Project/Asset/Element Cost for Transmission System or Communication System	√
FORM-5A	Break-up of Construction/Supply/Service packages	√
FORM-5B	Details of element wise cost of the Project	√
FORM-6	Financial Package upto COD	√
FORM-7	Statement of Additional Capitalization after COD	√
FORM- 7A	Financing of Additional Capitalization	√
FORM- 7B	Statement of Additional Capitalization during fag end* of the Project	√
FORM-8	Calculation of Return on Equity	√
FORM-8A	Details of Foreign Equity	√
FORM-8B	Details of additional RoE	√
FORM-9	Details of Allocation of corporate loans to various transmission elements	√
FORM-9A	Details of Project Specific Loans	√
FORM-9B	Details of Foreign loans	√
FORM-9C	Calculation of Weighted Average Rate of Interest on Actual Loans	√
FORM-9D	Loans in Foreign Currency	√
FORM-9E	Calculation of Interest on Normative Loan	√
FORM-10	Calculation of Depreciation Rate	√
FORM-10A	Statement of Depreciation	√
FORM-10B	Statement of De-capitalization	√
FORM -11	Calculation of Interest on Working Capital	√
FORM -12	Details of time over run	√
FORM -12A	Incidental Expenditure during Construction	√
FORM -12B	Draw Down Schedule for Calculation of IDC & Financing Charges	√
FORM -13	Breakup of Initial spares	√
FORM -14	Other Income as on COD	√
FORM -15	Actual cash expenditure	√

  
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**Summary Sheet**

Name of Transmission Licensee : Chhattisgarh State Power Transmission Co. Ltd.  
 Name of Region: Western Region  
 Name of the Project: Given below  
 Name of the Transmission Element: EHV Lines

(Rs. In Lacs)

S.N.	Particulars	Form No	2014-15	2015-16	2016-17	2017-18	2018-19
1	2	3	4	5	6	7	8
1	<b>Kotmikala- Amarkantak-1, 220 kV Line</b>						
1	Depreciation	10	N/A	N/A	N/A	N/A	N/A
2	Interest on loan	9E	N/A	N/A	N/A	N/A	N/A
3	Return on Equity	8	N/A	N/A	N/A	N/A	N/A
4	Interest on Working Capital	11	N/A	N/A	N/A	N/A	N/A
5	O&M Expenses	3	N/A	N/A	N/A	N/A	N/A
	<b>Total</b>						
2	<b>Kotmikala- Amarkantak-2, 220 kV Line</b>						
1	Depreciation	10	N/A	N/A	N/A	N/A	N/A
2	Interest on loan	9E	N/A	N/A	N/A	N/A	N/A
3	Return on Equity	8	N/A	N/A	N/A	N/A	N/A
4	Interest on Working Capital	11	N/A	N/A	N/A	N/A	N/A
5	O&M Expenses	3	N/A	N/A	N/A	N/A	N/A
	<b>Total</b>						
3	<b>Raigarh – Budhipadar, 220 kV Line</b>						
1	Depreciation	10	N/A	N/A	N/A	N/A	N/A
2	Interest on loan	9E	N/A	N/A	N/A	N/A	N/A
3	Return on Equity	8	N/A	N/A	N/A	N/A	N/A
4	Interest on Working Capital	11	N/A	N/A	N/A	N/A	N/A
5	O&M Expenses	3	N/A	N/A	N/A	N/A	N/A
	<b>Total</b>						
4	<b>Korba – Budhipadar, 220 kV Line</b>						
1	Depreciation	10	N/A	N/A	N/A	N/A	N/A
2	Interest on loan	9E	N/A	N/A	N/A	N/A	N/A
3	Return on Equity	8	N/A	N/A	N/A	N/A	N/A
4	Interest on Working Capital	11	N/A	N/A	N/A	N/A	N/A
5	O&M Expenses	3	N/A	N/A	N/A	N/A	N/A
	<b>Total</b>						
5	<b>Seoni- Bhilai 400 kV Line</b>						
1	Depreciation	10	N/A	N/A	N/A	N/A	N/A

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2	Interest on Loan	9E	N/A	N/A	N/A	N/A	N/A	N/A
3	Return on Equity	8	N/A	N/A	N/A	N/A	N/A	N/A
4	Interest on Working Capital	11	N/A	N/A	N/A	N/A	N/A	N/A
5	O&M Expenses	3	N/A	N/A	N/A	N/A	N/A	N/A
	<b>Total</b>							

  
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**Details of Transmission Lines and Substations, Communication System**

Name of Transmission Licensee : Chhattisgarh State Power Transmission Co. Ltd.  
 Name of Region: Western Region  
 Name of the Project: Given below  
 Name of the Transmission Element: EHV Lines

**Transmission Lines**

S.N.	Name of line	Type of line AC/ HVDC	S/C or D/C	No. of Sub Conductors	Voltage level KV	Line Length Ckt.- KM	Date of Commercial Operation	Covered in the present petition	
								Yes/No	If No, petition No.
1	2	3	4	5	6	7	8	9	10
1(a)	220 KV Kotmikala- Amarkantak-1 Line (Section E1F1)	AC	S/C	1	220 KV	20	01-03-75	Yes	
1(b)	220 KV Kotmikala LILO line (Section D1E1)	AC	S/C	1	220 KV	3.317	02-03-07	Yes	
2(a)	220 KV Kotmikala- Amarkantak-2 Line (Section E2F2)	AC	S/C	1	220 KV	20	01-07-79	Yes	
2(b)	220 KV Kotmikala LILO line (Section D2E2)	AC	S/C	1	220 KV	3.616	02-03-07	Yes	
3	220 KV Raigarh- Budhipadar DCDS Line	AC	D/C	1	220 KV	21	March 1985	Yes	
4	220 kV Korba-Budhipadar Line	AC	D/C	1	220 KV	123	August 1988	Yes	
5	400 kV Seoni-Bhilai Line	AC	S/C	1	400 KV	76.78	September 1985	Yes	

**Substations**

S.N.	Name of Sub-Station	Type of Substation Conventional/ GIS/HVDC terminal/ HVDC Back to Back	Voltage level KV	No. of transformers/ Reactors/ SVC etc. (with capacity)	No. of Bays			Date of Commercial Operation	Covered in the present petition	
					765KV	400KV	220KV		132KV & Below	Yes/No
1	220 KV Bay at Kotmikala to energize Kotmikala- Amarkantakckt-I.	Conventional	220 KV	N/A	N/A	2	N/A	02.03.07	Yes	—
2	220 KV Bay at Raigarh to energize Raigarh-Budhipadar line.	Conventional	220 KV	N/A	N/A	1	N/A	1997	Yes	—
3.	400KV Bay at 400KV S/s Khedamara (Bhilai) to energise Bhilai Seoni Line	Conventional	400 KV	N/A	1	N/A	N/A	September 1985	Yes	—

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**Normative Parameters considered for tariff calculations**

Name of Transmission Licensee : Chhattisgarh State Power Transmission Co. Ltd.  
 Name of Region: Western Region  
 Name of the Project: Given below  
 Name of the Transmission Element: EHV Lines

Particulars	Unit	Tariff Control Period					
		2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8
Base Rate of Return on Equity	%	N/A	N/A	N/A	N/A	N/A	N/A
Tax Rate	%	N/A	N/A	N/A	N/A	N/A	N/A
Target Availability	%	N/A	N/A	N/A	N/A	N/A	N/A
<b>Normative O&amp;M per ckt.km</b>							
Single Circuit (Twin & Triple Conductor)	Rs. lacs	N/A	N/A	N/A	N/A	N/A	N/A
Single Circuit (Single Conductor)	Rs. lacs	N/A	N/A	N/A	N/A	N/A	N/A
Double Circuit (Twin & Triple Conductor)	Rs. lacs	N/A	N/A	N/A	N/A	N/A	N/A
Double Circuit (Single Conductor)	Rs. lacs	N/A	N/A	N/A	N/A	N/A	N/A
Normative O&M per bay	Rs. lacs	N/A	N/A	N/A	N/A	N/A	N/A
Spares for WC as % of O&M	%	N/A	N/A	N/A	N/A	N/A	N/A
Receivables in Months for WC	months	N/A	N/A	N/A	N/A	N/A	N/A
Prime Lending Rate of SBI as on 1 <sup>st</sup> April		N/A	N/A	N/A	N/A	N/A	N/A



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**Abstract of Admitted Parameters for the existing Transmission asset/elements  
under Projects**

Name of Transmission Licensee : Chhattisgarh State Power Transmission Co. Ltd.  
 Name of Region: Western Region  
 Name of the Project: Given below  
 Name of the Transmission Element: EHV Lines

Capital cost as admitted by CERC	<b>NOT APPLICABLE, SINCE OLD LINES TRANSFERRED THROUGH OPENING BALANCE SHEET</b>
Capital cost admitted as on _____	
(Give reference of the CERC relevant Order with Petition No. & Date)	
Foreign Component, if any (In Million US \$ or the relevant Currency):	
Domestic Component (Rs. Cr.)	
Foreign Exchange rate considered for the admitted cost:	
Hedging cost, if any, considered for the admitted Capital cost.	
Total Project cost admitted (Rs. Cr.):	

  
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**Statement of Capital Cost**

Name of Transmission Licensee : Chhattisgarh State Power Transmission Co. Ltd.  
 Name of Region: Western Region  
 Name of the Project: Given below  
 Name of the Transmission Element: EHV Lines

(Rs. in Lacs)

S. No.	Name of Line	Opening Gross Block as per Books	Amount of Capital Liabilities in Gross Block	Closing Gross Block as per Books	Amount of Capital Liabilities in Gross Block
1	Kotmikala- Amarkantak-1, 220 kV Line	Not Applicable since old lines			
2	Kotmikala- Amarkantak-2, 220 kV Line				
3	Raigarh – Budhipadar, 220 kV Line				
4	Korba – Budhipadar, 220 kV Line				
5	Seoni- Bhilai 400 kV Line				

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**Statement of Capital Works in Progress****(To be given for relevant dates and year wise)**

Name of the Transmission Licensee : Chhattisgarh State Power Transmission Co. Ltd.  
 Name of Region: Western Region  
 Name of the Project: Given below  
 Name of the Transmission Element: EHV Lines

(As on relevant date)

A	(a) Opening CWIP amount as per books	NA
	(b) Amount of capital liabilities in (a) above	NA
	(c) Amount of IDC, FC, FERV & Hedging cost included in (a) above	NA
B	(a) Addition/ Adjustment in CWIP amount during the period	NA
	(b) Amount of capital liabilities in (a) above	NA
	(c) Amount of IDC, FC, FERV & Hedging cost included in (a) above	NA
C	(a) Capitalization/Transfer to fixed asset of CWIP amount during the period	NA
	(b) Amount of capital liabilities in (a) above	NA
	(c) Amount of IDC, FC, FERV & Hedging cost included in (a) above	NA
D	(a) Closing CWIP amount as per books	NA
	(b) Amount of capital liabilities in (a) above	NA
	(c) Amount of IDC, FC, FERV & Hedging cost included in (a) above	NA

Note: 1. Relevant date/s means date of COD of unit/s, station and financial year start date and end date.

  
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 DSPCL RAIPUR

**Petitioner**

**Form 4C**

**Abstract of Capital Cost Estimates and Schedule of Commissioning for the new projects/Element**

Name of Transmission Licensee : Chhattisgarh State Power Transmission Co. Ltd.  
 Name of Region: Western Region  
 Name of the Project: Given below  
 Name of the Transmission Element: EHV Lines

**New Projects**

**Capital Cost Estimates**

Board of Director/Agency approving the Capital cost estimates:	Present Day Cost	Completed Cost
Date of approval of the Capital cost estimates:	As of End of Qtr. of the year	As on Scheduled COD of the Station
Price level of approved estimates	<b>NOT APPLICABLE-OLD WORKS</b>	
Foreign Exchange rate considered for the Capital cost estimates		
<b>Capital cost excluding IDC &amp; FC</b>		
Foreign Component, if any (In Million US \$ or the relevant Currency)		
Domestic Component (Rs. Cr.)		
<b>Capital cost excluding IDC, FC FERV &amp; Hedging Cost (Rs. Cr)</b>		
<b>IDC, FC, FERV &amp; Hedging Cost</b>		
Foreign Component, if any (In Million US\$ or the relevant Currency)		
Domestic Component (Rs. Cr.)		
<b>Total IDC, FC, FERV &amp; Hedging Cost Cost (Rs. Cr)</b>		
Rate of Taxes & duties considered		
<b>Capital cost including IDC, FC FERV &amp; Hedging Cost</b>		
Foreign Component, if any (In Million US \$ or the relevant Currency)		
Domestic Component (Rs. Cr.)		
<b>Capital cost including IDC &amp; FC (Rs Cr.)</b>		
<b>Schedule of Commissioning</b>		
COD of Unit-I/ Block-I		
COD of Unit-II/ Block-II		
COD of last Unit/ Block		

- Note:
1. Copy of approval letter should be enclosed.
  2. Details of Capital cost are to be furnished as per FORM-5B or 5C as applicable.
  3. Details of IDC & Financing Charges are to be furnished as per FORM-14.

  
**EXECUTIVE DIRECTOR  
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 CSPTCL, RAIPUR**

Petitioner

**Element wise Break-up of Project Cost for Transmission System**

Name of Transmission Licensee : Chhattisgarh State Power Transmission Co. Ltd.  
 Name of Region: Western Region  
 Name of the Project: Given below  
 Name of the Transmission Element: EHV Lines

SN	Break Down	Cost in Rs. Crores			Variation	Reasons for Variation	Admitted Cost				
		As per original	As on COD	Liabilities/Provision							
1	2	3	4	5	6=(3-4-5)	7	8				
<b>A</b>	<b>TRANSMISSION LINE</b>	NOT AVAILABLE – OLD LINES									
<b>1.0</b>	<b>Preliminary works</b>										
1.1	Design & Engineering										
1.2	Preliminary investigation, Right of way, forest clearance, PTCC, general civil works etc.										
<b>1.3</b>	<b>Total Preliminary works</b>										
<b>2.0</b>	<b>Transmission Lines material</b>										
2.1	Towers steel										
2.2	Conductor										
2.3	Earth Wire										
2.4	Insulators										
2.5	Hardware Fittings										
2.6	Conductor & Earthwire accessories										
2.7	Spares										
2.8	Erection, Stringing & Civil works including foundation										
<b>2.9</b>	<b>Total Transmission Lines material</b>										
<b>3.0</b>	<b>Taxes and Duties</b>										
3.1	Custom Duty										
3.2	Other Taxes & Duties										
<b>3.3</b>	<b>Total Taxes &amp; Duties</b>										
	<b>Total – Transmission Lines</b>										
<b>B</b>	<b>SUBSTATIONS</b>										
<b>4.0</b>	<b>Preliminary works &amp; land</b>										
4.1	Design & Engineering										
4.2	Land										
4.3	Site Preparation										
<b>4.4</b>	<b>Total Preliminary works &amp; land</b>										
<b>5.0</b>	<b>Civil Works</b>										
5.1	Control Room & Office Building including HVAC										
5.2	Township & Colony										

5.3	Roads and Drainage		
5.4	Foundation for structures		
5.5	Misc. civil works		
5.6	<b>Total Civil Works</b>		
6.0	<b>Substation Equipment</b>		
6.1	Switchgear (CT, PT,Circuit Breaker, Isolator etc.)		
6.2	Transformers		
6.3	Compensation Equipment (Reactor, SVCs etc)		
6.4	Control, Relay & Protection Panel		
6.5	PLCC		
6.6	HVDC package		
6.7	Bus Bars/ conductors/ Insulators		
6.8	Outdoor lighting		
6.9	Emergency D.G. Set		
6.10	Grounding System		
6.11	<b>Total Substation Equipment</b>		
7.0	<b>Spares</b>		
8.0	<b>Taxes and Duties</b>		
8.1	Custom Duty		
8.2	Other Taxes & Duties		
8.3	<b>Total Taxes &amp; Duties</b>		
	<b>Total (Sub-Station)</b>		
9.0	<b>Construction and pre-commissioning expenses</b>		
9.1	Site supervision & site admn. etc.		
9.2	Tools and Plants		
9.3	Construction Insurance		
9.4	<b>Total Construction and pre-commissioning expenses</b>		
10.0	<b>Overheads</b>		
10.1	Establishment		
10.2	Audit & Accounts		
10.3	Contingency		
10.4	<b>Total Overheads</b>		
11.0	<b>Project cost without Total Cost (Plant &amp; Equipment)</b>		
12.0	<b>Total cost (Plant &amp; Equipment)</b>		
12.1	Interest during construction (IDC)		
12.2	Financing Charges (FC)		
12.3	Foreign Exchange Rate Variation (FERV)		
12.4	Hedging Cost		
	<b>Total of IDC, FC, FERV</b>		

NOT AVAILABLE – OLD LINES

	&hedging Cost		
13.0	Capital cost including IDC, FC, FERV & hedging Cost		

In case of time & cost over-run, a detailed note giving reasons of such time and cost over-run should be submitted clearly bringing out the agency responsible and whether such time & cost over-run was beyond the control of the generating company.

**Petitioner**

*AP*  
 EXECUTIVE DIRECTOR  
 COMMERCIAL & PLANNING  
 BOPTEL, RAIPUR

**Break up of Construction/Supply/Service packages**

Name of Transmission Licensee : Chhattisgarh State Power Transmission Co. Ltd.  
 Name of Region: Western Region  
 Name of the Project: Given below  
 Name of the Transmission Element: EHV Lines

SN	Name/No. of construction/ supply/ service package	Scope of works/ head cost break-ups as applicable)	Whether awarded through ICB/DCB/ Departmental Work etc.	No. of bids received	Date of award	Date of start of work	Date of completion of work	Value of award <sup>2</sup> in (Rs. Cr.)	Firm with escalation in prices	Actual expenditure till the completion or up to COD whichever is earlier (Rs. Cr.)	Taxes & duties and IEDC	IDC, FC, FERV & Hedging cost	Sub-Total
<b>NOT APPLICABLE – old works completed long ago</b>													

1. The scope of work in any package should be indicated in conformity of cost break-up in form-5 to the extent possible.
2. If there is any package, which need to be shown in Indian Rupee and foreign currency (ies), the same should be shown separately alongwith the currency, the exchange rate and the date

Petitioner

  
**EXECUTIVE DIRECTOR  
 COMMERCIAL & PLANNING  
 CSPTCL, RAIPUR**

**Details of element wise cost of project**

Name of Transmission Licensee : Chhattisgarh State Power Transmission Co. Ltd.  
 Name of Region: Western Region  
 Name of the Project: Given below  
 Name of the Transmission Element: EHV Lines

S.N.	Name of Line	Apportioned approved cost (Rs. Lacs)	Completed cost (Rs. Lacs)	(Rs. In Lacs)	
				Yes/No	If No, petition No.
1(a)	220 KV Kotmikala- Amarkantak-1 Line ( Section E1F1)	Not Available since old lines	Not Available since old lines	YES	—
1(b)	220 KV Kotmikala LILO line (Section D1E1)			YES	—
1(c)	220 KV Bay at Kotmikala to energize Kotmikala- Amarkantackct-I.			YES	—
2(a)	220 KV Kotmikala- Amarkantak-2 Line ( Section E2F2)			YES	—
2(b)	220 KV Kotmikala LILO line (Section D2E2)			YES	—
2(c)	220 KV Bay at Kotmikala to energize Kotmikala- Amarkantackct-II.			YES	—
3(a)	Raigarh-Budhipadar 220 KV Line			YES	—
3(b)	220 KV bay at Raigarh to energize Raigarh-Budhipadar line.			YES	—
4	Korba-Budhipadar 220 KV Line			YES	—
5	Seoni- Bhilai 400 kV Line	Not Available since old lines	Not Available since old lines	YES	-
Remark: 220 KV bay at Korba to energize Korba-Budhipadar line is under CG State Power generation company. Therefore above charges not claimed by CSPTCL.					

**Substations**

S.N.	Name of Substation	Apportioned approved cost (Rs. Lacs)	Completed cost (Rs. Lacs)	Covered in the present petition	
				Yes/No	If No, petition No.
<b>NOT APPLICABLE</b>					

These lines are part of old Transmission lines and the cost has been apportioned on the basis of line segment under petition accordingly.

Petitioner



**FINANCIAL PACKAGE UPTO COD**

Name of Transmission Licensee : Chhattisgarh State Power Transmission Co. Ltd.  
 Name of Region: Western Region  
 Name of the Project: Given below  
 Name of the Transmission Element: EHV Lines

(In Rs. Lacs)

S.No	Name of line	Financial Package as approved currency and amount		Financial Package as approved currency and amount		Financial Package as approved currency and amount	
		Funded from Loan	Funded from Equity	Funded from Loan	Funded from Equity	Funded from Loan	Funded from Equity
1	Kotmikala- Amarkantak-1, 220 kV Line	Not Applicable		Not Applicable		Not Applicable	
2	Kotmikala- Amarkantak-2, 220 kV Line	Not Applicable		Not Applicable		Not Applicable	
3	Raigarh – Budhipadar, 220 kV Line	Not Applicable		Not Applicable		Not Applicable	
4	Korba – Budhipadar, 220 kV Line	Not Applicable		Not Applicable		Not Applicable	
5	Seoni- Bhilai 400 kV Line	Not Applicable		Not Applicable		Not Applicable	

**NOTE** – (i) All amount in Indian National Currency, No Foreign Loan or Equity.  
 (ii) Debt: Equity ratio in all cases 70:30.

Petitioner

  
**EXECUTIVE DIRECTOR  
 COMMERCIAL & PLANNING  
 CSPTCL, RAIPUR**

**Statement of additional capitalization after COD**

Name of Transmission Licensee : Chhattisgarh State Power Transmission Co. Ltd.  
 Name of Region: Western Region  
 Name of the Project: Given below  
 Name of the Transmission Element: EHV Lines

S. No.	Year	Work/ Equipment proposed to be added after COD up to cut off Date/ Beyond cut-off date	Amount capitalized and proposed to be capitalized	Justification as per purpose	Regulation under which covered	Admitted cost <sup>1</sup>
1	2	3	4	5	6	7
<b>NOT APPLICABLE (NO ADDL. CAPITALIZATION)</b>						
	<b>Total</b>					

<sup>1</sup>. In case the project has been completed and any tariff notification(s) has already been issued in the past, fill column 7 giving the cost as admitted for the purpose of tariff notification already issued by (Name of the authority) (Enclose copy of the tariff order)

Note: 1. Fill the form in chronological order year wise along with detailed justification clearly bring out the necessity and the benefits accruing to the beneficiaries  
 2. In case initial spares are purchased along with any equipment, then the cost of such spares should be indicated separately

Petitioner

  
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**Financing of Additional Capitalization**

Name of Transmission Licensee : Chhattisgarh State Power Transmission Co. Ltd.  
 Name of Region: Western Region  
 Name of the Project: Given below  
 Name of the Transmission Element: EHV Lines

(Rs. in Lacs)

Financial Year (Starting from COD)	Projected / Actual					Admitted				
	Year1	Year2	Year3	Year4	Year5 & so on	Year1	Year2	Year3	Year4	Year5 & so on
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>
Amount capitalized in work/Equipment	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Financing Details	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Loan-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Loan-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Loan-3 and so on	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Loan <sup>2</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Equity	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Internal Resources	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Others	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total	--	--	--	--	--	--	--	--	--	--

1. Year 1 refers to Financial Year of COD and Year2; Year3 etc. are the subsequent financial years respectively.
2. Loan details for meeting the additional capitalization requirement should be given as per FORM-7 or 8 whichever is relevant.

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**CSPTCL, RAIPUR**

**Statement of Additional Capitalization during fag end of the Project**

Name of Transmission Licensee : Chhattisgarh State Power Transmission Co. Ltd.  
Name of Region: Western Region  
Name of the Project: Given below  
Name of the Transmission Element: EHV Lines

Additional capitalization during fag end of the project	Not Applicable
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Petitioner



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**Calculation of Return on Equity**

Name of Transmission Licensee : Chhattisgarh State Power Transmission Co. Ltd.  
 Name of Region: Western Region  
 Name of the Project: Given below  
 Name of the Transmission Element: EHV Lines

(Rs. In Lacs)

S.N.	Particulars	Financial Year				
		Kotmikala - Amarkantak 220 KV Line-1	Kotmikala - Amarkantak 220 KV Line-2	Raigarh- Budhipadar 220 KV Line	Korba- Budhipadar 220 KV Line	Seoni- Bhilai 400 kV Line
1	2	3	4	5	6	7
1	Length of Line Section	Not Applicable				
2	Total apportioned cost					
3	Funded from Loan					
4	Funded from Equity					
5	Rate of RoE					
6	MAT Rate					
7	Total RoE@ RoE/(1- MAT Rate)					
8	RoE for the year					

  
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**Details of Foreign Equity**

Name of Transmission Licensee : Chhattisgarh State Power Transmission Co. Ltd.  
 Name of Region: Western Region  
 Name of the Project: Given below  
 Name of the Transmission Element: EHV Lines

Sl.	Financial Year	Year 1				Year 2				Year 3 and so on			
		2	3	4	5	6	7	8	9	10	11	12	13
		Date	Amount (Foreign Currency)	Ex-change Rate	Amt (Rs.)	Date	Amount (Foreign Currency)	Ex-change Rate	Amt (Rs.)	Date	Amount (Foreign Currency)	Ex-change Rate	Amt (Rs.)
	Currency1 <sup>1</sup>	NOT APPLICABLE											
A.	At the date of infusion <sup>2</sup>												
2													
3													
4													
B	Currency2 <sup>1</sup>												
1													
2													
3													
	Currency3 <sup>1</sup>												
A.	At the date of infusion <sup>2</sup>												
2													
3													
4													
B	Currency4 <sup>1</sup> & so on												
1	At the date of infusion <sup>2</sup>												
2													
3													

(Details only in respect of Equity infusion if any applicable to the project under petition)

1. Name of the currency to be mentioned e.g. US \$, DM, etc.
2. In case of equity infusion more than once during the year, Exchange rate at the date of each infusion to be given.

  
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**Details of additional RoE**

Name of Transmission Licensee : Chhattisgarh State Power Transmission Co. Ltd.  
Name of Region: Western Region  
Name of the Project: Given below  
Name of the Transmission Element: EHV Lines

Additional RoE	Not Applicable
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**Details of allocation of corporate loans to various transmission elements**

Name of Transmission Licensee : Chhattisgarh State Power Transmission Co. Ltd.  
 Name of Region: Western Region  
 Name of the Project: Given below  
 Name of the Transmission Element: EHV Lines

Particulars	Package1	Package2	Package3	Package4	Package5	Remarks
1	2	3	4	5	6	7
Source of Loan 1	NA	NA	NA	NA	NA	NA
Currency2	NA	NA	NA	NA	NA	NA
Amount of Loan	NA	NA	NA	NA	NA	NA
Amount of Gross Loan drawn upto 31.03.2009/ COD 3,4,5,13,15	NA	NA	NA	NA	NA	NA
Interest Type 6	NA	NA	NA	NA	NA	NA
Fixed Interest Rate	NA	NA	NA	NA	NA	NA
Base Rate, if	NA	NA	NA	NA	NA	NA
Margin, if Floating	NA	NA	NA	NA	NA	NA
Are there any	NA	NA	NA	NA	NA	NA
If above is	NA	NA	NA	NA	NA	NA
Moratorium	NA	NA	NA	NA	NA	NA
Moratorium	NA	NA	NA	NA	NA	NA
Repayment	NA	NA	NA	NA	NA	NA
Repayment	NA	NA	NA	NA	NA	NA
Repayment	NA	NA	NA	NA	NA	NA
Repayment	NA	NA	NA	NA	NA	NA
Base Exchange	NA	NA	NA	NA	NA	NA
Are foreign currency	NA	NA	NA	NA	NA	NA
If above is	NA	NA	NA	NA	NA	NA
<b>Distribution of loan packages to various transmission elements</b>						
<b>Western Region</b>						
Transmission	NA	NA	NA	NA	NA	NA
Transmission	NA	NA	NA	NA	NA	NA
<b>Total</b>	-	-	-	-	-	-
<b>RLDC</b>	-	-	-	-	-	-
<b>Total</b>	-	-	-	-	-	-

  
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**Details of Project Specific Loans**

Name of Transmission Licensee : Chhattisgarh State Power Transmission Co. Ltd.  
 Name of Region: Western Region  
 Name of the Project: Given below  
 Name of the Transmission Element: EHV Lines

S. No.	Name of Line	Source of Loan	Currency	Amount Allocated (Rs. Lacs)	Rate of Interest
1	Kotmikala- Amarkantak-1, 220 kV Line	No loan taken for the said lines			
2	Kotmikala- Amarkantak-2, 220 kV Line				
3	Raigarh – Budhipadar, 220 kV Line				
4	Korba – Budhipadar, 220 kV Line				
5	Seoni- Bhilai 400 kV Line				

  
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**Details of Foreign Loans****(Details only in respect of loans, applicable to the Project under Petition)**

Name of Transmission Licensee : Chhattisgarh State Power Transmission Co. Ltd.  
 Name of Region: Western Region  
 Name of the Project: Given below  
 Name of the Transmission Element: EHV Lines

Exchange Rate at COD: - Exchange Rate as on 31.03.2009: \_\_\_\_\_

(Amount in Lacs)

S.No.	Financial Year (Starting from COD)	Year-1 ..... so on			
		3	4	5	6
1	2	Date	Amount (Foreign Currency)	Exchange Rate	Amount (In Rs.)
	<b>Currency<sup>1</sup></b>	NOT APPLICABLE			
A.1	At the time of Drawl <sup>2</sup>				
2	Scheduled repayment date of principal				
3	Scheduled payment date of interest				
4	At the end of Financial year				
B	In case of Hedging <sup>3</sup>				
1	At the time of hedging				
2	Period of hedging				
3	Cost of hedging				

1. Name of the currency to be mentioned e.g. US \$, DM, etc.
2. In case of more than one drawl during the year, Exchange rate at the date of each drawl to be given.
3. Furnish details of hedging, in case of more than one hedging during the year or part hedging, details of each hedging are to be given with supporting documents.
4. Tax (such as withholding tax) details as applicable including change in rates, date from which change effective etc. must be clearly indicated.

  
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**Calculation of Weighted Average Rate of Interest on Actual Loans<sup>1</sup>**

Name of Transmission Licensee : Chhattisgarh State Power Transmission Co. Ltd.  
 Name of Region: Western Region  
 Name of the Project: Given below  
 Name of the Transmission Element: EHV Lines

S. No.	Financial Year	2014-15	2015-16	2016-17	2017-18	2018-19
1	2	3	4	5	6	7
	Gross loan – Opening					
	Cumulative repayments of Loans up to previous year					
	Net loan – Opening					
	Add : Drawl(s) during the Year					
	Less : Repayment(s) of Loans during the year					
	Net loan – Closing					
	Average Net Loan					
	Rate of Interest on Loan on annual basis					
	Interest on loan					
	Loan repayment effective from (date to be indicated)					
	<b>Loan-2 and so on</b>					
	Gross loan – Opening					
	Cumulative repayments of Loans up to previous year					
	Net loan - Opening					
	Add : Drawl(s) during the Year					
	Less : Repayment (s) of Loans during the Year					
	Net Loan – Closing					
	Average Net Loan					
	Rate of Interest on Loan on annual basis					
	Interest on loan					
	Loan repayment effective from (date to be indicated)					
	<b>Total Loan</b>					
	Gross Loan – Opening					
	Cumulative repayments of Loans up to previous year					
	Net loan - Opening					
	Add : Drawl (s) during the Year					
	Less : Repayment (s) of Loans during the Year					
	Net Loan – Closing					
	Average Net Loan					
	Interest on loan					
	Weighted average Rate of Interest on Loans					

Not Applicable

<sup>1</sup> In case of Foreign Loans, the calculations in Indian Rupee is to be furnished. However, the calculations in Original currency is also to be furnished separately in the same form.

  
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Petitioner

**Loans in Foreign Currency**

Name of Transmission Licensee : Chhattisgarh State Power Transmission Co. Ltd.  
Name of Region: Western Region  
Name of the Project: Given below  
Name of the Transmission Element: EHV Lines

Loans in Foreign Currency	Not Applicable
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Petitioner

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**Calculation of Interest on Normative Loan**

Name of Transmission Licensee : Chhattisgarh State Power Transmission Co. Ltd.  
 Name of Region: Western Region  
 Name of the Project: Given below  
 Name of the Transmission Element: Detailed below

(Rs. In Lacs)

S.N.	Particulars	Financial Year				
		Kotmikala - Amarkantak 220 KV Line-1	Kotmikala - Amarkantak 220 KV Line-2	Raigarh- Budhipadar 220 KV Line	Korba- Budhipadar 220 KV Line	Seoni- Bhilai 400 kV line
1	2	3	4	5	6	7
1	Gross Normative Loan Opening					
2	Cumulative Repayment of Normative Loan upto previous year					
3	Net Normative Loan Opening					
4	Increase/ Decrease due to Additional Capital Expenditure during the Year					
5	Repayment of Normative Loan during the Year					
6	Net Normative Loan Closing					
7	Average Normative Loan					
8	Weighted Average Rate of Interest on Actual Loans					
9	Interest on Normative Loans					

Not Applicable



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**Calculation of Depreciation Rate**

Name of Transmission Licensee : Chhattisgarh State Power Transmission Co. Ltd.  
 Name of Region: Western Region  
 Name of the Project: Given below  
 Name of the Transmission Element: EHV Lines

(Rs. in lacs)

S.N.	Name of the Assets	Gross Block as on 31.03.2009 or as on COD, whichever is later and subsequently for each year thereafter upto 31.03.19	Depreciation rates as per CERC's Depreciation on Rate Schedule	Depreciation amount for each year upto 31.03.14, 31.03.15, 31.03.16, 31.03.17, 31.03.18 and 31.03.19
1	2	3	4	5
1	Kotmikala- Amarkantak-1, 220 kV Line	Not Available since old lines		
2	Kotmikala- Amarkantak-2, 220 kV Line			
3	Raigarh – Budhipadar, 220 kV Line			
4	Korba – Budhipadar, 220 kV Line			
5	Seoni- Bhilai 400 kV Line			
	<b>Total</b>			
	<b>Weighted average rate of Depreciation (%)</b>			

<sup>1</sup> Name of the Assets should conform to the description of the assets mentioned in Depreciation Schedule appended to the Notification.



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**Statement of Depreciation**

Name of Transmission Licensee : Chhattisgarh State Power Transmission Co. Ltd.  
 Name of Region: Western Region  
 Name of the Project: Given below  
 Name of the Transmission Element: EHV Lines

(Rs. in lacs)

Financial Year	2014-15	2015-16	2016-17	2017-18	2018-19
1	2	3	4	5	6
<b>Depreciation on Capital Cost</b>	NA	NA	NA	NA	NA
<b>Depreciation on Additional Capitalization</b>					
Amount of Additional Capitalization	NA	NA	NA	NA	NA
Depreciation Amount	NA	NA	NA	NA	NA
<b>Detail of FERV</b>					
Amount of FERV on which depreciation charged	NA	NA	NA	NA	NA
Depreciation amount	NA	NA	NA	NA	NA
Depreciation recovered during the Year	NA	NA	NA	NA	NA
Advance against Depreciation recovered during the Year	NA	NA	NA	NA	NA
Depreciation & Advance against Depreciation recovered during the year	NA	NA	NA	NA	NA
<b>Cumulative Depreciation &amp; Advance against Depreciation recovered up to the year</b>	NA	NA	NA	NA	NA

  
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**Statement of De-Capitalization**

Name of Transmission Licensee : Chhattisgarh State Power Transmission Co. Ltd.  
Name of Region: Western Region  
Name of the Project: Given below  
Name of the Transmission Element: EHV Lines

De-Capitalization	Not Applicable
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**Calculation of Interest on Working Capital**

Name of Transmission Licensee : Chhattisgarh State Power Transmission Co. Ltd.  
 Name of Region: Western Region  
 Name of the Project: Given Below  
 Name of the Transmission Element: EHV Lines

S.N.	Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
1	2	3	4	5	6	7
1	O&M Expenses	Not Applicable				
2	Maintenance Spares					
3	Receivables					
4	Total Working Capital					
5	Rate of Interest					
6	<b>Interest on Working Capital</b>					

Above are combined figures of all the lines together



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**Details of time over-run**

Name of Transmission Licensee : Chhattisgarh State Power Transmission Co. Ltd.  
Name of Region: Western Region  
Name of the Project: Given below  
Name of the Transmission Element: EHV Lines

Time over run	Not Applicable
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**Incidental Expenditure during Construction**

Name of Transmission Licensee : Chhattisgarh State Power Transmission Co. Ltd.  
Name of Region: Western Region  
Name of the Project: Given below  
Name of the Transmission Element: EHV Lines

Incidental Expenditure	Not Applicable
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**Petitioner**

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**Draw Down Schedule for Calculation of IDC & Financing Charges**

Name of Transmission Licensee : Chhattisgarh State Power Transmission Co. Ltd.  
 Name of Region: Western Region  
 Name of the Project: Given Below  
 Name of the Transmission Element: EHV Lines

(Amount Rs. Lacs)

S.N.	Draw Down Particulars	Quarter 1			Quarter 2			Quarter n (COD)		
		Quantum in Foreign currency	Exchange rate on draw down date	Amount in Indian Rupee	Quantum in Foreign currency	Exchange rate on draw down date	Amount in Indian Rupee	Quantum in Foreign currency	Exchange rate on draw down date	Amount in Indian Rupee
<b>1</b>	<b>Loan</b>									
<b>1.1</b>	<b>Foreign Loans</b>									
<b>1.1.1</b>	<b>Foreign Loan 1</b>									
	Draw down amount									
	IDC									
	Financing charges									
	Foreign exchange rate variation									
	Hedging cost									
<b>1.1.2</b>	<b>Foreign Loan 2</b>									
	Draw down amount									
	IDC									
	Financing charges									
	Foreign exchange rate variation									
	Hedging cost									
<b>1.1.3</b>	<b>Foreign Loan 3</b>									
	Draw down amount									
	IDC									
	Financing charges									
	Foreign exchange rate variation									
	Hedging cost									
<b>1.1.4</b>	--									
	--									
<b>1.1</b>	<b>Total Foreign Loans</b>									
	Draw down amt									
	IDC									
	Financing charges									
	Foreign exchange rate variation									
	Hedging cost									
<b>1.2</b>	<b>Indian Loans</b>									

Not Applicable  
(Old Works)

*pn*  
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<b>1.2.1</b>	<b>Indian Loan 1</b>	
	Draw down amt	
	IDC	
	Financing charges	
<b>1.2.2</b>	<b>Indian Loan 2</b>	
	Draw down amt	
	IDC	
	Financing charges	
<b>1.2.3</b>	<b>Indian Loan 3</b>	
	Draw down amt	
	IDC	
	Financing charges	
<b>1.2.3</b>	--	
	--	
<b>1.2</b>	<b>Total Indian Loans</b>	
	Draw down amt	
	IDC	
	Financing charges	
<b>1</b>	<b>Total of loans drawn</b>	
	IDC	
	Financing charges	
	Foreign exchange rate variation	
	Hedging cost	
<b>2</b>	<b>Equity</b>	
<b>2.1</b>	<b>Foreign equity drawn</b>	
<b>2.2</b>	<b>Indian equity drawn</b>	
	<b>Total equity deployed</b>	

Not Applicable  
(Old Works)

- Note: 1. Drawal of debt and equity shall be on paripassu basis quarter wise to meet the commissioning schedule. Drawal equity in the beginning is permissible.
2. Applicable interest rates including reset dates used for above computation may be furnished separately.
3. In case of multi-unit project details of capitalization ratio used to be furnished.

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**Breakup of Initial Spares**

Name of Transmission Licensee : Chhattisgarh State Power Transmission Co. Ltd.  
Name of Region: Western Region  
Name of the Project: Given below  
Name of the Transmission Element: EHV Lines

Breakup of Initial Spares	Not Applicable
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**Other Income as on COD**

Name of Transmission Licensee : Chhattisgarh State Power Transmission Co. Ltd.  
Name of Region: Western Region  
Name of the Project: Given below  
Name of the Transmission Element: EHV Lines

Other Income as on COD	Not Applicable
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**Petitioner**

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**Actual cash expenditure**

Name of Transmission Licensee : Chhattisgarh State Power Transmission Co. Ltd.  
 Name of Region: Western Region  
 Name of the Project: Given below  
 Name of the Transmission Element: EHV Lines

	Quarter-I	Quarter-II	Quarter-III	Quarter-n (COD)
Payment to contractors/suppliers	NA	NA	NA	NA
% of fund deployment	NA	NA	NA	NA

**Note:** If there is variation between payment and fund deployment justification need to be furnished.

  
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