

Petition No. ....



**DAMODAR VALLEY CORPORATION**

**TRANSMISSION & DISTRIBUTION**

**TRUE-UP PETITION FOR THE PERIOD FROM 01.04.2019  
TO 31.03.2024**

**AND**

**PROVISIONAL TARIFF PETITION FOR THE PERIOD FROM  
01.04.2024 TO 31.03.2029**

**BEFORE THE HONOURABLE CENTRAL ELECTRICITY REGULATORY  
COMMISSION  
3<sup>RD</sup> AND 4<sup>TH</sup> FLOOR, CHANDERLOK BUILDING,  
36 JANPATH, NEW DELHI.**

**PETITION NO. .... OF 2024**

**IN THE MATTER OF:**

Petition under Sections 62(1)(b) & 79(1)(d) of the Electricity Act, 2003 and Regulation - 86 of CERC (Conduct of Business) Regulations, 1999 and Regulations -10(1) and 13 of CERC Tariff Regulations' 2019 for truing up of capital expenditure for the tariff period 2019-24

**AND IN THE MATTER OF:**

Petition under Sections 62(1)(b) & 79(1)(d) of the Electricity Act, 2003 and Regulation - 86 of CERC (Conduct of Business) Regulations, 1999 and Regulations -10(1) and 12 of CERC Tariff Regulations' 2024 for the tariff period 2024 – 29

in respect of 'Non-ISTS 400 kV Transmission Lines carrying ISTS Power' [S/C LILO of 400 KV D/C Durgapur (PG) – Jamshedpur (PG) at DSTPS; S/C LILO of 400 KV D/C Maithon (PG) – Ranchi (PG) at RTPS, D/C 400 KV DSTPS – RTPS, D/C 400 KV RTPS – Ranchi (PG)] of Damodar Valley Corporation .

Damodar Valley Corporation  
DVC Towers, VIP Road, Kolkata

.....Petitioner

**Versus**

1. West Bengal State Electricity Distribution Company Limited.  
(Previously West Bengal State Electricity Board )  
Block `DJ`Sector-11, Salt Lake City,  
Kolkata – 700 091.
2. Jharkhand Bijli Vitran Nigam Limited  
Previously Jharkhand State Electricity Board  
Engineering Building, HEC, Dhurwa,  
Ranchi-- 834 004.
3. Punjab State Power Corporation Limited,  
(Erstwhile Punjab State Electricity Board)  
Interstate Billing, Shed No. TI-A), Patiala-147 001
4. Kerala State Electricity Board Limited ,  
8th Floor, Vidyuthi Bhawan,  
Thiruvananthapuram-695 004



5. Haryana Power Purchase Centre  
Representing Uttar Haryana Bijlee Vitaran Nigam  
Limited and Dakshin Haryana Bijlee Vitaran Nigam  
Sector 6, Shakti Bhawan, Panchkula, Haryana-134109

6. Bengaluru Electricity Supply Company Limited,  
K.R.Circle, Bangalore-560001

.....Respondents.



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**BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

**PETITION NO.        / TT / 2024**

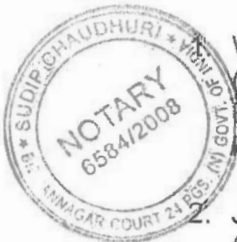
**IN THE MATTER OF:-** Petition Under Section 62 and 79 (1) (d) of the Electricity Act, 2003 read with Chapter-3, Regulation 13 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for **truing up of annual fixed charges for the period 2019-24** in respect of **Non-ISTS 400kV Transmission Lines carrying ISTS Power** of Damodar Valley Corporation.

**AND IN THE MATTER OF:-**

Damodar Valley Corporation  
DVC Towers, VIP Road,  
Kolkata -700 054

..... Petitioner

**VERSUS**



1. West Bengal State Electricity Distribution Company Limited.  
(Previously West Bengal State Electricity Board)  
Block 'DJ', Sector-II, Salt Lake City,  
Kolkata – 700 091.
  2. Jharkhand Bijli Vitran Nigam Limited  
(Previously Jharkhand State Electricity Board)  
Engineering Building, HEC, Dhurwa,  
Ranchi - 834 004.
  3. Punjab State Power Corporation Ltd  
Interstate Billing, Shed No. TI -A,  
Patiala-147001
  4. Kerala State Electricity Board  
8th Floor, Vydyuthi Bhawan  
Thiruvananthapuram-695004
  5. Haryana Power Purchase Centre  
(Erstwhile Haryana Power Generation Corporation Limited)  
Shakti Bhawan, Sector-6  
Panchkula-134109
  6. Bangalore Electricity Supply Company  
K.R. Circle, Bangalore-506001
- & Ors.

..... Respondents

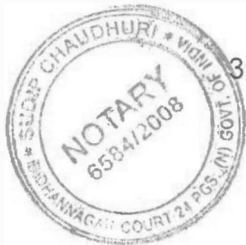
25 NOV 2024



**AFFIDAVIT VERIFYING THE PETITION**

I, Shri Samit Mandal, son of Sri Biman Mandal, aged 51 years, Senior General Manager (Commercial), residing at F-II/27, Kanishka Road, Post- Durgapur, DS Township, A-Zone, West Bengal do hereby solemnly affirm and state as follows:-


1. That the deponent is the Senior General Manager (Commercial) of Damodar Valley Corporation, the Petitioner, and is well conversant with the facts and the circumstances of the case and therefore competent to swear this Affidavit verifying the Petition.
2. That the accompanying Petition under Section 62 and 79(1)(d) of the Electricity Act, 2003, has been filed by my authorised representative/nominated counsel under my instruction and the contents of the same are true and correct to the best of my knowledge and belief.
3. That the contents of **Para 1 to 22.** of the facts as mentioned in the Petition are true and correct based on the my personal knowledge, belief and records maintained in the office and the contents of Para 1 to 22 of the Petition are believed to be true on the basis of the legal advice received.
4. That the annexures annexed to the Petition are correct and true copies of the respective originals.
5. That the Deponent has not filed any other Petition or Appeal before any other forum or court of law with respect to the subject matter of the dispute.



  
**DEPONENT**

**VERIFICATION**

Verified at Kolkata on this <sup>25<sup>th</sup></sup> day of November 2024 that the contents of my above noted Affidavit verifying the Petition are true and correct to my knowledge and no part of it is false and nothing material has been concealed therefrom.

  
**S. CHAUDHURI**  
★ NOTARY ★  
GOVT. OF INDIA  
Regd. No.-6584/08  
Bidhanagar Court  
Dist.-North 24 Pgs.

Identified by me  
  
Advocate

  
**DEPONENT**

25 NOV 2024 6

**MANOJ BASU**  
Advocate  
Enrolment No.-F-247/2006  
Bidhan Nagar Court



**BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

**PETITION NO.         / TT / 2024**

**IN THE MATTER OF:-** Petition Under Section 62 and 79 (1) (d) of the Electricity Act, 2003 read with Chapter-3, Regulation 9 (2) and 10 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 for **determination of tariff for the period 2024-29** in respect of **Non-ISTS 400kV Transmission Lines carrying ISTS Power** of Damodar Valley Corporation.

**AND IN THE MATTER OF:-**

Damodar Valley Corporation  
DVC Towers, VIP Road,  
Kolkata -700 054

..... Petitioner

**VERSUS**



1. West Bengal State Electricity Distribution Company Limited.  
(Previously West Bengal State Electricity Board)  
Block 'DJ', Sector-II, Salt Lake City,  
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  2. Jharkhand Bijli Vitran Nigam Limited  
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Engineering Building, HEC, Dhurwa,  
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  3. Punjab State Power Corporation Ltd  
Interstate Billing, Shed No. TI -A,  
Patiala-147001
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  5. Haryana Power Purchase Centre  
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Shakti Bhawan, Sector-6  
Panchkula-134109
  6. Bangalore Electricity Supply Company  
K.R. Circle, Bangalore-506001
- & Ors.

..... Respondents

25 NOV 2024



### AFFIDAVIT VERIFYING THE PETITION

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1. That the deponent is the Senior General Manager (Commercial) of Damodar Valley Corporation, the Petitioner, and is well conversant with the facts and the circumstances of the case and therefore competent to swear this Affidavit verifying the Petition.
2. That the accompanying Petition under Section 62 and 79(1)(d) of the Electricity Act, 2003, has been filed by my authorised representative/nominated counsel under my instruction and the contents of the same are true and correct to the best of my knowledge and belief.
3. That the contents of Para 1 to 22. of the facts as mentioned in the Petition are true and correct based on the my personal knowledge, belief and records maintained in the office and the contents of Para 1 to 22 of the Petition are believed to be true on the basis of the legal advice received.
4. That the annexures annexed to the Petition are correct and true copies of the respective originals.
5. That the Deponent has not filed any other Petition or Appeal before any other forum or court of law with respect to the subject matter of the dispute.



  
DEPONENT

### VERIFICATION

Verified at Kolkata on this <sup>25<sup>th</sup></sup> day of November 2024 that the contents of my above noted Affidavit verifying the Petition are true and correct to my knowledge and no part of it is false and nothing material has been concealed therefrom.

  
S. CHAUDHURI  
\* NOTARY \*  
GOVT. OF INDIA  
Regd. No.-6584/08  
Bidhan Nagar Court  
Dist.-North 24 Pgs.

25 NOV 2024

Identified by me

  
Advocate

MANOJ BASU  
Advocate  
Enrolment No.-F-247/2006  
Bidhan Nagar Court  
Kolkata-700091

  
DEPONENT





दामोदर घाटी निगम  
**DAMODAR VALLEY CORPORATION**

वाणिज्यिक विभाग / **COMMERCIAL DEPARTMENT**

DVC TOWERS: VIP ROAD, KOLKATA- 700054.

PHONE:033-23557931

No.Coml/Office Order/ 533


Dated: 28 SEP 2023

**OFFICE ORDER**

In terms of Serial No.19 of Delegation of Administrative Power of Commercial Department, 2018, following officers of the Commercial Department, DVC, Kolkata are henceforth authorized to sign all the documents and affidavits for submission to appropriate Regulatory Commissions, Appellate Tribunal, NCLT, NCLAT and any other Court of Law/Statutory Bodies including reply to draft regulations etc. and to act as an administrator as per requirement of Electricity Regulatory Commissions in the process of registration or e-filing :

1. Shri Arun Patra, Senior General Manager(Commercial),
2. ☒ Shri Samit Mandal, General Manager(Commercial),
3. Shri Samrat Bhowmik, Deputy.General Manager(Commercial)
4. Shri Chandan Kumar, Senior Manager(Commercial),
5. Shri Prasenjit Mandal, Senior Manager(Commercial)

This Office Order will remain effective till any further order is issued in this regard. This Office Order supersedes earlier office order in this respect.

  
(S.Ghosal))

Executive Director(Commercial)

Disgtribution :

- All concerned officials.

Copy to :

1. The Executive Director (Operation), DVC Kolkata.
2. The Executive Director (System), DVC, Kolkata.
3. The Executive Director (Projects), DVC, Kolkata.
4. The Executive Director (Finance), DVC, Kolkata.
5. The Additional Secretary, DVC, Kolkata.
6. The Sr.PS to Chairman, DVC, Kolkata.
7. The Sr.PS to Member(Secretary), DVC, Kolkata.
8. The Sr.PS to Member(Tech), DVC, Kolkata.
9. The Sr.PS to Member(Finance), DVC, Kolkata.
10. The Sr.PS to Chief Vigilance Officer, DVC, Kolkata.





**DAMODAR VALLEY CORPORATION  
COMMERCIAL DEPARTMENT  
DVC TOWERS, VIP ROAD  
KOLKATA – 700054**

**Phone : 033-23557931/6041**

No. ED/Coml./Tariff/Copy Service/ 1524

**Fax : 033-2355 2129**

Date: 25.11.2024

**Subject:** Submission of True-up Tariff Petition for the period 2019-24 in respect of Non-ISTS 400kV Transmission Lines carrying ISTS Power of Damodar Valley Corporation before CERC.

Dear Sir,

As per CERC Tariff Regulation, 2024-29, DVC is going to submit the Truing-up Tariff Petition for the period 2019-24 in respect of the Non-ISTS 400kV Transmission Lines carrying ISTS Power of Damodar Valley Corporation.

One copy of the said Petition is enclosed herewith for your kind perusal.

*Samit Mandal*  
Yours faithfully,

Senior General Manager (Commercial)  
Damodar Valley Corporation.

Encl.: As stated above.

वरिष्ठ महाप्रबंधक (वाणि.)  
Sr. General Manager (Coml.)  
डी.वी.सी., कोलकाता 54  
DVC, Kolkata-54

**Copy to:**

1. West Bengal State Electricity Distribution Company Limited.  
(Previously West Bengal State Electricity Board)  
Block 'DJ', Sector-II, Salt Lake City,  
Kolkata – 700 091.  
E-mail: cereg.wbsedcl@gmail.com
2. Jharkhand Bijli Vitran Nigam Limited  
(Previously Jharkhand State Electricity Board)  
Engineering Building, HEC, Dhurwa,  
Ranchi - 834 004.  
E-mail: juvnldelhi@gmail.com
3. Punjab State Power Corporation Ltd  
Interstate Billing, Shed No. TI -A,  
Patiala-147001  
E-mail: seisbpspcl@gmail.com





**DAMODAR VALLEY CORPORATION  
COMMERCIAL DEPARTMENT  
DVC TOWERS, VIP ROAD  
KOLKATA - 700054**

**Phone : 033-23557931/6041**

**Fax : 033-2355 2129**

No. ED/Coml./Tariff/Copy Service/ 1525

Date: 25.11.2024

**Subject:** Submission of Provisional Tariff Petition for the period 2024 – 29 in respect of Non-ISTS 400kV Transmission Lines carrying ISTS Power of Damodar Valley Corporation before CERC.

Dear Sir,

As per CERC Tariff Regulation, 2024-29, DVC is going to submit the Provisional Tariff Petition for the period 2024 – 29 in respect of the Non-ISTS 400kV Transmission Lines carrying ISTS Power of Damodar Valley Corporation.

One copy of the said Petition is enclosed herewith for your kind perusal.

Yours faithfully,

*Samit Mandal*

Senior General Manager (Commercial)  
Damodar Valley Corporation.

Enclo.: As stated above.

**Copy to:**

1. West Bengal State Electricity Distribution Company Limited.  
(Previously West Bengal State Electricity Board)  
Block 'DJ', Sector-II, Salt Lake City,  
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Engineering Building, HEC, Dhurwa,  
Ranchi - 834 004.  
E-mail: juvnldelhi@gmail.com
3. Punjab State Power Corporation Ltd  
Interstate Billing, Shed No. TI -A,  
Patiala-147001  
E-mail: seisbpspcl@gmail.com

वरिष्ठ महाप्रबंधक (वाणि.)  
Sr. General Manager (Coml.)  
डी.वी.सी., कोलकाता-54  
DVC, Kolkata-54



**PETITION UNDER SECTIONS 62, 64 AND 79(1) ((d) OF THE ELECTRICITY ACT 2003**  
**READ WITH THE APPLICABLE REGULATIONS NOTIFIED BY THE HON'BLE COMMISSION**  
**AND THE DVC ACT**

**MOST RESPECTFULLY SHOWETH:**

- 1) The Petitioner, Damodar Valley Corporation (hereinafter referred to as 'DVC') is a statutory body constituted under the provisions of the Damodar Valley Corporation Act, 1948 (hereinafter referred to as the 'DVC Act'), a Central Act and Special Legislation dealing with the development of Damodar Valley falling within the territories of the State of West Bengal and the State of Jharkhand (previously the combined State of Bihar before its reorganization under the Bihar Reorganization Act, 2000).
- 2) DVC has multifarious functions in the Damodar Valley. The activities of DVC are not restricted to generation, transmission and distribution & retail sale of electricity. DVC is also engaged in several activities, in terms of Section 12 of the DVC Act, 1948 and subsequent amendments thereafter, where no significant revenue accrues to DVC.
- 3) DVC is running various power stations, substations, and receiving stations situated at different locations in its operational area falls in the two contiguous states namely the states of West Bengal and Jharkhand (erstwhile Bihar). The transmission and Distribution network of DVC is interconnected at these power stations, substations, and receiving stations at different voltage levels.

**PART-A: TRUE-UP PETITION FOR THE PERIOD 2019-24**

- 4) As per the decision taken in the 35th ERPC & TCC meeting DVC has filed a separate petition number 334/TT/2018 for determination of tariff in respect of 'Non-ISTS 400 kV Transmission Lines carrying ISTS Power' [(i) S/C LILO of 400 KV D/C Durgapur (PG) – Jamshedpur (PG) at DSTPS; (ii) S/C LILO of 400 KV D/C Maithon (PG) – Ranchi (PG) at RTPS, (iii) D/C 400 KV DSTPS – RTPS, (iv) D/C 400 KV RTPS – Ranchi (PG)] owned and operated by DVC. DVC has filed the above tariff petition based on the admitted capital cost as of 31.03.2014 and year-wise actual capital capitalization for the period from 01/04/2014 to 31/03/2017 for tariff determination for the period 2017-19.
- 5) Thereafter DVC filed Petition No 466/TT/2020 for Trueing-up of the 2017-19 Period and tariff determination for the 2019-24 period. Hon'ble Commission kindly issued an order on **28.02.2022**



- 6) DVC submits that as per Tariff Regulation 2024, a True-up Tariff petition is to be filed within 30/11/2024.

Accordingly, DVC is filing this True-up petition complying with the timeline fixed by the Hon'ble Commission.

- 7) The additional capital expenditure as claimed and submitted by DVC during the 2019-24 period which is allowed by the Hon'ble Commission in petition no 466/TT/2020 in respect of 400 kV Transmission Lines are as below:

(Rs. In Lakh)

Name of Transmission Line	2019-20	2020-21	2021-22	2022-23	2023-24
Single Circuit LILO of 400 KV D/C Durgapur (PG) – Jamshedpur (PG) at DSTPS --- Twin Moose Conductor	-	-	-	-	-
Single Circuit LILO of 400 KV D/C Maithon (PG) – Ranchi(PG) at RTPS	-	-	-	-	-
Double Circuit 400 KV DSTPS - RTPS - -- Twin Moose	-	-	-	-	-
Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor	100	300	400	-	-

- 8) DVC submits herewith the Petition the Form-7 filled-up based on the actual additional capital expenditure during the FY: 2019-24 period along with detailed justification for the kind consideration of the Hon'ble Commission. The details of the additional capitalization incurred against each lines are furnished as under:



(Rs. In Lakh)

Name of Transmission Line	2019-20	2020-21	2021-22	2022-23	2023-24
Single Circuit LILO of 400 KV D/C Durgapur (PG) – Jamshedpur (PG) at DSTPS --- Twin Moose Conductor	-	-	-	-	-
Single Circuit LILO of 400 KV D/C Maithon (PG) – Ranchi(PG) at RTPS	-	-	-	-	-
Double Circuit 400 KV DSTPS - RTPS -- - Twin Moose	-	-	-	-	-
Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor	443.07	-	235.45	295.6	53.56

- 9) The certification of the Auditor reconciling the total capital cost of the entire T&D System with books of account vis-a-vis capital cost shown separately against 400 kV Transmission Lines are placed in **Annexure-A** .
- 10) DVC humbly submits to consider and allow additional capitalization and other costs as actually incurred by DVC for the period 2019-24 and as claimed as per the provision that exists within the Regulation as well as in the formats attached to the petition and also by providing necessary relaxation in terms of Regulation 76 and 77, wherever applicable and further by applying the provisions of Part IV of the DVC Act, 1948.
- 11) It is respectfully submitted that the Central Commission has already provided Regulation 72 as a special provision relating to Damodar Valley Corporation which shall apply for the determination of tariff of the projects owned by Damodar Valley Corporation. The tariff filing forms for this true up petition have been prepared following the above Regulations.



12) The tariff filing forms, as explained above, have been prepared and enclosed herewith as **Annexure - B to Annexure - E.**

13) **Additional Claims (Refinance Cost and finance charge):**

DVC humbly submits a claim against retaining savings against refinance costs and finance charges as per the provision within the Regulation. The claim is placed in **Appendix – 3 of (Annexure- B to Annexure – E).**

14) **Annual Fixed Charge:**

The Annual Fixed Charge as claimed by DVC in the instant true-up petition, for the period from FY 2019-20 to FY 2023-24 is furnished as under:

(Rs. In Lakh)

NAME OF THE 400 KV TRANSMISSION LINE -'NON-ISTS LINE' CARRYING 'ISTS POWER'	2019-20	2020-21	2021-22	2022-23	2023-24
Single Circuit LILO of 400 KV D/C Durgapur (PG) – Jamshedpur (PG) at DSTPS --- Twin Moose Conductor	227.34	223.18	214.23	213.30	216.04
Single Circuit LILO of 400 KV D/C Maithon (PG) – Ranchi(PG) at RTPS	468.23	454.62	428.89	422.86	425.28
Double Circuit 400 KV DSTPS - RTPS --- Twin Moose	2774.45	2670.81	2492.46	2439.95	2437.79
Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor	8698.77	8407.86	7821.78	7688.01	7714.44

( PART-A consists of (i) Return on Equity, (ii) Depreciation, (iii) Interest on Loan, (iv) Normative O&M, and (v) Interest on working capital

PART-B consists of Refinancing and Finance charges)

Recovery of PART-B may be made irrespective of the availability of Element.



- 15) It is further submitted that levies, taxes, duties, RLDC Charges, service tax etc. that may be charged or levied by various authorities on DVC including fees paid by DVC to this Hon'ble Commission in this petition, shall be charged by DVC to the beneficiaries or consumers of electricity.
- 16) Filing fees for MYT tariff determination have already been paid for the years 2019-24 period as per the provisions of CERC (Payment of Fees), Regulation 2008 / 2012. Accordingly, no fee is payable along with this petition for revision of the tariff.

**PART-B: TARIFF PETITION FOR THE PERIOD 2024-29**

- 17) DVC is now filing the instant tariff petition for the 2024-29 period, based on the projected additional capital expenditure during the period from FY:2024-25 to FY:2028-29. The tariff filing Form-7 along with detailed justification has been filled up and submitted herewith for the kind consideration of the Hon'ble Commission. The details of the expenditure under additional capitalization proposed to be incurred years are furnished as under :

(Rs. In Lakh)

<b>Projected Additional Capital Expenditure (Rs in Lakh) Claimed in this petition during the Tariff Period 2024-29</b>					
<b>Name of Transmission Line</b>	<b>2024-25</b>	<b>2025-26</b>	<b>2026-27</b>	<b>2027-28</b>	<b>2028-29</b>
Single Circuit LILO of 400 KV D/C Durgapur (PG) – Jamshedpur (PG) at DSTPS --- Twin Moose Conductor	-	-	-	-	-
Single Circuit LILO of 400 KV D/C Maithon (PG) – Ranchi(PG) at RTPS	-	-	-	-	-
Double Circuit 400 KV DSTPS - RTPS --- Twin Moose	-	-	-	-	-
Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor	-	-	-	-	-



- 18) It is respectfully submitted that the Central Commission has already provided Regulation 96 as a special provision relating to Damodar Valley Corporation which shall apply to the determination of tariff of the projects owned by Damodar Valley Corporation. The tariff filing forms for this petition have been prepared in accordance with the above Regulations.
- 19) In terms of the provisions of CERC (Terms and Conditions of Tariff) Regulations, 2024, the tariff filing forms, as explained above, have been prepared and enclosed herewith as **(Annexure- F to Annexure – I)**.
- 20) Annual fixed charges (AFC) worked out for the period 01.04.2024 to 31.03.2029 based on the Central Electricity Regulatory Commission (Terms & Conditions of Tariff) Regulations, 2024, in respect of individual 400 kV Transmission Line wise which are declared as 'Non-ISTS Lines carrying ISTS Power' as under: **(Refer Form-1 of Annexure- F to Annexure - I)**.

(Rs. In Lakh)

Single Circuit LILO of 400 KV D/C <b>Durgapur (PG) – Jamshedpur (PG) at DSTPS</b> --- Twin Moose Conductor						
S. no.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
(a)	<b>PART-A</b>	192.46	191.35	190.43	189.69	189.15
(b)	<b>PART-B</b>	2.51	2.01	1.51	1.00	0.50
	<b>Grand Total (a+b)</b>	<b>194.97</b>	<b>193.36</b>	<b>191.93</b>	<b>190.69</b>	<b>189.64</b>



(Rs. In Lakh)

Single Circuit LILO of 400 KV D/C <b>Maithon (PG) – Ranchi(PG) at RTPS DSTPS</b> --- Twin Moose Conductor						
S. no.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
(a)	<b>PART-A</b>	389.22	381.67	374.31	367.16	360.23
(b)	<b>PART-B</b>	6.31	5.05	3.79	2.54	1.28
	<b>Grand Total (a + b )</b>	<b>395.54</b>	<b>386.73</b>	<b>378.11</b>	<b>369.70</b>	<b>361.51</b>

(Rs. In Lakh)

Single Circuit LILO of <b>400 KV Double Circuit DSTPS - RTPS</b> --- Twin Moose Conductor.						
S. no.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
(a)	<b>PART-A</b>	2276.42	2209.03	2142.11	2075.70	2032.50
(b)	<b>PART-B</b>	33.86	25.22	16.6	7.9	1.8
	<b>GrandTotal (a + b )</b>	<b>2310.29</b>	<b>2234.24</b>	<b>2158.68</b>	<b>2083.62</b>	<b>2034.30</b>



(Rs. In Lakh)

Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor						
S. no.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
(a)	<b>PART-A</b>	7252.58	7019.97	6788.00	6556.77	6326.73
(b)	<b>PART-B</b>	139.33	111.73	84.14	56.54	28.94
	<b>GrandTotal (a + b)</b>	<b>7391.91</b>	<b>7131.70</b>	<b>6872.14</b>	<b>6613.31</b>	<b>6355.67</b>

( PART-A consists of (i) Return on Equity, (ii) Depreciation , (iii) Interest on Loan, (iv) Normative O&M and (v) Interest on working capital

PART-B consists of Refinancing and Finance charges)

Recovery of PART-B may be made irrespective of availability of Element.

- 21) It is further submitted that levies, taxes, duties, RLDC Charges, service tax etc. that may be charged or levied by various authorities on DVC including fees paid by DVC to this Hon'ble Commission in this petition, shall be charged by DVC to the beneficiaries or consumers of electricity.
- 22) Filing fees for determination of tariff has already been paid for the years 2019 – 20 as per provisions of CERC (Payment of Fees), Regulation 2008 / 2012. Accordingly, no fee is payable along with this petition.



## PRAYER

### **PART-A: TRUE-UP PETITION FOR THE PERIOD 2019-24**

In the light of the above submissions, the petitioner respectfully prays before the Hon'ble Commission to:

- (a) Admit the present True-up Petition and determine the Capital cost, Debt, and Equity in respect of four nos. of 400 KV TRANSMISSION LINEs ('NON-ISTS LINE' CARRYING 'ISTS POWER') of DVC network for the period 01.04.2019 to 31.03.2024;
- (b) Determine the final tariff for the four nos. of 400 KV TRANSMISSION LINEs ('NON-ISTS LINE' CARRYING 'ISTS POWER') of the DVC network for the period 01.04.2019 to 31.03.2024 considering actual expenditure as furnished in the instant petition.
- (c) DVC craves leave to resubmit the claim along with additional information/data/document based on the decision of the Commission, if any is required;
- (d) Allow additional claim of DVC against cost of refinancing and finance charges claimed in PART-B of the AFC;
- (e) Consider the capital and other costs as proposed by DVC in the petition as well as in the formats attached to the petition by providing necessary relaxation in terms of Regulation 76 and 77, wherever applicable and further by applying the provisions of Regulations 72 of Part IV of the DVC Act, 1948;
- (f) Allow DVC to recover shortfall or refund the levies, filing fees, taxes, duties, cess, charges, fees etc., if any, excess Annual Fixed Charges, on account of Return on Equity due to change in applicable Minimum Alternate/Corporate Income Tax rate as per Income Tax Act, 1961 (as amended from time to time) of the respective financial year directly without the need to make any further application before the Commission as provided under clause 31 of the Tariff Regulation 2019;
- (g) The Tariff for Transmission of Electricity (Annual Fixed Charges) as per para 14 of the petition, in accordance with Regulation 57 Central Electricity Regulatory Commission (Terms and Condition of Tariff) Regulations, 2019. These charges shall be recovered every month and the billing collection and disbursement shall be governed by provisions of Central Electricity Regulatory Commission (sharing of interstate Transmission Charges and Losses) Regulations;
- (h) In the circumstances mentioned above it will be just and proper that the transmission tariff for the assets covered under this petition be allowed to be recovered from beneficiaries by considering the tariff determined herein by this Hon'ble Commission or as deemed fit by Hon'ble Commission;



- (i) Pass such further order or orders as this Hon'ble Commission may deem just and proper in the facts and circumstances of the case.

**PART-B: TARIFF PETITION FOR THE PERIOD 2024-29**

In the light of the above submissions, the petitioner respectfully prays before the Hon'ble Commission to:

- (a) Determine the tariff for the four nos. of 400 KV TRANSMISSION LINEs ('NON-ISTS LINE' CARRYING 'ISTS POWER' ) DVC network for the period 01.04.2024 to 31.03.2029 considering projected capital expenditure as furnished in the instant petition;
- (b) Allow additional claim of DVC against cost of refinancing and finance charges a claimed in PART-B of the AFC;
- (c) Consider the capital and other costs as proposed by DVC in the petition as well as in the formats attached to the petition by providing necessary relaxation in terms of Regulations 102 and 103, wherever applicable, and further by applying the provisions of Regulations 96 and Part IV of the DVC Act, 1948;
- (d) Allow DVC to recover shortfall or refund the levies, filing fees, taxes, duties, cess, charges, fees etc., if any, excess Annual Fixed Charges, on account of Return on Equity due to change in applicable Minimum Alternate/Corporate Income Tax rate as per Income Tax Act. 1961 (as amended from time to time) of the respective financial year directly without the need to make any further application before the Commission.
- (e) In the circumstances mentioned above it will be just and proper that the transmission tariff for the assets covered under this petition be allowed to be recovered from beneficiaries every month by considering the tariff determined herein by this Hon'ble Commission or as deemed fit by the Hon'ble Commission;
- (f) With effect from 1.11.2020, (after the repeal of the 2010 Sharing Regulations), sharing of transmission charges is governed by the 2020 Sharing Regulations. Accordingly, the transmission charges determined shall be recovered from the concerned DICs through Bills under Regulation 15(2)(b) of the 2020 Sharing Regulations following the provisions of respective Tariff Regulations and Sharing Regulations.
- (g) Pass such further order or orders as this Hon'ble Commission may deem just and proper in the facts and circumstances of the case.

Kolkata

**PETITIONER**  
**DAMODAR VALLEY CORPORATION**

DATED: .11.2024



**BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

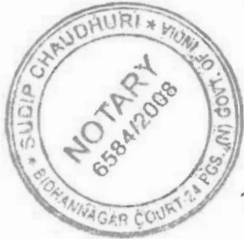
**PETITION NO.            / TT / 2024**

**IN THE MATTER OF:-** Petition Under Section 62 and 79 (1) (d) of the Electricity Act, 2003 read with Chapter-3, Regulation 13 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for **truing up of annual fixed charges for the period 2019-24** in respect of **Non-ISTS 400kV Transmission Lines carrying ISTS Power** of Damodar Valley Corporation.

**AND IN THE MATTER OF:-**

Damodar Valley Corporation  
DVC Towers, VIP Road,  
Kolkata -700 054

..... Petitioner



**VERSUS**

1. West Bengal State Electricity Distribution Company Limited.  
(Previously West Bengal State Electricity Board)  
Block 'DJ', Sector-II, Salt Lake City,  
Kolkata – 700 091.
  2. Jharkhand Bijli Vitran Nigam Limited  
(Previously Jharkhand State Electricity Board)  
Engineering Building, HEC, Dhurwa,  
Ranchi - 834 004.
  3. Punjab State Power Corporation Ltd  
Interstate Billing, Shed No. TI -A,  
Patiala-147001
  4. Kerala State Electricity Board  
8th Floor, Vydyuthi Bhawan  
Thiruvananthapuram-695004
  5. Haryana Power Purchase Centre  
(Erstwhile Haryana Power Generation Corporation Limited)  
Shakti Bhawan, Sector-6  
Panchkula-134109
  6. Bangalore Electricity Supply Company  
K.R. Circle, Bangalore-506001
- & Ors.

..... Respondents

25 NOV 2024



**AFFIDAVIT VERIFYING THE PETITION**

I, Shri Samit Mandal, son of Sri Biman Mandal, aged 51 years, Senior General Manager (Commercial), residing at F-II/27, Kanishka Road, Post- Durgapur, DS Township, A-Zone, West Bengal do hereby solemnly affirm and state as follows:-

1. That I am the authorized representative of the Petitioner company and I am well conversant with the facts and the circumstances of the case and therefore competent to swear this Affidavit.
2. That I have read the contents of the accompanying Petition being filed by the Petitioner and have understood the same.
3. That the contents of the accompanying Petition being filed by the Petitioner are based on information available with the Petition in the normal course of business and believed by me to be true.



**DEPONENT**

**VERIFICATION**

I, the deponent above named, do hereby verify that the contents of the above affidavit are true and correct to the best of my knowledge and no part of it is false and nothing material has been concealed therefrom.

Verified at Kolkata on this 25<sup>th</sup> day of November, 2024

**S. CHAUDHURI**  
★ NOTARY ★  
GOVT. OF INDIA  
Regd. No.-6584/08  
Bidhannagar Court  
Dist.-North 24 Pgs.

**DEPONENT**

Identified by me

**Advocate**

25 NOV 2024

**MANOJ BAS**  
Advocate  
Enrolment No.-F-247/21  
Bidhan Nagar Court  
Kolkata-700091



**BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

**PETITION NO.        / TT / 2024**

**IN THE MATTER OF:-** Petition Under Section 62 and 79 (1) (d) of the Electricity Act, 2003 read with Chapter-3, Regulation 9 (2) and 10 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 for **determination of tariff for the period 2024-29** in respect of **Non-ISTS 400kV Transmission Lines carrying ISTS Power** of Damodar Valley Corporation.

**AND IN THE MATTER OF:-**

Damodar Valley Corporation  
DVC Towers, VIP Road,  
Kolkata -700 054

..... Petitioner

**VERSUS**



West Bengal State Electricity Distribution Company Limited.  
(Previously West Bengal State Electricity Board)  
Block 'DJ', Sector-II, Salt Lake City,  
Kolkata – 700 091.

2. Jharkhand Bijli Vitran Nigam Limited  
(Previously Jharkhand State Electricity Board)  
Engineering Building, HEC, Dhurwa,  
Ranchi - 834 004.
3. Punjab State Power Corporation Ltd  
Interstate Billing, Shed No. TI -A,  
Patiala-147001
4. Kerala State Electricity Board  
8th Floor, Vydyuthi Bhawan  
Thiruvananthapuram-695004
5. Haryana Power Purchase Centre  
(Erstwhile Haryana Power Generation Corporation Limited)  
Shakti Bhawan, Sector-6  
Panchkula-134109
6. Bangalore Electricity Supply Company  
K.R. Circle, Bangalore-506001

& Ors.

..... Respondents

25 NOV 2024  
24



### AFFIDAVIT VERIFYING THE PETITION

I, Shri Samit Mandal, son of Sri Biman Mandal, aged 51 years, Senior General Manager (Commercial), residing at F-II/27, Kanishka Road, Post- Durgapur, DS Township, A-Zone, West Bengal do hereby solemnly affirm and state as follows:-

1. That I am the authorized representative of the Petitioner company and I am well conversant with the facts and the circumstances of the case and therefore competent to swear this Affidavit.
2. That I have read the contents of the accompanying Petition being filed by the Petitioner and have understood the same.
3. That the contents of the accompanying Petition being filed by the Petitioner are based on information available with the Petition in the normal course of business and believed by me to be true.



DEPONENT

### VERIFICATION

I, the deponent above named, do hereby verify that the contents of the above affidavit are true and correct to the best of my knowledge and no part of it is false and nothing material has been concealed therefrom.

Verified at Kolkata on this 25<sup>th</sup> day of November, 2024

S. CHAUDHURI  
\*NOTARY\*  
GOVT. OF INDIA  
Regd. No.-6584/08  
Bidhanagar Court  
Dist.-North 24 Pgs.

25 NOV 2024

DEPONENT

Identified by me

Advocate

MANOJ BASU  
Advocate  
Enrolment No.-F-247/2  
Bidhan Nagar Court  
Kolkata-700091.



# ANNEXURE - A



## ARIJIT GHOSH & CO.

Chartered Accountants

H.O.- AE-601, Sec.- I, Salt Lake, Kolkata- 700 064.  
City Office : 65A, Satish Mukherjee Road, 2<sup>nd</sup> Floor,  
Kolkata- 700 026.

Ph. (033) 2334-4818/4060-5207  
Mobile No. 9830778711  
Email – arijitghosh\_co@yahoo.com

### AUDITORS' CERTIFICATE

We have verified the attached statements showing to the effect that all assets under gross block claimed for the purpose of tariff as on 31.03.2024 are in use for generation of power.

We are also gone through data for audited Balance Sheet and Statement of Profit & Loss Account (Audited by Comptroller & Auditor General of India). Books of Accounts, EBA (Enterprise Business Application). Vouchers and such others papers as are necessary for the purpose of our audit.

The statement of Gross Fixed Assets & Depreciation for Transmission & Distribution (T & D) of Damodar Valley Corporation (DVC) for the period 01.04.2019 to 31.03.2024 is attached below. (Appendix-III)

We certify the above figures as correct.

For and on behalf of  
M/s. Arijit Ghosh & Co.



(Chartered Accountant)



Place : Kolkata  
Dated : November 21, 2024

UDIN : 24051673BKEJOC2548



## GFA block

Particulars	Gross Block as on 31.03.2019 (Rs.)	Gross Block as on 31.03.2020 (Rs.)	Gross Block as on 31.03.2021 (Rs.)	Gross Block as on 31.03.2022 (Rs.)	Gross Block as on 31.03.2023 (Rs.)	Gross Block as on 31.03.2024 (Rs.)
Land & Land Rights	2418.42	2640.19	2503.55	2354.78	4095.39	2678.74
Buildings	2479.42	2524.09	2643.07	2643.27	2643.07	2644.14
Roads Bridges & Railway Sidings	20.38	20.38	20.38	20.38	20.38	20.38
Power House Plant & machinery	20.75	4673.28	15594.45	15638.74	15401.69	15379.10
Machinery & Equipment-Workshop (FA)	0.75	0.75	0.75	0.75	0.75	0.75
Substation Equipment	125273.99	127507.67	133338.28	138931.97	164451.25	183203.44
Switch Gear	70.16	139.61	139.61	139.61	139.61	139.61
Tower Poles & Fixtures	103952.32	134906.30	139846.81	148296.70	191815.61	199409.65
Construction Equipment	4.70	4.70	4.70	4.70	4.70	4.70
Other Assets	1603.78	1627.67	1683.99	1803.40	2183.91	2253.84
Assets Held for Disposal (FA)	0.00	0.00	0.00	0.00	0.00	132.56
Expenses Pending Allocation	0.58	0.58	0.58	0.58	0.58	0.54
Total : Tangible Assets	252745.23	274045.20	296176.45	309831.85	381556.93	405868.45
Total : Intangible Assets	-	23.17	23.17	23.17	23.17	23.17
Grand Total : Tangible & Intangible Assets	252745.23	274068.37	296199.62	309855.02	381580.10	405891.62

## Depreciation during the year

Appendix-III

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Land & Land Rights	-	-	-	-	-
Buildings	65.70	66.45	97.99	65.27	62.54
Roads Bridges & Railway Sidings	0.32	0.32	0.25	0.24	0.43
Power House Plant & machinery	165.55	397.54	289.77	197.46	169.82
Machinery & Equipment-Workshop (FA)	-	-	-	-	-
Substation Equipment	6604.62	6998.77	7000.48	7955.96	9803.42
Switch Gear	4.11	3.65	3.65	3.33	3.01
Tower Poles & Fixtures	8073.60	8381.43	8244.56	10086.69	12092.44
Construction Equipment	-	-	-	-	-
Other Assets	147.59	37.56	43.29	103.55	120.08
Assets Held for Disposal (FA)	-	-	-	-	-
Expenses Pending Allocation	-	-	-	-	0.02
Total : Tangible Assets	15062.48	15595.73	15649.99	18412.48	22251.86
Total : Intangible Assets	7.72	7.72	7.72	-	-
Grand Total : Tangible & Intangible Assets	15070.20	15603.46	15657.71	18412.48	22251.86
	5.615%	5.482%	5.176%	5.326%	5.651%



# ARIJIT GHOSH & CO.

Chartered Accountants

H.O.- AE-601, Sec.- I, Salt Lake, Kolkata- 700 064.

City Office : 65A, Satish Mukherjee Road, 2<sup>nd</sup> Floor,  
Kolkata- 700 026.

Ph. (033) 2334-4818/4060-5207

Mobile No. 9830778711

Email – arijitghosh\_co@yahoo.com

## AUDITORS' CERTIFICATE

We have verified the attached statements (Appendix- II, IIA, IIB, IIC & IID) showing capital cost as already allowed by the Central Electricity Regulatory Commission as on 31.03.2019 as well as actual additional capital expenditure during 2019-24 of all Thermal Powers Stations, all Hydel Power Stations, Transmission & Distribution Network and common offices of Damodar Valley Corporation (DVC), DVC Towers, VIP Road, Kolkata- 700 054 with Tariff Orders issued by Central Electricity Regulatory Commission (CERC), the audited Balance Sheets, Tariff Petitions, Books of Accounts, EBA (Enterprise Business Application) vouchers and such other papers as are necessary for the purpose of our audit, forming capital cost as on 31.03.2024.

Based on the above, all the figures as shown in the attached statements in connection with filling of true-up tariff petition for trueing-up of actual expenditures for the tariff period 2019-24 before Central Electricity Regulatory Commission (CERC), are summarized below :

Sl.No.	Particulars	Appendix Ref.	Total Capital Cost as on 01.04.2019 (Rs. In Lakhs)	Total Capital Cost as on 31.03.2024 (Rs. In Lakhs)
1.a	Capital Cost as on 31.03.2024 of all Stations (Except Common Offices)	Appendix-II	3472259.40	3904884.48
1.b.	Capital Cost of Common Offices as on 31.03.2024	Appendix- II	12312.06	16244.23
1 b(i).	Direction office as on 31.03.2024 including R & D	Appendix- IIA	2460.59	2577.24
1 b(ii)	Central office as on 31.03.2024 & IT Software & Data Centre	Appendix- IIB	7462.50	10916.52
1 b (iii)	Other office as on 31.03.2024 including CRITL, CRITM, CSO, CLD	Appendix- IIC	1375.05	1764.12
1.b (iv)	Subsidiary activities as on 31.03.2024	Appendix- IID	1013.91	986.35

We certify the above facts and figures are true & correct.

Place : Kolkata

Dated : November 21, 2024

For and on behalf of

M/s. Arijit Ghosh & Co.



(Chartered Accountant)

Membership No. 051673

Firm Regn. No. 314122E

UDIN : 24051673BKEJOF5294



Opening Capital Cost as allowed by CERC as on 01.04.2019 and Actual Additional Capital Expenditure incurred during 2019-24 as per Annual Accounts of all Thermal Power Stations, Hydel Power Stations and Transmission & Distribution-Network (T&D) of DVC for tariff petition for the tariff period 2019-24

(Rs. in Lakh)

Sl. No.	Particulars	Opening Capital Cost as on 01.04.2019 as allowed by CERC	Actual Additional Capital Expenditure incurred during 2019-24 as per Annual Accounts					Closing Capital Cost as on 31.03.2024
			2019-20	2020-21	2021-22	2022-23	2023-24	
Thermal Power Stations								
1	BTPS(1-3)	36061.87	0	-5160.38	0	0	-15234.06	15667.43
2	BTPS A	329851.1	1946.94	10691.22	15070.04	3452.84	5725.53	366737.67
3	CTPS(1-3)	14555.82	0	-9775.25	0	-4067.31	0	713.26
4	DTPS #4	19713.82	-3573.75	67.85	372.57	-6511.66	-5934.94	4133.89
5	MTPS(1-3)	162434.95						
6	MTPS#4	72346.67		3521.63	3068.61	13875.05	85073.34894	1077035.949
7	MTPS5&6	215530.47						
8	MTPS7&8	513995.01						
9	CTPS#7&8	224364.00	1856.62	528.68	1048.3	7315.8	5330.77	240444.17
10	DSTPS #1&2	535384.11	595.95	3266.77	2377.56	3588.55	1903.06	547116
11	KTPS #1&2	550059.48	1319.65	2448.79	2030.11	25829.56	6078.44	587766.03
12	RTPS #1&2	541740.79	1110.96	80672.05	15816.42	17055.71	8676.49	665072.42
A	Total Thermal Power Stations	3216038.09	10456.58	86261.36	39773.61	60538.54	91,618.64	35,04,686.82
Hydel Power Stations								
	MHS	6364.65	0	107.72	5.69	28.98	31.68	6538.72
	PHS	5203.92	282.21	0	4.01	380.35	2.31	5872.8
	THS	267.56	0	0	0	1.631	0.58	269.771
B	Total Hydel Power Stations	11836.13	282.21	107.72	9.7	410.961	34.57	12681.291
Transmission & Distribution-Network (T&D)								
C	Transmission & Distribution-Network (T&D)	244385.18	11299.97	21130.96	14655.69	71725.08	24319.49	387516.37
	Total (A+B+C)	3472259.40	22038.76	107500.04	54439	132674.581	115972.6989	3904884.48
Common Office Expenses								
D	DIRECTION OFFICE	2460.60	7.40	55.68	24.01	25.49	4.07	2577.25
	CENTRAL OFFICE	7462.50	2477.94	81.41	219.08	463.08	212.51	10916.53
	OTHER OFFICES	1375.05	-7.15	78.86	132.43	171.33	13.60	1764.12
	SUBSIDIARY ACTIVITIES	1013.91	0.00	0.00	-6.40	-22.14	0.97	986.34
	Total Common Office Expenses	12312.06	2478.19	215.95	369.12	637.76	231.15	16244.23
F	DVC Dams	8048.94	9.61	-5.28	6.29	5.88	10855.72	18921.16
G	Total	3492620.40	24526.56	107710.71	54814.41	133318.22	127059.57	3940049.87





Appendix-II (A)

Opening Balance as on 01.04.19 & Year wise Additional Capitalisation during 2019-24  
Damodar Valley Corporation -Direction Office (including R&D)

(Amounts in Rs.)

	Balance as on 31-03-2019	Add Cap. during 19-20	Balance as on 31-03-2020	Add Cap. during 20-21	Balance as on 31-03-2021	Add Cap. during 21-22	Balance as on 31-03-2022	Add Cap. during 22-23	Balance as on 31-03-2023	Add Cap. during 23-24	Balance as on 31-03-2024
Land & Land Rights (FA)	602183.27		602183.27		602183.27		602183.27		602183.27		602183.27
Buildings (FA)	13562783.11		13562783.11		13562783.11		13562783.11		13562783.11		13562783.11
Road Culverts & Ry. Sidings (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Dam and Spillway (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Barrage, Gates & Others (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Regulators, Lock Falls Etc (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Canals & Service Roads (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Power House Plant & Machinery (FA)	4426790.00		4426790.00		4426790.00		4426790.00		4426790.00		4426790.00
Plant & Machinery-Hydel (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Plant & Machinery(Mining & Ropeway) (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Machinery & Equipment-Workshop (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Sub Station Equip (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Switch Gear (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Tower Poles & Fixtures(FA)	0.00		0.00		0.00		0.00		0.00		0.00
Construction Equipment (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Other Assets (FA)	224399597.14	739880.79	225139477.93	5568085.35	230707563.28	2400974.55	233108537.83	2548995.00	235657532.83	40655.85	236064088.68
Fixed Assets in Operation (Expenditure pending allocation)	0.00		0.00		0.00		0.00		0.00		0.00
Total :	242991353.52	739880.79	243731234.31	5568085.35	249299319.65	2400974.55	251700294.21	2548995.00	254249289.21	40655.85	254655845.06
Assets Held for Disposal (FA)	3068462.00		3068462.00		3068462.00		3068462.00		3068462.00		3068462.00
Grand Total (including Asset Held for Disposal):	246059815.52	739880.79	246799696.31	5568085.35	252367781.66	2400974.55	254768756.21	2548995.00	257317751.21	40655.85	257724307.06



Opening Balance as on 01.04.19 & Year wise Additional Capitalisation during 2019-24  
Damodar Valley Corporation - Central Office (Including Information Technology Software)

Appendix-II (B)

	Balance as on 31-03-2019	Add Cap. during 19-20	Balance as on 31-03-2020	Add Cap. during 20-21	Balance as on 31-03-2021	Add Cap. during 21-22	Balance as on 31-03-2022	Add Cap. during 22-23	Balance as on 31-03-2023	Add Cap. during 23-24	Balance as on 31-03-2024
Land & Land Right (FA)	112962075.00	229180000.00	342142078.00	2413216.21	34455294.21		34455294.21		34455294.21		34455294.21
Buildings (FA)	299491585.09		299491585.09		299491585.09		299491585.09		299491585.09		299491585.09
Hotel Canteens & Nry. Buildings (FA)	5825.00		5825.00		5825.00		5825.00		5825.00		5825.00
Open and Sundry (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Motor Vehicles & Others (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Regulators, Lock Falls Etc. (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Cables & Service Roads (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Power House Plant & Machinery (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Plant & Machinery-Hydel (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Plant & Machinery(Mining & Ropeway) (FA)	427514.37		427514.37		427514.37		427514.37		427514.37		427514.37
Machinery & Equipment-Workshop (FA)	1153855.00		1153855.00		1153855.00		1153855.00		1153855.00		1153855.00
Sub Station Equip (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Switch Gear (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Tower Poles & Fixtures(FA)	525616.30		525616.30		525616.30		525616.30		525616.30		525616.30
Construction Equipment (FA)	227017794.56	9046311.24	236054105.80	5667514.92	241731620.72	21908294.20	263639914.92	46307672.00	309947586.92	18597999.29	328545586.21
Other Assets (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Fixed Assets in Operation (Expenditure pending allocation)	0.00		0.00		0.00		0.00		0.00		0.00
Total:	641584268.32	238226311.24	879810579.56	8080731.13	887891310.69	21908294.20	908799604.89	46307672.00	956107276.89	18597999.29	974705276.18
Assets Held for Disposal (FA)	-2992829.00		-2992829.00		-2992829.00		-2992829.00		-2992829.00		-2992829.00
Grand Total (Including Asset Held for Disposal):	638591439.32	238226311.24	876817750.56	8080731.13	884898481.69	21908294.20	906006775.89	46307672.00	953114447.89	18597999.29	971712447.18
IT Software & Solutions, Data Centre	10466607.44	9567607.00	114233678.44	59800.00	114293478.44	0.00	114293478.44	0.00	114293478.44	2653498.00	116946976.44
Total Tangible & Intangible	748250339.76	247793918.24	994044258.00	8140531.13	1002184788.13	21908294.20	1024093083.33	46307672.00	1070400756.33	21261497.29	109166282.62





Appendix-II (C)

Opening Balance as on 01.04.19 & Year wise Additional Capitalisation during 2019-24

Damodar Valley Corporation - Other Office including Central Relay & Instrumentation Testing Laboratory (CRITL), CMFS, Central Relay & Instrumentation Testing Mobile (CRITM), Central Service Organization (CSO) and Central Load Despatch (CLD)

	Balance as on 31-03-2019	Add Cap. during 19-20	Balance as on 31-03-2020	Add Cap. during 20-21	Balance as on 31-03-2021	Add Cap. during 21-22	Balance as on 31-03-2022	Add Cap. during 22-23	Balance as on 31-03-2023	Add Cap. during 23-24	Balance as on 31-03-2024
Land & Land Rights (FA)	37548.24		37548.24		37548.24		37548.24		37548.24		37548.24
Buildings (FA)	10315683.71		10315683.71		10315683.71		10315683.71		10315683.71		10315683.71
Road Culverts & Rly. Sidings (FA)	134066.15		134066.15		134066.15		134066.15		134066.15		134066.15
Dam and Spillway (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Barrage, Gates & Others (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Regulators, Lock Falls Etc (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Canals & Service Roads (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Power House Plant & Machinery (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Plant & Machinery-Hydel (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Plant & Machinery(Mining & Ropeway) (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Machinery & Equipment-Workshop (FA)	19122144.38	-20228.00	19101916.38		19101916.38		19101916.38		19101916.38		19101916.38
Sub Station Equip (FA)	77452725.84	160822.20	77613548.04	7493072.01	85106620.05	2036026.04	87142646.09	15377675.76	102520321.85	1047960.00	103568281.85
(refer Annexure to Add-cap for justification)											
Switch Gear (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Tower Poles & Fixtures(FA)	0.00		0.00		0.00		0.00		0.00		0.00
Construction Equipment (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Other Assets (FA)	30442720.37	-855353.37	29587367.00	392500.00	29979867.00	11206888.00	41186755.00	1755454.00	42942209.00	311885.00	43254094.00
Assets Held for Disposal (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Fixed Assets in Operation (Expenditure pending allocation)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total:	137504888.69	-714759.17	136790129.52	7885572.01	14465701.53	13242914.04	167918615.57	17133129.76	175051745.33	1359845.00	176411590.33





Opening Balance as on 01.04.19 & Year wise Additional Capitalisation during 2019-22  
Damodar Valley Corporation - Subsidiary Activity  
(Amounts in Rs.)

Appendix-II (D)

	Balance as on 31-03-2019	Add Cap. during 19-20	Balance as on 31-03-2020	Add Cap. during 20-21	Balance as on 31-03-2021	Add Cap. during 21-22	Balance as on 31-03-2022	Add Cap. during 22-23	Balance as on 31-03-2023	Add Cap. during 23-24	Balance as on 31-03-2024
Land & Land Rights (FA)	3618940.36		3618940.36		3618940.36		3618940.36		3618940.36		3618940.36
Buildings (FA)	16955059.45		16955059.45		16955059.45		16955059.45		16955059.45		16955059.45
Road Culverts & Rly. Sidings (FA)	3780682.37		3780682.37		3780682.37		3780682.37		3780682.37		3780682.37
Dam and Spillway (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Barage, Gates & Others (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Regulators, Lock Falls Etc. (FA)	32562053.34		32562053.34		32562053.34		32562053.34		32562053.34		32562053.34
Canals & Service Roads (FA)	12707000.30		12707000.30		12707000.30		12707000.30		12707000.30		12707000.30
Power House Plant & Machinery (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Plant & Machinery-Hydel (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Plant & Machinery(Mining & Rapeway) (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Machinery & Equipment-Workshop (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Sub Station Equip (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Switch Gear (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Tower Poles & Fixtures(FA)	0.00		0.00		0.00		0.00		0.00		0.00
Construction Equipment (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Other Assets (FA)	31767392.48		31767392.48		31767392.48		31127392.48	-2213706.90	28913685.58	97400.00	29011085.5
Assets Held for Disposal (FA)	0.00		0.00		0.00		0.00		0.00		0.00
Fixed Assets in Operation (Expenditure pending allocation)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total:</b>	<b>101391128.30</b>	<b>0.00</b>	<b>101391128.30</b>	<b>0.00</b>	<b>101391128.30</b>	<b>-640000.00</b>	<b>100751128.30</b>	<b>-2213706.90</b>	<b>98537421.40</b>	<b>97400.00</b>	<b>98534821.40</b>

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**TARIFF FILING FORMS**  
**FOR**  
**ISTS SYSTEM - LILO DSTPS PORTION**  
**FOR DETERMINATION OF TARIFF**  
**FOR 2019-24 PERIOD**  
  
**ANNEXURE - B**



INDEX		
PART-III		
Checklist of Forms and other information/ documents for tariff filing for Transmission System & Communication System		
Form No.	Title of Tariff Filing Forms (Transmission & Communication System)	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	X
FORM- 4A	Statement of Capital cost	X
FORM- 4B	Statement of Capital Works in Progress	X
FORM- 4C	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New Project/Element	X
FORM-5	Element wise Break-up of Project/Asset/Element Cost for Transmission System or	X
FORM-5A	Break-up of Construction/Supply/Service packages	X
FORM-5B	Details of all the assets covered in the project	X
FORM- 6	Financial Package upto COD	X
FORM- 7	Statement of Additional Capitalisation after COD	✓
FORM- 7A	Financing of Additional Capitalisation	X
FORM- 7B	Statement of Additional Capitalisation during lag end of the Project	X
FORM- 8	Calculation of Return on Equity	✓
FORM-8A	Details of Foreign Equity	X
FORM-9	Details of Allocation of corporate loans to various transmission elements	X
FORM-9A	Details of Project Specific Loans	X
FORM-9B	Details of Foreign loans	X
FORM-9C	Calculation of Weighted Average Rate of Interest on Actual Loans	✓
FORM-9D	Loans in Foreign Currency	X
FORM-9E	Calculation of Interest on Normative Loan	✓
FORM- 10	Calculation of Depreciation Rate on original project cost	✓
FORM- 10A	Statement of Depreciation	✓
FORM- 10B	Statement of De-capitalisation	X
FORM- 11	Calculation of Interest on Working Capital	✓
FORM- 12	Details of time over run	X
FORM- 12A	Incidental Expenditure during Construction	X
FORM- 12B	Calculation of IDC & Financing Charges	X
FORM- 13	Details of Initial spares	X
FORM- 14	Non-Tariff Income	X
FORM- 15	Summary of issue involved in the petition	✓
Appen-1	O & M Expenses details	✓
Appen-2	Statement of capital cost (Input Data)	✓
Appen-3	Cost Savings in Interest due Loan Restructuring	✓
<b>Other Information/ Documents</b>		
Sl. No.	Information/Document	Tick
1	Certificate of incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association (For New Project(s) setup by a company making tariff application for the first time to CERC)	X
2	Region wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures for the new Transmission System & Communication System for the relevant years.	X
3	Copies of relevant loan Agreements	X
4	Copies of the approval of Competent Authority for the <b>Capital Cost</b> and Financial package.	X
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	X
6	Copies of the BPTA/TSA/PPA with the beneficiaries, if any	X
7	Detailed note giving reasons of cost and time over run, if applicable.	X
	List of supporting documents to be submitted: a.Detailed Project Report b.CPM Analysis c.PERT Chart and Bar Chart d.Justification for cost and time Overrun	X
8	Transmission Licensee shall submit copy of Cost Audit Report along with cost accounting records, cost details, statements, schedules etc. for the transmission system as submitted to the Govt. of India for first two years i.e. 2014-15 and 2015-16 at the time of mid-term true-up in 2016-17 and for balance period of tariff period 2014-19 at the time of final true-up in 2019-20. In case of initial tariff filing the latest available Cost Audit Report should be furnished.	X
9	Any other relevant information. (Please specify)	X

**Note1:** Electronic copy of the petition (in word format) and detailed calculation as per these formats (in excel format) and any other information submitted shall also be furnished in the form of CD/Floppy disc.



**PART-III**  
**Form-1**

**Summary Sheet**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO DSTPS)**

(Amt in Rs. Lakhs)

S.N o.	Particulars	Unit	Form Reference	2019-20	2020-21	2021-22	2022-23	2023-24
1	2		3	6	7	8	9	10
<b>A</b>	<b>Cost components as per Regulations 30, 31, 32, 33, 34, 35 of the CERC (Terms and Conditions of Tariff) Regulations, 2019, to be recovered on the basis of availability</b>							
A.1	Depreciation	Rs. Lakhs	Form-10A	48.93	47.71	45.10	46.41	49.19
A.2	Interest on Loan	Rs. Lakhs	Form-9E	49.08	44.48	32.78	28.20	26.61
A.3	Return on Equity <sup>1</sup>	Rs. Lakhs	Form-8	54.10	54.10	54.10	54.10	54.10
A.4	Interest on Working Capital	Rs. Lakhs	Form-11	5.27	4.94	4.55	4.60	5.36
A.5	O & M Expenses	Rs. Lakhs	Appen-I-O & M	67.73	70.11	72.57	75.12	77.75
	<b>Sub-total: A</b>	<b>Rs in Lakh</b>		<b>225.12</b>	<b>221.34</b>	<b>209.11</b>	<b>208.43</b>	<b>213.02</b>
<b>B</b>	<b>Cost components as per Regulation 34 (3) (c) , 72 &amp; 76 of the CERC (Terms and Conditions of Tariff) Regulations 2019, Subsequent CERC/Court Orders, and the DVC Act, to be recovered in full on sharing basis</b>							
B.1	DVC's share of savings in interest cost due to loan restructuring	Rs in Lakh	Appn-3 Loan Restr	2.22	1.84	5.12	4.87	3.02
	<b>Sub-total: B</b>	<b>Rs in Lakh</b>		<b>2.22</b>	<b>1.84</b>	<b>5.12</b>	<b>4.87</b>	<b>3.02</b>
	<b>Grand Total</b>			<b>227.34</b>	<b>223.18</b>	<b>214.23</b>	<b>213.30</b>	<b>216.04</b>

Note

1: Details of calculations, considering equity as per regulation, to be furnished (As per Form 8).



**(Petitioner)**

**DETAILS OF TRANSMISSION LINES & SUBSTATIONS & COMMUNICATION SYSTEM**

Name of the Petitioner: Damodar Valley Corporation

Name of the Region: Eastern Region

Name of the Project: Transmission &amp; Distribution System

Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO DSTPS)

**Transmission Lines:**

S. No.	Name of line	Type of line AC/HVDC	S/C or D/C	No. of Sub-Conductors	Voltage level kV	Line length Ckt.- km.	Line length km	Date of Commercial operation		Covered in the present petition	
										Yes/No	If No, petition No.
	EXISTING LINES										
1	Single Circuit LILO of 400 KV D/C Durgapur (PG) – Jamshedpur (PG) at DSTPS --- Twin Moose Conductor	AC	D/C	2	400 KV	7.78	3.89	1-Feb-11		Yes	-----
2	Single Circuit LILO of 400 KV D/C Maithon (PG) – Ranchi(PG) at RTPS (DOCO 01.07.2012)	AC	D/C	2	400 KV	21.126	10.563	1-Jul-12		Yes	-----
3	Double Circuit 400 KV DSTPS - RTPS --- Twin Moose (DOCO 01.08.2013)	AC	D/C	2	400 KV	139	69.5	1-Aug-13		Yes	-----
	NEW LINES										
4	Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor	AC	D/C	4	400 KV	311	155.5	30.08.2017		Yes	-----

**Substations:**

S.NO.	Name of Sub-station	Type of Substation Conventional(Greenfield/ Brownfield)/	Voltage level kV	No. of transformers	No. of Bays				Date of Commercial operation		Covered in the	
					765 kV	400 kV	220 kV	132 kV & Below			Yes/No	If No, petition No.
1	TWO NOS. 400 KV BAYS FOR S/C LILO JAMSHEDPUR(PG)-DURGAPUR(PG) TRANSMISSION LINE AT DSTPS(ANDAL) END		400kv			2			1-Feb-11		Yes	-----



**PART-III**  
**Form-3**

**Normative parameters considered for tariff computations**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO DSTPS)**

**Year Ending March**

Particulars	Unit	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Base Rate of Return on Equity	%	15.50%	15.50%	15.50%	15.50%	15.50%
Tax Rate	%	25.17%	25.17%	25.17%	25.17%	25.17%
Effective tax rate <sup>1</sup>	%	25.17%	25.17%	25.17%	25.17%	25.17%
Target Availability	%	98	98	98	98	98
<b>Normative O&amp;M per km</b>	Rs. Lakh					
Single Circuit (Bundled Conductor with six or more sub-conductor)		0.881	0.912	0.944	0.977	1.011
Single Circuit (Bundled Conductor with four sub-conductors)		0.755	0.781	0.809	0.837	0.867
Single Circuit (Twin & Triple conductor)		0.503	0.521	0.539	0.558	0.578
Single Circuit (Single conductor)		0.252	0.26	0.27	0.279	0.289
Double Circuit (Bundled Conductor with four or more sub-conductors)		1.322	1.368	1.416	1.466	1.517
Double Circuit (Twin & Triple conductor)		0.881	0.912	0.944	0.977	1.011
Double Circuit (Single conductor)		0.377	0.391	0.404	0.419	0.433
Multi Circuit (Bundled Conductor with four or more sub-conductors)		2.319	2.401	2.485	2.572	2.662
Multi Circuit (Twin & Triple conductor)		1.544	1.598	1.654	1.713	1.773
<b>Normative O&amp;M per bay</b>	Rs. Lakh					
765 kV		45.01	46.6	48.23	49.93	51.68
400 kV		32.15	33.28	34.45	35.66	36.91
220 kV		22.51	23.3	24.12	24.96	25.84
132 kV and below		16.08	16.64	17.23	17.83	18.46
<b>Normative O&amp;M for Transformers per MVA</b>	Rs. Lakh					
765 kV		0.491	0.508	0.526	0.545	0.564
400 kV		0.358	0.371	0.384	0.398	0.411
220 kV		0.245	0.254	0.263	0.272	0.282
132 kV and below		0.245	0.254	0.263	0.272	0.282
Spares for WC as % of O&M	%	15	15	15	15	15
Receivables in Months for WC	Days	45	45	45	45	45
Bank Rate as on 1.04.2019 (SBI 1Y MCLR+350 basis points)	%	12.05%	11.25%	10.50%	10.50%	12.00%

1.To be supported by necessary documents and calculations. Effective tax rate is to be computed in accordance with Regulation 25 i.e. actual tax (or estimated tax)/gross income, where gross income refers the profit before tax.

2.Mention relevant date



Statement of Additional Capitalisation after COD

Name of the Petitioner: Damodar Valley Corporation  
 Name of the Region: Eastern Region  
 Name of the Project: Transmission & Distribution System  
 Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO DSTPS)  
 COD 01-Aug-13

Sr. No.	Year	Work/Equipment proposed to be added after COD upto Cut off Date/ beyond Cut-off Date	Amount capitalized /Proposed to be capitalized (Rs Lakh)	New or Replacement	SUB STATION or LINE or COMMUNICATION	NAME	COD of old asset (in case of replaced items)	Justification	Regulations under which covered	Admitted Cost <sup>1</sup> (Rs Lakh)
(1)	(2)	(3)	(4)					(5)	(6)	(7)
		<b>F.Y 2019-20</b>								
1	2019-20	400 KV ISTS Line (LILO DSTPS)							14(1)(i)	
		<b>TOTAL ( 2019-20)</b>	<b>0.00</b>							
		<b>F.Y 2020-21</b>								
1	2020-21	400 KV ISTS Line (LILO DSTPS)							14(1)(i)	
		<b>TOTAL ( 2020-21)</b>	<b>0.00</b>							
		<b>F.Y 2021-22</b>								
1	2021-22	400 KV ISTS Line (LILO DSTPS)							14(3)(v)	
		<b>Total (2021-22)</b>	<b>0.00</b>							
		<b>F.Y 2022-23</b>								
1	2022-23	400 KV ISTS Line (LILO DSTPS)							14(3)(v)	
		<b>TOTAL ( 2022-23)</b>	<b>0.00</b>							
		<b>F.Y 2023-24</b>								
1	2023-24	400 KV ISTS Line (LILO DSTPS)							14(3)(v)	
		<b>TOTAL (2023-24)</b>	<b>0.00</b>							



**PART-III  
Form-8**

**Calculation of Return on Equity at Normal Rate**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO DSTPS)**

(Amt. in Lakhs)

S.N o.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8
1.1	Equity as on COD/Admitted equity #		261.20	261.20	261.20	261.20	261.20
1.2	Notional Equity for Add Cap after cut-off date		-	-	-	-	-
1.3	Notional Equity for Add Cap after completion of useful life		-	-	-	-	-
1.4	<b>Total Equity</b>		261.20	261.20	261.20	261.20	261.20
1.5	Return on Equity on project cost till Cutoff date		20.71%	20.71%	20.71%	20.71%	20.71%
1.6	<b>Return on Equity on Add Cap</b>		<b>54.10</b>	<b>54.10</b>	<b>54.10</b>	<b>54.10</b>	<b>54.10</b>

**Note:- 1: \* - To be calculated on average equity during the year.**



FORM-9C						
Calculation of Weighted Average Rate of Interest on Actual Loans T&D						
Name of the Petitioner	0					
	(Rs. Lakh)					
Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
<b>Loan-4 REC Loan (For T&amp;D)</b>						
Gross loan - Opening	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85
Cumulative repayments of Loans upto previous year	5,266.39	10,532.78	15,799.17	21,065.56	78,995.85	78,995.85
Net loan - Opening	73,729.46	68,463.07	63,196.68	57,930.29	-	-
Add: Drawal(s) during the Year	-	-	-	-	-	-
Less: Repayment (s) of Loans during the year	5,266.39	5,266.39	5,266.39	57,930.29	-	-
Net loan - Closing	68,463.07	63,196.68	57,930.29	-	-	-
Average Net Loan	68,679.49	65,829.87	60,563.48	6,290.78	-	-
Rate of Interest on Loan on annual basis	10.15%	10.15%	10.15%	9.98%	-	-
<b>Interest on loan</b>	<b>6,970.97</b>	<b>6,681.73</b>	<b>6,147.19</b>	<b>627.82</b>	<b>-</b>	<b>-</b>
<b>Loan - 3 Punjab &amp; Sind Bank Loan (For T&amp;D)</b>						
Gross loan - Opening				-	52,663.90	52,663.90
Cumulative repayments of Loans upto previous year				-	3,949.79	9,216.18
Net loan - Opening				-	48,714.11	43,447.72
Add: Drawal(s) during the Year				52,663.90	-	-
Less: Repayment (s) of Loans during the year				3,949.79	5,266.39	5,266.39
Net loan - Closing		-	-	48,714.11	43,447.72	38,181.33
Average Net Loan pro-rated based on repayment date (see Note -5)		-	-	46,845.64	46,080.92	40,814.53
Rate of Interest on Loan on annual basis (refer Note below **)				7.80%	7.76%	8.72%
<b>Interest on loan</b>				<b>3,653.96</b>	<b>3,577.99</b>	<b>3,559.01</b>
<b>Loan-4(i): Share of GoI Guaranteed DVC Bonds (Series - 14 - Rs. 4,400 Crore) (Drawn On 30.03.2012)</b>						
Gross loan - Opening	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Cumulative repayments of Loans upto previous year	-	-	-	-	-	-
Net loan - Opening	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Add: Drawal(s) during the Year	-	-	-	-	-	-
Less: Repayment (s) of Loans during the year	-	-	-	-	-	-
Net loan - Closing	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Average Net Loan	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Rate of Interest on Loan on annual basis	10.30%	10.30%	10.80%	10.53%	10.44%	10.34%
<b>Interest on loan</b>	<b>1,030.00</b>	<b>1,030.00</b>	<b>1,080.11</b>	<b>1,053.36</b>	<b>1,044.15</b>	<b>1,034.12</b>
<b>Total Loan</b>						
Gross loan - Opening	88,995.85	88,995.85	88,995.85	88,995.85	141,659.75	141,659.75
Cumulative repayments of Loans upto previous year	5,266.39	10,532.78	15,799.17	21,065.56	82,945.64	88,212.03
Net loan - Opening	83,729.46	78,463.07	73,196.68	67,930.29	58,714.11	53,447.72
Add: Drawal(s) during the Year	-	-	-	52,663.90	-	-
Less: Repayment (s) of Loans during the year	5,266.39	5,266.39	5,266.39	61,880.08	5,266.39	5,266.39
Net loan - Closing	78,463.07	73,196.68	67,930.29	58,714.11	53,447.72	48,181.33
Average Net Loan	78,679.49	75,829.87	70,563.48	63,136.42	56,080.92	50,814.53
<b>Interest on loan</b>	<b>8,000.97</b>	<b>7,711.73</b>	<b>7,227.31</b>	<b>5,335.14</b>	<b>4,622.14</b>	<b>4,593.13</b>
<b>Weighted average Rate of Interest on Loans</b>	<b>10.17%</b>	<b>10.17%</b>	<b>10.24%</b>	<b>8.45%</b>	<b>8.24%</b>	<b>9.04%</b>
<b>Note:</b> 1. In case of Foreign Loans, the calculations in Indian Rupees is to be furnished. However, the calculations in Original currency is also to be furnished separately in the same form.						



**PART-III  
FORM- 9E**

**Calculation of Interest on Normative Loan**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO DSTPS)**

(Amount in Rs. Lakh)

Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	2	3	4	5	6
Gross Normative loan - Opening #	553.4	609.46	609.46	609.46	609.46	609.46
Cumulative repayment of Normative Loan upto previous year	37.97	102.36	151.29	199.00	244.10	290.51
<b>Net Normative loan - Opening</b>	<b>515.5</b>	<b>507.10</b>	<b>458.17</b>	<b>410.46</b>	<b>365.36</b>	<b>318.95</b>
Add: Increase due to addition during the year / period	56.02	0.00	0.00	0.00	0.00	0.00
Less: Decrease due to repayment during the year / period	64.39	48.93	47.71	45.10	46.41	49.19
Less: Decrease due to de-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00	0.00
Less: Decrease due to reversal during the year / period	0.00	0.00	0.00	0.00	0.00	0.00
Add: Increase due to discharges during the year / period	0	0.00	0.00	0.00	0.00	0.00
<b>Net Normative loan - Closing</b>	<b>507.10</b>	<b>458.17</b>	<b>410.46</b>	<b>365.36</b>	<b>318.95</b>	<b>269.76</b>
Average Normative Loan	511.28	482.64	434.31	387.91	342.16	294.36
Weighted average Rate of Interest of actual Loans	10.15%	10.17%	10.24%	8.45%	8.24%	9.04%
<b>Interest on Normative loan</b>	<b>51.90</b>	<b>49.08</b>	<b>44.48</b>	<b>32.78</b>	<b>28.20</b>	<b>26.61</b>

**Note:**

1. At the time of true-up net savings as a result of refinancing of loans may be provided along with adj



aring.

**PART-III  
FORM- 10**

**Calculation of Depreciation Rate on Original Project Cost**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO DSTPS)**

Amount in Rs. Lakh

Sl. no.	Name of the Assets <sup>1</sup>	Gross Block as on 31.03.2019 or as on COD, whichever is later and subsequently for each year thereafter upto 31.3.24	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount for each year up to 31.03.24
	1	2	3	4= Col.2 X Col.3
1	Land			
2	Building			
3	and so on			
4				
	<b>TOTAL</b>			
	<b>Weighted Average Rate of Depreciation of 2019-20 (%) *</b>		<b>5.62%</b>	
	<b>Weighted Average Rate of Depreciation 2020-21 (%) *</b>		<b>5.48%</b>	
	<b>Weighted Average Rate of Depreciation 2021-22 (%) *</b>		<b>5.18%</b>	
	<b>Weighted Average Rate of Depreciation 2022-23 (%) *</b>		<b>5.33%</b>	
	<b>Weighted Average Rate of Depreciation 2023-24 (%) *</b>		<b>5.65%</b>	

Note:

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



**Statement of Depreciation**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO DSTPS)**

Sl. No.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(4)	5	6	7	8	9
1	Opening Capital Cost	790.62	870.66	870.66	870.66	870.66	870.66
2	Closing Capital Cost	870.66	870.66	870.66	870.66	870.66	870.66
3	<b>Average Capital Cost</b>	<b>830.64</b>	<b>870.66</b>	<b>870.66</b>	<b>870.66</b>	<b>870.66</b>	<b>870.66</b>
4	Freehold land	0.00	0.00	0.00	0.00	0.00	0.00
5	Rate of depreciation	7.752%	5.620%	5.480%	5.180%	5.330%	5.650%
6	Depreciable value	747.58	783.59	783.59	783.59	783.59	783.59
7	Balance useful life at the beginning of the period						
8	Remaining depreciable value	645.22	681.23	632.30	584.59	539.49	493.08
9	<b>Depreciation (for the period)</b>	<b>64.39</b>	<b>48.93</b>	<b>47.71</b>	<b>45.10</b>	<b>46.41</b>	<b>49.19</b>
10	<b>Depreciation (annualised)</b>	<b>64.39</b>	<b>48.93</b>	<b>47.71</b>	<b>45.10</b>	<b>46.41</b>	<b>49.19</b>
11	Cumulative depreciation at the end of the period	102.36	151.29	199.00	244.10	290.51	339.70
12	Less: Cumulative depreciation adjustment on account of de-capitalisation	0.00	0.00	0.00	0.00	0.00	0.00
13	Net Cumulative depreciation at the end of the period	102.36	151.29	199.00	244.10	290.51	339.70

1. In case of details of FERV and AAD, give information for the applicable period.



**PART-III**  
**FORM-11**

**Calculation of Interest on Working Capital**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO DSTPS)**  
(Rs. Lakhs)

Sl. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
<b>1</b>	<b>2</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>
		366	365	365	365	366
1	O & M Expenses	5.64	5.84	6.05	6.26	6.48
2	Maintenance Spares	10.16	10.52	10.89	11.27	11.66
3	Receivables	27.95	27.52	26.41	26.30	26.56
<b>4</b>	<b>Total Working Capital</b>	<b>43.75</b>	<b>43.87</b>	<b>43.34</b>	<b>43.83</b>	<b>44.70</b>
5	Rate of Interest	12.05%	11.25%	10.50%	10.50%	12.00%
<b>6</b>	<b>Interest on Working Capital</b>	<b>5.27</b>	<b>4.94</b>	<b>4.55</b>	<b>4.60</b>	<b>5.36</b>



Normative O & M Expenses details for LILO - DSTPS Transmission Line Sub Station (Bays)							
Name of the Petitioner: Damodar Valley Corporation						PART-III	
Name of the Region: Eastern Region						Appendix-1	
Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO DSTPS)							
Sl No.	Sub Station		O&M Rate (Rs in lakhs/bay)				Amount (Rs in Lakhs)
			765kV	400 KV	220 KV	132 KV and below	
1	2019-20		45.01	32.15	22.51	16.08	
2	2020-21		46.6	33.28	23.3	16.64	
3	2021-22		48.23	34.45	24.12	17.23	
4	2022-23		49.93	35.66	24.96	17.83	
5	2023-24		51.68	36.91	25.84	18.46	
NUMBER OF SUB-STATION BAYS (LILO DSTPS) EXISTING AS ON 31.03.2019 & CONSIDERED FOR O&M			765kV	400 KV	220 KV	132 KV and below	
				2			64.3
FY2019-20							
		COD					
	Bays added during 2019-20		0	0	0	0-	
	TOTAL 2019-20		0	2	0	0	64.300
FY 2020-21							
	Existing on 31st March 2020	COD	0	2	0	0	
	TOTAL 2020-21		0	2	0	0	66.560
FY 2021-22							
	Existing on 31st March 2021	COD	0	2	0	0	
	TOTAL 2021-22		0	2	0	0	68.90
FY 2022-23							
	Existing on 31st March 2022	COD	0	2	0	0	
	TOTAL 2022-23		0	2	0	0	71.320
FY 2023-24							
	Existing on 31st March 2023		0	2	0	0	
	TOTAL 2023-24	COD	0	2	0	0	73.820
TRANSMISSION LINE							
O & M							
Line							
	Line		Rate (Rs in lakhs/km)				
			S/C Single Conductor	D/C Single Conductor	D/C Double Conductor	D/C Four Conductor	
1	2019-20		0.252	0.377	0.881	1.322	
2	2020-21		0.26	0.391	0.912	1.368	
3	2021-22		0.27	0.404	0.944	1.416	
4	2022-23		0.279	0.419	0.977	1.466	
5	2023-24		0.289	0.433	1.011	1.517	
Sl No.	Line		KM				Amount (Rs in Lakhs)
			S/C Single Conductor	D/C Single Conductor	D/C Double Conductor	D/C Four Conductor	
FY2019-20							
		COD					
	Existing on 31st March 2019		0	0	3.89	0	
	Total 2019-20		0	0	3.89	0	3.427
FY 2020-21							
	Existing on 31st March 2020	COD	0	0	3.89	0	3.548
	TOTAL 2020-21 ADDITION		0	0	0	0	0.000
FY 2021-22							
	Existing on 31st March 2021	COD	0	0	3.89	0	3.672
	TOTAL 2021-22 ADDITION		0.000	0.000	0.000	0.000	0.000
FY 2022-23							
	Existing on 31st March 2022	COD	0	0	3.89	0	3.801
	TOTAL 2022-23 ADDITION		0	0	0	0	0.000
FY 2023-24							
	Existing on 31st March 2023	COD	0	0	3.89	0	3.933
	TOTAL 2023-24 ADDITION		0	0	0	0	0.000
Note:							
	O & M (Rs. In Lakhs) for New Elements Added during 2019-24						
		2019-20	2020-21	2021-22	2022-23	2023-24	
	Transmission Line	3.43	3.55	3.67	3.80	3.93	
	Sub Station	64.30	66.56	68.90	71.32	73.82	
	Total -Transmission O&M	67.73	70.11	72.57	75.12	77.75	
	GRAND TOTAL O&M	67.73	70.11	72.57	75.12	77.75	



Statement of capital cost						
Name of the Petitioner: Damodar Valley Corporation						PART-III Appen-2
Name of the Region: Eastern Region						
Name of the Project: Transmission & Distribution System						
Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO DSTPS)						
(Rs in Lakhs)						
PARTICULARS	Capital cost as on 1.4.2019	TRUE UP				
		2019-20	2020-21	2021-22	2022-23	2023-24
CAPITAL COST AND ADD CAP	870.66					
ADDITIONAL CAPITALIZATION						
DECAPITALISATION		0.00	0.00	0.00	0.00	0.00
CUMMULATIVE CAPITAL COST	870.66	870.66	870.66	870.66	870.66	870.66
AVERAGE		870.66	870.66	870.66	870.66	870.66
EQUITY ADDED DURING THE YEAR		0.00	0.00	0.00	0.00	0.00
EQUITY REDUCTION DUE TO DECAPITALISATION						
CUMMULATIVE EQUITY	261.20	261.20	261.20	261.20	261.20	261.20
AVERAGE		261.20	261.20	261.20	261.20	261.20
NORMATIVE LOAN ADDED DURING THE YEAR		0.00	0.00	0.00	0.00	0.00
LOAN REDUCTION DUE TO DECAPITALISATION						
CUMMULATIVE LOAN	609.46	609.46	609.46	609.46	609.46	609.46
AVERAGE		609.46	609.46	609.46	609.46	609.46
DEPRECIATION						
CAPITAL COST OPENING	870.66	870.66	870.66	870.66	870.66	870.66
CAPITAL COST CLOSING		870.66	870.66	870.66	870.66	870.66
AVERAGE CAPITAL COST		870.66	870.66	870.66	870.66	870.66
RATE OF DEPRECIATION		5.620%	5.480%	5.180%	5.330%	5.650%
FREEHOLD LAND						
90% DEPRECIABLE VALUE EXCLUDING LAND & LAND RIGHTS		783.59	783.59	783.59	783.59	783.59
CUMULATIVE DEPRECIATION AS ON 1ST APRIL		102.36	151.29	199.00	244.10	290.51
ADJUSTMENT OF CUM. DEPR. DUE TO UNDISCHARGED LIABILITY UP TP PREV. YEAR		0.00	0.00	0.00	0.00	0.00
ADJUSTED CUM. DEPR. AS ON 1ST APRIL		102.36	151.29	199.00	244.10	290.51
BALANCE DPRECIABLE VALUE		681.23	632.30	584.59	539.49	493.08
DEPRECIATION TO BE RECOVERED		48.93	47.71	45.10	46.41	49.19
CUMMALATIVE DEPRECIATION		151.29	199.00	244.10	290.51	339.70
CUMMALATIVE DEPRECIATION ADJUSTMENT ON ACCOUNT OF DISCHARGE OF LIABILITIES		0.00	0.00	0.00	0.00	0.00
ADJUSTMENT OF DECAPITALISATION		0.00	0.00	0.00	0.00	0.00
NET CUMULATIVE DEPRECIATION AT THE END OF THE PERIOD		151.29	199.00	244.10	290.51	339.70
Note :- 400 kV LILO DSTPS, LILO RTPS, DSTPS-RTPS Transmission Lines owned by DVC declared ISTS by ERPC.						



**Calculation of Savings due to Loan Re-financing**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO DSTPS)**

(Amount in Rs. Lakh)

Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
<b>Loan-1 REC Loan (For T&amp;D)</b>						
Gross loan - Opening	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85
Cumulative repayments of Loans upto previous year	5,266.39	10,532.78	15,799.17	21,065.56	26,331.95	31,598.34
Net loan - Opening	73,729.46	68,463.07	63,196.68	57,930.29	52,663.90	47,397.51
Add: Drawal(s) during the Year	-	-	-	-	-	-
Less: Repayment (s) of Loans during the year	5,266.39	5,266.39	5,266.39	5,266.39	5,266.39	5,266.39
Net loan - Closing	68,463.07	63,196.68	57,930.29	52,663.90	47,397.51	42,131.12
Average Net Loan	68,679.49	65,829.87	60,563.48	55,297.09	50,030.70	44,764.31
Rate of Interest on Loan on annual basis	11.09%	11.09%	11.09%	11.09%	11.09%	11.09%
<b>Interest on loan</b>	<b>7,616.56</b>	<b>7,300.53</b>	<b>6,716.49</b>	<b>6,132.45</b>	<b>5,548.40</b>	<b>4,964.36</b>
<b>Total Loan</b>						
Gross loan - Opening	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85
Cumulative repayments of Loans upto previous year	5,266.39	10,532.78	15,799.17	21,065.56	26,331.95	31,598.34
Net loan - Opening	73,729.46	68,463.07	63,196.68	57,930.29	52,663.90	47,397.51
Add: Drawal(s) during the Year	-	-	-	-	-	-
Less: Repayment (s) of Loans during the year	5,266.39	5,266.39	5,266.39	5,266.39	5,266.39	5,266.39
Net loan - Closing	68,463.07	63,196.68	57,930.29	52,663.90	47,397.51	42,131.12
Average Net Loan	68,679.49	65,829.87	60,563.48	55,297.09	50,030.70	44,764.31
<b>Interest on loan</b>	<b>7,616.56</b>	<b>7,300.53</b>	<b>6,716.49</b>	<b>6,132.45</b>	<b>5,548.40</b>	<b>4,964.36</b>
<b>Weighted average Rate of Interest on Loans</b>	<b>11.09%</b>	<b>11.09%</b>	<b>11.09%</b>	<b>11.09%</b>	<b>11.09%</b>	<b>11.09%</b>

**Computation of net savings on interest due to loan re-financing:**

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Average Normative loan (refer Form-9E)	482.64	434.31	387.91	342.16	294.36
Weighted Average Rate of Interest on Loans - without loan re-financing	11.09%	11.09%	11.09%	11.09%	11.09%
Interest on normative loan - without loan re-financing (A)	53.52	48.17	43.02	37.95	32.64
Actual Weighted Average Rate of Interest on Loans - with loan re-financing (refer Form-9E)	10.17%	10.24%	8.45%	8.24%	9.04%
Interest on normative loan - with loan re-financing (refer Form-9E)	49.08	44.48	32.78	28.20	26.61
Net savings on interest due to loan re-financing (C = A - B)	4.44	3.68	10.24	9.74	6.04
<b>DVC's share in the net savings on interest due to loan re-financing as per Reg. 61(1) of CERC Tariff Regulations 2019 (D = C/2)</b>	<b>2.22</b>	<b>1.84</b>	<b>5.12</b>	<b>4.87</b>	<b>3.02</b>

**Note:**

1. In case of Foreign Loans, the calculations in Indian Rupees is to be furnished. However, the calculations in Original currency is also to be furnished separately in the same form.



**TARIFF FILING FORMS  
FOR  
ISTS SYSTEM - LILO RTPS PORTION  
FOR DETERMINATION OF TARIFF  
FOR 2019-24 PERIOD**

**ANNEXURE - C**



INDEX		
<u>Checklist of Forms and other information/ documents for tariff filing for Transmission System &amp; Communication System</u>		
Form No.	Title of Tariff Filing Forms (Transmission & Communication System)	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	X
FORM- 4A	Statement of Capital cost	X
FORM- 4B	Statement of Capital Works in Progress	X
FORM- 4C	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New Project/Element	X
FORM-5	Element wise Break-up of Project/Asset/Element Cost for Transmission System or	√
FORM-5A	Break-up of Construction/Supply/Service packages	X
FORM-5B	Details of all the assets covered in the project	X
FORM- 6	Financial Package upto COD	X
FORM- 7	Statement of Additional Capitalisation after COD	√
FORM- 7A	Financing of Additional Capitalisation	X
FORM- 7B	Statement of Additional Capitalisation during fag end* of the Project	X
FORM- 8	Calculation of Return on Equity	√
FORM-8A	Details of Foreign Equity	X
FORM-9	Details of Allocation of corporate loans to various transmission elements	X
FORM-9A	Details of Project Specific Loans	X
FORM-9B	Details of Foreign loans	X
FORM-9C	Calculation of Weighted Average Rate of Interest on Actual Loans	√
FORM-9D	Loans in Foreign Currency	X
FORM-9E	Calculation of Interest on Normative Loan	√
FORM- 10	Calculation of Depreciation Rate on original project cost	√
FORM- 10A	Statement of Depreciation	√
FORM- 10B	Statement of De-capitalisation	X
FORM- 11	Calculation of Interest on Working Capital	√
FORM- 12	Details of time over run	X
FORM- 12A	Incidental Expenditure during Construction	X
FORM- 12B	Calculation of IDC & Financing Charges	X
FORM- 13	Details of Initial spares	X
FORM- 14	Non-Tariff Income	X
FORM- 15	Summary of issue involved in the petition	X
Appen-1	O & M Expenses details	√
Appen-2	Statement of capital cost (Input Data)	√
Appen-3	Savings in Interest due Loan Refinancing	√
<b>Other Information/ Documents</b>		
Sl. No.	Information/Document	Tick
1	Certificate of incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association (For New Project(s) setup by a company making tariff application for the first time to CERC)	X
2	Region wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures for the new Transmission System & Communication System for the relevant years.	X
3	Copies of relevant loan Agreements	X
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package.	X
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	X
6	Copies of the BPTA/TSA/PPA with the beneficiaries, if any	X
7	Detailed note giving reasons of cost and time over run, if applicable.	X
	List of supporting documents to be submitted: a.Detailed Project Report b.CPM Analysis c.PERT Chart and Bar Chart d.Justification for cost and time Overrun	X
8	Transmission Licensee shall submit copy of Cost Audit Report along with cost accounting records, cost details, statements, schedules etc. for the transmission system as submitted to the Govt. of India for first two years i.e. 2019-20 and 2020-21 at the time of mid-term true-up in 2021-22 and for balance period of tariff period 2019-24 at the time of final true-up in 2024-25. In case of initial tariff filing the latest available Cost Audit Report should be furnished.	X
9	BBMB is maintaining the records as per the relevant applicable Acts. Formats specified herein may not be suitable to the available information with BBMB. BBMB may modify formats suitably as per available information to them for submission of required information for tariff purpose.	X
10	Any other relevant information, (Please specify)	X
<b>Note1:</b> Electronic copy of the petition (in word format) and detailed calculation as per these formats (in excel format) and any other information submitted shall also be furnished in the form of CD/Floppy disc.		



Summary Sheet

Name of the Petitioner: Damodar Valley Corporation

Name of the Region: Eastern Region

Name of the Project: Transmission &amp; Distribution System

Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO RTPS)

Amount in Rs. Lakh

S.N o.	Particulars	Unit	Form Reference	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	6	7	8	9	10
<b>A</b>	<b>Cost components as per Regulations 30, 31, 32, 33, 34, 35 of the CERC (Terms and Conditions of Tariff) Regulations, 2019, to be recovered on the basis of availability</b>							
1.1	Depreciation	Rs in Lakh	Form-10A	122.09	119.05	112.53	115.79	122.74
1.2	Interest on Loan	Rs in Lakh	Form-9E	122.86	111.38	82.11	70.68	66.73
1.3	Return on Equity <sup>1</sup>	Rs in Lakh	Form-8	135.00	135.00	135.00	135.00	135.00
1.4	Interest on Working Capital	Rs in Lakh	Form-11	9.12	8.39	7.56	7.55	8.75
1.5	O & M Expenses	Rs in Lakh	Appen-1-O&M (2019-24)	73.61	76.19	78.87	81.64	84.50
	<b>Sub-total: A</b>	<b>Rs in Lakh</b>		<b>462.67</b>	<b>450.01</b>	<b>416.07</b>	<b>410.65</b>	<b>417.71</b>
<b>B</b>	<b>Cost components as per Regulation 34 (3) (c) , 72 &amp; 76 of the CERC (Terms and Conditions of Tariff) Regulations 2019, Subsequent CERC/Court Orders, and the DVC Act, to be recovered in full on sharing basis</b>							
B.4	DVC's share of savings in interest cost due to loan restructuring	Rs in Lakh	Appn-3 Loan Restr	5.56	4.61	12.83	12.21	7.57
	<b>Sub-total: B</b>	<b>Rs in Lakh</b>		<b>5.56</b>	<b>4.61</b>	<b>12.83</b>	<b>12.21</b>	<b>7.57</b>
	<b>Grand Total</b>	<b>Rs in Lakh</b>		<b>468.23</b>	<b>454.62</b>	<b>428.89</b>	<b>422.86</b>	<b>425.28</b>

Note

1: Details of calculations, considering equity as per regulation, to be furnished (As per Form 8).



**DETAILS OF TRANSMISSION LINES & SUBSTATIONS & COMMUNICATION SYSTEM**

Name of the Petitioner: Damodar Valley Corporation

Name of the Region: Eastern Region

Name of the Project: Transmission &amp; Distribution System

Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO RTPS)

**Transmission Lines:**

S. No.	Name of line	Type of line AC/HVDC	S/C or D/C	No. of Sub-Conductors	Voltage level kV	Line length Ckt.- km.	Line length km	Date of Commercial operation		Covered in the present petition	
										Yes/No	If No, petition No.
	EXISTING LINES										
1	Single Circuit LILO of 400 KV D/C Durgapur (PG) – Jamshedpur (PG) at DSTPS --- Twin Moose Conductor	AC	D/C	2	400 KV	7.78	3.89	1-Feb-11		Yes	-----
2	Single Circuit LILO of 400 KV D/C Maithon (PG) – Ranchi(PG) at RTPS (DOCO 01.07.2012)	AC	D/C	2	400 KV	21.126	10.563	1-Jul-12		Yes	-----
3	Double Circuit 400 KV DSTPS - RTPS --- Twin Moose (DOCO 01.08.2013)	AC	D/C	2	400 KV	139	69.5	1-Aug-13		Yes	-----
	NEW LINES										
4	Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor	AC	D/C	4	400 KV	311	155.5	30.08.2017		Yes	-----
Substations:											
S.NO.	Name of Sub-station	Type of Substation Conventional(Greenfield/ Brownfield)/ 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	
					765 kV	400 kV	220 kV	132 kV & Below		Yes/No	If No, petition No.
1	TWO NOS. 400 KV BAYS FOR S/C LILO MAITHON(PG)-RANCHI(PG) TRANSMISSION LINE AT RTPS(RAGHUNATHPUR) END	400KV			2				1-Jul-12	Yes	-----



**Normative parameters considered for tariff computations****Name of the Petitioner: Damodar Valley Corporation****Name of the Region: Eastern Region****Name of the Project: Transmission & Distribution System****Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO RTPS)****Year Ending March**

Particulars	Unit	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Base Rate of Return on Equity	%	15.50%	15.50%	15.50%	15.50%	15.50%
Tax Rate	%	25.17%	25.17%	25.17%	25.17%	25.17%
Effective tax rate <sup>1</sup>	%	25.17%	25.17%	25.17%	25.17%	25.17%
Target Availability	%	98	98	98	98	98
<b>Normative O&amp;M per km</b>	Rs. Lakh					
Single Circuit (Bundled Conductor with six or more sub-conductor)		0.881	0.912	0.944	0.977	1.011
Single Circuit (Bundled Conductor with four sub-conductors)		0.755	0.781	0.809	0.837	0.867
Single Circuit (Twin & Triple conductor)		0.503	0.521	0.539	0.558	0.578
Single Circuit (Single conductor)		0.252	0.26	0.27	0.279	0.289
Double Circuit (Bundled Conductor with four or more sub-conductors)		1.322	1.368	1.416	1.466	1.517
Double Circuit (Twin & Triple conductor)		0.881	0.912	0.944	0.977	1.011
Double Circuit (Single conductor)		0.377	0.391	0.404	0.419	0.433
Multi Circuit (Bundled Conductor with four or more sub-conductors)		2.319	2.401	2.485	2.572	2.662
Multi Circuit (Twin & Triple conductor)		1.544	1.598	1.654	1.713	1.773
<b>Normative O&amp;M per bay</b>	Rs. Lakh					
765 kV		45.01	46.6	48.23	49.93	51.68
400 kV		32.15	33.28	34.45	35.66	36.91
220 kV		22.51	23.3	24.12	24.96	25.84
132 kV and below		16.08	16.64	17.23	17.83	18.46
<b>Normative O&amp;M for Transformers per MVA</b>	Rs. Lakh					
765 kV		0.491	0.508	0.526	0.545	0.564
400 kV		0.358	0.371	0.384	0.398	0.411
220 kV		0.245	0.254	0.263	0.272	0.282
132 kV and below		0.245	0.254	0.263	0.272	0.282
Spares for WC as % of O&M	%	15	15	15	15	15
Receivables in Months for WC	Months	1.5	1.5	1.5	1.5	1.5
Bank Rate as on 1.04.2019 (SBI 1Y MCLR+350 basis points)	%	12.05%	11.25%	10.50%	10.50%	12.00%

1.To be supported by necessary documents and calculations. Effective tax rate is to be computed in accordance with Regulation 25 i.e. actual tax (or estimated tax)/gross income, where gross income refers the profit before tax.

2.Mention relevant date



Statement of Additional Capitalisation after COD

Name of the Petitioner: Damodar Valley Corporation  
 Name of the Region: Eastern Region  
 Name of the Project: Transmission & Distribution System  
 Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO RTPS)  
 COD 01-Aug-13

Sr. No.	Year	Work/Equipment proposed to be added after COD upto Cut off Date/ beyond Cut-off Date	Amount capitalized /Proposed to be capitalized (Rs Lakh)	New or Replacement	SUB STATION or LINE or COMMUNICATION	NAME	COD of old asset (in case of replaced items)	Justification	Regulations under which covered	Admitted Cost <sup>1</sup> (Rs Lakh)
(1)	(2)	(3)	(4)					(5)	(6)	(7)
<b>F.Y 2019-20</b>										
1	2019-20	400 KV ISTS Line (LILO RTPS)							14(1)(i)	
		<b>TOTAL ( 2019-20)</b>	<b>0.00</b>							
<b>F.Y 2020-21</b>										
1	2020-21	400 KV ISTS Line (LILO RTPS)							14(1)(i)	
		<b>TOTAL ( 2020-21)</b>	<b>0.00</b>							
<b>F.Y 2021-22</b>										
1	2021-22	400 KV ISTS Line (LILO RTPS)							14(3)(v)	
		<b>Total (2021-22)</b>	<b>0.00</b>							
<b>F.Y 2022-23</b>										
1	2022-23	400 KV ISTS Line (LILO RTPS)							14(3)(v)	
		<b>TOTAL ( 2022-23)</b>	<b>0.00</b>							
<b>F.Y 2023-24</b>										
1	2023-24	400 KV ISTS Line (LILO DSTPS)							14(3)(v)	
		<b>TOTAL (2023-24)</b>	<b>0.00</b>							



**Calculation of Return on Equity at Normal Rate**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO RTPS)** (Amt. in Lakhs)

S.N o.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8
1.1	Equity as on COD/Admitted equity #		651.72	651.72	651.72	651.72	651.72
1.2	Notional Equity for Add Cap after cut-off date		-	-	-	-	-
1.3	Notional Equity for Add Cap after completion of useful life		-	-	-	-	-
<b>1.4</b>	<b>Total Equity</b>		651.72	651.72	651.72	651.72	651.72
1.5	Return on Equity on project cost till Cutoff date		20.71%	20.71%	20.71%	20.71%	20.71%
<b>1.6</b>	<b>Return on Equity on Add Cap</b>		<b>135.00</b>	<b>135.00</b>	<b>135.00</b>	<b>135.00</b>	<b>135.00</b>

**Note:- 1: \* - To be calculated on average equity during the year.**



FORM-9C						
Calculation of Weighted Average Rate of Interest on Actual Loans T&D						
Name of the Petitioner		0				
		(Rs. Lakh)				
Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
<b>Loan-4 REC Loan (For T&amp;D)</b>						
Gross loan - Opening	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85
Cumulative repayments of Loans upto previous year	5,266.39	10,532.78	15,799.17	21,065.56	28,995.85	38,995.85
Net loan - Opening	73,729.46	68,463.07	63,196.68	57,930.29	-	-
Add: Drawal(s) during the Year	-	-	-	-	-	-
Less: Repayment (s) of Loans during the year	5,266.39	5,266.39	5,266.39	5,930.29	-	-
Net loan - Closing	68,463.07	63,196.68	57,930.29	-	-	-
Average Net Loan	68,679.49	65,829.87	60,563.48	6,290.78	-	-
Rate of Interest on Loan on annual basis	10.15%	10.15%	10.15%	9.98%	-	-
<b>Interest on loan</b>	<b>6,970.97</b>	<b>6,681.73</b>	<b>6,147.19</b>	<b>627.82</b>	<b>-</b>	<b>-</b>
<b>Loan - 3 Punjab &amp; Sind Bank Loan (For T&amp;D)</b>						
Gross loan - Opening	-	-	-	-	52,663.90	52,663.90
Cumulative repayments of Loans upto previous year	-	-	-	-	3,949.79	9,216.18
Net loan - Opening	-	-	-	-	48,714.11	43,447.72
Add: Drawal(s) during the Year	-	-	-	52,663.90	-	-
Less: Repayment (s) of Loans during the year	-	-	-	3,949.79	5,266.39	5,266.39
Net loan - Closing	-	-	-	48,714.11	43,447.72	38,181.33
Average Net Loan pro-rated based on repayment date (see Note -5)	-	-	-	46,845.64	46,080.92	40,814.53
Rate of Interest on Loan on annual basis (refer Note below **)	-	-	-	7.80%	7.76%	8.72%
<b>Interest on loan</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,653.96</b>	<b>3,577.99</b>	<b>3,559.01</b>
<b>Loan-4(i): Share of GoI Guaranteed DVC Bonds (Series - 14 - Rs. 4,400 Crore) (Drawn On 30.03.2012)</b>						
Gross loan - Opening	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Cumulative repayments of Loans upto previous year	-	-	-	-	-	-
Net loan - Opening	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Add: Drawal(s) during the Year	-	-	-	-	-	-
Less: Repayment (s) of Loans during the year	-	-	-	-	-	-
Net loan - Closing	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Average Net Loan	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Rate of Interest on Loan on annual basis	10.30%	10.30%	10.80%	10.53%	10.44%	10.34%
<b>Interest on loan</b>	<b>1,030.00</b>	<b>1,030.00</b>	<b>1,080.11</b>	<b>1,053.36</b>	<b>1,044.15</b>	<b>1,034.12</b>
<b>Total Loan</b>						
Gross loan - Opening	88,995.85	88,995.85	88,995.85	88,995.85	141,659.75	141,659.75
Cumulative repayments of Loans upto previous year	5,266.39	10,532.78	15,799.17	21,065.56	82,945.64	88,212.03
Net loan - Opening	83,729.46	78,463.07	73,196.68	67,930.29	58,714.11	53,447.72
Add: Drawal(s) during the Year	-	-	-	52,663.90	-	-
Less: Repayment (s) of Loans during the year	5,266.39	5,266.39	5,266.39	61,880.08	5,266.39	5,266.39
Net loan - Closing	78,463.07	73,196.68	67,930.29	58,714.11	53,447.72	48,181.33
Average Net Loan	78,679.49	75,829.87	70,563.48	63,136.42	56,080.92	50,814.53
<b>Interest on loan</b>	<b>8,000.97</b>	<b>7,711.73</b>	<b>7,227.31</b>	<b>5,335.14</b>	<b>4,622.14</b>	<b>4,593.13</b>
<b>Weighted average Rate of Interest on Loans</b>	<b>10.17%</b>	<b>10.17%</b>	<b>10.24%</b>	<b>8.45%</b>	<b>8.24%</b>	<b>9.04%</b>
<b>Note:</b> 1. In case of Foreign Loans, the calculations in Indian Rupees is to be furnished. However, the calculations in Original currency is also to be furnished separately in the same form.						



**Calculation of Interest on Normative Loan**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO RTPS)**

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	4	5	6	7	8
Gross Normative loan - Opening	1520.69	1520.69	1520.69	1520.69	1520.69
Cumulative repayment of Normative Loan upto previous year	251.6	373.7	492.7	605.3	721.1
Net Normative loan - Opening	1269.1	1147.0	1027.9	915.4	799.6
Add: Increase due to addition during the year / period	0.00	0.00	0.00	0.00	0.00
Less: Decrease due to repayment during the year / period	122.09	119.05	112.53	115.79	122.74
Less: Decrease due to de-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00
Less: Decrease due to reversal during the year / period	0.00	0.00	0.00	0.00	0.00
Add: Increase due to discharges during the year / period	0.00	0.00	0.00	0.00	0.00
Net Normative loan - Closing	1147	1028	915	800	677
Average Normative Loan	1208.04	1087.47	971.68	857.52	738.26
Weighted average Rate of Interest of actual Loans	10.17%	10.24%	8.45%	8.24%	9.04%
Interest on Normative loan	122.86	111.38	82.11	70.68	66.73

**Note:**

1. At the time of true-up net savings as a result of refinancing of loans may be provided along



**Calculation of Depreciation Rate on Original Project Cost**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO RTPS)**

Amount in Rs. Lakh

Sl. no.	Name of the Assets <sup>1</sup>	Gross Block as on 31.03.2019 or as on COD, whichever is later and subsequently for each year thereafter upto 31.3.24	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount for each year up to 31.03.24
	1	2	3	4= Col.2 X Col.3
1	Land			
2	Building			
3	and so on			
4				
	<b>TOTAL</b>			
	<b>Weighted Average Rate of Depreciation of 2019-20 (%) *</b>		<b>5.62%</b>	
	<b>Weighted Average Rate of Depreciation 2020-21 (%) *</b>		<b>5.48%</b>	
	<b>Weighted Average Rate of Depreciation 2021-22 (%) *</b>		<b>5.18%</b>	
	<b>Weighted Average Rate of Depreciation 2022-23 (%) *</b>		<b>5.33%</b>	
	<b>Weighted Average Rate of Depreciation 2023-24 (%) *</b>		<b>5.65%</b>	

Note:

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

**Note: \* Rate of depreciation is considered as in FY 2018-19**



**Statement of Depreciation**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO RTPS)**

Sl. No.	Particulars	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(4)	(5)	(6)	(7)	(8)	(9)
1	Opening Capital Cost	2017.48	2172.41	2172.41	2172.41	2172.41	2172.41
2	Closing Capital Cost	2172.41	2172.41	2172.41	2172.41	2172.41	2172.41
<b>3</b>	<b>Average Capital Cost</b>	<b>2094.95</b>	2172.41	2172.41	2172.41	2172.41	2172.41
4	Freehold land	0.00	0.00	0.00	0.00	0.00	0.00
5	Rate of depreciation	7.75%	5.62%	5.48%	5.18%	5.33%	5.65%
6	Depreciable value	1885.45	1955.17	1955.17	1955.17	1955.17	1955.17
7	Balance useful life at the beginning of the period						
8	Remaining depreciable value #	1633.86	1703.57	1581.48	1462.43	1349.90	1234.11
<b>9</b>	<b>Depreciation (for the period)</b>	<b>162.40</b>	<b>122.09</b>	<b>119.05</b>	<b>112.53</b>	<b>115.79</b>	<b>122.74</b>
<b>10</b>	<b>Depreciation (annualised)</b>	<b>162.40</b>	<b>122.09</b>	<b>119.05</b>	<b>112.53</b>	<b>115.79</b>	<b>122.74</b>
11	Cumulative depreciation at the end of the period	251.6	373.69	492.74	605.27	721.06	843.80
12	Less: Cumulative depreciation adjustment on account of de-capitalisation	0.00	0.00	0.00	0.00	0.00	0.00
13	Net Cumulative depreciation at the end of the period	251.60	373.69	492.74	605.27	721.06	843.80

1. In case of details of FERV and AAD, give information for the applicable period.



**(Petitioner)**

**Calculation of Interest on Working Capital**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO RTPS)**

Sl. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
<b>1</b>	<b>2</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>
1	O & M Expenses	6.13	6.35	6.57	6.80	7.04
2	Maintenance Spares	11.04	11.43	11.83	12.25	12.67
3	Receivables	58.53	56.83	53.61	52.86	53.16
<b>4</b>	<b>Total Working Capital</b>	<b>75.70</b>	<b>74.61</b>	<b>72.02</b>	<b>71.91</b>	<b>72.88</b>
5	Rate of Interest	12.05%	11.25%	10.50%	10.50%	12.00%
<b>6</b>	<b>Interest on Working Capital</b>	<b>9.12</b>	<b>8.39</b>	<b>7.56</b>	<b>7.55</b>	<b>8.75</b>



**Normative O & M Expenses details for LILO - DSTPS Transmission Line  
Sub Station (Bays)**

Name of the Petitioner: Damodar Valley Corporation

Name of the Region: Eastern Region

Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO RTPS)

PART-111

Appen-1

Sl No.	Sub Station		O&M Rate (Rs in lakhs/bay)				Amount (Rs in Lakhs)
			765kV	400 KV	220 KV	132 KV and below	
1	2019-20		45.01	32.15	22.51	16.08	
2	2020-21		46.6	33.28	23.3	16.64	
3	2021-22		48.23	34.45	24.12	17.23	
4	2022-23		49.93	35.66	24.96	17.83	
5	2023-24		51.68	36.91	25.84	18.46	
NUMBER OF SUB-STATION BAYS (LILO DSTPS) EXISTING AS ON 31.03.219 & CONSIDERED FOR O&M			765kV	400 KV	220 KV	132 KV and below	64.3
				2			
FY2019-20							
		COD					
Bays added during 2019-20							
	TOTAL 2019-20		0	2	0	0	64.300
FY 2020-21							
	Existing on 31st March 2020	COD	0	2	0	0	0.000
	TOTAL 2020-21		0	2	0	0	66.560
FY 2021-22							
	Existing on 31st March 2021	COD	0	2	0	0	0.000
	TOTAL 2021-22		0	2	0	0	68.90
FY 2022-23							
	Existing on 31st March 2022	COD	0	2	0	0	0
	TOTAL 2022-23		0	2	0	0	71.320
FY 2023-24							
	Existing on 31st March 2023		0	2	0	0	
	TOTAL 2023-24	COD	0	2	0	0	73.820
TRANSMISSION LINE							
O & M							
Line							
			Rate (Rs in lakhs/km)				
			S/C Single Conductor	D/C Single Conductor	D/C Double Conductor	D/C Four Conductor	
1	2019-20		0.252	0.377	0.881	1.322	
2	2020-21		0.26	0.391	0.912	1.368	
3	2021-22		0.27	0.404	0.944	1.416	
4	2022-23		0.279	0.419	0.977	1.466	
5	2023-24		0.289	0.433	1.011	1.517	
Sl No.	Line		KM				Amount (Rs in Lakhs)
			S/C Single Conductor	D/C Single Conductor	D/C Double Conductor	D/C Four Conductor	
FY2019-20							
		COD					
	Existing on 31st March 2019		0	0	10.563	0	9.306
	TOTAL 2019-20		0	0	0	0	0.000
FY 2020-21							
	Existing on 31st March 2020	COD	0	0	10.563	0	9.633
	TOTAL 2020-21 ADDITION		0	0	0	0	0.000
FY 2021-22							
	Existing on 31st March 2021	COD	0	0	10.563	0	9.971
	TOTAL 2021-22 ADDITION		0.000	0.000	0.000	0.000	0.000
FY 2022-23							
	Existing on 31st March 2022	COD	0	0	10.563	0	10.320
	TOTAL 2022-23 ADDITION		0	0	0	0	0.000
FY 2023-24							
	Existing on 31st March 2023	COD	0	0	10.563	0	10.679
	TOTAL 2023-24 ADDITION		0	0	0	0	0.000

Note:

O & M (Rs. In Lakhs) for New Elements Added during 2019-24					
	2019-20	2020-21	2021-22	2022-23	2023-24
Transmission Line	9.31	9.63	9.97	10.32	10.68
Sub Station	64.30	66.56	68.90	71.32	73.82
Total -Transmission O&M	73.61	76.19	78.87	81.64	84.50
GRAND TOTAL O&M	73.61	76.19	78.87	81.64	84.50



Statement of capital cost						
Name of the Petitioner: Damodar Valley Corporation					PART-III	
Name of the Region: Eastern Region					Appen-2	
Name of the Project: Transmission & Distribution System					(Rs in Lakhs)	
Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO RTPS)						
PARTICULARS	Capital cost as on 1.4.2019	TRUE UP				
		2019-20	2020-21	2021-22	2022-23	2023-24
CAPITAL COST AND ADD CAP	2172.410					
ADDITIONAL CAPITALIZATION		0.00	0.00	0.00	0.00	0.00
DECAPITALISATION		0.00	0.00	0.00	0.00	0.00
CUMMULATIVE CAPITAL COST	2172.41	2172.41	2172.41	2172.41	2172.41	2172.41
AVERAGE		2172.41	2172.41	2172.41	2172.41	2172.41
EQUITY ADDED DURING THE YEAR		0.00	0.00	0.00	0.00	0.00
EQUITY REDUCTION DUE TO DECAPITALISATION						
		0.00	0.00	0.00	0.00	0.00
CUMMULATIVE EQUITY	651.72	651.72	651.72	651.72	651.72	651.72
AVERAGE		651.72	651.72	651.72	651.72	651.72
NORMATIVE LOAN ADDED DURING THE YEAR		0.00	0.00	0.00	0.00	0.00
LOAN REDUCTION DUE TO DECAPITALISATION						
		0.00	0.00	0.00	0.00	0.00
CUMMULATIVE LOAN	1520.69	1520.69	1520.69	1520.69	1520.69	1520.69
AVERAGE						
DEPRECIATION						
CAPITAL COST OPENING	2172.410	2172.41	2172.41	2172.41	2172.41	2172.41
CAPITAL COST CLOSING		2172.41	2172.41	2172.41	2172.41	2172.41
AVERAGE CAPITAL COST		2172.41	2172.41	2172.41	2172.41	2172.41
RATE OF DEPRECIATION		5.62%	5.48%	5.18%	5.33%	5.65%
FREEHOLD LAND		0.00	0.00	0.00	0.00	0.00
90% DEPRECIABLE VALUE EXCLUDING LAND & LAND RIGHTS		1955.17	1955.17	1955.17	1955.17	1955.17
CUMULATIVE DEPRECIATION AS ON 1ST APRIL		251.60	373.69	492.74	605.27	721.06
ADJUSTMENT OF CUM. DEPR. DUE TO UNDISCHARGED LIABILITY UP TP PREV. YEAR		0.00	0.00	0.00	0.00	0.00
ADJUSTED CUM. DEPR. AS ON 1ST APRIL		251.60	373.69	492.74	605.27	721.06
BALANCE DPRECIABLE VALUE		1703.57	1581.48	1462.43	1349.90	1234.11
DEPRECIATION TO BE RECOVERED		122.09	119.05	112.53	115.79	122.74
CUMMALATIVE DEPRECIATION		373.69	492.74	605.27	721.06	843.80
CUMMALATIVE DEPRECIATION ADJUSTMENT ON ACCOUNT OF DISCHARGE OF LIABILITIES		0.00	0.00	0.00	0.00	0.00
ADJUSTMENT OF DECAPITALISATION		0.00	0.00	0.00	0.00	0.00
NET CUMULATIVE DEPRECIATION AT THE END OF THE PERIOD		373.69	492.74	605.27	721.06	843.80
Note :- 400 kV LILO DSTPS, LILO RTPS, DSTPS-RTPS Transmission Lines owned by DVC declared ISTS by ERPC.						



**Calculation of Savings due to Loan Re-financing**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO RTPS)**

(Amount in Rs. Lakh)

Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
<b>Loan-1 REC Loan (For T&amp;D)</b>						
Gross loan - Opening	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85
Cumulative repayments of Loans upto previous year	5,266.39	10,532.78	15,799.17	21,065.56	26,331.95	31,598.34
Net loan - Opening	73,729.46	68,463.07	63,196.68	57,930.29	52,663.90	47,397.51
Add: Drawal(s) during the Year	-	-	-	-	-	-
Less: Repayment (s) of Loans during the year	5,266.39	5,266.39	5,266.39	5,266.39	5,266.39	5,266.39
Net loan - Closing	68,463.07	63,196.68	57,930.29	52,663.90	47,397.51	42,131.12
Average Net Loan	68,679.49	65,829.87	60,563.48	55,297.09	50,030.70	44,764.31
Rate of Interest on Loan on annual basis	11.09%	11.09%	11.09%	11.09%	11.09%	11.09%
<b>Interest on loan</b>	<b>7,616.56</b>	<b>7,300.53</b>	<b>6,716.49</b>	<b>6,132.45</b>	<b>5,548.40</b>	<b>4,964.36</b>
<b>Total Loan</b>						
Gross loan - Opening	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85
Cumulative repayments of Loans upto previous year	5,266.39	10,532.78	15,799.17	21,065.56	26,331.95	31,598.34
Net loan - Opening	73,729.46	68,463.07	63,196.68	57,930.29	52,663.90	47,397.51
Add: Drawal(s) during the Year	-	-	-	-	-	-
Less: Repayment (s) of Loans during the year	5,266.39	5,266.39	5,266.39	5,266.39	5,266.39	5,266.39
Net loan - Closing	68,463.07	63,196.68	57,930.29	52,663.90	47,397.51	42,131.12
Average Net Loan	68,679.49	65,829.87	60,563.48	55,297.09	50,030.70	44,764.31
<b>Interest on loan</b>	<b>7,616.56</b>	<b>7,300.53</b>	<b>6,716.49</b>	<b>6,132.45</b>	<b>5,548.40</b>	<b>4,964.36</b>
<b>Weighted average Rate of Interest on Loans</b>	<b>11.09%</b>	<b>11.09%</b>	<b>11.09%</b>	<b>11.09%</b>	<b>11.09%</b>	<b>11.09%</b>

**Computation of net savings on interest due to loan re-financing:**

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Average Normative loan (refer Form-9E)	1,208.04	1,087.47	971.68	857.52	738.26
Weighted Average Rate of Interest on Loans - without loan re-financing	11.09%	11.09%	11.09%	11.09%	11.09%
Interest on normative loan - without loan re-financing (A)	133.97	120.60	107.76	95.10	81.87
Actual Weighted Average Rate of Interest on Loans - with loan re-financing (refer Form-9E)	10.17%	10.24%	8.45%	8.24%	9.04%
Interest on normative loan - with loan re-financing (refer Form-9E) (B)	122.86	111.38	82.11	70.68	66.73
Net savings on interest due to loan re-financing (C = A - B)	11.12	9.22	25.65	24.42	15.14
<b>DVC's share in the net savings on interest due to loan re-financing as per Reg. 61(1) of CERC Tariff Regulations 2019 (D = C/2)</b>	<b>5.56</b>	<b>4.61</b>	<b>12.83</b>	<b>12.21</b>	<b>7.57</b>

**Note:**

1. In case of Foreign Loans, the calculations in Indian Rupees is to be furnished. However, the calculations in Original currency is also to be furnished separately in the same form.



**TARIFF FILING FORMS  
FOR  
ISTS SYSTEM - DSTPS-RTPS LINE  
FOR DETERMINATION OF TARIFF  
FOR 2019-24 PERIOD**

**ANNEXURE - D**



INDEX		
PART-III		
<b>Checklist of Forms and other information/ documents for tariff filing for Transmission System &amp; Communication System</b>		
Form No.	Title of Tariff Filing Forms (Transmission & Communication System)	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	X
FORM- 4A	Statement of Capital cost	X
FORM- 4B	Statement of Capital Works in Progress	X
FORM- 4C	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New Project/Element	X
FORM-5	Element wise Break-up of Project/Asset/Element Cost for Transmission System	X
FORM-5A	Break-up of Construction/Supply/Service packages	X
FORM-5B	Details of all the assets covered in the project	X
FORM- 6	Financial Package upto COD	X
FORM- 7	Statement of Additional Capitalisation after COD	✓
FORM- 7A	Financing of Additional Capitalisation	X
FORM- 7B	Statement of Additional Capitalisation during fag end* of the Project	X
FORM- 8	Calculation of Return on Equity	✓
FORM-8A	Details of Foreign Equity	X
FORM-9	Details of Allocation of corporate loans to various transmission elements	X
FORM-9A	Details of Project Specific Loans	X
FORM-9B	Details of Foreign loans	X
FORM-9C	Calculation of Weighted Average Rate of Interest on Actual Loans	✓
FORM-9D	Loans in Foreign Currency	X
FORM-9E	Calculation of Interest on Normative Loan	✓
FORM- 10	Calculation of Depreciation Rate on original project cost	✓
FORM- 10A	Statement of Depreciation	✓
FORM- 10B	Statement of De-capitalisation	X
FORM- 11	Calculation of Interest on Working Capital	✓
FORM- 12	Details of time over run	X
FORM- 12A	Incidental Expenditure during Construction	X
FORM- 12B	Calculation of IDC & Financing Charges	X
FORM- 13	Details of Initial spares	X
FORM- 14	Non-Tariff Income	X
FORM- 15	Summary of issue involved in the petition	✓
Appen-1	O & M Expenses details	✓
Appen-2	Input Data	✓
Appen-3	Calculation of Savings due to Loan Re-financing	✓
Appen-4	Sanction Order	x
<b>Other Information/ Documents</b>		
Sl. No.	Information/Document	Tick
1	Certificate of incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association (For New Project(s) setup by a company making tariff application for the first time to CERC)	X
2	Region wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures for the new Transmission System & Communication System for the relevant years.	X
3	Copies of relevant loan Agreements	X
4	Copies of the approval of Competent Authority for the <b>Capital Cost</b> and Financial package.	X
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	X
6	Copies of the BPTA/TSA/PPA with the beneficiaries, if any	X
7	Detailed note giving reasons of cost and time over run, if applicable.	X
	List of supporting documents to be submitted: a.Detailed Project Report b.CPM Analysis c.PERT Chart and Bar Chart d.Justification for cost and time Overrun	X
8	Transmission Licensee shall submit copy of Cost Audit Report along with cost accounting records, cost details, statements, schedules etc. for the transmission system as submitted to the Govt. of India for first two years i.e. 2019-20 and 2020-21 at the time of mid-term true-up in 2021-22 and for balance period of tariff period 2019-24 at the time of final true-up in 2024-25. In case of initial tariff filing the latest available Cost Audit Report should be furnished.	X
9	BBMB is maintaining the records as per the relevant applicable Acts. Formats specified herein may not be suitable to the available information with BBMB. BBMB may modify formats suitably as per available information to them for submission of required information for tariff purpose.	X
10	Any other relevant information, (Please specify)	X

**Note1:** Electronic copy of the petition (in word format) and detailed calculation as per these formats (in excel format) and any other information submitted shall also be furnished in the form of CD/Floppy 6 disc.



Summary Sheet

Name of the Petitioner: Damodar Valley Corporation

Name of the Region: Eastern Region

Name of the Project: Transmission &amp; Distribution System

Name of the Transmission Element or Communication System: 400 kV ISTS Line (DSTPS-RTPS)

S.N o.	Particulars	unit	Form Reference	2019-20	2020-21	2021-22	2022-23	2023-24
1	2		3	4	5	6	7	8
<b>A</b>	<b>Cost components as per Regulations 30, 31, 32, 33, 34, 35 of the CERC (Terms and Conditions of Tariff) Regulations, 2019, to be recovered on the basis of availability</b>							
A.1	Depreciation	Rs Lakhs	Form-10A	834.88	814.09	769.52	791.80	839.34
A.2	Interest on Loan	Rs Lakhs	Form-9E	746.39	667.26	483.60	407.34	373.02
A.3	Return on Equity <sup>1</sup>	Rs Lakhs	Form-8	923.14	923.14	923.14	923.14	923.14
A.4	Interest on Working Capital	Rs Lakhs	Form-11	46.44	42.20	37.25	36.74	42.07
A.5	O & M Expenses	Rs Lakhs	Appen-I-O & M (2019-24)	189.83	196.50	203.41	210.54	217.90
	<b>Sub-total: A</b>	<b>Rs in Lakh</b>		<b>2740.68</b>	<b>2643.19</b>	<b>2416.92</b>	<b>2369.57</b>	<b>2395.47</b>
<b>B</b>	<b>Cost components as per Regulation 34 (3) (c) , 72 &amp; 76 of the CERC (Terms and Conditions of Tariff) Regulations 2019, Subsequent CERC/Court Orders, and the DVC Act, to be recovered in full on sharing basis</b>							
B.1	DVC's share of savings in interest cost due to loan restructuring	Rs in Lakh	Appen-3 Loan Restr Savings	33.77	27.61	75.54	70.38	42.32
	<b>Sub-total: B</b>	<b>Rs in Lakh</b>		<b>33.77</b>	<b>27.61</b>	<b>75.5</b>	<b>70.4</b>	<b>42.3</b>
	<b>Grand Total</b>	<b>Rs in Lakh</b>		<b>2774.45</b>	<b>2670.81</b>	<b>2492.46</b>	<b>2439.95</b>	<b>2437.79</b>

Note

1: Details of calculations, considering equity as per regulation, to be furnished (As per Form 8).



(Petitioner)

**DETAILS OF TRANSMISSION LINES & SUBSTATIONS & COMMUNICATION SYSTEM**

Name of the Petitioner: Damodar Valley Corporation

Name of the Region: Eastern Region

Name of the Project: Transmission &amp; Distribution System

Name of the Transmission Element or Communication System: 400 kV ISTS Line (DSTPS-RTPS)

**Transmission Lines:**

S. No.	Name of line	Type of line AC/HVDC	S/C or D/C	No. of Sub-Conductors	Voltage level kV	Line length Ckt.- km.	Line length km	Date of Commercial operation		Covered in the present petition	
										Yes/No	If No, petition No.
	<b>EXISTING LINES</b>										
1	Single Circuit LILO of 400 KV D/C Durgapur (PG) – Jamshedpur (PG) at DSTPS --- Twin Moose Conductor	AC	D/C	2	400 KV	7.78	3.89	1-Feb-11		Yes	-----
2	Single Circuit LILO of 400 KV D/C Maithon (PG) – Ranchi(PG) at RTPS (DOCO 01.07.2012)	AC	D/C	2	400 KV	21.126	10.563	1-Jul-12		Yes	-----
3	Double Circuit 400 KV DSTPS - RTPS --- Twin Moose (DOCO 01.08.2013)	AC	D/C	2	400 KV	139	69.5	1-Aug-13		Yes	-----
	<b>NEW LINES</b>										
4	Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor	AC	D/C	4	400 KV	311	155.5	30.08.2017		Yes	-----

**Substations:**

S.NO.	Name of Sub-station	Type of Substation Conventional(Greenfield/ Brownfield)/ 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	
					765 kV	400 kV	220 kV	132 kV & Below			Yes/No	If No, petition No.
1	TWO NOS. 400 KV BAYS FOR DSTPS(ANDAL)- RTPS(RAGHUNATHPUR) TRANSMISSION LINE AT RTPS END		400KV			2			01.08.2013		Yes	-----
2	TWO NOS. 400 KV BAYS FOR DSTPS(ANDAL)- RTPS(RAGHUNATHPUR) TRANSMISSION LINE AT DSTPS(ANDAL) END		400KV			2			01.08.2013		Yes	-----



**Normative parameters considered for tariff computations**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (DSTPS-RTPS)**

Year Ending March

Particulars	Unit	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Base Rate of Return on Equity	%	15.50%	15.50%	15.50%	15.50%	15.50%
Tax Rate	%	25.17%	25.17%	25.17%	25.17%	25.17%
Effective tax rate <sup>1</sup>	%	25.17%	25.17%	25.17%	25.17%	25.17%
Target Availability	%	98	98	98	98	98
<b>Normative O&amp;M per km</b>	Rs. Lakh					
Single Circuit (Bundled Conductor with six or more sub-conductor)		0.881	0.912	0.944	0.977	1.011
Single Circuit (Bundled Conductor with four sub-conductors)		0.755	0.781	0.809	0.837	0.867
Single Circuit (Twin & Triple conductor)		0.503	0.521	0.539	0.558	0.578
Single Circuit (Single conductor)		0.252	0.26	0.27	0.279	0.289
Double Circuit (Bundled Conductor with four or more sub-conductors)		1.322	1.368	1.416	1.466	1.517
Double Circuit (Twin & Triple conductor)		0.881	0.912	0.944	0.977	1.011
Double Circuit (Single conductor)		0.377	0.391	0.404	0.419	0.433
Multi Circuit (Bundled Conductor with four or more sub-conductors)		2.319	2.401	2.485	2.572	2.662
Multi Circuit (Twin & Triple conductor)		1.544	1.598	1.654	1.713	1.773
<b>Normative O&amp;M per bay</b>	Rs. Lakh					
765 kV		45.01	46.6	48.23	49.93	51.68
400 kV		32.15	33.28	34.45	35.66	36.91
220 kV		22.51	23.3	24.12	24.96	25.84
132 kV and below		16.08	16.64	17.23	17.83	18.46
<b>Normative O&amp;M for Transformers per MVA</b>	Rs. Lakh					
765 kV		0.491	0.508	0.526	0.545	0.564
400 kV		0.358	0.371	0.384	0.398	0.411
220 kV		0.245	0.254	0.263	0.272	0.282
132 kV and below		0.245	0.254	0.263	0.272	0.282
Spares for WC as % of O&M	%	15	15	15	15	15
Receivables in Days for WC	Days	45	45	45	45	45
Bank Rate as on 1.04.2019 (SBI 1Y MCLR+350 basis points)	%	12.05%	11.25%	10.50%	10.50%	12.00%

1. To be supported by necessary documents and calculations. Effective tax rate is to be computed in accordance with Regulation 25 i.e. actual tax (or estimated tax)/gross income, where gross income refers the profit before tax.

2. Mention relevant date



Statement of Additional Capitalisation after COD										PART-III Form7
Name of the Petitioner: Damodar Valley Corporation Name of the Region: Eastern Region Name of the Project: Transmission & Distribution System Name of the Transmission Element or Communication System: 400 kV ISTS Line (DSTPS-RTPS)										
COD    01-Aug-13										
Sr. No.	Year	Work/Equipment proposed to be added after COD upto Cut off Date/ beyond Cut-off Date	Amount capitalized /Proposed to be capitalized (Rs Lakh)	New or Replacement	SUB STATION or LINE or COMMUNICATION	NAME	COD of old asset (in case of replaced items)	Justification	Regulations under which covered	Admitted Cost <sup>1</sup> (Rs Lakh)
(1)	(2)	(3)	(4)					(5)	(6)	(7)
F.Y 2019-20										
1	2019-20	400 KV DSTPS-RTPS LINE							14(1)(i)	
		TOTAL ( 2019-20)	0.00							
F.Y 2020-21										
1	2020-21	400 KV DSTPS-RTPS LINE							14(1)(i)	
		TOTAL ( 2020-21)	0.00							
F.Y 2021-22										
1	2021-22	400 KV DSTPS-RTPS LINE							14(3)(v)	
		Total (2021-22)	0.00							
F.Y 2022-23										
1	2022-23	400 KV DSTPS-RTPS LINE	0.00						14(3)(v)	
		TOTAL ( 2022-23)	0.00							
F.Y 2023-24										
1	2023-24	400 KV DSTPS-RTPS LINE							14(3)(v)	
		TOTAL (2023-24)	0.00							



**PART-III  
Form-8**

**Calculation of Return on Equity at Normal Rate**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (DSTPS-RTPS)**

(Amt. in Lakhs)

S.N o.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	4	5	6	7	8
1.1	Equity as on COD/Admitted equity #	4,456.68	4,456.68	4,456.68	4,456.68	4,456.68
1.2	Notional Equity for Add Cap after cut-off date	-	-	-	-	-
1.3	Notional Equity for Add Cap after completion of useful life	-	-	-	-	-
<b>1.4</b>	<b>Total Equity</b>	4,456.68	4,456.68	4,456.68	4,456.68	4,456.68
1.5	Return on Equity on project cost till Cutoff date	20.71%	20.71%	20.71%	20.71%	20.71%
<b>1.6</b>	<b>Return on Equity on Add Cap</b>	<b>923.14</b>	<b>923.14</b>	<b>923.14</b>	<b>923.14</b>	<b>923.14</b>

**Note:- 1: \* - To be calculated on average equity during the year.**



FORM-9C						
Calculation of Weighted Average Rate of Interest on Actual Loans T&D						
Name of the Petitioner	0					
	(Rs. Lakh)					
Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
<b>Loan-4 REC Loan (For T&amp;D)</b>						
Gross loan - Opening	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85
Cumulative repayments of Loans upto previous year	5,266.39	10,532.78	15,799.17	21,065.56	78,995.85	78,995.85
Net loan - Opening	73,729.46	68,463.07	63,196.68	57,930.29	-	-
Add: Drawal(s) during the Year	-	-	-	-	-	-
Less: Repayment (s) of Loans during the year	5,266.39	5,266.39	5,266.39	57,930.29	-	-
Net loan - Closing	68,463.07	63,196.68	57,930.29	-	-	-
Average Net Loan	68,679.49	65,829.87	60,563.48	6,290.78	-	-
Rate of Interest on Loan on annual basis	10.15%	10.15%	10.15%	9.98%	-	-
<b>Interest on loan</b>	<b>6,970.97</b>	<b>6,681.73</b>	<b>6,147.19</b>	<b>627.82</b>	<b>-</b>	<b>-</b>
<b>Loan - 3 Punjab &amp; Sind Bank Loan (For T&amp;D)</b>						
Gross loan - Opening				-	52,663.90	52,663.90
Cumulative repayments of Loans upto previous year				-	3,949.79	9,216.18
Net loan - Opening				-	48,714.11	43,447.72
Add: Drawal(s) during the Year				52,663.90		
Less: Repayment (s) of Loans during the year				3,949.79	5,266.39	5,266.39
Net loan - Closing		-	-	48,714.11	43,447.72	38,181.33
Average Net Loan pro-rated based on repayment date (see Note -5)		-	-	46,845.64	46,080.92	40,814.53
Rate of Interest on Loan on annual basis (refer Note below **)				7.80%	7.76%	8.72%
<b>Interest on loan</b>				<b>3,653.96</b>	<b>3,577.99</b>	<b>3,559.01</b>
<b>Loan-4(i): Share of GoI Guaranteed DVC Bonds (Series - 14 - Rs. 4,400 Crore) (Drawn On 30.03.2012)</b>						
Gross loan - Opening	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Cumulative repayments of Loans upto previous year	-	-	-	-	-	-
Net loan - Opening	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Add: Drawal(s) during the Year	-	-	-	-	-	-
Less: Repayment (s) of Loans during the year	-	-	-	-	-	-
Net loan - Closing	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Average Net Loan	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Rate of Interest on Loan on annual basis	10.30%	10.30%	10.80%	10.53%	10.44%	10.34%
<b>Interest on loan</b>	<b>1,030.00</b>	<b>1,030.00</b>	<b>1,080.11</b>	<b>1,053.36</b>	<b>1,044.15</b>	<b>1,034.12</b>
<b>Total Loan</b>						
Gross loan - Opening	88,995.85	88,995.85	88,995.85	88,995.85	141,659.75	141,659.75
Cumulative repayments of Loans upto previous year	5,266.39	10,532.78	15,799.17	21,065.56	82,945.64	88,212.03
Net loan - Opening	83,729.46	78,463.07	73,196.68	67,930.29	58,714.11	53,447.72
Add: Drawal(s) during the Year	-	-	-	52,663.90	-	-
Less: Repayment (s) of Loans during the year	5,266.39	5,266.39	5,266.39	61,880.08	5,266.39	5,266.39
Net loan - Closing	78,463.07	73,196.68	67,930.29	58,714.11	53,447.72	48,181.33
Average Net Loan	78,679.49	75,829.87	70,563.48	63,136.42	56,080.92	50,814.53
<b>Interest on loan</b>	<b>8,000.97</b>	<b>7,711.73</b>	<b>7,227.31</b>	<b>5,335.14</b>	<b>4,622.14</b>	<b>4,593.13</b>
<b>Weighted average Rate of Interest on Loans</b>	<b>10.17%</b>	<b>10.17%</b>	<b>10.24%</b>	<b>8.45%</b>	<b>8.24%</b>	<b>9.04%</b>
<b>Note:</b> 1. In case of Foreign Loans, the calculations in Indian Rupees is to be furnished. However, the calculations in Original currency is also to be furnished separately in the same form.						



**Calculation of Interest on Normative Loan**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (DSTPS-RTPS)**

Amount in Rs. Lakhs

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	3	4	5	6	7
Gross Normative loan - Opening	10398.91	10398.91	10398.91	10398.91	10398.91
Cumulative repayment of Normative Loan upto previous year	2642.20	3477.08	4291.17	5060.69	5852.49
<b>Net Normative loan - Opening</b>	<b>7756.71</b>	<b>6921.83</b>	<b>6107.74</b>	<b>5338.22</b>	<b>4546.42</b>
Add: Increase due to addition during the year / period	0.00	0.00	0.00	0.00	0.00
Less: Decrease due to repayment during the year / period	834.88	814.09	769.52	791.80	839.34
Less: Decrease due to de-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00
Less: Decrease due to reversal during the year / period	0.00	0.00	0.00	0.00	0.00
Add: Increase due to discharges during the year / period	0.00	0.00	0.00	0.00	0.00
<b>Net Normative loan - Closing</b>	<b>6921.83</b>	<b>6107.74</b>	<b>5338.22</b>	<b>4546.42</b>	<b>3707.08</b>
Average Normative Loan	7339.27	6514.79	5722.98	4942.32	4126.75
Weighted average Rate of Interest of actual Loans	10.17%	10.24%	8.45%	8.24%	9.04%
<b>Interest on Normative loan</b>	<b>746.39</b>	<b>667.26</b>	<b>483.60</b>	<b>407.34</b>	<b>373.02</b>

**Note:**

1. At the time of true-up net savings as a result of refinancing of loans may be provided along with adjustments of sharing.



**Calculation of Depreciation Rate on Original Project Cost**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (DSTPS-RTPS)**

Amount in Rs. Lakh

Sl. no.	Name of the Assets <sup>1</sup>	Gross Block as on 31.03.2019 or as on COD, whichever is later and subsequently for each year thereafter upto 31.3.24	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount for each year up to 31.03.24
	1	2	3	4= Col.2 X Col.3
1	Land			
2	Building			
3	and so on			
4				
	<b>TOTAL</b>			
	<b>Weighted Average Rate of Depreciation 2019-20 (%) *</b>		<b>5.62%</b>	
	<b>Weighted Average Rate of Depreciation 2020-21 (%) *</b>		<b>5.48%</b>	
	<b>Weighted Average Rate of Depreciation 2021-22 (%) *</b>		<b>5.18%</b>	
	<b>Weighted Average Rate of Depreciation 2022-23 (%) *</b>		<b>5.33%</b>	
	<b>Weighted Average Rate of Depreciation 2023-24 (%) *</b>		<b>5.65%</b>	

Note:

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



**(Petitioner)**

**Statement of Depreciation**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (DSTPS-RTPS)**

(Amount in Rs. Lakhs)

Sl. No.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(3)	(4)	(5)	(6)	(7)
1	Opening Capital Cost	14896.65	14855.59	14855.59	14855.59	14855.59	14855.59
2	Closing Capital Cost	14855.59	14855.59	14855.59	14855.59	14855.59	14855.59
<b>3</b>	<b>Average Capital Cost</b>	<b>14876.12</b>	<b>14855.59</b>	<b>14855.59</b>	<b>14855.59</b>	<b>14855.59</b>	<b>14855.59</b>
4	Freehold land	0.00	0.00	0.00	0.00	0.00	0.00
5	Rate of depreciation	7.75%	5.620%	5.480%	5.180%	5.330%	5.650%
6	Depreciable value	13388.51	13370.03	13370.03	13370.03	13370.03	13370.03
7	Balance useful life at the beginning of the period						
8	Remaining depreciable value	10746.31	10727.83	9892.95	9078.86	8309.34	7517.54
<b>9</b>	<b>Depreciation (for the period)</b>	<b>1153.20</b>	<b>834.88</b>	<b>814.09</b>	<b>769.52</b>	<b>791.80</b>	<b>839.34</b>
<b>10</b>	<b>Depreciation (annualised)</b>	<b>1,153.20</b>	<b>834.88</b>	<b>814.09</b>	<b>769.52</b>	<b>791.80</b>	<b>839.34</b>
11	Cumulative depreciation at the end of the period	2642.20	3477.08	4291.17	5060.69	5852.49	6691.83
12	Less: Cumulative depreciation adjustment on account of de-capitalisation	0.00	0.00	0.00	0.00	0.00	0.00
13	Net Cumulative depreciation at the end of the period	2642.20	3477.08	4291.17	5060.69	5852.49	6691.83

1. In case of details of FERV and AAD, give information for the applicable period.



**(Petitioner)**

**Calculation of Interest on Working Capital**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (DSTPS-RTPS)**

Sl. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
	No of Days	366	365	365	365	366
1	O & M Expenses	15.82	16.38	16.95	17.55	18.16
2	Maintenance Spares	28.47	29.48	30.51	31.58	32.69
3	Receivables	341.12	329.28	307.29	300.82	299.73
4	<b>Total Working Capital</b>	<b>385.41</b>	<b>375.13</b>	<b>354.75</b>	<b>349.94</b>	<b>350.57</b>
5	Rate of Interest	12.05%	11.25%	10.50%	10.50%	12.00%
6	<b>Interest on Working Capital</b>	<b>46.44</b>	<b>42.20</b>	<b>37.25</b>	<b>36.74</b>	<b>42.07</b>



## Summary of issue involved in the petition

1	Petitioner: DAMODAR VALLEY CORPORATION		
2	Subject	Petition under Sections 62(1)(b) & 79(1)(d) of the Electricity Act, 2003 and Regulation - 86 of CERC (Conduct of Business) Regulations, 1999 and Regulations 9 & 10 of CERC (Terms and Conditions of Tariff) Regulations, 2019 in respect of 'Non-ISTS 400 kV Transmission Lines carrying ISTS Power' [S/C LILO of 400 KV D/C Durgapur (PG) – Jamshedpur (PG) at DSTPS; S/C LILO of 400 KV D/C Maithon (PG) – Ranchi (PG) at RTPS, D/C 400 KV DSTPS – RTPS, D/C 400 KV RTPS – Ranchi (PG)] of Damodar Valley Corporation for the tariff period 2019 – 24.	
3	<p><b>Prayer:</b> The petitioner respectfully prays before the Hon'ble Commission to:</p> <p>(a) Determine the tariff for the four nos. of 400 KV TRANSMISSION LINES ('NON-ISTS LINE' CARRYING 'ISTS POWER' ) DVC network for the period 01.04.2019 to 31.03.2024 considering projected capital expenditure as furnished in the instant petition.</p> <p>(b) Consider the capital and other costs as proposed by DVC in the petition as well as in the formats attached to the petition by providing necessary relaxation in terms of Regulation 54 and 55, wherever applicable and further by applying the provisions of Part IV of the DVC Act, 1948;</p> <p>(c) Allow DVC to recover shortfall or refund the levies, filing fees, taxes, duties, cess, charges, fees etc., if any, excess Annual Fixed Charges, on account of Return on Equity due to change in applicable Minimum Alternate/Corporate Income Tax rate as per Income Tax Act. 1961 (as amended from time to time) of the respective financial year directly without the need to make any further application before the Commission as provided under clause 25 of the Tariff + Regulation 2014.</p> <p>(d) The Tariff for Transmission of Electricity (Annual Fixed Charges) as per para 14 (J) of petition, in accordance with Regulation 43 Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014. These charges shall be recovered on a monthly basis and the billing collection and disbursement shall be governed by the provisions of Central Electricity Regulatory Commission (sharing of interstate Transmission Charges and Losses) Regulations, 2010.</p> <p>(e) In the circumstances mentioned above it will be just and proper that the transmission tariff for the assets covered under this petition be allowed to be recovered from beneficiaries by considering the tariff determined herein by this Hon'ble Commission while determining the POC charges or as deemed fit by the Hon'ble Commission.</p> <p>(f) Pass such further order or orders as this Hon'ble Commission may deem just and proper in the facts and circumstances of the case.</p>		
4	Respondents		
	Name of Respondents		
	a.	West Bengal State Electricity Distribution Company Limited. (Previously West Bengal State Electricity Board )	Block 'DJ' Sector-11, Salt Lake City, Kolkata – 700 091.
	b.	Jharkhand Bijli Vitran Nigam Limited Previously Jharkhand State Electricity Board	Engineering Building, HEC, Dhurwa, Ranchi -- 834 004.
	c.	Punjab State Power Corporation Limited, (Erstwhile Punjab State Electricity Board)	Interstate Billing, Shed No. TI-A), Patiala-147 001
	d.	Kerala State Electricity Board Limited	8th Floor, Vidyuthi Bhawan, Thiruvananthapuram-695 004
	e.	Haryana Power Purchase Centre Representing Uttar Haryana Bijlee Vitaran Nigam Limited and Dakshin Haryana Bijlee Vitaran Nigam	Sector 6, Shakti Bhawan, Panchkula, Haryana-134109
	f.	Bengaluru Electricity Supply Company Limited	K.R.Circle, Bangalore-560001
5	Project Scope		Investment approval date Scope of work details SCOD as per investment approval Actual COD claimed under regulation (as per grid code): Ref: Form-2 RPC/SCM approval (Date of meeting) Time overrun (brief detail of reason) Capital Cost (Brief details of cost overrun reasons): Rs. 14973.43 Lakhs (as on 01.04.2019)(Ref: Appendix-1 Input Sheet) O&M expense (Claimed): (Ref: Appendix-1 for Computation) Connectivity diagram or SLD
	Cost		
	Commissioning		
Claim			
	AFC (2019-24)		Claimed in this petition:
	2019-20	2020-21	2021-22
	2022-23	2023-24	
PART-A	2740.7	2643.2	2416.9
PART-B	33.8	27.6	75.5
TOTAL	2774.45	2670.81	2492.46
	Capital cost Initial Spare		2439.95
	NATAF		2437.79
	Any specific		



(Petitioner)

Normative O & M Expenses details for LILO - DSTPS Transmission Line Sub Station (Bays)							
Name of the Petitioner: Damodar Valley Corporation Name of the Region: Eastern Region Name of the Project: Transmission & Distribution System Name of the Transmission Element or Communication System: 400 kV ISTS Line (DSTPS-RTPS)							PART-III Appendix-1
SI No.	Sub Station		O&M Rate (Rs in lakhs/bay)				Amount (Rs in Lakhs)
			765kV	400 KV	220 KV	132 KV and below	
1	2019-20		45.01	32.15	22.51	16.08	
2	2020-21		46.6	33.28	23.3	16.64	
3	2021-22		48.23	34.45	24.12	17.23	
4	2022-23		49.93	35.66	24.96	17.83	
5	2023-24		51.68	36.91	25.84	18.46	
NUMBER OF SUB-STATION BAYS (LILO DSTPS) EXISTING AS ON 31.03.219 & CONSIDERED FOR O&M			765kV	400 KV	220 KV	132 KV and below	
				4			
FY2019-20							
		COD					
1	Existing on 31st March 2019		0	4	0	0	
	TOTAL 2019-20		0	4	0	0	128.600
FY 2020-21							
		COD	0	4	0	0	
2	Existing on 31st March 2020		0	4	0	0	133.120
	TOTAL 2020-21		0	4	0	0	133.120
0							
		COD	0	4	0	0	
3	Existing on 31st March 2021		0	4	0	0	137.80
	TOTAL 2021-22						137.80
FY 2022-23							
		COD	0	4	0	0	
4	Existing on 31st March 2022		0	4	0	0	142.640
	TOTAL 2022-23						142.640
FY 2023-24							
		COD	0	4	0	0	
5	Existing on 31st March 2023		0	4	0	0	147.640
	TOTAL 2023-24						
LINE							
O & M Line							
	Line		Rate (Rs in lakhs/km)				
			S/C Single Conductor	D/C Single Conductor	D/C Double Conductor	D/C Four Conductor	
1	2019-20		0.252	0.377	0.881	1.322	
2	2020-21		0.26	0.391	0.912	1.368	
3	2021-22		0.27	0.404	0.944	1.416	
4	2022-23		0.279	0.419	0.977	1.466	
5	2023-24		0.289	0.433	1.011	1.517	
SI No.	Line		KM				Amount (Rs in Lakhs)
			S/C Single Conductor	D/C Single Conductor	D/C Double Conductor	D/C Four Conductor	
FY2019-20							
		COD					
	Existing on 31st March 2019		0	0	69.5	0	61.230
	TOTAL 2019-20		0	0	0	0	0.000
FY 2020-21							
		COD	0	0	69.5	0	63.384
	TOTAL 2020-21 ADDITION		0	0	0	0	0.000
FY 2021-22							
		COD	0	0	69.5	0	65.608
	TOTAL 2021-22 ADDITION		0.000	0.000	0.000	0.000	0.000
FY 2022-23							
		COD	0	0	69.5	0	67.902
	TOTAL 2022-23 ADDITION		0	0	0	0	0.000
FY 2023-24							
		COD	0	0	69.5	0	70.265
	TOTAL 2023-24 ADDITION		0	0	0	0	0.000
Note:							
	O & M (Rs. In Lakhs) for New Elements Added during 2019-24						
		2019-20	2020-21	2021-22	2022-23	2023-24	
	Transmission Line	61.23	63.38	65.61	67.90	70.26	
	Sub Station	128.60	133.12	137.80	142.64	147.64	
	Total -Transmission O&M	189.83	196.50	203.41	210.54	217.90	
	GRAND TOTAL O&M	189.83	196.50	203.41	210.54	217.90	



Statement of capital cost						
Name of the Petitioner: Damodar Valley Corporation						<b>PART-III</b>
Name of the Region: Eastern Region						<b>Annexure-2</b>
Name of the Project: Transmission & Distribution System						
Name of the Transmission Element or Communication System: 400 kV ISTS Line (DSTPS-RTPS)						(Rs in Lakhs)
PARTICULARS	Capital cost as on 1.4.2019	TRUE UP				
		2019-20	2020-21	2021-22	2022-23	2023-24
<b>CAPITAL COST AND ADD CAP</b>	14855.59					
<b>ADDITIONAL CAPITALIZATION</b>		0.00	0.00	0.00	0.00	0.00
<b>DECAPITALISATION</b>		0.00	0.00	0.00	0.00	0.00
<b>CUMMULATIVE CAPITAL COST</b>	14855.59	14855.59	14855.59	14855.59	14855.59	14855.59
<b>AVERAGE</b>		14855.59	14855.59	14855.59	14855.59	14855.59
<b>EQUITY ADDED DURING THE YEAR</b>		0.00	0.00	0.00	0.00	0.00
<b>EQUITY REDUCTION DUE TO DECAPITALISATION</b>						
<b>CUMMULATIVE EQUITY</b>	4456.68	4456.68	4456.68	4456.68	4456.68	4456.68
<b>AVERAGE</b>		4456.68	4456.68	4456.68	4456.68	4456.68
<b>NORMATIVE LOAN ADDED DURING THE YEAR</b>		0.00	0.00	0.00	0.00	0.00
<b>LOAN REDUCTION DUE TO DECAPITALISATION</b>						
<b>CUMMULATIVE LOAN</b>	10398.91	10398.91	10398.91	10398.91	10398.91	10398.91
<b>AVERAGE</b>		10398.91	10398.91	10398.91	10398.91	10398.91
<b>DEPRECIATION</b>						
<b>CAPITAL COST OPENING</b>	14855.59	14855.59	14855.59	14855.59	14855.59	14855.59
<b>CAPITAL COST CLOSING</b>		14855.59	14855.59	14855.59	14855.59	14855.59
<b>AVERAGE CAPITAL COST</b>		14855.59	14855.59	14855.59	14855.59	14855.59
<b>RATE OF DEPRECIATION</b>		5.620%	5.480%	5.180%	5.330%	5.650%
<b>FREEHOLD LAND</b>						
<b>90% DEPRECIABLE VALUE EXCLUDING LAND &amp; LAND RIGHTS</b>		13370.03	13370.03	13370.03	13370.03	13370.03
<b>CUMULATIVE DEPRECIATION AS ON 1ST APRIL</b>		2642.20	3477.08	4291.17	5060.69	5852.49
<b>ADJUSTMENT OF CUM. DEPR. DUE TO UNDISCHARGED LIABILITY UP TP PREV. YEAR</b>		0.00	0.00	0.00	0.00	0.00
<b>ADJUSTED CUM. DEPR. AS ON 1ST APRIL</b>		2642.20	3477.08	4291.17	5060.69	5852.49
<b>BALANCE DPRECIABLE VALUE</b>		10727.83	9892.95	9078.86	8309.34	7517.54
<b>DEPRECIATION TO BE RECOVERED</b>		834.88	814.09	769.52	791.80	839.34
<b>CUMMALATIVE DEPRECIATION</b>		3477.08	4291.17	5060.69	5852.49	6691.83
<b>CUMMALATIVE DEPRECIATION ADJUSTMENT ON ACCOUNT OF DISCHARGE OF LIABILITIES</b>		0.00	0.00	0.00	0.00	0.00
<b>ADJUSTMENT OF DECAPITALISATION</b>		0.00	0.00	0.00	0.00	0.00
<b>NET CUMULATIVE DEPRECIATION AT THE END OF THE PERIOD</b>		3477.08	4291.17	5060.69	5852.49	6691.83
Note :- 400 kV LILO DSTPS, LILO RTPS, DSTPS-RTPS Transmission Lines owned by DVC declared ISTS by ERPC.						



**Calculation of Savings due to Loan Re-financing**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (DSTPS-RTPS)** (Amount in Rs. Lakh)

Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
<b>Loan-1 REC Loan (For T&amp;D)</b>						
Gross loan - Opening	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85
Cumulative repayments of Loans upto previous year	5,266.39	10,532.78	15,799.17	21,065.56	26,331.95	31,598.34
Net loan - Opening	73,729.46	68,463.07	63,196.68	57,930.29	52,663.90	47,397.51
Add: Drawal(s) during the Year	-	-	-	-	-	-
Less: Repayment (s) of Loans during the year	5,266.39	5,266.39	5,266.39	5,266.39	5,266.39	5,266.39
Net loan - Closing	68,463.07	63,196.68	57,930.29	52,663.90	47,397.51	42,131.12
Average Net Loan	68,679.49	65,829.87	60,563.48	55,297.09	50,030.70	44,764.31
Rate of Interest on Loan on annual basis	11.09%	11.09%	11.09%	11.09%	11.09%	11.09%
<b>Interest on loan</b>	<b>7,616.56</b>	<b>7,300.53</b>	<b>6,716.49</b>	<b>6,132.45</b>	<b>5,548.40</b>	<b>4,964.36</b>
<b>Total Loan</b>						
Gross loan - Opening	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85
Cumulative repayments of Loans upto previous year	5,266.39	10,532.78	15,799.17	21,065.56	26,331.95	31,598.34
Net loan - Opening	73,729.46	68,463.07	63,196.68	57,930.29	52,663.90	47,397.51
Add: Drawal(s) during the Year	-	-	-	-	-	-
Less: Repayment (s) of Loans during the year	5,266.39	5,266.39	5,266.39	5,266.39	5,266.39	5,266.39
Net loan - Closing	68,463.07	63,196.68	57,930.29	52,663.90	47,397.51	42,131.12
Average Net Loan	68,679.49	65,829.87	60,563.48	55,297.09	50,030.70	44,764.31
<b>Interest on loan</b>	<b>7,616.56</b>	<b>7,300.53</b>	<b>6,716.49</b>	<b>6,132.45</b>	<b>5,548.40</b>	<b>4,964.36</b>
<b>Weighted average Rate of Interest on Loans</b>	<b>11.09%</b>	<b>11.09%</b>	<b>11.09%</b>	<b>11.09%</b>	<b>11.09%</b>	<b>11.09%</b>

**Computation of net savings on interest due to loan re-financing:**

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Average Normative loan (refer Form-9E)	7,339.27	6,514.79	5,722.98	4,942.32	4,126.75
Weighted Average Rate of Interest on Loans - without loan re-financing	11.09%	11.09%	11.09%	11.09%	11.09%
Interest on normative loan - without loan re-financing (A)	813.93	722.49	634.68	548.10	457.66
Actual Weighted Average Rate of Interest on Loans - with loan re-financing (refer Form-9E)	10.17%	10.24%	8.45%	8.24%	9.04%
Interest on normative loan - with loan re-financing (refer Form-9E)	746.39	667.26	483.60	407.34	373.02
Net savings on interest due to loan re-financing (C = A - B)	67.54	55.23	151.08	140.76	84.64
<b>DVC's share in the net savings on interest due to loan re-financing as per Reg. 61(1) of CERC Tariff Regulations 2019 (D = C/2)</b>	<b>33.77</b>	<b>27.61</b>	<b>75.54</b>	<b>70.38</b>	<b>42.32</b>

**Note:**

1. In case of Foreign Loans, the calculations in Indian Rupees is to be furnished. However, the calculations in Original currency is also to be furnished separately in the same form.



**TARIFF FILING FORMS**  
**FOR**  
**400 KV RAGHUNATHPUR(RTPS)-RANCHI**  
**TRANSMISSION LINE-QUAD MOOSE CONDUCTOR**  
**FOR DETERMINATION OF TARIFF**  
**FOR 2019-24 PERIOD**  
  
**ANNEXURE - E**



INDEX			PART-
<b>Checklist of Forms and other information/ documents for tariff filing for Transmission System &amp; Communication System (2019-24 PERIOD)</b>			
Form No.	Title of Tariff Filing Forms (Transmission & Communication System)	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	X	
FORM- 4A	Statement of Capital cost	X	
FORM- 4B	Statement of Capital Works in Progress	X	
FORM- 4C	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New Project/Element	X	
FORM-5	Element wise Break-up of Project/Asset/Element Cost for Transmission System	✓	
FORM-5A	Break-up of Construction/Supply/Service packages	X	
FORM-5B	Details of all the assets covered in the project	X	
FORM- 6	Financial Package upto COD	X	
FORM- 7	Statement of Additional Capitalisation after COD	✓	
FORM- 7A	Financing of Additional Capitalisation	X	
FORM- 7B	Statement of Additional Capitalisation during fag end of the Project	X	
FORM- 8	Calculation of Return on Equity	✓	
FORM-8A	Details of Foreign Equity	X	
FORM-9	Details of Allocation of corporate loans to various transmission elements	X	
FORM-9A	Details of Project Specific Loans	X	
FORM-9B	Details of Foreign loans	X	
FORM-9C	Calculation of Weighted Average Rate of Interest on Actual Loans	✓	
FORM-9D	Loans in Foreign Currency	X	
FORM-9E	Calculation of Interest on Normative Loan	✓	
FORM- 10	Calculation of Depreciation Rate on original project cost	✓	
FORM- 10A	Statement of Depreciation	✓	
FORM- 10B	Statement of De-capitalisation	X	
FORM- 11	Calculation of Interest on Working Capital	✓	
FORM- 12	Details of time over run	X	
FORM- 12A	Incidental Expenditure during Construction	X	
FORM- 12B	Calculation of IDC & Financing Charges	X	
FORM- 13	Details of Initial spares	X	
FORM- 14	Non-Tariff Income	X	
FORM- 15	Summary of issue involved in the petition	X	
Appen-1	O & M Expenses details	✓	
Appen-2	Statement of capital cost (Input Data)	✓	
Appen-3	Computation of Savings due Loan Refinancing	✓	
<b>Other Information/ Documents</b>			
Sl. No.	Information/Document	Tick	
1	Certificate of incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association (For New Project(s) setup by a company making tariff application for the first time to CERC)	X	
2	Region wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures for the new Transmission System & Communication System for the relevant years.	X	
3	Copies of relevant loan Agreements	X	
4	Copies of the approval of Competent Authority for the <b>Capital Cost</b> and Financial package.	X	
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	X	
6	Copies of the BPTA/TSA/PPA with the beneficiaries, if any	X	
7	Detailed note giving reasons of cost and time over run, if applicable.	X	
	List of supporting documents to be submitted: a.Detailed Project Report b.CPM Analysis c.PERT Chart and Bar Chart d.Justification for cost and time Overrun	X	
8	Transmission Licensee shall submit copy of Cost Audit Report along with cost accounting records, cost details, statements, schedules etc. for the transmission system as submitted to the Govt. of India for first two years i.e. 2019-20 and 2020-21 at the time of mid-term true-up in 2021-22 and for balance period of tariff period 2019-24 at the time of final true-up in 2024-25. In case of initial tariff filing the latest available Cost Audit Report should be furnished.	X	
9	BBMB is maintaining the records as per the relevant applicable Acts. Formats specified herein may not be suitable to the available information with BBMB. BBMB may modify formats suitably as per available information to them for submission of required information for tariff purpose.	X	
10	Any other relevant information, (Please specify)	X	
<b>Note1:</b> Electronic copy of the petition (in word format) and detailed calculation as per these formats (in excel format) and any other information submitted shall also be furnished in the form of CD/Floppy disc.			



Summary Sheet

Name of the Petitioner: Damodar Valley Corporation

Name of the Region: Eastern Region

Name of the Project: Transmission &amp; Distribution System

Name of the Transmission Element or Communication System: Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor

Amount Rs. in Lakh

S.N o.	Particulars	Unit	Form Reference	2019-20	2020-21	2021-22	2022-23	2023-24
1	2		3	4	5	6	7	8
<b>A</b>	<b>Cost components as per Regulations 30, 31, 32, 33, 34, 35 of the CERC (Terms and Conditions of Tariff) Regulations, 2019, to be recovered on the basis of availability</b>							
1.1	Depreciation	Rs in Lakh	Form-10A	2629.24	2579.11	2441.24	2526.13	2690.14
1.2	Interest on Loan	Rs in Lakh	Form-9E	2635.94	2403.88	1778.12	1544.91	1469.63
1.3	Return on Equity <sup>1</sup>	Rs in Lakh	Form-8	2909.77	2923.53	2930.85	2947.35	2958.20
1.4	Interest on Working Capital	Rs in Lakh	Form-11	134.70	122.57	104.74	103.40	120.03
1.5	O & M Expenses	Rs in Lakh	Appen-1 O&M (2019-24)	269.87	279.28	289.09	299.28	309.71
	<b>Sub-total: A</b>	<b>Rs in Lakh</b>		<b>8,579.51</b>	<b>8,308.38</b>	<b>7,544.04</b>	<b>7,421.07</b>	<b>7,547.71</b>
<b>B</b>	<b>Cost components as per Regulation 34 (3) (c) , 72 &amp; 76 of the CERC (Terms and Conditions of Tariff) Regulations 2019, Subsequent CERC/Court Orders, and the DVC Act, to be recovered in full on sharing basis</b>							
1.9	DVC's share of savings in interest cost due to loan restructuring	Rs in Lakh	Appen-3-Loan Restr.	119.26	99.48	277.74	266.93	166.73
	<b>Sub-total: B</b>	<b>Rs in Lakh</b>		<b>119.26</b>	<b>99.48</b>	<b>277.74</b>	<b>266.93</b>	<b>166.73</b>
	<b>Grand Total</b>	<b>Rs in Lakh</b>		<b>8698.77</b>	<b>8407.86</b>	<b>7821.78</b>	<b>7688.01</b>	<b>7714.44</b>

Note

1: Details of calculations, considering equity as per regulation, to be furnished (As per Form 8).



**DETAILS OF TRANSMISSION LINES & SUBSTATIONS & COMMUNICATION SYSTEM**

Name of the Petitioner: Damodar Valley Corporation

Name of the Region: Eastern Region

Name of the Project: Transmission &amp; Distribution System

Name of the Transmission Element or Communication System: Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor

**Transmission Lines:**

Transmission Lines											
S. No.	Name of line	Type of line AC/HVDC	S/C or D/C	No. of Sub-Conductors	Voltage level kV	Line length Ckt.- km.	Line length km	Date of Commercial operation		Covered in the present petition	
										Yes/No	If No, petition No.
	EXISTING LINES										
1	Single Circuit LILO of 400 KV D/C Durgapur (PG) – Jamshedpur (PG) at DSTPS --- Twin Moose Conductor	AC	D/C	2	400 KV	7.78	3.89	1-Feb-11		Yes	-----
2	Single Circuit LILO of 400 KV D/C Maithon (PG) – Ranchi(PG) at RTPS (DOCO 01.07.2012)	AC	D/C	2	400 KV	21.126	10.563	1-Jul-12		Yes	-----
3	Double Circuit 400 KV DSTPS - RTPS --- Twin Moose (DOCO 01.08.2013)	AC	D/C	2	400 KV	139	69.5	1-Aug-13		Yes	-----
	NEW LINES										
4	Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor	AC	D/C	4	400 KV	311	155.5	30.08.2017		Yes	-----

**Substations:**

S.NO.	Name of Sub-station	Type of Substation Conventional(Greenfield/ Brownfield)/ 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	
					765 kV	400 kV	220 kV	132 kV & Below		Yes/No	If No, petition No.
1	TWO NOS. 400 KV BAYS FOR RTPS- RANCHI TRANSMISSION LINE AT RTPS END		400kV			2			30.08.2017	Yes	-----



Normative parameters considered for tariff computations

Name of the Petitioner: Damodar Valley Corporation

Name of the Region: Eastern Region

Name of the Project: Transmission &amp; Distribution System

Name of the Transmission Element or Communication System: Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor

## Year Ending March

Particulars	Unit	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Base Rate of Return on Equity	%	15.50%	15.50%	15.50%	15.50%	15.50%
Tax Rate	%	25.17%	25.17%	25.17%	25.17%	25.17%
Effective tax rate <sup>1</sup>	%	25.17%	25.17%	25.17%	25.17%	25.17%
Target Availability	%	98	98	98	98	98
<b>Normative O&amp;M per km</b>	Rs. Lakh					
Single Circuit (Bundled Conductor with six or more sub-conductor)		0.881	0.912	0.944	0.977	1.011
Single Circuit (Bundled Conductor with four sub-conductors)		0.755	0.781	0.809	0.837	0.867
Single Circuit (Twin & Triple conductor)		0.503	0.521	0.539	0.558	0.578
Single Circuit (Single conductor)		0.252	0.26	0.27	0.279	0.289
Double Circuit (Bundled Conductor with four or more sub-conductors)		1.322	1.368	1.416	1.466	1.517
Double Circuit (Twin & Triple conductor)		0.881	0.912	0.944	0.977	1.011
Double Circuit (Single conductor)		0.377	0.391	0.404	0.419	0.433
Multi Circuit (Bundled Conductor with four or more sub-conductors)		2.319	2.401	2.485	2.572	2.662
Multi Circuit (Twin & Triple conductor)		1.544	1.598	1.654	1.713	1.773
<b>Normative O&amp;M per bay</b>	Rs. Lakh					
765 kV		45.01	46.6	48.23	49.93	51.68
400 kV		32.15	33.28	34.45	35.66	36.91
220 kV		22.51	23.3	24.12	24.96	25.84
132 kV and below		16.08	16.64	17.23	17.83	18.46
<b>Normative O&amp;M for Transformers per MVA</b>	Rs. Lakh					
765 kV		0.491	0.508	0.526	0.545	0.564
400 kV		0.358	0.371	0.384	0.398	0.411
220 kV		0.245	0.254	0.263	0.272	0.282
132 kV and below		0.245	0.254	0.263	0.272	0.282
Spares for WC as % of O&M	%	15	15	15	15	15
Receivables in days for WC	Days	45	45	45	45	45
Bank Rate as on 1.04.2019 (SBI 1Y MCLR+350 basis points)	%	12.05%	11.25%	10.50%	10.50%	12.00%

1.To be supported by necessary documents and calculations. Effective tax rate is to be computed in accordance with Regulation 25 i.e. actual tax (or estimated tax)/gross income, where gross income refers the profit before tax.

2.Mention relevant date



## Statement of Additional Capitalisation after COD

Name of the Petitioner: Damodar Valley Corporation

Name of the Region: Eastern Region

Name of the Project: Transmission &amp; Distribution System

Name of the Transmission Element or Communication System: Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor

Sr. No.	Year	Work/Equipment proposed to be added after COD upto Cut off Date/ beyond Cut-off Date	Amount capitalized /Proposed to be capitalized (Rs Lakh)	SUB STATION or LINE or COMMUNICATION	NAME	Year of commissioning of old asset (in case of replacement)	Justification	Regulations under which covered	Admitted Cost(1) (Rs Lakh)	
1	2	3	4				5	6	7	
			443.07				Balance expenditure for construction of 400kV D/C RTPS – Ranchi (Quad Moose). The work of 400kV D/C RTPS – Ranchi (Quad Moose) line was taken up by DVC for evacuation of power and reliability at 400kV level. The line has been commissioned in FY 2017-18 and is in service. Some balance tidbit works like retaining walls, fixing of number plates, danger plates, barbed wire, etc. could not be done within CoD, as the main package awarded agency was under NCLT. DVC had no other alternative but to engage other agencies to complete balance tidbit works.	25(1)(d)		
Total for 2019-20			443.07						100	
			0.00							
Total for 2020-21			0.00						300	
			235.45				Balance Expenditure	25(1)(d)		
Total for 2021-22			235.45						400	
			295.60				Balance Expenditure	25(1)(d)		
Total for 2022-23			295.60							
			53.56				Balance Expenditure	25(1)(d)		
Total for 2023-24			53.56							



**Calculation of Return on Equity at Normal Rate**

Name of the Petitioner: Damodar Valley Corporation

Name of the Region: Eastern Region

Name of the Project: Transmission & Distribution System

Name of the Transmission Element or Communication System: Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor

(Amt. in Lakhs)

S.N o.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	4	5	6	7	8
1.1	Equity as on COD/Admitted equity #	13,981.14	14,114.06	14,114.06	14,184.70	14,273.38
1.2	Notional Equity for Add Cap after cut-off date	132.92	-	70.64	88.68	16.07
1.3	Notional Equity for Add Cap after completion of useful life	-	-	-	-	-
1.4	<b>Total Equity</b>	14,114.06	14,114.06	14,184.70	14,273.38	14,289.45
1.5	Return on Equity on project cost till Cutoff date	20.71%	20.71%	20.71%	20.71%	20.71%
1.6	<b>Return on Equity on Add Cap</b>	<b>2,909.77</b>	<b>2,923.53</b>	<b>2,930.85</b>	<b>2,947.35</b>	<b>2,958.20</b>

Note:- 1: \* - To be calculated on average equity during the year.



FORM-9C						
Calculation of Weighted Average Rate of Interest on Actual Loans T&D						
Name of the Petitioner		0				
		(Rs. Lakh)				
Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
<b>Loan-4 REC Loan (For T&amp;D)</b>						
Gross loan - Opening	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85
Cumulative repayments of Loans upto previous year	5,266.39	10,532.78	15,799.17	21,065.56	78,995.85	78,995.85
Net loan - Opening	73,729.46	68,463.07	63,196.68	57,930.29	-	-
Add: Drawal(s) during the Year	-	-	-	-	-	-
Less: Repayment (s) of Loans during the year	5,266.39	5,266.39	5,266.39	57,930.29	-	-
Net loan - Closing	68,463.07	63,196.68	57,930.29	-	-	-
Average Net Loan	68,679.49	65,829.87	60,563.48	6,290.78	-	-
Rate of Interest on Loan on annual basis	10.15%	10.15%	10.15%	9.98%	-	-
<b>Interest on loan</b>	<b>6,970.97</b>	<b>6,681.73</b>	<b>6,147.19</b>	<b>627.82</b>	<b>-</b>	<b>-</b>
<b>Loan - 3 Punjab &amp; Sind Bank Loan (For T&amp;D)</b>						
Gross loan - Opening	-	-	-	-	52,663.90	52,663.90
Cumulative repayments of Loans upto previous year	-	-	-	-	3,949.79	9,216.18
Net loan - Opening	-	-	-	-	48,714.11	43,447.72
Add: Drawal(s) during the Year	-	-	-	52,663.90	-	-
Less: Repayment (s) of Loans during the year	-	-	-	3,949.79	5,266.39	5,266.39
Net loan - Closing	-	-	-	48,714.11	43,447.72	38,181.33
Average Net Loan pro-rated based on repayment date (see Note -5)	-	-	-	46,845.64	46,080.92	40,814.53
Rate of Interest on Loan on annual basis (refer Note below **)	-	-	-	7.80%	7.76%	8.72%
<b>Interest on loan</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,653.96</b>	<b>3,577.99</b>	<b>3,559.01</b>
<b>Loan-4(i): Share of GoI Guaranteed DVC Bonds (Series - 14 - Rs. 4,400 Crore) (Drawn On 30.03.2012)</b>						
Gross loan - Opening	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Cumulative repayments of Loans upto previous year	-	-	-	-	-	-
Net loan - Opening	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Add: Drawal(s) during the Year	-	-	-	-	-	-
Less: Repayment (s) of Loans during the year	-	-	-	-	-	-
Net loan - Closing	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Average Net Loan	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Rate of Interest on Loan on annual basis	10.30%	10.30%	10.80%	10.53%	10.44%	10.34%
<b>Interest on loan</b>	<b>1,030.00</b>	<b>1,030.00</b>	<b>1,080.11</b>	<b>1,053.36</b>	<b>1,044.15</b>	<b>1,034.12</b>
<b>Total Loan</b>						
Gross loan - Opening	88,995.85	88,995.85	88,995.85	88,995.85	141,659.75	141,659.75
Cumulative repayments of Loans upto previous year	5,266.39	10,532.78	15,799.17	21,065.56	82,945.64	88,212.03
Net loan - Opening	83,729.46	78,463.07	73,196.68	67,930.29	58,714.11	53,447.72
Add: Drawal(s) during the Year	-	-	-	52,663.90	-	-
Less: Repayment (s) of Loans during the year	5,266.39	5,266.39	5,266.39	61,880.08	5,266.39	5,266.39
Net loan - Closing	78,463.07	73,196.68	67,930.29	58,714.11	53,447.72	48,181.33
Average Net Loan	78,679.49	75,829.87	70,563.48	63,136.42	56,080.92	50,814.53
<b>Interest on loan</b>	<b>8,000.97</b>	<b>7,711.73</b>	<b>7,227.31</b>	<b>5,335.14</b>	<b>4,622.14</b>	<b>4,593.13</b>
<b>Weighted average Rate of Interest on Loans</b>	<b>10.17%</b>	<b>10.17%</b>	<b>10.24%</b>	<b>8.45%</b>	<b>8.24%</b>	<b>9.04%</b>
<b>Note:</b> 1. In case of Foreign Loans, the calculations in Indian Rupees is to be furnished. However, the calculations in Original currency is also to be furnished separately in the same form.						



**Calculation of Interest on Normative Loan**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor**

Amount in Rs. Lakhs

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6
Gross Normative loan - Opening	32622.66	32932.81	32932.81	33097.63	33304.55
Cumulative repayment of Normative Loan upto previous year #	5543.81	8173.05	10752.16	13193.40	15719.53
<b>Net Normative loan - Opening</b>	<b>27078.85</b>	<b>24759.76</b>	<b>22180.65</b>	<b>19904.23</b>	<b>17585.02</b>
Add: Increase due to addition during the year / period	310.15	0.00	164.82	206.92	37.49
Less: Decrease due to repayment during the year / period	2629.24	2579.11	2441.24	2526.13	2690.14
Less: Decrease due to de-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00
Less: Decrease due to reversal during the year / period	0.00	0.00	0.00	0.00	0.00
Add: Increase due to discharges during the year / period	0.00	0.00	0.00	0.00	0.00
<b>Net Normative loan - Closing</b>	<b>24759.76</b>	<b>22180.65</b>	<b>19904.23</b>	<b>17585.02</b>	<b>14932.37</b>
Average Normative Loan	25919.30	23470.20	21042.44	18744.62	16258.70
Weighted average Rate of Interest of actual Loans	10.17%	10.24%	8.45%	8.24%	9.04%
<b>Interest on Normative loan</b>	<b>2,635.94</b>	<b>2,403.88</b>	<b>1,778.12</b>	<b>1,544.91</b>	<b>1,469.63</b>



**Calculation of Depreciation Rate On Original Project Cost**

Name of the Petitioner: Damodar Valley Corporation

Name of the Region: Eastern Region

Name of the Project: Transmission & Distribution System

Name of the Transmission Element or Communication System: Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor

				Amount in Rs. Lakh
Sl. no.	Name of the Assets <sup>1</sup>	Gross Block as on 31.03.2019 or as on COD, whichever is later and subsequently for each year thereafter upto 31.3.24	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount for each year up to 31.03.24
	1	2	3	4= Col.2 X Col.3
1	Land			
2	Building			
3	and so on			
4				
	<b>TOTAL</b>			
	<b>Weighted Average Rate of Depreciation 2019-20 (%) *</b>		<b>5.62%</b>	
	<b>Weighted Average Rate of Depreciation 2020-21 (%) *</b>		<b>5.48%</b>	
	<b>Weighted Average Rate of Depreciation 2021-22 (%) *</b>		<b>5.18%</b>	
	<b>Weighted Average Rate of Depreciation 2022-23 (%) *</b>		<b>5.33%</b>	
	<b>Weighted Average Rate of Depreciation 2023-24 (%) *</b>		<b>5.65%</b>	

Note:

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

Note: \* Rate of depreciation is considered as in FY2018-19



**Statement of Depreciation**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor**

(Amount in Rs. Lakhs)

Sl. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	9	10	11	12	13
1	Opening Capital Cost	46603.80	47046.87	47046.87	47282.32	47577.93
2	Closing Capital Cost	47046.87	47046.87	47282.32	47577.93	47631.49
3	<b>Average Capital Cost</b>	46825.34	47046.87	47164.60	47430.13	47604.71
4	Freehold land	0.00	0.00	0.00	0.00	0.00
5	Rate of depreciation	5.62%	5.48%	5.18%	5.33%	5.65%
6	Depreciable value	42142.80	42342.18	42448.14	42687.11	42844.24
7	Balance useful life at the beginning of the period					
8	Remaining depreciable value	36598.99	34169.13	31695.98	29493.71	27124.71
9	<b>Depreciation (for the period)</b>	<b>2629.24</b>	<b>2579.11</b>	<b>2441.24</b>	<b>2526.13</b>	<b>2690.14</b>
10	<b>Depreciation (annualised)</b>	<b>2,629.24</b>	<b>2,579.11</b>	<b>2,441.24</b>	<b>2,526.13</b>	<b>2,690.14</b>
11	Cumulative depreciation at the end of the period	8173.05	10752.16	13193.40	15719.53	18409.67
12	Less: Cumulative depreciation adjustment on account of de-capitalisation	0.00	0.00	0.00	0.00	0.00
13	Net Cumulative depreciation at the end of the period	8173.05	10752.16	13193.40	15719.53	18409.67

1. In case of details of FERV and AAD, give information for the applicable period.



**Calculation of Interest on Working Capital**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor**

Amount in Rs. Lakh

Sl. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
<b>1</b>	<b>2</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>
	No. of Days in year	366	365	365	365	366
1	O & M Expenses	22.49	23.27	24.09	24.94	25.81
2	Maintenance Spares	40.48	41.89	43.36	44.89	46.46
3	Receivables	1054.86	1024.32	930.09	914.93	928.00
<b>4</b>	<b>Total Working Capital</b>	<b>1117.83</b>	<b>1089.49</b>	<b>997.54</b>	<b>984.76</b>	<b>1000.26</b>
<b>5</b>	Rate of Interest	<b>12.05%</b>	<b>11.25%</b>	<b>10.50%</b>	<b>10.50%</b>	<b>12.00%</b>
<b>6</b>	<b>Interest on Working Capital</b>	<b>134.70</b>	<b>122.57</b>	<b>104.74</b>	<b>103.40</b>	<b>120.03</b>



Normative O & M Expenses details for LILO - DSTPS Transmission Line Sub Station (Bays)							
Name of the Petitioner: Damodar Valley Corporation							PART-III Appendix-I
Name of the Region: Eastern Region							
Name of the Project: Transmission & Distribution System							
Name of the Transmission Element or Communication System: Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor							
SI No.	Sub Station		O&M Rate (Rs in lakhs/bay)				Amount (Rs in Lakhs)
			765kV	400 KV	220 KV	132 KV and below	
1	2019-20		45.01	32.15	22.51	16.08	
2	2020-21		46.6	33.28	23.3	16.64	
3	2021-22		48.23	34.45	24.12	17.23	
4	2022-23		49.93	35.66	24.96	17.83	
5	2023-24		51.68	36.91	25.84	18.46	
NUMBER OF SUB-STATION BAYS (at RTPS end for RTPS-Ranchi Line) EXISTING AS ON 31.03.2019 & CONSIDERED FOR O&M			765kV	400 KV	220 KV	132 KV and below	
				2			64.3
FY2019-20							
		COD					
Bays added during 2019-20							
	TOTAL 2019-20		0	2	0	0	64.300
FY 2020-21							
	Existing on 31st March 2020	COD	0	2	0	0	0.000
	TOTAL 2020-21		0	2	0	0	66.560
FY 2021-22							
	Existing on 31st March 2021	COD	0	2	0	0	0.000
	TOTAL 2021-22		0	2	0	0	68.90
FY 2022-23							
	Existing on 31st March 2022	COD	0	2	0	0	0.000
	TOTAL 2022-23		0	2	0	0	71.320
FY 2023-24							
	Existing on 31st March 2023		0	2	0	0	0.000
	TOTAL 2023-24	COD	0	2	0	0	73.820
LINE							
O & M Line							
	Line		Rate (Rs in lakhs/km)				
			S/C Single Conductor	D/C Single Conductor	D/C Double Conductor	D/C Four Conductor	
1	2019-20		0.252	0.377	0.881	1.322	
2	2020-21		0.26	0.391	0.912	1.368	
3	2021-22		0.27	0.404	0.944	1.416	
4	2022-23		0.279	0.419	0.977	1.466	
5	2023-24		0.289	0.433	1.011	1.517	
SI No.	Line		KM				Amount (Rs in Lakhs)
			S/C Single Conductor	D/C Single Conductor	D/C Double Conductor	D/C Four Conductor	
FY2019-20							
		COD					
	Existing on 31st March 2019		0	0	0	155.5	0.00
	TOTAL 2019-20		0	0	0	155.5	205.57
FY 2020-21							
	Existing on 31st March 2020	COD	0	0	0	155.5	212.72
	TOTAL 2020-21 ADDITION		0	0	0	0	0.000
FY 2021-22							
	Existing on 31st March 2021	COD	0	0	0	155.5	220.19
	TOTAL 2021-22 ADDITION		0	0	0	0	0
FY 2022-23							
	Existing on 31st March 2022	COD	0	0	0	155.5	227.96
	TOTAL 2022-23 ADDITION		0	0	0	0	0.000
FY 2023-24							
	Existing on 31st March 2023	COD	0	0	0	155.5	235.89
	TOTAL 2023-24 ADDITION		0	0	0	0	0.000
Note:							
O & M (Rs. In Lakhs) for New Elements Added during 2019-24							
		2019-20	2020-21	2021-22	2022-23	2023-24	
Transmission Line		205.57	212.72	220.19	227.96	235.89	
Sub Station		64.30	66.56	68.90	71.32	73.82	
Total -Transmission O&M		269.87	279.28	289.09	299.28	309.71	
GRAND TOTAL O&M		269.87	279.28	289.09	299.28	309.71	



Statement of capital cost

Name of the Petitioner: Damodar Valley Corporation

Name of the Region: Eastern Region

Name of the Project: Transmission & Distribution System

Name of the Transmission Element or Communication System: Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor

PARTICULARS	Capital cost as on 1.4.2019	ACTUAL				
		2019-20	2020-21	2021-22	2022-23	2023-24
CAPITAL COST	46603.80					
ADDITIONAL CAPITALIZATION		443.07	0.00	235.45	295.60	53.56
DECAPITALISATION						
CUMULATIVE CAPITAL COST	46603.80	47046.87	47046.87	47282.32	47577.93	47631.49
AVERAGE		46825.34	47046.87	47164.60	47430.13	47604.71
EQUITY ADDED DURING THE YEAR		132.92	0.00	70.64	88.68	16.07
EQUITY REDUCTION DUE TO DECAPITALISATION						
CUMULATIVE EQUITY	13981.14	14114.06	14114.06	14184.70	14273.38	14289.45
AVERAGE		14047.60	14114.06	14149.38	14229.04	14281.41
NORMATIVE LOAN ADDED DURING THE YEAR		310.15	0.00	164.82	206.92	37.49
LOAN REDUCTION DUE TO DECAPITALISATION						
CUMULATIVE LOAN	32622.66	32932.81	32932.81	33097.63	33304.55	33342.05
AVERAGE		32777.73	32932.81	33015.22	33201.09	33323.30
DEPRECIATION						
CAPITAL COST OPENING	46603.80	46603.80	47046.87	47046.87	47282.32	47577.93
CAPITAL COST CLOSING		47046.87	47046.87	47282.32	47577.93	47631.49
AVERAGE CAPITAL COST		46825.34	47046.87	47164.60	47430.13	47604.71
RATE OF DEPRECIATION		5.62%	5.48%	5.18%	5.33%	5.65%
FREEHOLD LAND						
90% DEPRECIABLE VALUE EXCLUDING LAND & LAND RIGHTS		42142.80	42342.18	42448.14	42687.11	42844.24
CUMULATIVE DEPRECIATION AS ON 1ST APRIL		5543.81	8173.05	10752.16	13193.40	15719.53
ADJUSTMENT OF CUM. DEPR. DUE TO UNDISCHARGED LIABILITY UP TP PREV. YEAR		0.00	0.00	0.00	0.00	0.00
ADJUSTED CUM. DEPR. AS ON 1ST APRIL		5543.81	8173.05	10752.16	13193.40	15719.53
BALANCE DEPRECIABLE VALUE		36598.99	34169.13	31695.98	29493.71	27124.71
DEPRECIATION TO BE RECOVERED		2629.24	2579.11	2441.24	2526.13	2690.14
CUMULATIVE DEPRECIATION		8173.05	10752.16	13193.40	15719.53	18409.67
CUMULATIVE DEPRECIATION ADJUSTMENT ON ACCOUNT OF DISCHARGE OF LIABILITIES		0.00	0.00	0.00	0.00	0.00
ADJUSTMENT OF DECAPITALISATION		0.00	0.00	0.00	0.00	0.00
NET CUMULATIVE DEPRECIATION AT THE END OF THE PERIOD		8173.05	10752.16	13193.40	15719.53	18409.67



**Calculation of Savings due to Loan Re-financing**

Name of the Petitioner: Damodar Valley Corporation

Name of the Region: Eastern Region

Name of the Project: Transmission &amp; Distribution System

Name of the Transmission Element or Communication System: Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor (Amount in Rs. Lakh)

Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
<b>Loan-1 REC Loan (For T&amp;D)</b>						
Gross loan - Opening	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85
Cumulative repayments of Loans upto previous year	5,266.39	10,532.78	15,799.17	21,065.56	26,331.95	31,598.34
Net loan - Opening	73,729.46	68,463.07	63,196.68	57,930.29	52,663.90	47,397.51
Add: Drawal(s) during the Year	-	-	-	-	-	-
Less: Repayment (s) of Loans during the year	5,266.39	5,266.39	5,266.39	5,266.39	5,266.39	5,266.39
Net loan - Closing	68,463.07	63,196.68	57,930.29	52,663.90	47,397.51	42,131.12
Average Net Loan	68,679.49	65,829.87	60,563.48	55,297.09	50,030.70	44,764.31
Rate of Interest on Loan on annual basis	11.09%	11.09%	11.09%	11.09%	11.09%	11.09%
<b>Interest on loan</b>	<b>7,616.56</b>	<b>7,300.53</b>	<b>6,716.49</b>	<b>6,132.45</b>	<b>5,548.40</b>	<b>4,964.36</b>
<b>Total Loan</b>						
Gross loan - Opening	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85
Cumulative repayments of Loans upto previous year	5,266.39	10,532.78	15,799.17	21,065.56	26,331.95	31,598.34
Net loan - Opening	73,729.46	68,463.07	63,196.68	57,930.29	52,663.90	47,397.51
Add: Drawal(s) during the Year	-	-	-	-	-	-
Less: Repayment (s) of Loans during the year	5,266.39	5,266.39	5,266.39	5,266.39	5,266.39	5,266.39
Net loan - Closing	68,463.07	63,196.68	57,930.29	52,663.90	47,397.51	42,131.12
Average Net Loan	68,679.49	65,829.87	60,563.48	55,297.09	50,030.70	44,764.31
<b>Interest on loan</b>	<b>7,616.56</b>	<b>7,300.53</b>	<b>6,716.49</b>	<b>6,132.45</b>	<b>5,548.40</b>	<b>4,964.36</b>
<b>Weighted average Rate of Interest on Loans</b>	<b>11.09%</b>	<b>11.09%</b>	<b>11.09%</b>	<b>11.09%</b>	<b>11.09%</b>	<b>11.09%</b>

**Computation of net savings on interest due to loan re-financing:**

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Average Normative loan (refer Form-9E)	25,919.30	23,470.20	21,042.44	18,744.62	16,258.70
Weighted Average Rate of Interest on Loans - without loan re-financing	11.09%	11.09%	11.09%	11.09%	11.09%
Interest on normative loan - without loan re-financing (A)	2,874.45	2,602.85	2,333.61	2,078.78	1,803.09
Actual Weighted Average Rate of Interest on Loans - with loan re-financing (refer Form-9E)	10.17%	10.24%	8.45%	8.24%	9.04%
Interest on normative loan - with loan re-financing (refer Form-9E)	2,635.94	2,403.88	1,778.12	1,544.91	1,469.63
Net savings on interest due to loan re-financing (C = A - B)	238.51	198.96	555.48	533.86	333.46
<b>DVC's share in the net savings on interest due to loan re-financing as per Reg. 61(1) of CERC Tariff Regulations 2019 (D = C/2)</b>	<b>119.26</b>	<b>99.48</b>	<b>277.74</b>	<b>266.93</b>	<b>166.73</b>

**Note:**

1. In case of Foreign Loans, the calculations in Indian Rupees is to be furnished. However, the calculations in Original currency is also to be furnished separately in the same form.



**TARIFF FILING FORMS**  
**FOR**  
**ISTS SYSTEM - LILO DSTPS PORTION**  
**FOR DETERMINATION OF TARIFF**  
**FOR 2024-29 PERIOD**

**ANNEXURE - F**



INDEX		
PART-III		
<b>Checklist of Forms and other information/ documents for tariff filing for Transmission System &amp; Communication System</b>		
Form No.	Title of Tariff Filing Forms (Transmission & Communication System)	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	X
FORM- 4A	Statement of Capital cost	X
FORM- 4B	Statement of Capital Works in Progress	X
FORM- 4C	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New Project/Element	X
FORM-5	Element wise Break-up of Project/Asset/Element Cost for Transmission System	X
FORM-5A	Break-up of Construction/Supply/Service packages	X
FORM-5B	Details of all the assets covered in the project	X
FORM- 6	Financial Package upto COD	X
FORM- 7	Statement of Additional Capitalisation after COD	✓
FORM- 7A	Financing of Additional Capitalisation	X
FORM- 7B	Statement of Additional Capitalisation during fag end of the Project	X
FORM- 8	Calculation of Return on Equity	✓
FORM-8A	Details of Foreign Equity	X
FORM-9	Details of Allocation of corporate loans to various transmission elements	X
FORM-9A	Details of Project Specific Loans	X
FORM-9B	Details of Foreign loans	X
FORM-9C	Calculation of Weighted Average Rate of Interest on Actual Loans	✓
FORM-9D	Loans in Foreign Currency	X
FORM-9E	Calculation of Interest on Normative Loan	✓
FORM- 10	Calculation of Depreciation Rate on original project cost	✓
FORM- 10A	Statement of Depreciation	✓
FORM- 10B	Statement of De-capitalisation	X
FORM- 11	Calculation of Interest on Working Capital	✓
FORM- 12	Details of time over run	X
FORM- 12A	Incidental Expenditure during Construction	X
FORM- 12B	Calculation of IDC & Financing Charges	X
FORM- 13	Details of Initial spares	X
FORM- 14	Non-Tariff Income	X
FORM- 15	Summary of issue involved in the petition	✓
Appen-1	O & M Expenses details	✓
Appen-2	Statement of capital cost (Input Data)	✓
Appen-3	Cost Savings in Interest due Loan Restructuring	✓
<b>Other Information/ Documents</b>		
Sl. No.	Information/Document	Tick
1	Certificate of incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association (For New Project(s) setup by a company making tariff application for the first time to CERC)	X
2	Region wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures for the new Transmission System & Communication System for the relevant years.	X
3	Copies of relevant loan Agreements	X
4	Copies of the approval of Competent Authority for the <b>Capital Cost</b> and Financial package.	X
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	X
6	Copies of the BPTA/TSA/PPA with the beneficiaries, if any	X
7	Detailed note giving reasons of cost and time over run, if applicable.	X
	List of supporting documents to be submitted: a.Detailed Project Report b.CPM Analysis c.PERT Chart and Bar Chart d.Justification for cost and time Overrun	X
8	Transmission Licensee shall submit copy of Cost Audit Report along with cost accounting records, cost details, statements, schedules etc. for the transmission system as submitted to the Govt. of India for first two years i.e. 2014-15 and 2015-16 at the time of mid-term true-up in 2016-17 and for balance period of tariff period 2014-19 at the time of final true-up in 2024-25. In case of initial tariff filing the latest available Cost Audit Report should be furnished.	X
9	Any other relevant information, (Please specify)	X

**Note1:** Electronic copy of the petition (in word format) and detailed calculation as per these formats (in excel format) and any other information submitted shall also be furnished in the form of CD/Floppy disc.



**PART-III**  
**Form-1**

**Summary Sheet**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO DSTPS)**

(Amt in Rs. Lakhs)

S.N o.	Particulars	Unit	Form Reference	2024-25	2025-26	2026-27	2027-28	2028-29
1	2		3	6	7	8	9	10
<b>A</b>	<b>Cost components as per Regulations 30, 31, 32, 33, 34, 35 of the CERC (Terms and Conditions of Tariff) Regulations, 2019, to be recovered on the basis of availability</b>							
A.1	Depreciation	Rs. Lakhs	Form-10A	49.19	49.19	49.19	49.19	49.19
A.2	Interest on Loan	Rs. Lakhs	Form-9E	22.16	17.71	13.27	8.82	4.37
A.3	Return on Equity <sup>1</sup>	Rs. Lakhs	Form-8	54.10	54.10	54.10	54.10	54.10
A.4	Interest on Working Capital	Rs. Lakhs	Form-11	4.59	4.66	4.74	4.81	4.91
A.5	O & M Expenses	Rs. Lakhs	Appen-I-O & M	62.41	65.68	69.13	72.76	76.57
	<b>Sub-total: A</b>	<b>Rs in Lakh</b>		<b>192.46</b>	<b>191.35</b>	<b>190.43</b>	<b>189.69</b>	<b>189.15</b>
<b>B</b>	<b>Cost components as per Regulation 34 (3) (c) , 72 &amp; 76 of the CERC (Terms and Conditions of Tariff) Regulations 2019, Subsequent CERC/Court Orders, and the DVC Act, to be recovered in full on sharing basis</b>							
B.1	DVC's share of savings in interest cost due to loan restructuring	Rs in Lakh	Appn-3 Loan Restr	2.51	2.01	1.51	1.00	0.50
	<b>Sub-total: B</b>	<b>Rs in Lakh</b>		<b>2.51</b>	<b>2.01</b>	<b>1.51</b>	<b>1.00</b>	<b>0.50</b>
	<b>Grand Total</b>			<b>194.97</b>	<b>193.36</b>	<b>191.93</b>	<b>190.69</b>	<b>189.64</b>

Note

1: Details of calculations, considering equity as per regulation, to be furnished (As per Form 8).



**DETAILS OF TRANSMISSION LINES & SUBSTATIONS & COMMUNICATION SYSTEM**

Name of the Petitioner: Damodar Valley Corporation

Name of the Region: Eastern Region

Name of the Project: Transmission &amp; Distribution System

Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO DSTPS)

**Transmission Lines:**

S. No.	Name of line	Type of line AC/HVDC	S/C or D/C	No. of Sub-Conductors	Voltage level kV	Line length Ckt.- km.	Line length km	Date of Commercial operation		Covered in the present petition	
										Yes/No	If No, petition No.
	EXISTING LINES										
1	Single Circuit LILO of 400 KV D/C Durgapur (PG) – Jamshedpur (PG) at DSTPS --- Twin Moose Conductor	AC	D/C	2	400 KV	7.78	3.89	1-Feb-11		Yes	-----
2	Single Circuit LILO of 400 KV D/C Maithon (PG) – Ranchi(PG) at RTPS (DOCO 01.07.2012)	AC	D/C	2	400 KV	21.126	10.563	1-Jul-12		Yes	-----
3	Double Circuit 400 KV DSTPS - RTPS --- Twin Moose (DOCO 01.08.2013)	AC	D/C	2	400 KV	139	69.5	1-Aug-13		Yes	-----
	NEW LINES										
4	Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor	AC	D/C	4	400 KV	311	155.5	30.08.2017		Yes	-----

**Substations:**

S.NO.	Name of Sub-station	Type of Substation Conventional(Greenfield/ Brownfield)/	Voltage level kV	No. of transformers	No. of Bays				Date of Commercial operation		Covered in the	
					765 kV	400 kV	220 kV	132 kV & Below			Yes/No	If No, petition No.
1	TWO NOS. 400 KV BAYS FOR S/C LILO JAMSHEDPUR(PG)-DURGAPUR(PG) TRANSMISSION LINE AT DSTPS(ANDAL) END		400kv			2			1-Feb-11		Yes	-----



**PART-III**  
**Form-3**

**Normative parameters considered for tariff computations**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO DSTPS)**

**Year Ending March**

Particulars	Unit	2024-25	2025-26	2026-27	2027-28	2028-29
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Base Rate of Return on Equity	%	15.50%	15.50%	15.50%	15.50%	15.50%
Tax Rate	%	25.17%	25.17%	25.17%	25.17%	25.17%
Effective tax rate <sup>1</sup>	%	25.17%	25.17%	25.17%	25.17%	25.17%
Target Availability	%	98	98	98	98	98
<b>Normative O&amp;M per km</b>	Rs. Lakh					
Single Circuit (Bundled Conductor with six or more sub-conductor)		0.861	0.906	0.953	1.003	1.056
Single Circuit (Bundled Conductor with four sub-conductors)		0.738	0.776	0.817	0.86	0.905
Single Circuit (Twin & Triple conductor)		0.492	0.518	0.545	0.573	0.603
Single Circuit (Single conductor)		0.246	0.259	0.272	0.287	0.302
Double Circuit (Bundled Conductor with four or more sub-conductors)		1.291	1.359	1.43	1.506	1.585
Double Circuit (Twin & Triple conductor)		0.861	0.906	0.953	1.003	1.056
Double Circuit (Single conductor)		0.369	0.388	0.409	0.43	0.453
Multi Circuit (Bundled Conductor with four or more sub-conductors)		2.266	2.385	2.51	2.642	2.781
Multi Circuit (Twin & Triple conductor)		1.509	1.588	1.671	1.759	1.851
<b>Normative O&amp;M per bay</b>	Rs. Lakh					
765 kV		41.34	43.51	45.79	48.2	50.73
400 kV		29.53	31.08	32.71	34.43	36.23
220 kV		20.67	21.75	22.9	24.1	25.36
132 kV and below		15.78	16.61	17.48	18.4	19.35
<b>Normative O&amp;M for Transformers per MVA</b>	Rs. Lakh					
765 kV		0.262	0.276	0.29	0.305	0.322
400 kV		0.262	0.276	0.29	0.305	0.322
220 kV		0.262	0.276	0.29	0.305	0.322
132 kV and below		0.262	0.276	0.29	0.305	0.322
Spares for WC as % of O&M	%	15	15	15	15	15
Receivables in days for WC	Days	45	45	45	45	45
Bank Rate as on 1.04.2024 (SBI 1Y MCLR+325 basis points)	%	11.90%	11.90%	11.90%	11.90%	11.90%

1.To be supported by necessary documents and calculations. Effective tax rate is to be computed in accordance with Regulation 25 i.e. actual tax (or estimated tax)/gross income, where gross income refers the profit before tax.

2.Mention relevant date



Statement of Additional Capitalisation after COD

Name of the Petitioner: Damodar Valley Corporation

Name of the Region: Eastern Region

Name of the Project: Transmission &amp; Distribution System

Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO DSTPS)

COD 01-Aug-13

Sr. No.	Year	Work/Equipment proposed to be added after COD upto Cut off Date/ beyond Cut-off Date	Amount capitalized /Proposed to be capitalized (Rs Lakh)	New or Replacement	SUB STATION or LINE or COMMUNICATION	NAME	COD of old asset (in case of replaced items)	Justification	Regulations under which covered	Admitted Cost <sup>1</sup> (Rs Lakh)
(1)	(2)	(3)	(4)					(5)	(6)	(7)
<b>F.Y 2024-25</b>										
1	2024-25	400 KV ISTS Line (LILO DSTPS)							14(1)(i)	
		<b>TOTAL ( 2024-25)</b>	<b>0.00</b>							
<b>F.Y 2025-26</b>										
1	2025-26	400 KV ISTS Line (LILO DSTPS)							14(1)(i)	
		<b>TOTAL ( 2025-26)</b>	<b>0.00</b>							
<b>F.Y 2026-27</b>										
1	2026-27	400 KV ISTS Line (LILO DSTPS)							14(3)(v)	
		<b>Total (2026-27)</b>	<b>0.00</b>							
<b>F.Y 2027-28</b>										
1	2027-28	400 KV ISTS Line (LILO DSTPS)							14(3)(v)	
		<b>TOTAL ( 2027-28)</b>	<b>0.00</b>							
<b>F.Y 2028-29</b>										
1	2028-29	400 KV ISTS Line (LILO DSTPS)							14(3)(v)	
		<b>TOTAL (2028-29)</b>	<b>0.00</b>							



**PART-III**  
**Form-8**

**Calculation of Return on Equity at Normal Rate**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO DSTPS)** (Amt. in Lakhs)

S.N o.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	4	5	6	7	8
1.1	Equity as on COD/Admitted equity #	261.20	261.20	261.20	261.20	261.20
1.2	Notional Equity for Add Cap after cut-off date	-	-	-	-	-
1.3	Notional Equity for Add Cap after completion of useful life	-	-	-	-	-
<b>1.4</b>	<b>Total Equity</b>	261.20	261.20	261.20	261.20	261.20
1.5	Return on Equity on project cost till Cutoff date	20.71%	20.71%	20.71%	20.71%	20.71%
<b>1.6</b>	<b>Return on Equity on Add Cap</b>	<b>54.10</b>	<b>54.10</b>	<b>54.10</b>	<b>54.10</b>	<b>54.10</b>

**Note:- 1: \* - To be calculated on average equity during the year.**



FORM-9C						
Calculation of Weighted Average Rate of Interest on Actual Loans T&D						
Name of the Petitioner	0					
	(Rs. Lakh)					
Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
<b>Loan-4 REC Loan (For T&amp;D)</b>						
Gross loan - Opening	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85
Cumulative repayments of Loans upto previous year	5,266.39	10,532.78	15,799.17	21,065.56	78,995.85	78,995.85
Net loan - Opening	73,729.46	68,463.07	63,196.68	57,930.29	-	-
Add: Drawal(s) during the Year	-	-	-	-	-	-
Less: Repayment (s) of Loans during the year	5,266.39	5,266.39	5,266.39	57,930.29	-	-
Net loan - Closing	68,463.07	63,196.68	57,930.29	-	-	-
Average Net Loan	68,679.49	65,829.87	60,563.48	6,290.78	-	-
Rate of Interest on Loan on annual basis	10.15%	10.15%	10.15%	9.98%	-	-
<b>Interest on loan</b>	<b>6,970.97</b>	<b>6,681.73</b>	<b>6,147.19</b>	<b>627.82</b>	<b>-</b>	<b>-</b>
<b>Loan - 3 Punjab &amp; Sind Bank Loan (For T&amp;D)</b>						
Gross loan - Opening				-	52,663.90	52,663.90
Cumulative repayments of Loans upto previous year				-	3,949.79	9,216.18
Net loan - Opening				-	48,714.11	43,447.72
Add: Drawal(s) during the Year				52,663.90	-	-
Less: Repayment (s) of Loans during the year				3,949.79	5,266.39	5,266.39
Net loan - Closing		-	-	48,714.11	43,447.72	38,181.33
Average Net Loan pro-rated based on repayment date (see Note -5)		-	-	46,845.64	46,080.92	40,814.53
Rate of Interest on Loan on annual basis (refer Note below **)				7.80%	7.76%	8.72%
<b>Interest on loan</b>				<b>3,653.96</b>	<b>3,577.99</b>	<b>3,559.01</b>
<b>Loan-4(i): Share of GoI Guaranteed DVC Bonds (Series - 14 - Rs. 4,400 Crore) (Drawn On 30.03.2012)</b>						
Gross loan - Opening	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Cumulative repayments of Loans upto previous year	-	-	-	-	-	-
Net loan - Opening	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Add: Drawal(s) during the Year	-	-	-	-	-	-
Less: Repayment (s) of Loans during the year	-	-	-	-	-	-
Net loan - Closing	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Average Net Loan	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Rate of Interest on Loan on annual basis	10.30%	10.30%	10.80%	10.53%	10.44%	10.34%
<b>Interest on loan</b>	<b>1,030.00</b>	<b>1,030.00</b>	<b>1,080.11</b>	<b>1,053.36</b>	<b>1,044.15</b>	<b>1,034.12</b>
<b>Total Loan</b>						
Gross loan - Opening	88,995.85	88,995.85	88,995.85	88,995.85	141,659.75	141,659.75
Cumulative repayments of Loans upto previous year	5,266.39	10,532.78	15,799.17	21,065.56	82,945.64	88,212.03
Net loan - Opening	83,729.46	78,463.07	73,196.68	67,930.29	58,714.11	53,447.72
Add: Drawal(s) during the Year	-	-	-	52,663.90	-	-
Less: Repayment (s) of Loans during the year	5,266.39	5,266.39	5,266.39	61,880.08	5,266.39	5,266.39
Net loan - Closing	78,463.07	73,196.68	67,930.29	58,714.11	53,447.72	48,181.33
Average Net Loan	78,679.49	75,829.87	70,563.48	63,136.42	56,080.92	50,814.53
<b>Interest on loan</b>	<b>8,000.97</b>	<b>7,711.73</b>	<b>7,227.31</b>	<b>5,335.14</b>	<b>4,622.14</b>	<b>4,593.13</b>
<b>Weighted average Rate of Interest on Loans</b>	<b>10.17%</b>	<b>10.17%</b>	<b>10.24%</b>	<b>8.45%</b>	<b>8.24%</b>	<b>9.04%</b>
<b>Note:</b>						
1. In case of Foreign Loans, the calculations in Indian Rupees is to be furnished. However, the calculations in Original currency is also to be furnished separately in the same form.						



**PART-III  
FORM- 9E**

**Calculation of Interest on Normative Loan**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO DSTPS)**

(Amount in Rs. Lakh)

Particulars	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	2	3	4	5	6
Gross Normative loan - Opening #	609.5	609.46	609.46	609.46	609.46	609.46
Cumulative repayment of Normative Loan upto previous year	290.5	339.70	388.89	438.08	487.28	536.47
<b>Net Normative loan - Opening</b>	<b>319.0</b>	<b>269.76</b>	<b>220.57</b>	<b>171.38</b>	<b>122.18</b>	<b>72.99</b>
Add: Increase due to addition during the year / period	0.00	0.00	0.00	0.00	0.00	0.00
Less: Decrease due to repayment during the year / period	49.19	49.19	49.19	49.19	49.19	49.19
Less: Decrease due to de-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00	0.00
Less: Decrease due to reversal during the year / period	0.00	0.00	0.00	0.00	0.00	0.00
Add: Increase due to discharges during the year / period	0	0.00	0.00	0.00	0.00	0.00
<b>Net Normative loan - Closing</b>	<b>270</b>	<b>220.57</b>	<b>171.38</b>	<b>122.18</b>	<b>72.99</b>	<b>23.80</b>
Average Normative Loan	294.36	245.16	195.97	146.78	97.59	48.40
Weighted average Rate of Interest of actual Loans	9.04%	9.04%	9.04%	9.04%	9.04%	9.04%
<b>Interest on Normative loan</b>	<b>26.61</b>	<b>22.16</b>	<b>17.71</b>	<b>13.27</b>	<b>8.82</b>	<b>4.37</b>

**Note:**

1. At the time of true-up net savings as a result of refinancing of loans may be provided along with adjustments of sharing.



**PART-III  
FORM- 10**

**Calculation of Depreciation Rate on Original Project Cost**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO DSTPS)**

Amount in Rs. Lakh

Sl. no.	Name of the Assets <sup>1</sup>	Gross Block as on 31.03.2019 or as on COD, whichever is later and subsequently for each year thereafter upto 31.3.24	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount for each year up to 31.03.24
	1	2	3	4= Col.2 X Col.3
1	Land			
2	Building			
3	and so on			
4				
	<b>TOTAL</b>			
	<b>Weighted Average Rate of Depreciation (%) *</b>		<b>5.65%</b>	

Note:

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

**Note: \* Rate of depreciation is as considered for FY 2023-24**



**Statement of Depreciation**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO DSTPS)**

Sl. No.	Particulars	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
(1)	(2)	(4)	5	6	7	8	9
1	Opening Capital Cost	870.66	870.66	870.66	870.66	870.66	870.66
2	Closing Capital Cost	870.66	870.66	870.66	870.66	870.66	870.66
3	<b>Average Capital Cost</b>	<b>870.66</b>	<b>870.66</b>	<b>870.66</b>	<b>870.66</b>	<b>870.66</b>	<b>870.66</b>
4	Freehold land	0.00	0.00	0.00	0.00	0.00	0.00
5	Rate of depreciation	5.650%	5.650%	5.650%	5.650%	5.650%	5.650%
6	Depreciable value	783.59	783.59	783.59	783.59	783.59	783.59
7	Balance useful life at the beginning of the period						
8	Remaining depreciable value	493.08	443.89	394.70	345.51	296.32	247.12
9	<b>Depreciation (for the period)</b>	<b>49.19</b>	<b>49.19</b>	<b>49.19</b>	<b>49.19</b>	<b>49.19</b>	<b>49.19</b>
10	<b>Depreciation (annualised)</b>	<b>49.19</b>	<b>49.19</b>	<b>49.19</b>	<b>49.19</b>	<b>49.19</b>	<b>49.19</b>
11	Cumulative depreciation at the end of the period	339.70	388.89	438.08	487.28	536.47	585.66
12	Less: Cumulative depreciation adjustment on account of de-capitalisation	0.00	0.00	0.00	0.00	0.00	0.00
13	Net Cumulative depreciation at the end of the period	339.70	388.89	438.08	487.28	536.47	585.66

1. In case of details of FERV and AAD, give information for the applicable period.



**PART-III  
FORM-11**

**Calculation of Interest on Working Capital**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO DSTPS)**  
(Rs. Lakhs)

Sl. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
<b>1</b>	<b>2</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>
		365	365	365	366	365
1	O & M Expenses	5.20	5.47	5.76	6.06	6.38
2	Maintenance Spares	9.36	9.85	10.37	10.91	11.49
3	Receivables	24.04	23.84	23.66	23.45	23.38
<b>4</b>	<b>Total Working Capital</b>	<b>38.60</b>	<b>39.17</b>	<b>39.79</b>	<b>40.42</b>	<b>41.25</b>
5	Rate of Interest	11.90%	11.90%	11.90%	11.90%	11.90%
<b>6</b>	<b>Interest on Working Capital</b>	<b>4.59</b>	<b>4.66</b>	<b>4.74</b>	<b>4.81</b>	<b>4.91</b>



Normative O & M Expenses details for LILO - DSTPS Transmission Line Sub Station (Bays)							
Name of the Petitioner: Damodar Valley Corporation						PART-III	
Name of the Region: Eastern Region						Appendix-1	
Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO DSTPS)							
Sl No.	Sub Station		O&M Rate (Rs in lakhs/bay)				Amount (Rs in Lakhs)
			765kV	400 KV	220 KV	132 KV and below	
1	2024-25		41.34	29.53	20.67	15.78	
2	2025-26		43.51	31.08	21.75	16.61	
3	2026-27		45.79	32.71	22.9	17.48	
4	2027-28		48.2	34.43	24.1	18.4	
5	2028-29		50.73	36.23	25.36	19.35	
NUMBER OF SUB-STATION BAYS (LILO DSTPS) EXISTING AS ON 31.03.2024 & CONSIDERED FOR O&M			765kV	400 KV	220 KV	132 KV and below	
				2			59.06
FY2024-25							
		COD					
Bays added during 2024-25							
	TOTAL 2024-25		0	2	0	0	59.060
FY 2025-26							
	Existing on 31st March 2025	COD	0	2	0	0	
	TOTAL 2025-26		0	2	0	0	62.160
FY 2026-27							
	Existing on 31st March 2026	COD	0	2	0	0	
	TOTAL 2026-27		0	2	0	0	65.42
FY 2027-28							
	Existing on 31st March 2027	COD	0	2	0	0	68.860
FY 2028-29							
	TOTAL 2028-29	COD	0	2	0	0	72.460
TRANSMISSION LINE							
O & M							
Line							
	Line		Rate (Rs in lakhs/km)				
			S/C Single Conductor	D/C Single Conductor	D/C Double Conductor	D/C Four Conductor	
1	2024-25		0.246	0.369	0.861	1.291	
2	2025-26		0.259	0.388	0.906	1.359	
3	2026-27		0.272	0.409	0.953	1.43	
4	2027-28		0.287	0.43	1.003	1.506	
5	2028-29		0.302	0.453	1.056	1.585	
Sl No.	Line		KM				Amount (Rs in Lakhs)
			S/C Single Conductor	D/C Single Conductor	D/C Double Conductor	D/C Four Conductor	
FY2024-25							
		COD					
	Existing on 31st March 2024		0	0	3.89	0	3.349
	TOTAL 2024-25		0	0	0	0	0.000
FY 2025-26							
	Existing on 31st March 2025	COD	0	0	3.89	0	3.524
	TOTAL 2025-26 ADDITION		0	0	0	0	0.000
FY 2026-27							
	Existing on 31st March 2026	COD	0	0	3.89	0	3.707
	TOTAL 2026-27 ADDITION		0.000	0.000	0.000	0.000	0.000
FY 2027-28							
	Existing on 31st March 2027	COD	0	0	3.89	0	3.902
	TOTAL 2027-28 ADDITION		0	0	0	0	0.000
FY 2028-29							
	Existing on 31st March 2028	COD	0	0	3.89	0	4.108
	TOTAL 2028-29 ADDITION		0	0	0	0	0.000
Note:							
	O & M (Rs. In Lakhs) for New Elements Added during 2014-19						
		2024-25	2025-26	2026-27	2027-28	2028-29	
	Transmission Line	3.35	3.52	3.71	3.90	4.11	
	Sub Station	59.06	62.16	65.42	68.86	72.46	
	Total -Transmission O&M	62.41	65.68	69.13	72.76	76.57	
	GRAND TOTAL O&M	62.41	65.68	69.13	72.76	76.57	



Statement of capital cost						
Name of the Petitioner: Damodar Valley Corporation						PART-III Appen-2
Name of the Region: Eastern Region						
Name of the Project: Transmission & Distribution System						
Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO DSTPS)						
(Rs in Lakhs)						
PARTICULARS	Capital cost as on 31.3.2024	PROJECTED				
		2024-25	2025-26	2026-27	2027-28	2028-29
CAPITAL COST AND ADD CAP	870.66					
ADDITIONAL CAPITALIZATION						
DECAPITALISATION		0.00	0.00	0.00	0.00	0.00
CUMMULATIVE CAPITAL COST	870.66	870.66	870.66	870.66	870.66	870.66
AVERAGE		870.66	870.66	870.66	870.66	870.66
EQUITY ADDED DURING THE YEAR		0.00	0.00	0.00	0.00	0.00
EQUITY REDUCTION DUE TO DECAPITALISATION						
CUMMULATIVE EQUITY	261.20	261.20	261.20	261.20	261.20	261.20
AVERAGE		261.20	261.20	261.20	261.20	261.20
NORMATIVE LOAN ADDED DURING THE YEAR		0.00	0.00	0.00	0.00	0.00
LOAN REDUCTION DUE TO DECAPITALISATION						
CUMMULATIVE LOAN	609.46	609.46	609.46	609.46	609.46	609.46
AVERAGE		609.46	609.46	609.46	609.46	609.46
DEPRECIATION						
CAPITAL COST OPENING	870.66	870.66	870.66	870.66	870.66	870.66
CAPITAL COST CLOSING		870.66	870.66	870.66	870.66	870.66
AVERAGE CAPITAL COST		870.66	870.66	870.66	870.66	870.66
RATE OF DEPRECIATION		5.65%	5.65%	5.65%	5.65%	5.65%
FREEHOLD LAND						
90% DEPRECIABLE VALUE EXCLUDING LAND & LAND RIGHTS		783.59	783.59	783.59	783.59	783.59
CUMULATIVE DEPRECIATION AS ON 1ST APRIL		339.70	388.89	438.08	487.28	536.47
ADJUSTMENT OF CUM. DEPR. DUE TO UNDISCHARGED LIABILITY UP TP PREV. YEAR		0.00	0.00	0.00	0.00	0.00
ADJUSTED CUM. DEPR. AS ON 1ST APRIL		339.70	388.89	438.08	487.28	536.47
BALANCE DPRECIABLE VALUE		443.89	394.70	345.51	296.32	247.12
DEPRECIATION TO BE RECOVERED		49.19	49.19	49.19	49.19	49.19
CUMMALATIVE DEPRECIATION		388.89	438.08	487.28	536.47	585.66
CUMMALATIVE DEPRECIATION ADJUSTMENT ON ACCOUNT OF DISCHARGE OF LIABILITIES		0.00	0.00	0.00	0.00	0.00
ADJUSTMENT OF DECAPITALISATION		0.00	0.00	0.00	0.00	0.00
NET CUMULATIVE DEPRECIATION AT THE END OF THE PERIOD		388.89	438.08	487.28	536.47	585.66
Note :- 400 kV LILO DSTPS, LILO RTPS, DSTPS-RTPS Transmission Lines owned by DVC declared ISTS by ERPC.						



**Calculation of Savings due to Loan Re-financing**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO DSTPS)**

(Amount in Rs. Lakh)

Particulars	Existing 2018-19	2024-25	2025-26	2026-27	2027-28	2028-29
<b>Loan-1 REC Loan (For T&amp;D)</b>						
Gross loan - Opening	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85
Cumulative repayments of Loans upto previous year	5,266.39	10,532.78	15,799.17	21,065.56	26,331.95	31,598.34
Net loan - Opening	73,729.46	68,463.07	63,196.68	57,930.29	52,663.90	47,397.51
Add: Drawal(s) during the Year	-	-	-	-	-	-
Less: Repayment (s) of Loans during the year	5,266.39	5,266.39	5,266.39	5,266.39	5,266.39	5,266.39
Net loan - Closing	68,463.07	63,196.68	57,930.29	52,663.90	47,397.51	42,131.12
Average Net Loan	68,679.49	65,829.87	60,563.48	55,297.09	50,030.70	44,764.31
Rate of Interest on Loan on annual basis	11.09%	11.09%	11.09%	11.09%	11.09%	11.09%
<b>Interest on loan</b>	<b>7,616.56</b>	<b>7,300.53</b>	<b>6,716.49</b>	<b>6,132.45</b>	<b>5,548.40</b>	<b>4,964.36</b>
<b>Total Loan</b>						
Gross loan - Opening	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85
Cumulative repayments of Loans upto previous year	5,266.39	10,532.78	15,799.17	21,065.56	26,331.95	31,598.34
Net loan - Opening	73,729.46	68,463.07	63,196.68	57,930.29	52,663.90	47,397.51
Add: Drawal(s) during the Year	-	-	-	-	-	-
Less: Repayment (s) of Loans during the year	5,266.39	5,266.39	5,266.39	5,266.39	5,266.39	5,266.39
Net loan - Closing	68,463.07	63,196.68	57,930.29	52,663.90	47,397.51	42,131.12
Average Net Loan	68,679.49	65,829.87	60,563.48	55,297.09	50,030.70	44,764.31
<b>Interest on loan</b>	<b>7,616.56</b>	<b>7,300.53</b>	<b>6,716.49</b>	<b>6,132.45</b>	<b>5,548.40</b>	<b>4,964.36</b>
<b>Weighted average Rate of Interest on Loans</b>	<b>11.09%</b>	<b>11.09%</b>	<b>11.09%</b>	<b>11.09%</b>	<b>11.09%</b>	<b>11.09%</b>

**Computation of net savings on interest due to loan re-financing:**

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
Average Normative loan (refer Form-9E)	245.16	195.97	146.78	97.59	48.40
Weighted Average Rate of Interest on Loans - without loan re-financing	11.09%	11.09%	11.09%	11.09%	11.09%
Interest on normative loan - without loan re-financing (A)	27.19	21.73	16.28	10.82	5.37
Actual Weighted Average Rate of Interest on Loans - with loan re-financing (refer Form-9E)	9.04%	9.04%	9.04%	9.04%	9.04%
Interest on normative loan - with loan re-financing (refer Form-9E)	22.16	17.71	13.27	8.82	4.37
Net savings on interest due to loan re-financing (C = A - B)	5.03	4.02	3.01	2.00	0.99
<b>DVC's share in the net savings on interest due to loan re-financing as per Reg. 61(1) of CERC Tariff Regulations 2019 (D = C/2)</b>	<b>2.51</b>	<b>2.01</b>	<b>1.51</b>	<b>1.00</b>	<b>0.50</b>

**Note:**

1. In case of Foreign Loans, the calculations in Indian Rupees is to be furnished. However, the calculations in Original currency is also to be furnished separately in the same form.



**TARIFF FILING FORMS  
FOR  
ISTS SYSTEM - LILO RTPS PORTION  
FOR DETERMINATION OF TARIFF  
FOR 2024-29 PERIOD**

**ANNEXURE - G**



INDEX		
PART-III		
<b>Checklist of Forms and other information/ documents for tariff filing for Transmission System &amp; Communication System</b>		
Form No.	Title of Tariff Filing Forms (Transmission & Communication System)	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	X
FORM- 4A	Statement of Capital cost	X
FORM- 4B	Statement of Capital Works in Progress	X
FORM- 4C	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New Project/Element	X
FORM-5	Element wise Break-up of Project/Asset/Element Cost for Transmission System	X
FORM-5A	Break-up of Construction/Supply/Service packages	X
FORM-5B	Details of all the assets covered in the project	X
FORM- 6	Financial Package upto COD	X
FORM- 7	Statement of Additional Capitalisation after COD	✓
FORM- 7A	Financing of Additional Capitalisation	X
FORM- 7B	Statement of Additional Capitalisation during fag end* of the Project	X
FORM- 8	Calculation of Return on Equity	✓
FORM-8A	Details of Foreign Equity	X
FORM-9	Details of Allocation of corporate loans to various transmission elements	X
FORM-9A	Details of Project Specific Loans	X
FORM-9B	Details of Foreign loans	X
FORM-9C	Calculation of Weighted Average Rate of Interest on Actual Loans	✓
FORM-9D	Loans in Foreign Currency	X
FORM-9E	Calculation of Interest on Normative Loan	✓
FORM- 10	Calculation of Depreciation Rate on original project cost	✓
FORM- 10A	Statement of Depreciation	✓
FORM- 10B	Statement of De-capitalisation	X
FORM- 11	Calculation of Interest on Working Capital	✓
FORM- 12	Details of time over run	X
FORM- 12A	Incidental Expenditure during Construction	X
FORM- 12B	Calculation of IDC & Financing Charges	X
FORM- 13	Details of Initial spares	X
FORM- 14	Non-Tariff Income	X
FORM- 15	Summary of issue involved in the petition	✓
Appen-1	O & M Expenses details	✓
Appen-2	Statement of capital cost (Input Data)	✓
Appen-3	Savings in Interest due Loan Refinancing	✓
Appen-4	Sanction Order	x
<b>Other Information/ Documents</b>		
Sl. No.	Information/Document	Tick
1	Certificate of incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association (For New Project(s) setup by a company making tariff application for the first time to CERC)	X
2	Region wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures for the new Transmission System & Communication System for the relevant years.	X
3	Copies of relevant loan Agreements	X
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package.	X
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	X
6	Copies of the BPTA/TSA/PPA with the beneficiaries, if any	X
7	Detailed note giving reasons of cost and time over run, if applicable.	X
	List of supporting documents to be submitted: a.Detailed Project Report b.CPM Analysis c.PERT Chart and Bar Chart d.Justification for cost and time Overrun	X
8	Transmission Licensee shall submit copy of Cost Audit Report along with cost accounting records, cost details, statements, schedules etc. for the transmission system as submitted to the Govt. of India for first two years i.e. 2019-20 and 2025-26 at the time of mid-term true-up in 2021-22 and for balance period of tariff period 2019-24 at the time of final true-up in 2024-25. In case of initial tariff filing the latest available Cost Audit Report should be furnished.	X
9	BBMB is maintaining the records as per the relevant applicable Acts. Formats specified herein may not be suitable to the available information with BBMB. BBMB may modify formats suitably as per available information to them for submission of required information for tariff purpose.	X
10	Any other relevant information, (Please specify)	X
<b>Note1:</b> Electronic copy of the petition (in word format) and detailed calculation as per these formats (in excel format) and any other information submitted shall also be furnished in the form of CD/Floppy disc.		



**PART-III  
FORM-1**

**Summary Sheet**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO RTPS)**

Amount in Rs. Lakh

S.N o.	Particulars	Unit	Form Reference	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	6	7	8	9	10
<b>A</b>	<b>Cost components as per Regulations 30, 31, 32, 33, 34, 35 of the CERC (Terms and Conditions of Tariff) Regulations, 2019, to be recovered on the basis of availability</b>							
1.1	Depreciation	Rs in Lakh	Form-10A	122.74	122.74	122.74	122.74	122.74
1.2	Interest on Loan	Rs in Lakh	Form-9E	55.64	44.54	33.45	22.35	11.26
1.3	Return on Equity <sup>1</sup>	Rs in Lakh	Form-8	135.00	135.00	135.00	135.00	135.00
1.4	Interest on Working Capital	Rs in Lakh	Form-11	7.70	7.67	7.64	7.62	7.63
1.5	O & M Expenses	Rs in Lakh	Appen-1-O&M (2024-29)	68.15	71.73	75.49	79.45	83.61
	<b>Sub-total: A</b>	<b>Rs in Lakh</b>		<b>389.22</b>	<b>381.67</b>	<b>374.31</b>	<b>367.16</b>	<b>360.23</b>
<b>B</b>	<b>Cost components as per Regulation 34 (3) (c) , 72 &amp; 76 of the CERC (Terms and Conditions of Tariff) Regulations 2019, Subsequent CERC/Court Orders, and the DVC Act, to be recovered in full on sharing basis</b>							
B.4	DVC's share of savings in interest cost due to loan restructuring	Rs in Lakh	Appn-3 Loan Restr	6.31	5.05	3.79	2.54	1.28
	<b>Sub-total: B</b>	<b>Rs in Lakh</b>		<b>6.31</b>	<b>5.05</b>	<b>3.79</b>	<b>2.54</b>	<b>1.28</b>
	<b>Grand Total</b>	<b>Rs in Lakh</b>		<b>395.54</b>	<b>386.73</b>	<b>378.11</b>	<b>369.70</b>	<b>361.51</b>

Note

1: Details of calculations, considering equity as per regulation, to be furnished (As per Form 8).



**DETAILS OF TRANSMISSION LINES & SUBSTATIONS & COMMUNICATION SYSTEM**

Name of the Petitioner: Damodar Valley Corporation

Name of the Region: Eastern Region

Name of the Project: Transmission &amp; Distribution System

Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO RTPS)

**Transmission Lines:**

S. No.	Name of line	Type of line AC/HVDC	S/C or D/C	No. of Sub-Conductors	Voltage level kV	Line length Ckt.- km.	Line length km	Date of Commercial operation		Covered in the present petition		
										Yes/No	If No, petition No.	
	EXISTING LINES											
1	Single Circuit LILO of 400 KV D/C Durgapur (PG) – Jamshedpur (PG) at DSTPS --- Twin Moose Conductor	AC	D/C	2	400 KV	7.78	3.89	1-Feb-11		Yes	-----	
2	Single Circuit LILO of 400 KV D/C Maithon (PG) – Ranchi(PG) at RTPS (DOCO 01.07.2012)	AC	D/C	2	400 KV	21.126	10.563	1-Jul-12		Yes	-----	
3	Double Circuit 400 KV DSTPS - RTPS --- Twin Moose (DOCO 01.08.2013)	AC	D/C	2	400 KV	139	69.5	1-Aug-13		Yes	-----	
	NEW LINES											
4	Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor	AC	D/C	4	400 KV	311	155.5	30.08.2017		Yes	-----	
Substations:												
S.NO.	Name of Sub-station	Type of Substation Conventional(Greenfield/ Brownfield)/ 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	
					765 kV	400 kV	220 kV	132 kV & Below			Yes/No	If No, petition No.
1	TWO NOS. 400 KV BAYS FOR S/C LILO MAITHON(PG)- RANCHI(PG) TRANSMISSION LINE AT RTPS(RAGHUNATHPUR) END		400KV			2			1-Jul-12		Yes	-----



**Normative parameters considered for tariff computations**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO RTPS)**

**Year Ending March**

Particulars	Unit	2024-25	2025-26	2026-27	2027-28	2028-29
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Base Rate of Return on Equity	%	15.50%	15.50%	15.50%	15.50%	15.50%
Tax Rate	%	25.17%	25.17%	25.17%	25.17%	25.17%
Effective tax rate <sup>1</sup>	%	25.17%	25.17%	25.17%	25.17%	25.17%
Target Availability	%	98	98	98	98	98
<b>Normative O&amp;M per km</b>	Rs. Lakh					
Single Circuit (Bundled Conductor with six or more sub-conductor)		0.861	0.906	0.953	1.003	1.056
Single Circuit (Bundled Conductor with four sub-conductors)		0.738	0.776	0.817	0.86	0.905
Single Circuit (Twin & Triple conductor)		0.492	0.518	0.545	0.573	0.603
Single Circuit (Single conductor)		0.246	0.259	0.272	0.287	0.302
Double Circuit (Bundled Conductor with four or more sub-conductors)		1.291	1.359	1.43	1.506	1.585
Double Circuit (Twin & Triple conductor)		0.861	0.906	0.953	1.003	1.056
Double Circuit (Single conductor)		0.369	0.388	0.409	0.43	0.453
Multi Circuit (Bundled Conductor with four or more sub-conductors)		2.266	2.385	2.51	2.642	2.781
Multi Circuit (Twin & Triple conductor)		1.509	1.588	1.671	1.759	1.851
<b>Normative O&amp;M per bay</b>	Rs. Lakh					
765 kV		41.34	43.51	45.79	48.2	50.73
400 kV		29.53	31.08	32.71	34.43	36.23
220 kV		20.67	21.75	22.9	24.1	25.36
132 kV and below		15.78	16.61	17.48	18.4	19.35
<b>Normative O&amp;M for Transformers per MVA</b>	Rs. Lakh					
765 kV		0.262	0.276	0.29	0.305	0.322
400 kV		0.262	0.276	0.29	0.305	0.322
220 kV		0.262	0.276	0.29	0.305	0.322
132 kV and below		0.262	0.276	0.29	0.305	0.322
Spares for WC as % of O&M	%	15	15	15	15	15
Receivables in Days for WC	Days	45	45	45	45	45
Bank Rate as on 1.04.2024 (SBI 1Y MCLR+325 basis points)	%	11.90%	11.90%	11.90%	11.90%	11.90%

1.To be supported by necessary documents and calculations. Effective tax rate is to be computed in accordance with Regulation 31 i.e. actual tax (or estimated tax)/gross income, where gross income refers the profit before tax.

2.Mention relevant date



Statement of Additional Capitalisation after COD

Name of the Petitioner: Damodar Valley Corporation  
 Name of the Region: Eastern Region  
 Name of the Project: Transmission & Distribution System  
 Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO RTPS)  
 COD 01-Aug-13

Sr. No.	Year	Work/Equipment proposed to be added after COD upto Cut off Date/ beyond Cut-off Date	Amount capitalized /Proposed to be capitalized (Rs Lakh)	New or Replacement	SUB STATION or LINE or COMMUNICATION	NAME	COD of old asset (in case of replaced items)	Justification	Regulations under which covered	Admitted Cost <sup>1</sup> (Rs Lakh)
(1)	(2)	(3)	(4)					(5)	(6)	(7)
<b>F.Y 2024-25</b>										
1	2024-25	400 KV ISTS Line (LILO RTPS)							14(1)(i)	
		<b>TOTAL ( 2024-25)</b>	<b>0.00</b>							
<b>F.Y 2025-26</b>										
1	2025-26	400 KV ISTS Line (LILO RTPS)							14(1)(i)	
		<b>TOTAL ( 2025-26)</b>	<b>0.00</b>							
<b>F.Y 2026-27</b>										
1	2026-27	400 KV ISTS Line (LILO RTPS)							14(3)(v)	
		<b>Total (2026-27)</b>	<b>0.00</b>							
<b>F.Y 2027-28</b>										
1	2027-28	400 KV ISTS Line (LILO RTPS)							14(3)(v)	
		<b>TOTAL ( 2027-28)</b>	<b>0.00</b>							
<b>F.Y 2028-29</b>										
1	2028-29	400 KV ISTS Line (LILO DSTPS)							14(3)(v)	
		<b>TOTAL (2028-29)</b>	<b>0.00</b>							



**PART-III  
Form-8**

**Calculation of Return on Equity at Normal Rate**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO RTPS) (Amt. in Lakhs)**

S.N o.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	4	5	6	7	8
1.1	Equity as on COD/Admitted equity #	651.72	651.72	651.72	651.72	651.72
1.2	Notional Equity for Add Cap after cut-off date	-	-	-	-	-
1.3	Notional Equity for Add Cap after completion of useful life	-	-	-	-	-
1.4	<b>Total Equity</b>	651.72	651.72	651.72	651.72	651.72
1.5	Return on Equity on project cost till Cutoff date	20.71%	20.71%	20.71%	20.71%	20.71%
1.6	<b>Return on Equity on Add Cap</b>	<b>135.00</b>	<b>135.00</b>	<b>135.00</b>	<b>135.00</b>	<b>135.00</b>

**Note:- 1: \* - To be calculated on average equity during the year.**



FORM-9C						
Calculation of Weighted Average Rate of Interest on Actual Loans T&D						
Name of the Petitioner		0				
		(Rs. Lakh)				
Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
<b>Loan-4 REC Loan (For T&amp;D)</b>						
Gross loan - Opening	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85
Cumulative repayments of Loans upto previous year	5,266.39	10,532.78	15,799.17	21,065.56	78,995.85	78,995.85
Net loan - Opening	73,729.46	68,463.07	63,196.68	57,930.29	-	-
Add: Drawal(s) during the Year	-	-	-	-	-	-
Less: Repayment (s) of Loans during the year	5,266.39	5,266.39	5,266.39	57,930.29	-	-
Net loan - Closing	68,463.07	63,196.68	57,930.29	-	-	-
Average Net Loan	68,679.49	65,829.87	60,563.48	6,290.78	-	-
Rate of Interest on Loan on annual basis	10.15%	10.15%	10.15%	9.98%	-	-
<b>Interest on loan</b>	<b>6,970.97</b>	<b>6,681.73</b>	<b>6,147.19</b>	<b>627.82</b>	<b>-</b>	<b>-</b>
<b>Loan - 3 Punjab &amp; Sind Bank Loan (For T&amp;D)</b>						
Gross loan - Opening	-	-	-	-	52,663.90	52,663.90
Cumulative repayments of Loans upto previous year	-	-	-	-	3,949.79	9,216.18
Net loan - Opening	-	-	-	-	48,714.11	43,447.72
Add: Drawal(s) during the Year	-	-	-	52,663.90	-	-
Less: Repayment (s) of Loans during the year	-	-	-	3,949.79	5,266.39	5,266.39
Net loan - Closing	-	-	-	48,714.11	43,447.72	38,181.33
Average Net Loan pro-rated based on repayment date (see Note -5)	-	-	-	46,845.64	46,080.92	40,814.53
Rate of Interest on Loan on annual basis (refer Note below **)	-	-	-	7.80%	7.76%	8.72%
<b>Interest on loan</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,653.96</b>	<b>3,577.99</b>	<b>3,559.01</b>
<b>Loan-4(i): Share of GoI Guaranteed DVC Bonds (Series - 14 - Rs. 4,400 Crore) (Drawn On 30.03.2012)</b>						
Gross loan - Opening	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Cumulative repayments of Loans upto previous year	-	-	-	-	-	-
Net loan - Opening	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Add: Drawal(s) during the Year	-	-	-	-	-	-
Less: Repayment (s) of Loans during the year	-	-	-	-	-	-
Net loan - Closing	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Average Net Loan	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Rate of Interest on Loan on annual basis	10.30%	10.30%	10.80%	10.53%	10.44%	10.34%
<b>Interest on loan</b>	<b>1,030.00</b>	<b>1,030.00</b>	<b>1,080.11</b>	<b>1,053.36</b>	<b>1,044.15</b>	<b>1,034.12</b>
<b>Total Loan</b>						
Gross loan - Opening	88,995.85	88,995.85	88,995.85	88,995.85	141,659.75	141,659.75
Cumulative repayments of Loans upto previous year	5,266.39	10,532.78	15,799.17	21,065.56	82,945.64	88,212.03
Net loan - Opening	83,729.46	78,463.07	73,196.68	67,930.29	58,714.11	53,447.72
Add: Drawal(s) during the Year	-	-	-	52,663.90	-	-
Less: Repayment (s) of Loans during the year	5,266.39	5,266.39	5,266.39	61,880.08	5,266.39	5,266.39
Net loan - Closing	78,463.07	73,196.68	67,930.29	58,714.11	53,447.72	48,181.33
Average Net Loan	78,679.49	75,829.87	70,563.48	63,136.42	56,080.92	50,814.53
<b>Interest on loan</b>	<b>8,000.97</b>	<b>7,711.73</b>	<b>7,227.31</b>	<b>5,335.14</b>	<b>4,622.14</b>	<b>4,593.13</b>
<b>Weighted average Rate of Interest on Loans</b>	<b>10.17%</b>	<b>10.17%</b>	<b>10.24%</b>	<b>8.45%</b>	<b>8.24%</b>	<b>9.04%</b>
<b>Note:</b> 1. In case of Foreign Loans, the calculations in Indian Rupees is to be furnished. However, the calculations in Original currency is also to be furnished separately in the same form.						



Calculation of Interest on Normative Loan**Name of the Petitioner: Damodar Valley Corporation****Name of the Region: Eastern Region****Name of the Project: Transmission & Distribution System****Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO RTPS)**

Particulars	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
1	3	4	5	6	7	8
Gross Normative loan - Opening	1520.7	1520.7	1520.7	1520.7	1520.7	1520.7
Cumulative repayment of Normative Loan upto previous year	721.1	843.8	966.5	1089.3	1212.0	1334.8
Net Normative loan - Opening	799.6	676.9	554.1	431.4	308.7	185.9
Add: Increase due to addition during the year / period	0.00	0.00	0.00	0.00	0.00	0.00
Less: Decrease due to repayment during the year / period	122.74	122.74	122.74	122.74	122.74	122.74
Less: Decrease due to de-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00	0.00
Less: Decrease due to reversal during the year / period	0.00	0.00	0.00	0.00	0.00	0.00
Add: Increase due to discharges during the year / period	0	0.00	0.00	0.00	0.00	0.00
Net Normative loan - Closing	677	554	431	309	186	63
Average Normative Loan	738.26	615.52	492.78	370.04	247.29	124.55
Weighted average Rate of Interest of actual Loans	9.04%	9.04%	9.04%	9.04%	9.04%	9.04%
<b>Interest on Normative loan</b>	<b>66.73</b>	<b>55.64</b>	<b>44.54</b>	<b>33.45</b>	<b>22.35</b>	<b>11.26</b>

**Note:**

1. At the time of true-up net savings as a result of refinancing of loans may be provided along with



**PART-III  
FORM- 10**

**Calculation of Depreciation Rate on Original Project Cost**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO RTPS)**

Amount in Rs. Lakh

Sl. no.	Name of the Assets <sup>1</sup>	Gross Block as on 31.03.2019 or as on COD, whichever is later and subsequently for each year thereafter upto 31.3.24	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount for each year up to 31.03.24
	1	2	3	4= Col.2 X Col.3
1	Land			
2	Building			
3	and so on			
4				
	<b>TOTAL</b>			
	<b>Weighted Average Rate of Depreciation (%) *</b>		<b>5.650%</b>	

Note:

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

**Note: \* Rate of depreciation is considered as in FY 2023-24**



**Statement of Depreciation**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO RTPS)**

Sl. No.	Particulars	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
(1)	(2)	(4)	(5)	(6)	(7)	(8)	(9)
1	Opening Capital Cost	2172.41	2172.41	2172.41	2172.41	2172.41	2172.41
2	Closing Capital Cost	2172.41	2172.41	2172.41	2172.41	2172.41	2172.41
3	<b>Average Capital Cost</b>	<b>2172.41</b>	2172.41	2172.41	2172.41	2172.41	2172.41
4	Freehold land	0.00	0.00	0.00	0.00	0.00	0.00
5	Rate of depreciation	5.65%	5.650%	5.650%	5.650%	5.650%	5.650%
6	Depreciable value	1955.17	1955.17	1955.17	1955.17	1955.17	1955.17
7	Balance useful life at the beginning of the period						
8	Remaining depreciable value #	1234.11	1111.37	988.63	865.89	743.15	620.41
9	<b>Depreciation (for the period)</b>	<b>122.74</b>	<b>122.74</b>	<b>122.74</b>	<b>122.74</b>	<b>122.74</b>	<b>122.74</b>
10	<b>Depreciation (annualised)</b>	<b>122.74</b>	<b>122.74</b>	<b>122.74</b>	<b>122.74</b>	<b>122.74</b>	<b>122.74</b>
11	Cumulative depreciation at the end of the period	843.80	966.540131	1089.2813	1212.02246	1334.76363	1457.504791
12	Less: Cumulative depreciation adjustment on account of de-capitalisation	0.00	0.00	0.00	0.00	0.00	0.00
13	Net Cumulative depreciation at the end of the period	843.80	966.54	1089.28	1212.02	1334.76	1457.50

1. In case of details of FERV and AAD, give information for the applicable period.



**PART-III  
FORM-11**

**Calculation of Interest on Working Capital**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO RTPS)**

Sl. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
<b>1</b>	<b>2</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>
	<b>No of days</b>	365	365	365	366	365
1	O & M Expenses	5.68	5.98	6.29	6.62	6.97
2	Maintenance Spares	10.22	10.76	11.32	11.92	12.54
3	Receivables	48.76	47.68	46.62	45.45	44.57
<b>4</b>	<b>Total Working Capital</b>	<b>64.67</b>	<b>64.42</b>	<b>64.23</b>	<b>63.99</b>	<b>64.08</b>
5	Rate of Interest	11.90%	11.90%	11.90%	11.90%	11.90%
<b>6</b>	<b>Interest on Working Capital</b>	<b>7.70</b>	<b>7.67</b>	<b>7.64</b>	<b>7.62</b>	<b>7.63</b>



Normative O & M Expenses details for LILO - DSTPS Transmission Line Sub Station (Bays)							
Name of the Petitioner: Damodar Valley Corporation						PART-111	
Name of the Region: Eastern Region						Appen-1	
Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO RTPS)							
Sl No.	Sub Station		O&M Rate (Rs in lakhs/bay)				Amount (Rs in Lakhs)
			765kV	400 KV	220 KV	132 KV and below	
1	2024-25		41.34	29.53	20.67	15.78	
2	2025-26		43.51	31.08	21.75	16.61	
3	2026-27		45.79	32.71	22.9	17.48	
4	2027-28		48.2	34.43	24.1	18.4	
5	2028-29		50.73	36.23	25.36	19.35	
NUMBER OF SUB-STATION BAYS (LILO DSTPS) EXISTING AS ON 31.03.2024 & CONSIDERED FOR O&M			765kV	400 KV	220 KV	132 KV and below	
				2			59.06
FY2024-25							
		COD					
	Bays added during 2024-25						
	TOTAL 2024-25		0	0	0	0	59.060
FY 2025-26							
	Existing on 31st March 2025	COD	0	2	0	0	62.160
	TOTAL 2025-26		0	2	0	0	0.000
FY 2026-27							
	Existing on 31st March 2026	COD	0	0	0	0	0.000
	TOTAL 2026-27		0	2	0	0	65.42
FY 2027-28							
	Existing on 31st March 2027						
	TOTAL 2027-28	COD	0	2	0	0	68.860
FY 2028-29							
	TOTAL 2028-29	COD	0	2	0	0	72.460
TRANSMISSION LINE							
O & M							
Line							
			Rate (Rs in lakhs/km)				
			S/C Single Conductor	D/C Single Conductor	D/C Double Conductor	D/C Four Conductor	
1	2024-25		0.246	0.369	0.861	1.291	
2	2025-26		0.259	0.388	0.906	1.359	
3	2026-27		0.272	0.409	0.953	1.43	
4	2027-28		0.287	0.43	1.003	1.506	
5	2028-29		0.302	0.453	1.056	1.585	
Sl No.	Line		KM				Amount (Rs in Lakhs)
			S/C Single Conductor	D/C Single Conductor	D/C Double Conductor	D/C Four Conductor	
FY 2024-25							
		COD					
	Existing on 31st March 2024		0	0	10.563	0	9.095
	TOTAL 2024-25		0	0	0	0	0.000
FY 2025-26							
	Existing on 31st March 2025	COD	0	0	10.563	0	9.570
	TOTAL 2025-26 ADDITION		0	0	0	0	0.000
FY 2026-27							
	Existing on 31st March 2026	COD	0	0	10.563	0	10.067
	TOTAL 2026-27 ADDITION		0.000	0.000	0.000	0.000	0.000
FY 2027-28							
	Existing on 31st March 2027	COD	0	0	10.563	0	10.595
	TOTAL 2027-28 ADDITION		0	0	0	0	0.000
FY 2028-29							
	Existing on 31st March 2028	COD	0	0	10.563	0	11.155
	TOTAL 2028-29 ADDITION		0	0	0	0	0.000
Note:							
O & M (Rs. In Lakhs) for New Elements Added during 2014-19							
		2024-25	2025-26	2026-27	2027-28	2028-29	
	Transmission Line	9.09	9.57	10.07	10.59	11.15	
	Sub Station	59.06	62.16	65.42	68.86	72.46	
	Total -Transmission O&M	68.15	71.73	75.49	79.45	83.61	
	GRAND TOTAL O&M	68.15	71.73	75.49	79.45	83.61	



Statement of capital cost					
Name of the Petitioner: Damodar Valley Corporation			PART-III		
Name of the Region: Eastern Region			Appen-2		
Name of the Project: Transmission & Distribution System			(Rs in Lakhs)		
Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO RTPS)					
PARTICULARS	PROJECTED				
	2024-25	2025-26	2026-27	2027-28	2028-29
CAPITAL COST AND ADD CAP					
ADDITIONAL CAPITALIZATION	0.00	0.00	0.00	0.00	0.00
DECAPITALISATION	0.00	0.00	0.00	0.00	0.00
CUMMULATIVE CAPITAL COST	2172.41	2172.41	2172.41	2172.41	2172.41
AVERAGE	2172.41	2172.41	2172.41	2172.41	2172.41
EQUITY ADDED DURING THE YEAR	0.00	0.00	0.00	0.00	0.00
EQUITY REDUCTION DUE TO DECAPITALISATION	0.00	0.00	0.00	0.00	0.00
CUMMULATIVE EQUITY	651.72	651.72	651.72	651.72	651.72
AVERAGE	651.72	651.72	651.72	651.72	651.72
NORMATIVE LOAN ADDED DURING THE YEAR	0.00	0.00	0.00	0.00	0.00
LOAN REDUCTION DUE TO DECAPITALISATION	0.00	0.00	0.00	0.00	0.00
CUMMULATIVE LOAN	1520.69	1520.69	1520.69	1520.69	1520.69
AVERAGE					
DEPRECIATION					
CAPITAL COST OPENING	2172.41	2172.41	2172.41	2172.41	2172.41
CAPITAL COST CLOSING	2172.41	2172.41	2172.41	2172.41	2172.41
AVERAGE CAPITAL COST	2172.41	2172.41	2172.41	2172.41	2172.41
RATE OF DEPRECIATION	5.65%	5.65%	5.65%	5.65%	5.65%
FREEHOLD LAND	0.00	0.00	0.00	0.00	0.00
90% DEPRECIABLE VALUE EXCLUDING LAND & LAND RIGHTS	1955.17	1955.17	1955.17	1955.17	1955.17
CUMULATIVE DEPRECIATION AS ON 1ST APRIL	843.80	966.54	1089.28	1212.02	1334.76
ADJUSTMENT OF CUM. DEPR. DUE TO UNDISCHARGED LIABILITY UP TP PREV. YEAR	0.00	0.00	0.00	0.00	0.00
ADJUSTED CUM. DEPR. AS ON 1ST APRIL	843.80	966.54	1089.28	1212.02	1334.76
BALANCE DPRECIABLE VALUE	1111.37	988.63	865.89	743.15	620.41
DEPRECIATION TO BE RECOVERED	122.74	122.74	122.74	122.74	122.74
CUMMALATIVE DEPRECIATION	966.54	1089.28	1212.02	1334.76	1457.50
CUMMALATIVE DEPRECIATION ADJUSTMENT ON ACCOUNT OF DISCHARGE OF LIABILITIES	0.00	0.00	0.00	0.00	0.00
ADJUSTMENT OF DECAPITALISATION	0.00	0.00	0.00	0.00	0.00
NET CUMULATIVE DEPRECIATION AT THE END OF THE PERIOD	966.54	1089.28	1212.02	1334.76	1457.50
Note :- 400 kV LILO DSTPS, LILO RTPS, DSTPS-RTPS Transmission Lines owned by DVC declared ISTS by ERPC.					



**Calculation of Savings due to Loan Re-financing****Name of the Petitioner: Damodar Valley Corporation****Name of the Region: Eastern Region****Name of the Project: Transmission & Distribution System****Name of the Transmission Element or Communication System: 400 kV ISTS Line (LILO RTPS)**

(Amount in Rs. Lakh)

Particulars	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
<b>Loan-1 REC Loan (For T&amp;D)</b>						
Gross loan - Opening	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85
Cumulative repayments of Loans upto previous year	5,266.39	10,532.78	15,799.17	21,065.56	26,331.95	31,598.34
Net loan - Opening	73,729.46	68,463.07	63,196.68	57,930.29	52,663.90	47,397.51
Add: Drawal(s) during the Year	-	-	-	-	-	-
Less: Repayment (s) of Loans during the year	5,266.39	5,266.39	5,266.39	5,266.39	5,266.39	5,266.39
Net loan - Closing	68,463.07	63,196.68	57,930.29	52,663.90	47,397.51	42,131.12
Average Net Loan	68,679.49	65,829.87	60,563.48	55,297.09	50,030.70	44,764.31
Rate of Interest on Loan on annual basis	11.09%	11.09%	11.09%	11.09%	11.09%	11.09%
<b>Interest on loan</b>	<b>7,616.56</b>	<b>7,300.53</b>	<b>6,716.49</b>	<b>6,132.45</b>	<b>5,548.40</b>	<b>4,964.36</b>
<b>Total Loan</b>						
Gross loan - Opening	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85
Cumulative repayments of Loans upto previous year	5,266.39	10,532.78	15,799.17	21,065.56	26,331.95	31,598.34
Net loan - Opening	73,729.46	68,463.07	63,196.68	57,930.29	52,663.90	47,397.51
Add: Drawal(s) during the Year	-	-	-	-	-	-
Less: Repayment (s) of Loans during the year	5,266.39	5,266.39	5,266.39	5,266.39	5,266.39	5,266.39
Net loan - Closing	68,463.07	63,196.68	57,930.29	52,663.90	47,397.51	42,131.12
Average Net Loan	68,679.49	65,829.87	60,563.48	55,297.09	50,030.70	44,764.31
<b>Interest on loan</b>	<b>7,616.56</b>	<b>7,300.53</b>	<b>6,716.49</b>	<b>6,132.45</b>	<b>5,548.40</b>	<b>4,964.36</b>
<b>Weighted average Rate of Interest on Loans</b>	<b>11.09%</b>	<b>11.09%</b>	<b>11.09%</b>	<b>11.09%</b>	<b>11.09%</b>	<b>11.09%</b>

**Computation of net savings on interest due to loan re-financing:**

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
Average Normative loan (refer Form-9E)	615.52	492.78	370.04	247.29	124.55
Weighted Average Rate of Interest on Loans - without loan re-financing	11.09%	11.09%	11.09%	11.09%	11.09%
Interest on normative loan - without loan re-financing (A)	68.26	54.65	41.04	27.42	13.81
Actual Weighted Average Rate of Interest on Loans - with loan re-financing (refer Form-9E)	9.04%	9.04%	9.04%	9.04%	9.04%
Interest on normative loan - with loan re-financing (refer Form-9E) (B)	55.64	44.54	33.45	22.35	11.26
Net savings on interest due to loan re-financing (C = A - B)	12.62	10.11	7.59	5.07	2.55
<b>DVC's share in the net savings on interest due to loan re-financing as per Reg. 61(1) of CERC Tariff Regulations 2019 (D = C/2)</b>	<b>6.31</b>	<b>5.05</b>	<b>3.79</b>	<b>2.54</b>	<b>1.28</b>

**Note:**

1. In case of Foreign Loans, the calculations in Indian Rupees is to be furnished. However, the calculations in Original currency is also to be furnished separately in the same form.



**TARIFF FILING FORMS  
FOR  
ISTS SYSTEM - DSTPS-RTPS LINE  
FOR DETERMINATION OF TARIFF  
FOR 2024-29 PERIOD**

**ANNEXURE - H**



INDEX		
PART-III		
<b>Checklist of Forms and other information/ documents for tariff filing for Transmission System &amp; Communication System</b>		
Form No.	Title of Tariff Filing Forms (Transmission & Communication System)	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	X
FORM- 4A	Statement of Capital cost	X
FORM- 4B	Statement of Capital Works in Progress	X
FORM- 4C	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New Project/Element	X
FORM-5	Element wise Break-up of Project/Asset/Element Cost for Transmission System	X
FORM-5A	Break-up of Construction/Supply/Service packages	X
FORM-5B	Details of all the assets covered in the project	X
FORM- 6	Financial Package upto COD	X
FORM- 7	Statement of Additional Capitalisation after COD	✓
FORM- 7A	Financing of Additional Capitalisation	X
FORM- 7B	Statement of Additional Capitalisation during fag end* of the Project	X
FORM- 8	Calculation of Return on Equity	✓
FORM-8A	Details of Foreign Equity	X
FORM-9	Details of Allocation of corporate loans to various transmission elements	X
FORM-9A	Details of Project Specific Loans	X
FORM-9B	Details of Foreign loans	X
FORM-9C	Calculation of Weighted Average Rate of Interest on Actual Loans	✓
FORM-9D	Loans in Foreign Currency	X
FORM-9E	Calculation of Interest on Normative Loan	✓
FORM- 10	Calculation of Depreciation Rate on original project cost	✓
FORM- 10A	Statement of Depreciation	✓
FORM- 10B	Statement of De-capitalisation	X
FORM- 11	Calculation of Interest on Working Capital	✓
FORM- 12	Details of time over run	X
FORM- 12A	Incidental Expenditure during Construction	X
FORM- 12B	Calculation of IDC & Financing Charges	X
FORM- 13	Details of Initial spares	X
FORM- 14	Non-Tariff Income	X
FORM- 15	Summary of issue involved in the petition	✓
Appen-1	O & M Expenses details	✓
Appen-2	Input Data	✓
Appen-3	Calculation of Savings due to Loan Re-financing	✓
Appen-4	Sanction Order	X
<b>Other Information/ Documents</b>		
Sl. No.	Information/Document	Tick
1	Certificate of incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association (For New Project(s) setup by a company making tariff application for the first time to CERC)	X
2	Region wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures for the new Transmission System & Communication System for the relevant years.	X
3	Copies of relevant loan Agreements	X
4	Copies of the approval of Competent Authority for the <b>Capital Cost</b> and Financial package.	X
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	X
6	Copies of the BPTA/TSA/PPA with the beneficiaries, if any	X
7	Detailed note giving reasons of cost and time over run, if applicable.	X
	List of supporting documents to be submitted: a.Detailed Project Report b.CPM Analysis c.PERT Chart and Bar Chart d.Justification for cost and time Overrun	X
8	Transmission Licensee shall submit copy of Cost Audit Report along with cost accounting records, cost details, statements, schedules etc. for the transmission system as submitted to the Govt. of India for first two years i.e. 2019-20 and 2020-21 at the time of mid-term true-up in 2021-22 and for balance period of tariff period 2019-24 at the time of final true-up in 2024-25. In case of initial tariff filing the latest available Cost Audit Report should be furnished.	X
9	BBMB is maintaining the records as per the relevant applicable Acts. Formats specified herein may not be suitable to the available information with BBMB. BBMB may modify formats suitably as per available information to them for submission of required information for tariff purpose.	X
10	Any other relevant information, (Please specify)	X

**Note1:** Electronic copy of the petition (in word format) and detailed calculation as per these formats (in excel format) and any other information submitted shall also be furnished in the form of CD/Floppy disc.



**Summary Sheet****Name of the Petitioner: Damodar Valley Corporation****Name of the Region: Eastern Region****Name of the Project: Transmission & Distribution System****Name of the Transmission Element or Communication System: 400 kV ISTS Line (DSTPS-RTPS)**

S.N o.	Particulars	unit	Form Reference	2024-25	2025-26	2026-27	2027-28	2028-29
1	2		3	4	5	6	7	8
<b>A</b>	<b>Cost components as per Regulations 30, 31, 32, 33, 34, 35 of the CERC (Terms and Conditions of Tariff) Regulations, 2019, to be recovered on the basis of availability</b>							
A.1	Depreciation	Rs Lakhs	Form-10A	839.34	839.34	839.34	839.34	839.34
A.2	Interest on Loan	Rs Lakhs	Form-9E	297.15	221.28	145.41	69.54	15.81
A.3	Return on Equity <sup>1</sup>	Rs Lakhs	Form-8	923.14	923.14	923.14	923.14	923.14
A.4	Interest on Working Capital	Rs Lakhs	Form-11	38.84	37.98	37.14	36.25	35.91
A.5	O & M Expenses	Rs Lakhs	Appen-I-O & M (2019-24)	177.96	187.29	197.07	207.43	218.31
	<b>Sub-total: A</b>	<b>Rs in Lakh</b>		<b>2276.42</b>	<b>2209.03</b>	<b>2142.11</b>	<b>2075.70</b>	<b>2032.50</b>
<b>B</b>	<b>Cost components as per Regulation 34 (3) (c) , 72 &amp; 76 of the CERC (Terms and Conditions of Tariff) Regulations 2019, Subsequent CERC/Court Orders, and the DVC Act, to be recovered in full on sharing basis</b>							
B.1	DVC's share of savings in interest cost due to loan restructuring	Rs in Lakh	Appen-3 Loan Restr Savings	33.86	25.22	16.57	7.93	1.79
	<b>Sub-total: B</b>	<b>Rs in Lakh</b>		<b>33.86</b>	<b>25.22</b>	<b>16.6</b>	<b>7.9</b>	<b>1.8</b>
	<b>Grand Total</b>	<b>Rs in Lakh</b>		<b>2310.29</b>	<b>2234.24</b>	<b>2158.68</b>	<b>2083.62</b>	<b>2034.30</b>

Note

1: Details of calculations, considering equity as per regulation, to be furnished (As per Form 8).

**(Petitioner)**

**DETAILS OF TRANSMISSION LINES & SUBSTATIONS & COMMUNICATION SYSTEM**

Name of the Petitioner: Damodar Valley Corporation

Name of the Region: Eastern Region

Name of the Project: Transmission &amp; Distribution System

Name of the Transmission Element or Communication System: 400 kV ISTS Line (DSTPS-RTPS)

**Transmission Lines:**

S. No.	Name of line	Type of line AC/HVDC	S/C or D/C	No. of Sub-Conductors	Voltage level kV	Line length Ckt.- km.	Line length km	Date of Commercial operation		Covered in the present petition	
										Yes/No	If No, petition No.
	EXISTING LINES										
1	Single Circuit LILO of 400 KV D/C Durgapur (PG) – Jamshedpur (PG) at DSTPS --- Twin Moose Conductor	AC	D/C	2	400 KV	7.78	3.89	1-Feb-11		Yes	-----
2	Single Circuit LILO of 400 KV D/C Maithon (PG) – Ranchi(PG) at RTPS (DOCO 01.07.2012)	AC	D/C	2	400 KV	21.126	10.563	1-Jul-12		Yes	-----
3	Double Circuit 400 KV DSTPS - RTPS --- Twin Moose (DOCO 01.08.2013)	AC	D/C	2	400 KV	139	69.5	1-Aug-13		Yes	-----
	NEW LINES										
4	Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor	AC	D/C	4	400 KV	311	155.5	30.08.2017		Yes	-----

**Substations:**

S.NO.	Name of Sub-station	Type of Substation Conventional(Greenfield/ Brownfield)/ 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	
					765 kV	400 kV	220 kV	132 kV & Below			Yes/No	If No, petition No.
1	TWO NOS. 400 KV BAYS FOR DSTPS(ANDAL)- RTPS(RAGHUNATHPUR) TRANSMISSION LINE AT RTPS END		400KV			2			01.08.2013		Yes	-----
2	TWO NOS. 400 KV BAYS FOR DSTPS(ANDAL)- RTPS(RAGHUNATHPUR) TRANSMISSION LINE AT DSTPS(ANDAL) END		400KV			2			01.08.2013		Yes	-----



**PART-III**  
**Form-3**

**Normative parameters considered for tariff computations**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (DSTPS-RTPS)**

**Year Ending March**

Particulars	Unit	2024-25	2025-26	2026-27	2027-28	2028-29
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Base Rate of Return on Equity	%	15.50%	15.50%	15.50%	15.50%	15.50%
Tax Rate	%	25.17%	25.17%	25.17%	25.17%	25.17%
Effective tax rate <sup>1</sup>	%	25.17%	25.17%	25.17%	25.17%	25.17%
Target Availability	%	98	98	98	98	98
<b>Normative O&amp;M per km</b>	Rs. Lakh					
Single Circuit (Bundled Conductor with six or more sub-conductor)		0.861	0.906	0.953	1.003	1.056
Single Circuit (Bundled Conductor with four sub-conductors)		0.738	0.776	0.817	0.86	0.905
Single Circuit (Twin & Triple conductor)		0.492	0.518	0.545	0.573	0.603
Single Circuit (Single conductor)		0.246	0.259	0.272	0.287	0.302
Double Circuit (Bundled Conductor with four or more sub-conductors)		1.291	1.359	1.43	1.506	1.585
Double Circuit (Twin & Triple conductor)		0.861	0.906	0.953	1.003	1.056
Double Circuit (Single conductor)		0.369	0.388	0.409	0.43	0.453
Multi Circuit (Bundled Conductor with four or more sub-conductors)		2.266	2.385	2.51	2.642	2.781
Multi Circuit (Twin & Triple conductor)		1.509	1.588	1.671	1.759	1.851
<b>Normative O&amp;M per bay</b>	Rs. Lakh					
765 kV		41.34	43.51	45.79	48.2	50.73
400 kV		29.53	31.08	32.71	34.43	36.23
220 kV		20.67	21.75	22.9	24.1	25.36
132 kV and below		15.78	16.61	17.48	18.4	19.35
<b>Normative O&amp;M for Transformers per MVA</b>	Rs. Lakh					
765 kV		0.262	0.276	0.29	0.305	0.322
400 kV		0.262	0.276	0.29	0.305	0.322
220 kV		0.262	0.276	0.29	0.305	0.322
132 kV and below		0.262	0.276	0.29	0.305	0.322
Spares for WC as % of O&M	%	15	15	15	15	15
Receivables in Days for WC	Days	45	45	45	45	45
Bank Rate as on 1.04.2024 (SBI 1Y MCLR+325 basis points)	%	11.90%	11.90%	11.90%	11.90%	11.90%

1. To be supported by necessary documents and calculations. Effective tax rate is to be computed in accordance with Regulation 25 i.e. actual tax (or estimated tax)/gross income, where gross income refers the profit before tax.

2. Mention relevant date



<div style="text-align: right;">PART-III Form7</div> <div style="text-align: center;"><u>Statement of Additional Capitalisation after COD</u></div>										
Name of the Petitioner: Damodar Valley Corporation Name of the Region: Eastern Region Name of the Project: Transmission & Distribution System Name of the Transmission Element or Communication System: 400 kV ISTS Line (DSTPS-RTPS)										
COD    01-Aug-13										
Sr. No.	Year	Work/Equipment proposed to be added after COD upto Cut off Date/ beyond Cut-off Date	Amount capitalized /Proposed to be capitalized (Rs Lakh)	New or Replacement	SUB STATION or LINE or COMMUNICATION	NAME	COD of old asset (in case of replaced items)	Justification	Regulations under which covered	Admitted Cost <sup>1</sup> (Rs Lakh)
(1)	(2)	(3)	(4)					(5)	(6)	(7)
F.Y 2024-25										
1	2024-25	400 KV DSTPS-RTPS LINE							14(1)(i)	
		<b>TOTAL ( 2024-25)</b>	<b>0.00</b>							
F.Y 2025-26										
1	2025-26	400 KV DSTPS-RTPS LINE							14(1)(i)	
		<b>TOTAL ( 2025-26)</b>	<b>0.00</b>							
F.Y 2026-27										
1	2026-27	400 KV DSTPS-RTPS LINE							14(3)(v)	
		<b>Total (2026-27)</b>	<b>0.00</b>							
F.Y 2027-28										
1	2027-28	400 KV DSTPS-RTPS LINE							14(3)(v)	
		<b>TOTAL ( 2027-28)</b>	<b>0.00</b>							
F.Y 2028-29										
1	2028-29	400 KV DSTPS-RTPS LINE							14(3)(v)	
		<b>TOTAL (2028-29)</b>	<b>0.00</b>							



**PART-III**  
**Form-8**

**Calculation of Return on Equity at Normal Rate**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (DSTPS-RTPS)**

(Amt. in Lakhs)

S.N o.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	4	5	6	7	8
1.1	Equity as on COD/Admitted equity #	4,456.68	4,456.68	4,456.68	4,456.68	4,456.68
1.2	Notional Equity for Add Cap after cut-off date	-	-	-	-	-
1.3	Notional Equity for Add Cap after completion of useful life	-	-	-	-	-
<b>1.4</b>	<b>Total Equity</b>	4,456.68	4,456.68	4,456.68	4,456.68	4,456.68
1.5	Return on Equity on project cost till Cutoff date	20.71%	20.71%	20.71%	20.71%	20.71%
<b>1.6</b>	<b>Return on Equity on Add Cap</b>	<b>923.14</b>	<b>923.14</b>	<b>923.14</b>	<b>923.14</b>	<b>923.14</b>

**Note:- 1: \* - To be calculated on average equity during the year.**



FORM-9C						
Calculation of Weighted Average Rate of Interest on Actual Loans T&D						
Name of the Petitioner		0				
		(Rs. Lakh)				
Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
<b>Loan-4 REC Loan (For T&amp;D)</b>						
Gross loan - Opening	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85
Cumulative repayments of Loans upto previous year	5,266.39	10,532.78	15,799.17	21,065.56	78,995.85	78,995.85
Net loan - Opening	73,729.46	68,463.07	63,196.68	57,930.29	-	-
Add: Drawal(s) during the Year	-	-	-	-	-	-
Less: Repayment (s) of Loans during the year	5,266.39	5,266.39	5,266.39	57,930.29	-	-
Net loan - Closing	68,463.07	63,196.68	57,930.29	-	-	-
Average Net Loan	68,679.49	65,829.87	60,563.48	6,290.78	-	-
Rate of Interest on Loan on annual basis	10.15%	10.15%	10.15%	9.98%	-	-
<b>Interest on loan</b>	<b>6,970.97</b>	<b>6,681.73</b>	<b>6,147.19</b>	<b>627.82</b>	<b>-</b>	<b>-</b>
<b>Loan - 3 Punjab &amp; Sind Bank Loan (For T&amp;D)</b>						
Gross loan - Opening	-	-	-	-	52,663.90	52,663.90
Cumulative repayments of Loans upto previous year	-	-	-	-	3,949.79	9,216.18
Net loan - Opening	-	-	-	-	48,714.11	43,447.72
Add: Drawal(s) during the Year	-	-	-	52,663.90	-	-
Less: Repayment (s) of Loans during the year	-	-	-	3,949.79	5,266.39	5,266.39
Net loan - Closing	-	-	-	48,714.11	43,447.72	38,181.33
Average Net Loan pro-rated based on repayment date (see Note -5)	-	-	-	46,845.64	46,080.92	40,814.53
Rate of Interest on Loan on annual basis (refer Note below **)	-	-	-	7.80%	7.76%	8.72%
<b>Interest on loan</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,653.96</b>	<b>3,577.99</b>	<b>3,559.01</b>
<b>Loan-4(i): Share of GoI Guaranteed DVC Bonds (Series - 14 - Rs. 4,400 Crore) (Drawn On 30.03.2012)</b>						
Gross loan - Opening	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Cumulative repayments of Loans upto previous year	-	-	-	-	-	-
Net loan - Opening	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Add: Drawal(s) during the Year	-	-	-	-	-	-
Less: Repayment (s) of Loans during the year	-	-	-	-	-	-
Net loan - Closing	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Average Net Loan	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Rate of Interest on Loan on annual basis	10.30%	10.30%	10.80%	10.53%	10.44%	10.34%
<b>Interest on loan</b>	<b>1,030.00</b>	<b>1,030.00</b>	<b>1,080.11</b>	<b>1,053.36</b>	<b>1,044.15</b>	<b>1,034.12</b>
<b>Total Loan</b>						
Gross loan - Opening	88,995.85	88,995.85	88,995.85	88,995.85	141,659.75	141,659.75
Cumulative repayments of Loans upto previous year	5,266.39	10,532.78	15,799.17	21,065.56	82,945.64	88,212.03
Net loan - Opening	83,729.46	78,463.07	73,196.68	67,930.29	58,714.11	53,447.72
Add: Drawal(s) during the Year	-	-	-	52,663.90	-	-
Less: Repayment (s) of Loans during the year	5,266.39	5,266.39	5,266.39	61,880.08	5,266.39	5,266.39
Net loan - Closing	78,463.07	73,196.68	67,930.29	58,714.11	53,447.72	48,181.33
Average Net Loan	78,679.49	75,829.87	70,563.48	63,136.42	56,080.92	50,814.53
<b>Interest on loan</b>	<b>8,000.97</b>	<b>7,711.73</b>	<b>7,227.31</b>	<b>5,335.14</b>	<b>4,622.14</b>	<b>4,593.13</b>
<b>Weighted average Rate of Interest on Loans</b>	<b>10.17%</b>	<b>10.17%</b>	<b>10.24%</b>	<b>8.45%</b>	<b>8.24%</b>	<b>9.04%</b>
<b>Note:</b> 1. In case of Foreign Loans, the calculations in Indian Rupees is to be furnished. However, the calculations in Original currency is also to be furnished separately in the same form.						



**Calculation of Interest on Normative Loan**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (DSTPS-RTPS)**

Amount in Rs. Lakhs

Particulars	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7
Gross Normative loan - Opening	10398.91	10398.91	10398.91	10398.91	10398.91	10398.91
Cumulative repayment of Normative Loan upto previous year	5852.49	6691.83	7531.17	8370.52	9209.86	10049.20
<b>Net Normative loan - Opening</b>	<b>4546.42</b>	<b>3707.08</b>	<b>2867.74</b>	<b>2028.40</b>	<b>1189.06</b>	<b>349.72</b>
Add: Increase due to addition during the year / period	0.00	0.00	0.00	0.00	0.00	0.00
Less: Decrease due to repayment during the year / period	893.34	839.34	839.34	839.34	839.34	349.72
Less: Decrease due to de-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00	0.00
Less: Decrease due to reversal during the year / period	0.00	0.00	0.00	0.00	0.00	0.00
Add: Increase due to discharges during the year / period	0.00	0.00	0.00	0.00	0.00	0.00
<b>Net Normative loan - Closing</b>	<b>3707.08</b>	<b>2867.74</b>	<b>2028.40</b>	<b>1189.06</b>	<b>349.72</b>	<b>0.00</b>
Average Normative Loan	4126.75	3287.41	2448.07	1608.73	769.39	174.86
Weighted average Rate of Interest of actual Loans	9.04%	9.04%	9.04%	9.04%	9.04%	9.04%
<b>Interest on Normative loan</b>	<b>373.02</b>	<b>297.15</b>	<b>221.28</b>	<b>145.41</b>	<b>69.54</b>	<b>15.81</b>

**Note:**

1. At the time of true-up net savings as a result of refinancing of loans may be provided along with adjustments of sharing.



**Calculation of Depreciation Rate on Original Project Cost**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (DSTPS-RTPS)**

Amount in Rs. Lakh

Sl. no.	Name of the Assets <sup>1</sup>	Gross Block as on 31.03.2019 or as on COD, whichever is later and subsequently for each year thereafter upto 31.3.24	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount for each year up to 31.03.24
	1	2	3	4= Col.2 X Col.3
1	Land			
2	Building			
3	and so on			
4				
	<b>TOTAL</b>			
	<b>Weighted Average Rate of Depreciation (%) *</b>		<b>5.650%</b>	

Note:

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

**Note: \* Rate of depreciation is as considered for FY 2023-24**



Statement of Depreciation

Name of the Petitioner: Damodar Valley Corporation

Name of the Region: Eastern Region

Name of the Project: Transmission &amp; Distribution System

Name of the Transmission Element or Communication System: 400 kV ISTS Line (DSTPS-RTPS)

(Amount in Rs. Lakhs)

Sl. No.	Particulars	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
(1)	(2)	(3)	(3)	(4)	(5)	(6)	(7)
1	Opening Capital Cost	14855.59	14855.59	14855.59	14855.59	14855.59	14855.59
2	Closing Capital Cost	14855.59	14855.59	14855.59	14855.59	14855.59	14855.59
3	<b>Average Capital Cost</b>	<b>14855.59</b>	<b>14855.59</b>	<b>14855.59</b>	<b>14855.59</b>	<b>14855.59</b>	<b>14855.59</b>
4	Freehold land	0.00	0.00	0.00	0.00	0.00	0.00
5	Rate of depreciation	5065.00%	5.650%	5.650%	5.650%	5.650%	5.650%
6	Depreciable value	13370.03	13370.03	13370.03	13370.03	13370.03	13370.03
7	Balance useful life at the beginning of the period						
8	Remaining depreciable value	7517.54	6678.20	5838.86	4999.52	4160.17	3320.83
9	<b>Depreciation (for the period)</b>	<b>839.34</b>	<b>839.34</b>	<b>839.34</b>	<b>839.34</b>	<b>839.34</b>	<b>839.34</b>
10	<b>Depreciation (annualised)</b>	<b>839.34</b>	<b>839.34</b>	<b>839.34</b>	<b>839.34</b>	<b>839.34</b>	<b>839.34</b>
11	Cumulative depreciation at the end of the period	6691.83	7531.17	8370.51	9209.85	10049.19	10888.53
12	Less: Cumulative depreciation adjustment on account of de-capitalisation	0.00	0.00	0.00	0.00	0.00	0.00
13	Net Cumulative depreciation at the end of the period	6691.83	7531.17	8370.51	9209.85	10049.19	10888.53

1. In case of details of FERV and AAD, give information for the applicable period.



**Calculation of Interest on Working Capital**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: 400 kV ISTS Line (DSTPS-RTPS)**

Sl. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7
	<b>No of Days</b>	<b>365</b>	<b>365</b>	<b>365</b>	<b>366</b>	<b>365</b>
1	O & M Expenses	14.83	15.61	16.42	17.29	18.19
2	Maintenance Spares	26.69	28.09	29.56	31.11	32.75
3	Receivables	284.83	275.45	266.14	256.18	250.80
<b>4</b>	<b>Total Working Capital</b>	<b>326.35</b>	<b>319.16</b>	<b>312.12</b>	<b>304.58</b>	<b>301.74</b>
5	Rate of Interest	11.90%	11.90%	11.90%	11.90%	11.90%
<b>6</b>	<b>Interest on Working Capital</b>	<b>38.84</b>	<b>37.98</b>	<b>37.14</b>	<b>36.25</b>	<b>35.91</b>



Normative O & M Expenses details for LILO - DSTPS Transmission Line Sub Station (Bays)							
Name of the Petitioner: Damodar Valley Corporation Name of the Region: Eastern Region Name of the Project: Transmission & Distribution System Name of the Transmission Element or Communication System: 400 kV ISTS Line (DSTPS-RTPS)							PART-III Appendix-1
Sl No.	Sub Station		O&M Rate (Rs in lakhs/bay)				Amount (Rs in Lakhs)
			765kV	400 KV	220 KV	132 KV and below	
1	2024-25		41.34	29.53	20.67	15.78	
2	2025-26		43.51	31.08	21.75	16.61	
3	2026-27		45.79	32.71	22.9	17.48	
4	2027-28		48.2	34.43	24.1	18.4	
5	2028-29		50.73	36.23	25.36	19.35	
NUMBER OF SUB-STATION BAYS (LILO DSTPS) EXISTING AS ON 31.03.219 & CONSIDERED FOR O&M			765kV	400 KV	220 KV	132 KV and below	
				4			
FY2024-25							
1	Existing on 31st March 2024	COD		4			
	TOTAL 2024-25			4			118.120
FY 2025-26							
2	Existing on 31st March 2025	COD		4			124.320
	TOTAL 2025-26			4			124.320
FY 2026-27							
3	Existing on 31st March 2026	COD	0	4	0	0	130.84
	TOTAL 2026-27						130.84
FY 2027-28							
4	Existing on 31st March 2027	COD	0	4	0	0	137.720
	TOTAL 2027-28						137.720
FY 2028-29							
5	Existing on 31st March 2028	COD	0	4	0	0	144.920
	TOTAL 2028-29						
LINE							
O & M Line							
	Line		Rate (Rs in lakhs/km)				
			S/C Single Conductor	D/C Single Conductor	D/C Double Conductor	D/C Four Conductor	
1	2024-25		0.246	0.369	0.861	1.291	
2	2025-26		0.259	0.388	0.906	1.359	
3	2026-27		0.272	0.409	0.953	1.43	
4	2027-28		0.287	0.43	1.003	1.506	
5	2028-29		0.302	0.453	1.056	1.585	
Sl No.	Line		KM				Amount (Rs in Lakhs)
			S/C Single Conductor	D/C Single Conductor	D/C Double Conductor	D/C Four Conductor	
FY2024-25							
	Existing on 31st March 2024	COD	0	0	69.5	0	59.840
	TOTAL 2024-25		0	0	0	0	0.000
FY 2025-26							
	Existing on 31st March 2025	COD	0	0	69.5	0	62.967
	TOTAL 2025-26 ADDITION		0	0	0	0	0.000
FY 2026-27							
	Existing on 31st March 2026	COD	0	0	69.5	0	66.234
	TOTAL 2026-27 ADDITION		0.000	0.000	0.000	0.000	0.000
FY 2027-28							
	Existing on 31st March 2027	COD	0	0	69.5	0	69.709
	TOTAL 2027-28 ADDITION		0	0	0	0	0.000
FY 2028-29							
	Existing on 31st March 2028	COD	0	0	69.5	0	73.392
	TOTAL 2028-29 ADDITION		0	0	0	0	0.000
Note:							
	O & M (Rs. In Lakhs) for New Elements Added during 2014-19						
		2024-25	2025-26	2026-27	2027-28	2028-29	
	Transmission Line	59.84	62.97	66.23	69.71	73.39	
	Sub Station	118.12	124.32	130.84	137.72	144.92	
	Total -Transmission O&M	177.96	187.29	197.07	207.43	218.31	
	GRAND TOTAL O&M	177.96	187.29	197.07	207.43	218.31	



Statement of capital cost						
Name of the Petitioner: Damodar Valley Corporation						PART-III Annexure-2
Name of the Region: Eastern Region						
Name of the Project: Transmission & Distribution System						
Name of the Transmission Element or Communication System: 400 kV ISTS Line (DSTPS-RTPS)						
(Rs in Lakhs)						
PARTICULARS	Capital cost as on 31.3.2024	PROJECTED				
		2024-25	2025-26	2026-27	2027-28	2028-29
CAPITAL COST AND ADD CAP	14855.59					
ADDITIONAL CAPITALIZATION		0.00	0.00	0.00	0.00	0.00
DECAPITALISATION		0.00	0.00	0.00	0.00	0.00
CUMMULATIVE CAPITAL COST	14855.59	14855.59	14855.59	14855.59	14855.59	14855.59
AVERAGE		14855.59	14855.59	14855.59	14855.59	14855.59
EQUITY ADDED DURING THE YEAR		0.00	0.00	0.00	0.00	0.00
EQUITY REDUCTION DUE TO DECAPITALISATION						
CUMMULATIVE EQUITY	4456.68	4456.68	4456.68	4456.68	4456.68	4456.68
AVERAGE		4456.68	4456.68	4456.68	4456.68	4456.68
NORMATIVE LOAN ADDED DURING THE YEAR		0.00	0.00	0.00	0.00	0.00
LOAN REDUCTION DUE TO DECAPITALISATION						
CUMMULATIVE LOAN	10398.91	10398.91	10398.91	10398.91	10398.91	10398.91
AVERAGE		10398.91	10398.91	10398.91	10398.91	10398.91
DEPRECIATION						
CAPITAL COST OPENING	14855.59	14855.59	14855.59	14855.59	14855.59	14855.59
CAPITAL COST CLOSING		14855.59	14855.59	14855.59	14855.59	14855.59
AVERAGE CAPITAL COST		14855.59	14855.59	14855.59	14855.59	14855.59
RATE OF DEPRECIATION		5.650%	5.650%	5.650%	5.650%	5.650%
FREEHOLD LAND						
90% DEPRECIABLE VALUE EXCLUDING LAND & LAND RIGHTS		13370.03	13370.03	13370.03	13370.03	13370.03
CUMULATIVE DEPRECIATION AS ON 1ST APRIL		6691.83	7531.17	8370.52	9209.86	10049.20
ADJUSTMENT OF CUM. DEPR. DUE TO UNDISCHARGED LIABILITY UP TP PREV. YEAR		0.00	0.00	0.00	0.00	0.00
ADJUSTED CUM. DEPR. AS ON 1ST APRIL		6691.83	7531.17	8370.52	9209.86	10049.20
BALANCE DPRECIABLE VALUE		6678.20	5838.86	4999.52	4160.17	3320.83
DEPRECIATION TO BE RECOVERED		839.34	839.34	839.34	839.34	839.34
CUMMALATIVE DEPRECIATION		7531.17	8370.52	9209.86	10049.20	10888.54
CUMMALATIVE DEPRECIATION ADJUSTMENT ON ACCOUNT OF DISCHARGE OF LIABILITIES		0.00	0.00	0.00	0.00	0.00
ADJUSTMENT OF DECAPITALISATION		0.00	0.00	0.00	0.00	0.00
NET CUMULATIVE DEPRECIATION AT THE END OF THE PERIOD	6691.83	7531.17	8370.52	9209.86	10049.20	10888.54
Note :- 400 kV LILO DSTPS, LILO RTPS, DSTPS-RTPS Transmission Lines owned by DVC declared ISTS by ERPC.						



**Calculation of Savings due to Loan Re-financing****Name of the Petitioner: Damodar Valley Corporation****Name of the Region: Eastern Region****Name of the Project: Transmission & Distribution System****Name of the Transmission Element or Communication System: 400 kV ISTS Line (DSTPS-RTPS)**

(Amount in Rs. Lakh)

Particulars	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
<b>Loan-1 REC Loan (For T&amp;D)</b>						
Gross loan - Opening	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85
Cumulative repayments of Loans upto previous year	5,266.39	10,532.78	15,799.17	21,065.56	26,331.95	31,598.34
Net loan - Opening	73,729.46	68,463.07	63,196.68	57,930.29	52,663.90	47,397.51
Add: Drawal(s) during the Year	-	-	-	-	-	-
Less: Repayment (s) of Loans during the year	5,266.39	5,266.39	5,266.39	5,266.39	5,266.39	5,266.39
Net loan - Closing	68,463.07	63,196.68	57,930.29	52,663.90	47,397.51	42,131.12
Average Net Loan	68,679.49	65,829.87	60,563.48	55,297.09	50,030.70	44,764.31
Rate of Interest on Loan on annual basis	11.09%	11.09%	11.09%	11.09%	11.09%	11.09%
<b>Interest on loan</b>	<b>7,616.56</b>	<b>7,300.53</b>	<b>6,716.49</b>	<b>6,132.45</b>	<b>5,548.40</b>	<b>4,964.36</b>
<b>Total Loan</b>						
Gross loan - Opening	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85
Cumulative repayments of Loans upto previous year	5,266.39	10,532.78	15,799.17	21,065.56	26,331.95	31,598.34
Net loan - Opening	73,729.46	68,463.07	63,196.68	57,930.29	52,663.90	47,397.51
Add: Drawal(s) during the Year	-	-	-	-	-	-
Less: Repayment (s) of Loans during the year	5,266.39	5,266.39	5,266.39	5,266.39	5,266.39	5,266.39
Net loan - Closing	68,463.07	63,196.68	57,930.29	52,663.90	47,397.51	42,131.12
Average Net Loan	68,679.49	65,829.87	60,563.48	55,297.09	50,030.70	44,764.31
<b>Interest on loan</b>	<b>7,616.56</b>	<b>7,300.53</b>	<b>6,716.49</b>	<b>6,132.45</b>	<b>5,548.40</b>	<b>4,964.36</b>
<b>Weighted average Rate of Interest on Loans</b>	<b>11.09%</b>	<b>11.09%</b>	<b>11.09%</b>	<b>11.09%</b>	<b>11.09%</b>	<b>11.09%</b>

**Computation of net savings on interest due to loan re-financing:**

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
Average Normative loan (refer Form-9E)	3,287.41	2,448.07	1,608.73	769.39	174.86
Weighted Average Rate of Interest on Loans - without loan re-financing	11.09%	11.09%	11.09%	11.09%	11.09%
Interest on normative loan - without loan re-financing (A)	364.57	271.49	178.41	85.32	19.39
Actual Weighted Average Rate of Interest on Loans - with loan re-financing (refer Form-9E)	9.03%	9.03%	9.03%	9.03%	9.04%
Interest on normative loan - with loan re-financing (refer Form-9E) (B)	296.85	221.06	145.27	69.47	15.81
Net savings on interest due to loan re-financing (C = A - B)	67.73	50.43	33.14	15.85	3.59
<b>DVC's share in the net savings on interest due to loan re-financing as per Reg. 61(1) of CERC Tariff Regulations 2019 (D = C/2)</b>	<b>33.86</b>	<b>25.22</b>	<b>16.57</b>	<b>7.93</b>	<b>1.79</b>

**Note:**

1. In case of Foreign Loans, the calculations in Indian Rupees is to be furnished. However, the calculations in Original currency is also to be furnished separately in the same form.



**TARIFF FILING FORMS**  
**FOR**  
**400 KV RAGHUNATHPUR(RTPS)-RANCHI**  
**TRANSMISSION LINE-QUAD MOOSE CONDUCTOR**  
**FOR DETERMINATION OF TARIFF**  
**FOR 2024-29 PERIOD**

**ANNEXURE - I**



INDEX		
PART-III		
Checklist of Forms and other information/ documents for tariff filing for Transmission System & Communication System (2019-24 PERIOD)		
Form No.	Title of Tariff Filing Forms (Transmission & Communication System)	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	X
FORM- 4A	Statement of Capital cost	X
FORM- 4B	Statement of Capital Works in Progress	X
FORM- 4C	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New Project/Element	X
FORM-5	Element wise Break-up of Project/Asset/Element Cost for Transmission System	√
FORM-5A	Break-up of Construction/Supply/Service packages	X
FORM-5B	Details of all the assets covered in the project	X
FORM- 6	Financial Package upto COD	X
FORM- 7	Statement of Additional Capitalisation after COD	√
FORM- 7A	Financing of Additional Capitalisation	X
FORM- 7B	Statement of Additional Capitalisation during fag end of the Project	X
FORM- 8	Calculation of Return on Equity	√
FORM-8A	Details of Foreign Equity	X
FORM-9	Details of Allocation of corporate loans to various transmission elements	X
FORM-9A	Details of Project Specific Loans	X
FORM-9B	Details of Foreign loans	X
FORM-9C	Calculation of Weighted Average Rate of Interest on Actual Loans	√
FORM-9D	Loans in Foreign Currency	X
FORM-9E	Calculation of Interest on Normative Loan	√
FORM- 10	Calculation of Depreciation Rate on original project cost	√
FORM- 10A	Statement of Depreciation	√
FORM- 10B	Statement of De-capitalisation	X
FORM- 11	Calculation of Interest on Working Capital	√
FORM- 12	Details of time over run	X
FORM- 12A	Incidental Expenditure during Construction	X
FORM- 12B	Calculation of IDC & Financing Charges	X
FORM- 13	Details of Initial spares	X
FORM- 14	Non-Tariff Income	X
FORM- 15	Summary of issue involved in the petition	X
Appen-1	O & M Expenses details	√
Appen-2	Statement of capital cost (Input Data)	√
Appen-3	Computation of Savings due Loan Refinancing	√
<b>Other Information/ Documents</b>		
Sl. No.	Information/Document	Tick
1	Certificate of incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association (For New Project(s) setup by a company making tariff application for the first time to CERC)	X
2	Region wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures for the new Transmission System & Communication System for the relevant years.	X
3	Copies of relevant loan Agreements	X
4	Copies of the approval of Competent Authority for the <b>Capital Cost</b> and Financial package.	√
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	X
6	Copies of the BPTA/TSA/PPA with the beneficiaries, if any	X
7	Detailed note giving reasons of cost and time over run, if applicable.	X
	List of supporting documents to be submitted: a.Detailed Project Report b.CPM Analysis c.PERT Chart and Bar Chart d.Justification for cost and time Overrun	√
8	Transmission Licensee shall submit copy of Cost Audit Report along with cost accounting records, cost details, statements, schedules etc. for the transmission system as submitted to the Govt. of India for first two years i.e. 2024-25 and 2025-26 at the time of mid-term true-up in 2021-22 and for balance period of tariff period 2019-24 at the time of final true-up in 2024-25. In case of initial tariff filing the latest available Cost Audit Report should be furnished.	X
9	BBMB is maintaining the records as per the relevant applicable Acts. Formats specified herein may not be suitable to the available information with BBMB. BBMB may modify formats suitably as per available information to them for submission of required information for tariff purpose.	X
10	Any other relevant information, (Please specify)	X
<b>Note1:</b> Electronic copy of the petition (in word format) and detailed calculation as per these formats (in excel format) and any other information submitted shall also be furnished in the form of CD/Floppy disc.		



Summary Sheet

Name of the Petitioner: Damodar Valley Corporation

Name of the Region: Eastern Region

Name of the Project: Transmission &amp; Distribution System

Name of the Transmission Element or Communication System: Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor

Amount Rs. in Lakh

S.N o.	Particulars	Unit	Form Reference	2024-25	2025-26	2026-27	2027-28	2028-29
1	2		3	4	5	6	7	8
<b>A</b>	<b>Cost components as per Regulations 30, 31, 32, 33, 34, 35 of the CERC (Terms and Conditions of Tariff) Regulations, 2019, to be recovered on the basis of availability</b>							
1.1	Depreciation	Rs in Lakh	Form-10A	2691.18	2691.18	2691.18	2691.18	2691.18
1.2	Interest on Loan	Rs in Lakh	Form-9E	1228.11	984.86	741.60	498.34	255.09
1.3	Return on Equity <sup>1</sup>	Rs in Lakh	Form-8	2959.86	2959.86	2959.86	2959.86	2959.86
1.4	Interest on Working Capital	Rs in Lakh	Form-11	113.62	110.59	107.58	104.35	101.68
1.5	O & M Expenses	Rs in Lakh	Appen-1 O&M (2024-29)	259.81	273.48	287.79	303.04	318.93
	<b>Sub-total: A</b>	<b>Rs in Lakh</b>		<b>7,252.58</b>	<b>7,019.97</b>	<b>6,788.00</b>	<b>6,556.77</b>	<b>6,326.73</b>
<b>B</b>	<b>Cost components as per Regulation 34 (3) (c) , 72 &amp; 76 of the CERC (Terms and Conditions of Tariff) Regulations 2019, Subsequent CERC/Court Orders, and the DVC Act, to be recovered in full on sharing basis</b>							
1.9	DVC's share of savings in interest cost due to loan restructuring	Rs in Lakh	Appen-3-Loan Restr.	139.33	111.73	84.14	56.54	28.94
	<b>Sub-total: B</b>	<b>Rs in Lakh</b>		<b>139.33</b>	<b>111.73</b>	<b>84.14</b>	<b>56.54</b>	<b>28.94</b>
	<b>Grand Total</b>	<b>Rs in Lakh</b>		<b>7391.91</b>	<b>7131.70</b>	<b>6872.14</b>	<b>6613.31</b>	<b>6355.67</b>

Note

1: Details of calculations, considering equity as per regulation, to be furnished (As per Form 8).



(Petitioner)

**DETAILS OF TRANSMISSION LINES & SUBSTATIONS & COMMUNICATION SYSTEM**

Name of the Petitioner: Damodar Valley Corporation

Name of the Region: Eastern Region

Name of the Project: Transmission &amp; Distribution System

Name of the Transmission Element or Communication System: Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor

**Transmission Lines:**

Transmission Lines.

S. No.	Name of line	Type of line AC/HVDC	S/C or D/C	No. of Sub-Conductors	Voltage level kV	Line length Ckt.- km.	Line length km	Date of Commercial operation		Covered in the present petition	
										Yes/No	If No, petition No.
	EXISTING LINES										
1	Single Circuit LILO of 400 KV D/C Durgapur (PG) – Jamshedpur (PG) at DSTPS --- Twin Moose Conductor	AC	D/C	2	400 KV	7.78	3.89	1-Feb-11		Yes	-----
2	Single Circuit LILO of 400 KV D/C Maithon (PG) – Ranchi(PG) at RTPS (DOCO 01.07.2012)	AC	D/C	2	400 KV	21.126	10.563	1-Jul-12		Yes	-----
3	Double Circuit 400 KV DSTPS - RTPS --- Twin Moose (DOCO 01.08.2013)	AC	D/C	2	400 KV	139	69.5	1-Aug-13		Yes	-----
	NEW LINES										
4	Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor	AC	D/C	4	400 KV	311	155.5	30.08.2017		Yes	-----

**Substations:**

S.NO.	Name of Sub-station	Type of Substation Conventional(Greenfield/ Brownfield)/ 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	
					765 kV	400 kV	220 kV	132 kV & Below			Yes/No	If No, petition No.
1	TWO NOS. 400 KV BAYS FOR RTPS- RANCHI TRANSMISSION LINE AT RTPS END		400kV			2			30.08.2017		Yes	-----



**Normative parameters considered for tariff computations**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor**

**Year Ending March**

Particulars	Unit	2024-25	2025-26	2026-27	2027-28	2028-29
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Base Rate of Return on Equity	%	15.50%	15.50%	15.50%	15.50%	15.50%
Tax Rate	%	25.17%	25.17%	25.17%	25.17%	25.17%
Effective tax rate <sup>1</sup>	%	25.17%	25.17%	25.17%	25.17%	25.17%
Target Availability	%	98	98	98	98	98
<b>Normative O&amp;M per km</b>	Rs. Lakh					
Single Circuit (Bundled Conductor with six or more sub-conductor)		0.861	0.906	0.953	1.003	1.056
Single Circuit (Bundled Conductor with four sub-conductors)		0.738	0.776	0.817	0.86	0.905
Single Circuit (Twin & Triple conductor)		0.492	0.518	0.545	0.573	0.603
Single Circuit (Single conductor)		0.246	0.259	0.272	0.287	0.302
Double Circuit (Bundled Conductor with four or more sub-conductors)		1.291	1.359	1.43	1.506	1.585
Double Circuit (Twin & Triple conductor)		0.861	0.906	0.953	1.003	1.056
Double Circuit (Single conductor)		0.369	0.388	0.409	0.43	0.453
Multi Circuit (Bundled Conductor with four or more sub-conductors)		2.266	2.385	2.51	2.642	2.781
Multi Circuit (Twin & Triple conductor)		1.509	1.588	1.671	1.759	1.851
<b>Normative O&amp;M per bay</b>	Rs. Lakh					
765 kV		41.34	43.51	45.79	48.2	50.73
400 kV		29.53	31.08	32.71	34.43	36.23
220 kV		20.67	21.75	22.9	24.1	25.36
132 kV and below		15.78	16.61	17.48	18.4	19.35
<b>Normative O&amp;M for Transformers per MVA</b>	Rs. Lakh					
765 kV		0.262	0.276	0.29	0.305	0.322
400 kV		0.262	0.276	0.29	0.305	0.322
220 kV		0.262	0.276	0.29	0.305	0.322
132 kV and below		0.262	0.276	0.29	0.305	0.322
Spares for WC as % of O&M	%	15	15	15	15	15
Receivables in Days for WC	Days	45	45	45	45	45
Bank Rate as on 1.04.2024 (SBI 1Y MCLR+325 basis points)	%	11.90%	11.90%	11.90%	11.90%	11.90%

1.To be supported by necessary documents and calculations. Effective tax rate is to be computed in accordance with Regulation 25 i.e. actual tax (or estimated tax)/gross income, where gross income refers the profit before tax.

2.Mention relevant date



**(Petitioner)**

Statement of Additional Capitalisation after COD

Name of the Petitioner: Damodar Valley Corporation

Name of the Region: Eastern Region

Name of the Project: Transmission & Distribution System

Name of the Transmission Element or Communication System: Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor

Sr. No.	Year	Work/Equipment proposed to be added after COD upto Cut off Date/ beyond Cut-off Date	Amount capitalized /Proposed to be capitalized (Rs Lakh)	SUB STATION or LINE or COMMUNICATION	NAME	Year of commissioning of old asset (in case of replacement)	Justification	Regulations under which covered	Admitted Cost(1) (Rs Lakh)	
1	2	3	4				5	6	7	
			0.00							
		<b>Total for 2024-25</b>	<b>0.00</b>							
			0.00							
		<b>Total for 2025-26</b>	<b>0.00</b>							
			0.00							
		<b>Total for 2026-27</b>	<b>0.00</b>							
			0							
		<b>Total for 2027-28</b>	<b>0.00</b>							
			0							
		<b>Total for 2028-29</b>	<b>0.00</b>							



**Calculation of Return on Equity at Normal Rate**

Name of the Petitioner: Damodar Valley Corporation

Name of the Region: Eastern Region

Name of the Project: Transmission & Distribution System

Name of the Transmission Element or Communication System: Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor

(Amt. in Lakhs)

S.N o.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	4	5	6	7	8
1.1	Equity as on COD/Admitted equity #	14,289.45	14,289.45	14,289.45	14,289.45	14,289.45
1.2	Notional Equity for Add Cap after cut-off date	-	-	-	-	-
1.3	Notional Equity for Add Cap after completion of useful life	-	-	-	-	-
1.4	<b>Total Equity</b>	14,289.45	14,289.45	14,289.45	14,289.45	14,289.45
1.5	Return on Equity on project cost till Cutoff date	20.71%	20.71%	20.71%	20.71%	20.71%
1.6	<b>Return on Equity on Add Cap</b>	<b>2,959.86</b>	<b>2,959.86</b>	<b>2,959.86</b>	<b>2,959.86</b>	<b>2,959.86</b>

Note:- 1: \* - To be calculated on average equity during the year.



(Petitioner)

FORM-9C						
Calculation of Weighted Average Rate of Interest on Actual Loans T&D						
Name of the Petitioner	0					
	(Rs. Lakh)					
Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
<b>Loan-4 REC Loan (For T&amp;D)</b>						
Gross loan - Opening	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85
Cumulative repayments of Loans upto previous year	5,266.39	10,532.78	15,799.17	21,065.56	78,995.85	78,995.85
Net loan - Opening	73,729.46	68,463.07	63,196.68	57,930.29	-	-
Add: Drawal(s) during the Year	-	-	-	-	-	-
Less: Repayment (s) of Loans during the year	5,266.39	5,266.39	5,266.39	57,930.29	-	-
Net loan - Closing	68,463.07	63,196.68	57,930.29	-	-	-
Average Net Loan	68,679.49	65,829.87	60,563.48	6,290.78	-	-
Rate of Interest on Loan on annual basis	10.15%	10.15%	10.15%	9.98%	-	-
<b>Interest on loan</b>	<b>6,970.97</b>	<b>6,681.73</b>	<b>6,147.19</b>	<b>627.82</b>	<b>-</b>	<b>-</b>
<b>Loan - 3 Punjab &amp; Sind Bank Loan (For T&amp;D)</b>						
Gross loan - Opening				-	52,663.90	52,663.90
Cumulative repayments of Loans upto previous year				-	3,949.79	9,216.18
Net loan - Opening				-	48,714.11	43,447.72
Add: Drawal(s) during the Year				52,663.90	-	-
Less: Repayment (s) of Loans during the year				3,949.79	5,266.39	5,266.39
Net loan - Closing		-	-	48,714.11	43,447.72	38,181.33
Average Net Loan pro-rated based on repayment date (see Note -5)		-	-	46,845.64	46,080.92	40,814.53
Rate of Interest on Loan on annual basis (refer Note below **)				7.80%	7.76%	8.72%
<b>Interest on loan</b>				<b>3,653.96</b>	<b>3,577.99</b>	<b>3,559.01</b>
<b>Loan-4(i): Share of GoI Guaranteed DVC Bonds (Series - 14 - Rs. 4,400 Crore) (Drawn On 30.03.2012)</b>						
Gross loan - Opening	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Cumulative repayments of Loans upto previous year	-	-	-	-	-	-
Net loan - Opening	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Add: Drawal(s) during the Year	-	-	-	-	-	-
Less: Repayment (s) of Loans during the year	-	-	-	-	-	-
Net loan - Closing	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Average Net Loan	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00
Rate of Interest on Loan on annual basis	10.30%	10.30%	10.80%	10.53%	10.44%	10.34%
<b>Interest on loan</b>	<b>1,030.00</b>	<b>1,030.00</b>	<b>1,080.11</b>	<b>1,053.36</b>	<b>1,044.15</b>	<b>1,034.12</b>
<b>Total Loan</b>						
Gross loan - Opening	88,995.85	88,995.85	88,995.85	88,995.85	141,659.75	141,659.75
Cumulative repayments of Loans upto previous year	5,266.39	10,532.78	15,799.17	21,065.56	82,945.64	88,212.03
Net loan - Opening	83,729.46	78,463.07	73,196.68	67,930.29	58,714.11	53,447.72
Add: Drawal(s) during the Year	-	-	-	52,663.90	-	-
Less: Repayment (s) of Loans during the year	5,266.39	5,266.39	5,266.39	61,880.08	5,266.39	5,266.39
Net loan - Closing	78,463.07	73,196.68	67,930.29	58,714.11	53,447.72	48,181.33
Average Net Loan	78,679.49	75,829.87	70,563.48	63,136.42	56,080.92	50,814.53
<b>Interest on loan</b>	<b>8,000.97</b>	<b>7,711.73</b>	<b>7,227.31</b>	<b>5,335.14</b>	<b>4,622.14</b>	<b>4,593.13</b>
<b>Weighted average Rate of Interest on Loans</b>	<b>10.17%</b>	<b>10.17%</b>	<b>10.24%</b>	<b>8.45%</b>	<b>8.24%</b>	<b>9.04%</b>
<b>Note:</b> 1. In case of Foreign Loans, the calculations in Indian Rupees is to be furnished. However, the calculations in Original currency is also to be furnished separately in the same form.						



**Calculation of Interest on Normative Loan**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor**

Amount in Rs. Lakhs

Particulars	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
1		2	3	4	5	6
Gross Normative loan - Opening	33304.6	33342.05	33342.05	33342.05	33342.05	33342.05
Cumulative repayment of Normative Loan upto previous year #	15719.53	18409.67	21100.85	23792.03	26483.21	29174.39
<b>Net Normative loan - Opening</b>	<b>17585.02</b>	<b>14932.37</b>	<b>12241.19</b>	<b>9550.01</b>	<b>6858.83</b>	<b>4167.66</b>
Add: Increase due to addition during the year / period	37.49	0.00	0.00	0.00	0.00	0.00
Less: Decrease due to repayment during the year / period	2690.14	2691.18	2691.18	2691.18	2691.18	2691.18
Less: Decrease due to de-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00	0.00
Less: Decrease due to reversal during the year / period	0.00	0.00	0.00	0.00	0.00	0.00
Add: Increase due to discharges during the year / period	0	0.00	0.00	0.00	0.00	0.00
<b>Net Normative loan - Closing</b>	<b>14932.37</b>	<b>12241.19</b>	<b>9550.01</b>	<b>6858.83</b>	<b>4167.66</b>	<b>1476.48</b>
Average Normative Loan	16258.70	13586.78	10895.60	8204.42	5513.25	2822.07
Weighted average Rate of Interest of actual Loans	9.04%	9.04%	9.04%	9.04%	9.04%	9.04%
<b>Interest on Normative loan</b>	<b>1,469.79</b>	<b>1,228.11</b>	<b>984.86</b>	<b>741.60</b>	<b>498.34</b>	<b>255.09</b>



**(Petitioner)**

**Calculation of Depreciation Rate On Original Project Cost**

Name of the Petitioner: Damodar Valley Corporation

Name of the Region: Eastern Region

Name of the Project: Transmission & Distribution System

Name of the Transmission Element or Communication System: Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor

Amount in Rs. Lakh

Sl. no.	Name of the Assets <sup>1</sup>	Gross Block as on 31.03.2019 or as on COD, whichever is later and subsequently for each year thereafter upto 31.3.24	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount for each year up to 31.03.24
	1	2	3	4= Col.2 X Col.3
1	Land			
2	Building			
3	and so on			
4				
	<b>TOTAL</b>			
	<b>Weighted Average Rate of Depreciation (%) *</b>		<b>5.650%</b>	

Note:

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

Note: \* Rate of depreciation is considered as in FY2023-24



(Petitioner)

**Statement of Depreciation**

Name of the Petitioner: Damodar Valley Corporation

Name of the Region: Eastern Region

Name of the Project: Transmission &amp; Distribution System

Name of the Transmission Element or Communication System: Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor

(Amount in Rs. Lakhs)

Sl. No.	Particulars	Existing 2023-24 #	2024-25	2025-26	2026-27	2027-28	2028-29
(1)	(2)	(8)	9	10	11	12	13
1	Opening Capital Cost	47577.93	47631.49	47631.49	47631.49	47631.49	47631.49
2	Closing Capital Cost	47631.49	47631.49	47631.49	47631.49	47631.49	47631.49
3	<b>Average Capital Cost</b>	<b>47604.71</b>	47631.49	47631.49	47631.49	47631.49	47631.49
4	Freehold land	0.00	0.00	0.00	0.00	0.00	0.00
5	Rate of depreciation	5.65%	5.650%	5.650%	5.650%	5.650%	5.650%
6	Depreciable value	42844.24	42868.34	42868.34	42868.34	42868.34	42868.34
7	Balance useful life at the beginning of the period						
8	Remaining depreciable value	27124.71	24458.67	21767.49	19076.31	16385.13	13693.95
9	<b>Depreciation (for the period)</b>	<b>2690.14</b>	<b>2691.18</b>	<b>2691.18</b>	<b>2691.18</b>	<b>2691.18</b>	<b>2691.18</b>
10	<b>Depreciation (annualised)</b>	<b>2,690.14</b>	<b>2,691.18</b>	<b>2,691.18</b>	<b>2,691.18</b>	<b>2,691.18</b>	<b>2,691.18</b>
11	Cumulative depreciation at the end of the period	18409.67	21100.85	23792.03	26483.21	29174.39	31865.57
12	Less: Cumulative depreciation adjustment on account of de-capitalisation	124.86	0.00	0.00	0.00	0.00	0.00
13	Net Cumulative depreciation at the end of the period	18409.67	21100.85	23792.03	26483.21	29174.39	31865.57

1. In case of details of FERV and AAD, give information for the applicable period.



**Calculation of Interest on Working Capital**

**Name of the Petitioner: Damodar Valley Corporation**

**Name of the Region: Eastern Region**

**Name of the Project: Transmission & Distribution System**

**Name of the Transmission Element or Communication System: Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor**

Amount in Rs. Lakh

Sl. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	9	10	11	12	13
		365	365	365	366	365
1	O & M Expenses	21.65	22.79	23.98	25.25	26.58
2	Maintenance Spares	38.97	41.02	43.17	45.46	47.84
3	Receivables	894.15	865.48	836.88	806.16	780.01
4	<b>Total Working Capital</b>	<b>954.78</b>	<b>929.29</b>	<b>904.03</b>	<b>876.87</b>	<b>854.42</b>
5	Rate of Interest	11.90%	11.90%	11.90%	11.90%	11.90%
6	<b>Interest on Working Capital</b>	<b>113.62</b>	<b>110.59</b>	<b>107.58</b>	<b>104.35</b>	<b>101.68</b>



(Petitioner)

## Summary of issue involved in the petition

1	Petitioner: DAMODAR VALLEY CORPORATION			
2	Subject	Petition under Sections 62(1)(b) & 79(1)(d) of the Electricity Act, 2003 and Regulation - 86 of CERC (Conduct of Business) Regulations, 1999 and Regulations 9 & 10 of CERC (Terms and Conditions of Tariff) Regulations, 2019 in respect of 'Non-ISTS 400 kV Transmission Lines carrying ISTS Power' [S/C LILO of 400 KV D/C Durgapur (PG) – Jamshedpur (PG) at DSTPS; S/C LILO of 400 KV D/C Maithon (PG) – Ranchi (PG) at RTPS, D/C 400 KV DSTPS – RTPS, D/C 400 KV RTPS – Ranchi (PG)] of Damodar Valley Corporation for the tariff period 2019 – 24.		
3	<p><b>Prayer:</b> The petitioner respectfully prays before the Hon'ble Commission to:</p> <p>(a) Determine the tariff for the four nos. of 400 KV TRANSMISSION LINES ('NON-ISTS LINE' CARRYING 'ISTS POWER') DVC network for the period 01.04.2019 to 31.03.2024 considering projected capital expenditure as furnished in the instant petition.</p> <p>(b) Consider the capital and other costs as proposed by DVC in the petition as well as in the formats attached to the petition by providing necessary relaxation in terms of Regulation 54 and 55, wherever applicable and further by applying the provisions of Part IV of the DVC Act, 1948;</p> <p>(c) Allow DVC to recover shortfall or refund the levies, filing fees, taxes, duties, cess, charges, fees etc., if any, excess Annual Fixed Charges, on account of Return on Equity due to change in applicable Minimum Alternate/Corporate Income Tax rate as per Income Tax Act. 1961 (as amended from time to time) of the respective financial year directly without the need to make any further application before the Commission as provided under clause 25 of the Tariff + Regulation 2014.</p> <p>(d) The Tariff for Transmission of Electricity (Annual Fixed Charges) as per para 14 (J) of petition, in accordance with Regulation 43 Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014. These charges shall be recovered on a monthly basis and the billing collection and disbursement shall be governed by the provisions of Central Electricity Regulatory Commission (sharing of interstate Transmission Charges and Losses) Regulations, 2010.</p> <p>(e) In the circumstances mentioned above it will be just and proper that the transmission tariff for the assets covered under this petition be allowed to be recovered from beneficiaries by considering the tariff determined herein by this Hon'ble Commission while determining the POC charges or as deemed fit by the Hon'ble Commission.</p> <p>(f) Pass such further order or orders as this Hon'ble Commission may deem just and proper in the facts and circumstances of the case.</p>			
4	Respondents			
	Name of Respondents			
	a.	West Bengal State Electricity Distribution Company Limited. (Previously West Bengal State Electricity Board)	Block 'DJ' Sector-11, Salt Lake City, Kolkata – 700 091.	
	b.	Jharkhand Biji Vitran Nigam Limited Previously Jharkhand State Electricity Board	Engineering Building, HEC, Dhurwa, Ranchi -- 834 004.	
	c.	Punjab State Power Corporation Limited, (Erstwhile Punjab State Electricity Board)	Interstate Billing, Shed No. TI-A), Patiala-147 001	
	d.	Kerala State Electricity Board Limited	8th Floor, Vidyuthi Bhawan, Thiruvananthapuram-695 004	
	e.	Haryana Power Purchase Centre Representing Uttar Haryana Bijlee Vitaran Nigam Limited and Dakshin Haryana Bijlee Vitaran Nigam	Sector 6, Shakti Bhawan, Panchkula, Haryana-134109	
	f.	Bengaluru Electricity Supply Company Limited	K.R.Circle, Bangalore-560001	
5	Project Scope	Investment approval date Scope of work details SCOD as per investment approval Actual COD claimed under regulation (as per grid code): (Ref: Form-2) RPC/SCM approval (Date of meeting) Time overrun (brief detail of reason) Capital Cost (Brief details of cost overrun reasons): Rs. 47981.82 Lakhs as on 01.04.2019 (Ref: Appendix-2 Input Sheet) O&M expense (Claimed): Ref: Appendix-1 for O&M Computation. Connectivity diagram or SLD		
	Cost			
	Commissioning			
	Claim			
		AFC (2019-24) Claimed in this petition:		
		2024-25	2025-26	2026-27
		2027-28	2028-29	
PART-A		7252.6	7020.0	6788.0
PART-B		139.3	111.7	84.1
		7391.91	7131.70	6872.14
		6613.31	6355.67	
	Capital cost Initial Spare			
	NATAF			
	Any specific			



Normative O & M Expenses details for LILO - DSTPS Transmission Line Sub Station (Bays)							
Name of the Petitioner: Damodar Valley Corporation						PART-III	
Name of the Region: Eastern Region						Appendix-1	
Name of the Project: Transmission & Distribution System							
Name of the Transmission Element or Communication System: Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor							
Sl No.	Sub Station		O&M Rate (Rs in lakhs/bay)				Amount (Rs in Lakhs)
			765kV	400 KV	220 KV	132 KV and below	
1	2024-25		41.34	29.53	20.67	15.78	
2	2025-26		43.51	31.08	21.75	16.61	
3	2026-27		45.79	32.71	22.9	17.48	
4	2027-28		48.2	34.43	24.1	18.4	
5	2028-29		50.73	36.23	25.36	19.35	
NUMBER OF SUB-STATION BAYS (at RTPS end for RTPS-Ranchi Line) EXISTING AS ON 31.03.2024 & CONSIDERED FOR O&M			765kV	400 KV	220 KV	132 KV and below	
				2			59.06
FY 2024-25							
	Bays added during 2024-25	COD					
	TOTAL 2024-25		0	0	0	0	0.000
FY 2025-26							
	Existing on 31st March 2025	COD	0	2	0	0	62.160
	TOTAL 2025-26		0	2	0	0	0.000
FY 2026-27							
	Existing on 31st March 2026	COD	0	0	0	0	0.000
	TOTAL 2026-27		0	2	0	0	65.42
FY 2027-28							
	Existing on 31st March 2027	COD	0	2	0	0	68.860
FY 2028-29							
	TOTAL 2028-29	COD	0	2	0	0	72.460
LINE							
O & M Line							
	Line		Rate (Rs in lakhs/km)				
			S/C Single Conductor	D/C Single Conductor	D/C Double Conductor	D/C Four Conductor	
1	2024-25		0.246	0.369	0.861	1.291	
2	2025-26		0.259	0.388	0.906	1.359	
3	2026-27		0.272	0.409	0.953	1.43	
4	2027-28		0.287	0.43	1.003	1.506	
5	2028-29		0.302	0.453	1.056	1.585	
Sl No.	Line		KM				Amount (Rs in Lakhs)
			S/C Single Conductor	D/C Single Conductor	D/C Double Conductor	D/C Four Conductor	
FY 2024-25							
		COD					
	Existing on 31st March 2024		0	0	0	155.5	200.751
	TOTAL 2024-25		0	0	0	0	0.000
FY 2025-26							
	Existing on 31st March 2025	COD	0	0	0	155.5	211.325
	TOTAL 2025-26 ADDITION		0	0	0	0	0.000
FY 2026-27							
	Existing on 31st March 2026	COD	0	0	0	155.5	222.365
	TOTAL 2026-27 ADDITION		0	0	0	0	0
FY 2027-28							
	Existing on 31st March 2027	COD	0	0	0	155.5	234.183
	TOTAL 2027-28 ADDITION		0	0	0	0	0.000
FY 2028-29							
	Existing on 31st March 2028	COD	0	0	0	155.5	246.468
	TOTAL 2028-29 ADDITION		0	0	0	0	0.000
Note:							
O & M (Rs. In Lakhs) for New Elements Added during 2024-29							
	2024-25	2025-26	2026-27	2027-28	2028-29		
Transmission Line	200.75	211.32	222.37	234.18	246.47		
Sub Station	59.06	62.16	65.42	68.86	72.46		
Total -Transmission O&M	259.81	273.48	287.79	303.04	318.93		
GRAND TOTAL O&M	259.81	273.48	287.79	303.04	318.93		



## Statement of capital cost

Name of the Petitioner: Damodar Valley Corporation

Name of the Region: Eastern Region

Name of the Project: Transmission &amp; Distribution System

Name of the Transmission Element or Communication System: Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor

PARTICULARS	Capital cost as on 31.3.2024	PROJECTED				
		2024-25	2025-26	2026-27	2027-28	2028-29
CAPITAL COST	47631.49					
ADDITIONAL CAPITALIZATION		0.00	0.00	0.00	0.00	0.00
DECAPITALISATION						
CUMULATIVE CAPITAL COST	47631.49	47631.49	47631.49	47631.49	47631.49	47631.49
AVERAGE		47631.49	47631.49	47631.49	47631.49	47631.49
EQUITY ADDED DURING THE YEAR		0.00	0.00	0.00	0.00	0.00
EQUITY REDUCTION DUE TO DECAPITALISATION						
CUMULATIVE EQUITY	14289.45	14289.45	14289.45	14289.45	14289.45	14289.45
AVERAGE		14289.45	14289.45	14289.45	14289.45	14289.45
NORMATIVE LOAN ADDED DURING THE YEAR		0.00	0.00	0.00	0.00	0.00
LOAN REDUCTION DUE TO DECAPITALISATION						
CUMULATIVE LOAN	33342.05	33342.05	33342.05	33342.05	33342.05	33342.05
AVERAGE		33342.05	33342.05	33342.05	33342.05	33342.05
DEPRECIATION						
CAPITAL COST OPENING	47631.49	47631.49	47631.49	47631.49	47631.49	47631.49
CAPITAL COST CLOSING		47631.49	47631.49	47631.49	47631.49	47631.49
AVERAGE CAPITAL COST		47631.49	47631.49	47631.49	47631.49	47631.49
RATE OF DEPRECIATION		5.650%	5.650%	5.650%	5.650%	5.650%
FREEHOLD LAND						
90% DEPRECIABLE VALUE EXCLUDING LAND & LAND RIGHTS		42868.34	42868.34	42868.34	42868.34	42868.34
CUMULATIVE DEPRECIATION AS ON 1ST APRIL		18409.67	21100.85	23792.03	26483.21	29174.39
ADJUSTMENT OF CUM. DEPR. DUE TO UNDISCHARGED LIABILITY UP TP PREV. YEAR		0.00	0.00	0.00	0.00	0.00
ADJUSTED CUM. DEPR. AS ON 1ST APRIL		18409.67	21100.85	23792.03	26483.21	29174.39
BALANCE DEPRECIABLE VALUE		24458.67	21767.49	19076.31	16385.13	13693.95
DEPRECIATION TO BE RECOVERED		2691.18	2691.18	2691.18	2691.18	2691.18
CUMULATIVE DEPRECIATION		21100.85	23792.03	26483.21	29174.39	31865.57
CUMULATIVE DEPRECIATION ADJUSTMENT ON ACCOUNT OF DISCHARGE OF LIABILITIES		0.00	0.00	0.00	0.00	0.00
ADJUSTMENT OF DECAPITALISATION		0.00	0.00	0.00	0.00	0.00
NET CUMULATIVE DEPRECIATION AT THE END OF THE PERIOD	18409.67	21100.85	23792.03	26483.21	29174.39	31865.57



**Calculation of Savings due to Loan Re-financing**

Name of the Petitioner: Damodar Valley Corporation

Name of the Region: Eastern Region

Name of the Project: Transmission &amp; Distribution System

Name of the Transmission Element or Communication System: Double Circuit 400 KV RTPS – Ranchi (PG) --- Quad Moose Conductor (Amount in Rs. Lakh)

Particulars	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
<b>Loan-1 REC Loan (For T&amp;D)</b>						
Gross loan - Opening	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85
Cumulative repayments of Loans upto previous year	5,266.39	10,532.78	15,799.17	21,065.56	26,331.95	31,598.34
Net loan - Opening	73,729.46	68,463.07	63,196.68	57,930.29	52,663.90	47,397.51
Add: Drawal(s) during the Year	-	-	-	-	-	-
Less: Repayment (s) of Loans during the year	5,266.39	5,266.39	5,266.39	5,266.39	5,266.39	5,266.39
Net loan - Closing	68,463.07	63,196.68	57,930.29	52,663.90	47,397.51	42,131.12
Average Net Loan	68,679.49	65,829.87	60,563.48	55,297.09	50,030.70	44,764.31
Rate of Interest on Loan on annual basis	11.09%	11.09%	11.09%	11.09%	11.09%	11.09%
<b>Interest on loan</b>	<b>7,616.56</b>	<b>7,300.53</b>	<b>6,716.49</b>	<b>6,132.45</b>	<b>5,548.40</b>	<b>4,964.36</b>
<b>Total Loan</b>						
Gross loan - Opening	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85	78,995.85
Cumulative repayments of Loans upto previous year	5,266.39	10,532.78	15,799.17	21,065.56	26,331.95	31,598.34
Net loan - Opening	73,729.46	68,463.07	63,196.68	57,930.29	52,663.90	47,397.51
Add: Drawal(s) during the Year	-	-	-	-	-	-
Less: Repayment (s) of Loans during the year	5,266.39	5,266.39	5,266.39	5,266.39	5,266.39	5,266.39
Net loan - Closing	68,463.07	63,196.68	57,930.29	52,663.90	47,397.51	42,131.12
Average Net Loan	68,679.49	65,829.87	60,563.48	55,297.09	50,030.70	44,764.31
<b>Interest on loan</b>	<b>7,616.56</b>	<b>7,300.53</b>	<b>6,716.49</b>	<b>6,132.45</b>	<b>5,548.40</b>	<b>4,964.36</b>
<b>Weighted average Rate of Interest on Loans</b>	<b>11.09%</b>	<b>11.09%</b>	<b>11.09%</b>	<b>11.09%</b>	<b>11.09%</b>	<b>11.09%</b>

**Computation of net savings on interest due to loan re-financing:**

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
Average Normative loan (refer Form-9E)	13,586.78	10,895.60	8,204.42	5,513.25	2,822.07
Weighted Average Rate of Interest on Loans - without loan re-financing	11.09%	11.09%	11.09%	11.09%	11.09%
Interest on normative loan - without loan re-financing (A)	1,506.77	1,208.32	909.87	611.42	312.97
Actual Weighted Average Rate of Interest on Loans - with loan re-financing (refer Form-9E)	9.04%	9.04%	9.04%	9.04%	9.04%
Interest on normative loan - with loan re-financing (refer Form-9E)	1,228.11	984.86	741.60	498.34	255.09
Net savings on interest due to loan re-financing (C = A - B)	278.66	223.47	168.27	113.08	57.88
<b>DVC's share in the net savings on interest due to loan re-financing as per Reg. 61(1) of CERC Tariff Regulations 2019 (D = C/2)</b>	<b>139.33</b>	<b>111.73</b>	<b>84.14</b>	<b>56.54</b>	<b>28.94</b>

**Note:**

1. In case of Foreign Loans, the calculations in Indian Rupees is to be furnished. However, the calculations in Original currency is also to be furnished separately in the same form.

