



CHHATTISGARH STATE POWER TRANSMISSION COMPANY

LIMITED

छत्तीसगढ़ स्टेट पावर ट्रांसमिशन कंपनी लिमिटेड

(C.G. Govt. Undertaking) (छत्तीसगढ़ शासन का एक उपक्रम)

CIN-U40108CT2003SGC015820

CHHATTISGARH STATE LOAD DESPATCH CENTRE: RAIPUR

GST No. - 22AADCC5773E1ZX छत्तीसगढ़ राज्य भार प्रेषण केन्द्र, रायपुर

दूरभाष PHONE: 0771-2574172,

फैक्स FAX NO. 0771-2574174.

Web Site: www.sldccg.com

email: csebsldc@sldccg.com

Ref: 03-02/SLDC/ 2567

Raipur, Dated: 27/01/2025

To,

The Secretary,
Chhattisgarh State Electricity Regulatory
Commission, Irrigation Colony, Shanti Nagar,
Raipur, Chhattisgarh - 492001

Sub: Regarding Request for Permission to Re-upload Data gap in respect of Petition due to Typographical Error in Petition filed for approval of Capital Investment Plan for FY 2025-26 and in respect of CSLDC: Data gap in respect of petition no. 101/2024.

Ref: 1. T.O. Letter No. 03-02/SLDC/ 2546, Raipur, Dated: 23/01/2025
2. Your office letter no. P.No. 101 of 2024/2381 Raipur dtd 30.12.2024

With respect to above cited we are writing to bring to your attention a typographical error in the Data gap in respect of Petition submitted by us to the Commission. Due to this error, we kindly request permission to re-upload the corrected Petition.

The details of the Data gap in respect of petition are as follows:

- Petition No- [101/2024]
- Date of Submission: [24.01.2025]

The error occurred due to an inadvertent mistake during the uploading process. We have corrected the error and are ready to re-upload the Data gap in respect of Petition No. 101/2024.

We request your permission to re-upload the corrected Data gap in respect of Petition at the earliest.

Enclosed:- As Above

Chief Engineer (SLDC)

C.S. Power Trans. Co. Ltd.
Raipur

Chief Engineer (LD)
C.S. Power Trans. Co. Ltd.
Raipur



CHHATTISGARH STATE POWER TRANSMISSION COMPANY LIMITED

छत्तीसगढ़ स्टेट पावर ट्रांसमिशन कंपनी लिमिटेड

(C.G. Govt. Undertaking) (छत्तीसगढ़ शासन का एक उपक्रम)

CHHATTISGARH STATE LOAD DESPATCH CENTRE: RAIPUR

CIN:U40108CT2003SGC015820

GST No. - 22AADCC5773E1ZX

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email: csebsldc@sldccg.com

Ref: 03-02/SLDC/ 2546

Raipur, Dated: 23.01.2025

To,

The Secretary,
Chhattisgarh State Electricity Regulatory
Commission, Irrigation Colony, Shanti Nagar,
Raipur, Chhattisgarh - 492001

Sub: Regarding Petition filed for approval of Capital Investment Plan for FY 2025-26 and in respect of CSLDC: **Data gap in respect of petition no. 101/2024.**

Ref: CSERC letter no.P.No.101 of 2024/2381

In regard to Data Gaps/ Additional Information Required asked by Hon'ble Commission in letter No. P. No. 101 of 2024/2381 dated 30.12.2024 for petition filed by CSLDC for approval of Capital Investment Plan for FY 2025-26:

A. General

1. The table numbering is incorrect and repeated and there are several typographical errors also. CSLDC should re-submit all corrected Tables of the Petition correctly numbered and without any typographical errors.

Reply: - CSLDC would like to submit that the revised table numbers are updated in the revised petition and a list of tables is attached as part of **Annexure A2** which includes the copy of the complete petition.

2. CSLDC should submit the copy of the Petition in MS Word format.

Reply:- Copy of the petition in printed format is attached as **Annexure A2** and MS Word Format is shared separately.

3. CSLDC should submit the summary of CIP and Cost Benefit Analysis of each Capex Scheme in MS Excel.

Reply: - CSLDC would like to submit the summary of CIP and Cost Benefit Analysis of each Capex Scheme that is attached as part of **Annexure A3**

B. Capital Investment Plan for FY 2025-26

4. CSLDC has only submitted the clause of the Regulations under which each Capex Scheme is being proposed. However, CSLDC should submit the following information for each proposed Scheme:
- a. Details of each Capex Scheme clearly stating what exactly is being procured/installed, number of items, etc., as CSLDC has only given the name of the Scheme, viz., Office furniture, UPS and Printers, Upgradation/Replacement of SCADA System, etc.

Reply:- CSLDC would like to submit the detailed CAPEX particulars, including itemized costs and a cost-benefit analysis for the Commission's review as per **Annexure A3**. This annexure offers a comprehensive breakdown to facilitate the Commission's understanding of the capital expenditures.

- b. Justification/need for the Capex scheme

Reply:- CSLDC would like to submit the detailed CAPEX particulars, including itemized costs, justification and a cost-benefit analysis for the Commission's review as per **Annexure A3**. This annexure offers a comprehensive breakdown to facilitate the Commission's understanding of the capital expenditures.

- c. Detailed costing for each Capex Scheme in terms of per unit rate considered, and basis for the same

Reply:- CSLDC would like to submit the detailed CAPEX particulars, including itemized costs and a cost-benefit analysis for the Commission's review as per **Annexure A3**. This annexure offers a comprehensive breakdown to facilitate the Commission's understanding of the capital expenditures. Pricing for these particular items are estimated based on prevailing market rates, discovered through either SOR rates, past tendering or quotations etc.

- d. Explanation how the desired objective is being achieved at present, in the absence of the proposed Capex

Reply: - CSLDC would like to submit that, in the absence of the proposed CAPEX, the department is facing operational difficulties impacting efficiency and reliability. Critical software, such as the SCADA system, expired in October 2023, posing a significant operational risk. This CAPEX is essential for the betterment and upgradation of necessary infrastructure, including outdated equipment and furniture, some of which dates back to 2010. These upgrades are crucial to maintain operational effectiveness and ensure reliable service delivery.

- e. Cost Benefit Analysis for each proposed Scheme

Reply: - CSLDC would like to submit the detailed CAPEX particulars, including itemized costs and a cost-benefit analysis for the Commission's review as per **Annexure A3**. This annexure offers a comprehensive breakdown to facilitate the Commission's understanding of the capital expenditures



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f. Payback period for the capital investment

Reply: - CSLDC would like to submit the detailed CAPEX particulars, including itemized costs and a cost-benefit analysis for the Commission's review as per **Annexure A3**. It is humbly submitted that the benefits in most of the items are qualitative and intangible hence no payback period is possible to be calculated.

g. Copy of approval of Board/competent Authority and Statutory approvals for each Scheme

Reply: - Budgetary approval has been granted by the competent authority. Copy of the resolution passed has been provided under **Annexure – B4(g)**. that is a copy of Resolution Passed by the Board of Directors of Chhattisgarh State Power Transmission Company Limited at its 11th Meeting held on Friday, 29th November, 2024 at 4:00 pm at Vidyut Bhawan, Danganiya, Raipur (C.G.). with the agenda for approval towards submission of proposal before Honourable Chhattisgarh State Electricity Regulatory Commission for approval of Capital Investment Plan for the control period FY 2025-2026 in respect of CSLDC.

h. Basis for cost estimation for each Scheme

Reply: - CSLDC would like to submit the detailed CAPEX particulars, including itemized costs and a cost-benefit analysis for the Commission's review as per **Annexure A3**. This annexure offers a comprehensive breakdown to facilitate the Commission's understanding of the capital expenditures. Pricing for these particular items are estimated based on prevailing market rates, discovered through either SOR rates, past tendering or quotations etc. Budgetary approval has been granted by the competent authority.

5. The Commission in the Capital Investment Plan (CIP) Order dated 27.04.2022 has approved scheme-wise Capital Investment Plan for MYT Control Period from FY 2022-23 to FY 2024-25. In this regard, CSLDC should submit the following details:

a. Cost-benefit analysis for capitalised works;

Reply: - CSLDC would like to submit the detailed CAPEX particulars, including itemized costs and a cost-benefit analysis for the Commission's review as per **Annexure A3**. This annexure offers a comprehensive breakdown to facilitate the Commission's understanding of the capital expenditures.

b. Percentage completion of each approved Scheme, in terms of physical completion and financial completion, at the end of FY 2023-24 and projected at the end of FY 2024-25.

Reply: CSLDC submits the detailed CAPEX progress and completion status for each item, including itemized costs, as per **Annexure B5(b)**.


Chief Engineer (LD)
C.S.Power Trans.Co.Ltd.
Raipur

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c. Reasons for delay in execution of the project in comparison with approved timelines.

Reply: CSLDC submits **Annexure B5(b)** which includes the details of the CAPEX progress, completion status, and reasons for any delays for each approved scheme, along with itemized costs, presented in a tabulated format.

6. CSLDC should submit Scheme-wise Capitalisation schedule for FY 2025-26. Further, CSLDC should submit the break-up of IDC as per the Capitalisation schedule.

Reply: - CSLDC would like to submit that the detailed break-up of IDC will be provided during the actual true-up exercise. The scheme-wise capitalisation schedule for FY 2025-26 has been planned and will be implemented as per the timelines outlined in the CIP.

7. As regards SCADA System, CSLDC should submit

a. details of Capex done against SCADA System from FY 2022-23 to FY 2024-25,

Reply:- CSLDC would like to submit that no Capex have been done against SCADA System from 2022-23 to FY 2024-25

b. Clarify whether CSLDC is proposing Upgradation or Replacement of the SCADA System

Reply:- CSLDC would like to submit that the replacement of the current SCADA system is necessary due to the obsolescence of its software and the outdated nature of its underlying technology. The existing system no longer meets modern operational requirements, poses compatibility challenges, and lacks the necessary support for updates and maintenance. Upgrading to a new system will ensure reliability, enhanced functionality, and alignment with current industry standards, enabling improved operational efficiency and future scalability.

c. Justify the additional Capex proposed against SCADA System.

Reply:- CSLDC would like to submit that the earlier CAPEX proposal was based on the rates of the SCADA system procured in 2012 by POWERGRID under the ULDC scheme. However, since 2012, there has been a significant escalation in the cost of hardware and software, driven by both the rise in the dollar exchange rate and advancements in technology. The additional CAPEX requirement is substantiated by a budgetary offer obtained by GRID-INDIA from M/s SIEMENS for Chhattisgarh SLDC, which reflects the current market conditions. The budgetary offer is placed on file for reference as **Annexure B7(c)**.

8. As regards SAMAST Project, CSLDC should clarify

a. Status of SAMAST project

Reply:- The Notice Inviting Tender (NIT) for the SAMAST project has been issued on 08/01/2025. A copy of the NIT is attached as **Annexure B8(a)**

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b. bifurcation of cost of SAMAST project in Software and Hardware component.

Reply:- The estimated cost of the SAMAST project has been bifurcated into the following components:

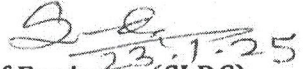
- Hardware Component: Rs. 11.24 Crore
- Software Component: ₹2.90 Crore

c. Whether the Scheme is being funded by Power System Development Fund (PSDF) or own funds of CSLDC.

Reply:- The SAMAST project is being funded by the Power System Development Fund (PSDF). As per MoP, GoI Notification No. 10/01/2014-OM dated 25/08/2022, a PSDF grant of ₹13.14 Crores (90% of the approved cost) has been sanctioned against the total estimated cost of ₹14.60 Crores, as approved by PSDF.

9. CSLDC should submit the details of the schemes that are funded by grant from PSDF.

Reply:- CSLDC would like to submit that the SAMAST project is the only project funded under the Power System Development Fund (PSDF) as elaborated in the response of query B8 (c).


23.1.25
Chief Engineer (SLDC)
C.S. Power Trans. Co. Ltd.
Raipur

Enclosed:- As Above


Chief Engineer (LD)
C.S. Power Trans. Co. Ltd.
Raipur

List of Annexures

Annexure A2

Copy of the revised petition

Annexure A3

Cost Benefit Analysis of Schemes in CIP of 25-26

Annexure B4(g)

Certified True Copy of the Resolution Passed by the Board of Directors of Chhattisgarh State Power Transmission Company Limited at its 11th Meeting held on Friday, 29th November, 2024 at 4:00 pm at Vidyut Bhawan, Danganiya, Raipur (C.G.) with the agenda for approval towards submission of proposal before Honourable Chhattisgarh State Electricity Regulatory Commission for approval of Capital Investment Plan for the control period FY 2025-2026 in respect of CSLDC.

Annexure B5(b)

Percentage Completion and Reasons for delay in execution of the project under Capital Investment Plan of CSLDC

Annexure B7(c)

Budgetary offer for SCADA (to attach)

Annexure B8(a)

The Notice Inviting Tender (NIT) for the SAMAST project issued on 08/01/2025


Chief Engineer (LD)
C.S. Power Trans. Co. Ltd.
Raipur

CIP Petition for 5th MYT Control Period

[C.S.L.D.C.]

**Capital Investment Plan for Financial Year
2025-26
(FY 26)**

Submitted to
Chhattisgarh State Electricity Regulatory Commission

November - 2024

(A Government of Chhattisgarh Undertaking)
Regd. Office- CSLDC Building, Dangania, Raipur - 492 013
Tel. 0771-2574172, Fax. 0771-2574174, E-mail-office@sldccg.com, ra.csldc@sldccg.com

(8)

CIP Petition for 5th MYT Control Period

To,

The Secretary,
Chhattisgarh State Electricity Regulatory Commission,
Irrigation Colony, Shanti Nagar,
Raipur, Chhattisgarh - 492 001

Dear Sir,

Sub: **Submission of Petition for the approval of Capital Investment Plan for FY- 2026**

The Hon'ble Chhattisgarh State Electricity Regulatory Commission vide order dated 24.10.2024 has instructed as under :-

" The Commission is of the view that the licenses and generating companies may file the tariff petition for FY 2025-26 in accordance to the provisions of the Act and broadly following the principles specified in prevailing Chhattisgarh State Electricity Regulatory Commission (Terms and Conditions for determination of tariff according to Multi-Year Tariff principles and Methodology and Procedure for determination of Expected revenue from Tariff and Charges) Regulations, 2021 by 30th November 2024 along with the true-up petition for FY 2023-24 in accordance to the applicable Regulations and the tariff order".

In exercise of its powers conferred under section 61 of the Electricity Act, 2003, the Hon'ble Commission has issued the CSERC (Terms and Conditions for determination of tariff according to Multi-Year Tariff principles and Methodology and Procedure for determination of Expected revenue from Tariff and Charges) Regulations, 2021.

Accordingly with the provisions mentioned in the above Regulations, CSLDC is here submitting Petition for approval of Capital Investment Plan for FY 26 for consideration of the Hon'ble Commission. We enclose herewith the following documents for your perusal and approval of the Hon'ble Commission:

1. Formal Petition, Formats and Affidavit verifying the petition along with authorization.
2. Petition for approval of Capital Investment Plan for FY 26 in six copies
3. Petition Fee for Rs 20000, vide Cheque dated 24.10.2024 of State Bank of India.

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

Yours Faithfully,


For Chhattisgarh State Load Despatch Centre, Raipur
(Authorized Signatory)
Executive Director (CSLDC)
Enclosed: As above

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Chief Engineer (LD)
C.S.Power Trans.Co.Ltd.
Raipur

CIP Petition for 5th MYT Control Period

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Chief Engineer (LD)
C.S.Power Trans.Co.Ltd.
Raipur

CIP Petition for 5th MYT Control Period

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

Filing No. _____

Case No. _____

IN THE MATTER OF:

Filing of the petition for approval of CSPTCL's Capital Investment Plan for (FY 26) under Section 62 and 64 of the Electricity Act, 2003

AND

IN THE MATTER OF:

Chhattisgarh State Load Despatch Centre (hereinafter referred as "**CSLDC**" or "**the Petitioner**" or Applicant)

The Applicant respectfully submits as under: -

1. The Hon'ble Chhattisgarh State Electricity Regulatory Commission vide order dated 24.10.2024 has instructed as under

"The Commission is of the view that the licenses and generating companies may file the tariff petition for FY 2025-26 in accordance to the provisions of the Act and broadly following the principles specified in prevailing Chhattisgarh State Electricity Regulatory Commission (Terms and Conditions for determination of tariff according to Multi-Year Tariff principles and Methodology and Procedure for determination of Expected revenue from Tariff and Charges) Regulations, 2021 by 30th November 2024 along with the true-up petition for FY 2023-24 in accordance to the applicable Regulations and the tariff order".
2. The Electricity Act, 2003 requires the state government to establish a State Load Dispatch Center (SLDC). In the state of Chhattisgarh, the State Load Dispatch Centre (SLDC) situated at Danganiya, Raipur has been designated as the State Load Dispatch Centre and presently "Chhattisgarh State Load Dispatch Centre" or "CSLDC" means the center established the proviso of sub section (2) of section 31 of the Act i.e. working under administrative control of CSPTCL. CSLDC started functioning since 1st Dec 2000 from 400 kV substations, Khedamara, Bhilai-24. CSLDC setup is now fully functional from Raipur w.e.f. 03rd Jan 2012.
3. The Petitioner submits that the Hon'ble Commission has issued the CSERC (Terms and Conditions for determination of tariff according to Multi-Year Tariff principles and Methodology and Procedure for determination of Expected revenue from Tariff and Charges) Regulations, 2021 (Hereinafter referred to as "MYT Regulations 2021"); in exercise of powers conferred on it by Section 61 read with Section 181(2) of the Electricity Act 2003 (No. 36 of 2003) and to enable determination of Capital Investment as per provisions 7 of the said regulations. The said regulations shall be applicable to Generating Stations, Transmission system, SLDC and Distribution system where tariff for generation, transmission or wheeling is not determined under section 63 of the Electricity Act 2003 through transparent process of competitive bidding in accordance with the guidelines issued by the Central Government.
4. The Petitioner accordingly submits that in line with the above provisions of the MYT


Chief Engineer (LD)
C.S. Power Trans. Co. Ltd.
Raipur

CIP Petition for 5th MYT Control Period

Regulations 2021 hereby is filing the Petition for Approval of Capital Investment Plan for the FY 26

5. PRAYER TO THE HON'BLE COMMISSION

- a. To invoke the power conferred to it under Section 181 of the Electricity Act, 2003, to be read with Section 7 of the MYT Regulation 2021 and to admit the petition seeking approval of Capital Investment Plan for the FY 26.
- b. To pass any other order as the Hon'ble Commission may deem fit and appropriate under the circumstances of the case and in the interest of justice.
- c. To condone any error/ omission and to give opportunity to rectify the same.
- d. The filing is being done based on the best available information and incase of any change, the Petitioner may be permitted to make further submissions, addition and alteration to this Petition as may be necessary from time to time.

Date:


Petitioner
Executive Director, CSLDC
CSPTCL, Raipur

NOTES AND ABBREVIATIONS

In this Petition:

- ✓ *Financial Year 2025-26 herein referred to as FY 2025-26 & FY 26*
- ✓ *Ensuing Year is defined as Financial Year FY 2025-26 or FY 26*
- ✓ *Current Year is defined as Financial Year 2024-25 or FY 25*
- ✓ *Previous Year is defined as Financial Year 2023-24 or FY 24*
- ✓ *All currency figures used in this Petition, unless specifically stated otherwise, are in Rs. Crores.*

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

(15)

CIP Petition for 5th MYT Control Period

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


Chief Engineer (LD)
C.S.Power Trans.Co.Ltd.
Raipur

1: BACKGROUND

1.1 Chhattisgarh State Electricity Board (CSEB) was a part of the erstwhile Madhya Pradesh State Electricity Board (MPSEB) till 2000. It became a separate entity with the formation of the State of Chhattisgarh. The board functioned as unified entity till December 2008 when the State Government notified a transfer scheme for unbundling it. The transfer scheme resulted in the formation of five successor entities for undertaking the functions of the erstwhile board.

1. Chhattisgarh State Power Holding Company Limited (CSPHCL)
2. Chhattisgarh State Power Generation Company Limited (CSPGCL)
3. Chhattisgarh State Power Transmission Company Limited (CSPTCL)
4. Chhattisgarh State Power Distribution Company Limited (CSPDCL)
5. Chhattisgarh State Power Trading Company Limited (CSPTdCL)

1.2 The functions of generation, transmission, distribution and trading have been allocated to the respective successor entities. All these companies have been envisaged as the wholly owned subsidiaries of Chhattisgarh State Power Holding Company Limited and in operation since 1st Jan 2009.

1.3 The Electricity Act, 2003 requires the state government to establish a State Load Dispatch Centre (SLDC). In the state of Chhattisgarh, the Load Dispatch Centre (LDC) situated at Daganiya, Raipur has been designated as the State Load Dispatch Centre and presently "Chhattisgarh State Load Dispatch Centre" or "CSLDC" means the centre established under sub-section (1) of section 31 i.e. working under administrative control of CSPTCL. CSLDC started functioning since 1st Dec 2000 from 400 KV substations, Khedamara, Bhilai-24. The CSLDC setup is now fully functional from Raipur w.e.f. 03rd Jan 2012.

1.4 The Chhattisgarh State Load Dispatch Centre is the apex body to ensure integrated operation of the power system in a State. The State Load Dispatch Centre performs the following functions:

- Ensure optimum scheduling and dispatch of electricity within a State, in accordance with the contracts entered into with the licensees or the generating companies operating in that State;
- Monitor grid operations;
- Keep accounts of the quantity of electricity transmitted through the state grid;


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- Exercise supervision and control over the intra-state transmission system; and
- Responsible for carrying out real time operations for grid control and dispatch of electricity within the State through secure and economic operation of the State grid in accordance with the Grid Standards and the State Grid Code.

1.5 To increase private sector participation and provide more certainty to the utilities regarding tariff, most State Electricity Regulatory Commission including Chhattisgarh State Electricity Regulatory Commission (CSERC) have moved from an annual tariff framework to a multi-year tariff regime, with an aim to bring about clarity on regulatory principles, reduce regulatory risks and incentivize efficient operations from utilities. The multi-year tariff framework provides greater regulatory certainty by providing utilities a longer period to plan, forecast and implement their efficiency improvement plan. CSERC has introduced multi-year tariff framework in its MYT Regulations 2010, wherein the control period was set as FY 11, FY 12 and FY 13. Further CSERC has notified MYT Regulations 2012, wherein the second control period was set from FY 14 to FY 16 and later CSERC has notified MYT Regulations 2015, wherein the third control period was set from FY 17 to FY 21. The CSERC has introduced Terms and Conditions for determination of tariff according to Multi-Year Tariff principles and Methodology and Procedure for determination of Expected revenue from Tariff and charges Regulations, 2021 (hereinafter referred to as CSERC MYT Regulations, 2021) applicable for the new control period from FY 26 to FY 30. As part of tariff filing process, the utilities need to submit their detailed Capital Investment Plan and Annual Revenue Requirement (ARR) for the control period as per CSERC MYT Regulations, 2021.

The Hon'ble Chhattisgarh State Electricity Regulatory Commission vide order dated 24.10.2024 has instructed as under

"The Commission is of the view that the licenses and generating companies may file the tariff petition for FY 2025-26 in accordance to the provisions of the Act and broadly following the principles specified in prevailing Chhattisgarh State Electricity Regulatory Commission (Terms and Conditions for determination of tariff according to Multi-Year Tariff principles and Methodology and Procedure for determination of Expected revenue from Tariff and Charges) Regulations, 2021 by 30th November 2024 along with the true-up petition for FY 2023-24 in accordance to the applicable Regulations and the tariff order".

1.6 According to Clause 7.1 of CSERC MYT Regulations, 2021

"The Generating Company, STU/ Transmission Licensee, SLDC and Distribution


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Licensee shall file for approval of the Commission a capital investment plan by 31st October 2021. The capital investment plan should cover the entire Control Period, with separate details for each year of the Control Period."

- 1.7 Accordingly, CSLDC is submitting proposal of capital works to be carried out during the next control period under Capital Investment Plan FY 26 for kind consideration and approval of the Hon'ble Commission.

Hon'ble Commission vide order dated 27.04.22 in petition no 06 of 2022 (M) has approved the following Expenditures on various schemes for 4th MYT Control period. Hon'ble Commission vide Order dated 27.04.22 in Petition No. 06 of 2022 (M) has approved the following expenditures on various schemes for 4rd MYT Control Period

Table 1: Approved Capital Investment Plan (Rs. Crore) for 4th MYT.

Sl. No.	Particulars	FY 2022-23	FY 2023-24	FY 2024-25	Total
Spilled-Over Work					
1	Installation of Weather sensors at 10 S/s in CG	0.40	0.35	-	0.75
2	Implementation of ADMS Project in the State (90% funded by PSDF)	0.575	0.575	-	1.15
3	Procurement of Office Furniture for CSLDC	0.05	-	-	0.05
4	Installation of Indoor Security Camera, Projectors and Scanner	0.05	0.50	-	0.55
5	Procurement of UPS and Printers	0.05	0.05		0.10
6	Up-gradation of MEA System	1.00	1.00		2.00
7	Surveillance Monitoring System for Back-up SLDC	-	0.06	-	0.06
New Projects/Works for the Control Period					
8	Replacement of Test RTU	0.10	-	-	0.10
9	Procurement of Web Servers, Firewall and Storage for Backup SLDC	0.50	-	-	0.50
10	Implementation of Cyber Security (ADDS, NMS, CAV)	0.50	-	-	0.50


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11	Upgradation/ Replacement of SCADA System	-	5.00	6.00	11.00
12	Replacement of Conference Room Video & Audio-Conferencing System (Main SLDC)	0.75	-	-	0.75
13	Replacement of DG Set of SLDC (120 kVA)	0.25	-	-	0.25
14	Replacement of Battery 48 VDC Battery Set at Main & Backup SLDC	0.16	-	-	0.16
15	Replacement of Web servers, Networking, Storage and Firewalls at Main SLDC	0.75	-	-	0.75
16	Replacement of Outdoor CCTV System of Main SLDC Raipur	-	0.20	-	0.20
17	Implementation of SAMAST Project (C) (Rs. 10 Cr. Benchmark approval from PSDF)	-	4.76	4.76	9.52
18	Procurement and up-gradation of 37 nos. of PCs for office use	0.31	-	-	0.31
19	Procurement of Air Conditioners at Main & Backup SLDC	0.10	-	-	0.10
20	Upgradation of fire hydrant system at main SLDC & backup SLDC	0.25	-	-	0.25
21	Procurement of Refrigerator and Oven for Conference room of CSLDC Building	0.02	-	-	0.02
Total		5.82	12.50	10.76	29.07


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2: CAPITAL INVESTMENT PLAN

2.1 In the Capital Investment Plan prepared for the control period FY 2026, CSLDC has chalked out a detailed investment schedule. Different schemes have been identified to carry out the overall investment in during the control period. Most of these schemes are long term in nature and would be funded by the Equity, PSDF & SLDC DF. A summary of the key schemes is provided below: -

Table 2: Capital Investment Plan for the Control Period FY 26 (Rs. Crores)

S. No.	Particulars	FY 2025-26 (Proposed)	Totals	STATUS of WORK FROM PREVIOUS CONTROL PERIOD FY 2022-23 to FY 2024-25
1	Installation of Weather sensors at 10 S/s in CG	0.75	0.75	(SPILL OVER WORK)
2	Procurement of Office Furniture for CSLDC	0.1	0.1	(SPILL OVER WORK)
3	Installation of Indoor security camera, projectors and scanner	0.485	0.485	(SPILL OVER WORK)
4	Procurement of UPS and Printers	0.1	0.1	(SPILL OVER WORK)
5	Upgradation of MEA system	2	2	(SPILL OVER WORK)
6	Surveillance monitoring system for Backup SLDC	0.06	0.06	(SPILL OVER WORK)
7	Replacement of Test RTU	0.1	0.1	(SPILL OVER WORK)
8	Upgradation/Replacement of SCADA system	11	11	(SPILL OVER WORK)
9	Replacement of conference room video and audio- conferencing system (Main SLDC)	0.75	0.75	(SPILL OVER WORK)
10	Replacement of Battery 48 VDC Battery 128 Set at Main & Backup SLDC	0.09	0.09	(SPILL OVER WORK)
11	Replacement of Web servers, Networking, Storage and Firewalls at Main SLDC	0.75	0.75	(SPILL OVER WORK)
12	Replacement of Outdoor CCTV System of Main SLDC Raipur	0.2	0.2	(SPILL OVER WORK)
13	Implementation of SAMAST Project (C) (Rs. 10 Cr. Benchmark approval from PSDF)	9.52	9.52	(SPILL OVER WORK)
14	Procurement and up-gradation of 37 nos. of PCs for office use	0.1	0.1	(SPILL OVER WORK)
15	Procurement of Air Conditioners at Main & Backup SLDC	0.05	0.05	(SPILL OVER WORK)

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S. No.	Particulars	FY 2025-26 (Proposed)	Totals	STATUS of WORK FROM PREVIOUS CONTROL PERIOD FY 2022-23 to FY 2024-25
16	Upgradation of fire hydrant system at main SLDC & backup SLDC	0.25	0.25	(SPILL OVER WORK)
17	Procurement of Refrigerator and Oven for Conference room of CSLDC Building	0.02	0.02	(SPILL OVER WORK)
18	Upgradation/ Replacement of SCADA system	76.3	76.3	New Proposed work
19	Microsoft office License	0.56	0.56	New Proposed work
20	175 Ton Air Cooled Screw Chiller at SLDC, Building, Raipur	1.05	1.05	New Proposed work
21	Security Operation Centre and Network operation control	1	1	New Proposed work
22	Productivity Tools for Demand Estimation with H/w & S/W	0.2	0.2	New Proposed work
23	Procurement for Supply, Installation and Commissioning of 480V 165AH VRLA Battery Bank(Consists of 240 cells) at Main and Backup SLDC	0.39	0.39	New Proposed work
24	Voice recording system	0.24	0.24	New Proposed work
25	Procurement of WAF, NLV, Anti DDoS	2.4	2.4	New Proposed work
26	Upgradation/replacement of SLDC Building LAN cables and switches.	0.2	0.2	New Proposed work
27	Implementation of cyber security (Capital ADDS, NMS, CAV etc) at Back up SLDC	1	1	New Proposed work
28	Implementation of Network operation Control (NOC) at SLDC Raipur	1	1	New Proposed work
29	Implementation of Data Diode for IT and OT segregation at SLDC Raipur	2	2	New Proposed work
30	Implementation of cyber security (Capital ADDS, NMS, CAV etc) at SLDC Main Raipur	1	1	New Proposed work
	Total	113.66	113.66	


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3: JUSTIFICATION OF SCHEMES

Now we would explain the following for each scheme in detail which would highlight scheme objective, target for the and FY 2025-26 funding as below:-

1) Installation of Weather Sensors

Scheme Objective

As per the provision 5.3 of the CSERC (Chhattisgarh State Electricity Grid Code) Regulations, 2011 demand forecasting activity is in the domain of SLDC.

"5.3 Demand Estimation for Operational Purposes:

SLDC shall carry out demand estimation from the historical data and weather forecast data from time to time. Distribution licensees and other concerned persons shall provide relevant data and other information as required by SLDC for demand estimate.

And as the generations from various generating source like Solar, Renewable Energy etc. are to be accommodated, it shall become unforeseeable to have accurate demand estimation. Nationwide work is going on in collaborative efforts with IMD and other departments for accurate demand forecasting in 96 blocks of a day for better grid control. As such system for Weather Sensing & forecasting System for Demand forecasting are to be installed at various locations of Chhattisgarh working in synch with SLDC."

Target for Control Period for FY 2025-26

Table 3: Financing Arrangement (Rs. Crores)

S. No.	Particulars	FY 2025-26	Totals
1	Installation of Weather sensors at 10 S/s in CG	0.75	0.75

2) Procurement of Office Furniture for SLDC

Scheme Objective

As per the provision 3.70 of CSERC MYT Regulations, 2021:-

"3.70 "Scheme" means the facilities and equipments associated with and installed at generating station/ transmission system / distribution system (s) / the SLDC and also includes but not limited to the following, namely:-

- computer systems, hardware and software,*
- auxiliary power supply system comprising Uninterrupted Power Supply, Diesel Generating Set(s) and DC power system,*


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- c. general telephone, fax and other off line communicationsystem,
- d. other infrastructure facilities, such as air-conditioning, fire-fighting and construction and renovation of buildings,
- e. any innovative schemes R & D projects and pilot projects for better system operation, such as Synchrophasors, System Protection Scheme,
- f. Back-up control centers for SLDC,
- g. Surveillance Camera System, and
- h. Cyber Security System;"

Target for Control Period for FY 2025-26

Table 4: Financing Arrangement for Procurement of Office Furniture for SLDC (Rs. Crores)

S. No.	Particulars	FY 2025-26	Totals
1	Procurement of Office Furniture for SLDC	0.1	0.1

3) Installation of Indoor Security Camera projectors and Scanner

Scheme Objective

As per the provision 3.70 of CSERC MYT Regulations, 2021:-

"3.70 "Scheme" means the facilities and equipments associated with and installed at generating station/ transmission system / distribution system (s) / the SLDC and also includes but not limited to the following, namely:-

- a. computer systems, hardware and software,
- b. auxiliary power supply system comprising Uninterrupted Power Supply, Diesel Generating Set(s) and DC power system,
- c. general telephone, fax and other off line communicationsystem,
- d. other infrastructure facilities, such as air-conditioning, fire-fighting and construction and renovation of buildings,
- e. any innovative schemes R & D projects and pilot projects for better system operation, such as Synchrophasors, System Protection Scheme,
- f. Back-up control centers for SLDC,
- g. Surveillance Camera System, and
- h. Cyber Security System;"

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Target for Control Period for FY 2025-26

Table 5: Financing Arrangement (Rs. Crores)

S. No.	Particulars	FY 2025-26	Totals
1	Installation of Indoor security Camera projectors and Scanner	0.485	0.485

4) Procurement of UPS and Printers

Scheme Objective

As per the provision 3.70 of CSERC MYT Regulations, 2021:-

*"3.70 **"Scheme"** means the facilities and equipments associated with and installed at generating station/ transmission system / distribution system (s) / the SLDC and also includes but not limited to the following, namely:-*

- computer systems, hardware and software,*
- auxiliary power supply system comprising Uninterrupted Power Supply, Diesel Generating Set(s) and DC power system,*
- general telephone, fax and other off line communications system,*
- other infrastructure facilities, such as air-conditioning, fire-fighting and construction and renovation of buildings,*
- any innovative schemes R & D projects and pilot projects for better system operation, such as Synchrophasors, System Protection Scheme,*
- Back-up control centers for SLDC,*
- Surveillance Camera System, and*
- Cyber Security System;"*

Target for Control Period for FY 2025-26

Table 6: Financing Arrangement for Procurement of UPS and Printers (Rs. Crores)

S. No.	Particulars	FY 2025-26	Totals
1	Procurement of UPS and Printers	0.10	0.10

5) Up-gradation of MEA System

Scheme Objective

As per the EA, 2003 Regulation 32 (2)


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The State Load Dispatch Centre shall:

- (a) *be responsible for optimum scheduling and dispatch of electricity within a State, in accordance with the contracts entered into with the licensees or the generating companies operating in that State;*
- (b) *Monitor grid operations;*
- (c) *Keep accounts of the quantity of electricity transmitted through the State grid;*
- (d) *Exercise supervision and control over the intra-state transmission system; and*
- (e) *Be responsible for carrying out real time operations for grid control and dispatch of electricity within the State through secure and economic operation of the State grid in accordance with the Grid Standards and the State Grid Code.*

Target for Control Period for FY 2025-26

Table 7: Financing Arrangement for Up-gradation of MEA System (Rs. Crores)

S. No.	Particulars	FY 2025-26	Totals
1	Up-gradation of MEA System	2	2

6) Surveillance Monitoring System for Main & Back-up SLDC

Scheme Objective

As per the provision 3.70 of CSERC MYT Regulations, 2021:-

*"3.70 **"Scheme"** means the facilities and equipments associated with and installed at generating station/ transmission system / distribution system (s) / the SLDC and also includes but not limited to the following, namely:-*

- a. *computer systems, hardware and software,*
- b. *auxiliary power supply system comprising Uninterrupted Power Supply, Diesel Generating Set(s) and DC power system,*
- c. *general telephone, fax and other off line communications system,*
- d. *other infrastructure facilities, such as air-conditioning, fire-fighting and construction and renovation of buildings,*
- e. *any innovative schemes R & D projects and pilot projects for better system operation, such as Synchrophasors, System Protection Scheme,*
- f. *Back-up control centers for SLDC,*
- g. *Surveillance Camera System, and*
- h. *Cyber Security System;"*


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Target for Control Period for FY 2025-26

Table 8: Financing Arrangement for Surveillance Monitoring System for Main & Back-up SLDC (Rs. Crores)

S. No.	Particulars	FY 2025-26	Totals
1	Surveillance Monitoring System for Main & Back-up SLDC	0.06	0.06

7) Replacement of Test RTU

Scheme Objective

As per the provision 3.70 of CSERC MYT Regulations, 2021:-

"3.70 "Scheme" means the facilities and equipments associated with and installed at generating station/ transmission system / distribution system (s) / the SLDC and also includes but not limited to the following, namely:-

- i. computer systems, hardware and software,
- j. auxiliary power supply system comprising Uninterrupted Power Supply, Diesel Generating Set(s) and DC power system,
- k. general telephone, fax and other off line communications system,
- l. other infrastructure facilities, such as air-conditioning, fire-fighting and construction and renovation of buildings,
- m. any innovative schemes R & D projects and pilot projects for better system operation, such as Synchrophasors, System Protection Scheme,
- n. Back-up control centers for SLDC,
- o. Surveillance Camera System, and
- p. Cyber Security System;"

Target for Control Period for FY 2025-26

Table 9: Financing Arrangement for Replacement of Test RTU (Rs. Crores)

S. No.	Particulars	FY 2025-26	Totals
1	Replacement of Test RTU	0.10	0.10

8) & 18) Upgradation/ Replacement of SCADA System

Scheme Objective


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As per the clause 6 (iii) of Central Electricity Regulatory Commission (Communication System for inter-state transmission of electricity) Regulations, 2017 :-

"6. NODAL AGENCY:

(i) The nodal agency for planning, and coordination for development of communication system for inter-State transmission system user shall be the Central Transmission Utility.

(ii) The nodal agency for planning, and coordination for development of communication system for intra - State transmission system user shall be the State Transmission Utility.

(iii) The nodal agency for ensuring integration of communication system at regional level with SCADA, WAMS, Video Conferencing Systems(VCS), Automatic Meter Reading(AMR), EPABX, Tele-protection system shall be respective RLDC for ISGS, ISTS and SLDCs; and respective SLDC for State Generating Stations, distribution companies, Intra-State entities, intra-State transmission system, etc"

Target for Control Period for FY 2025-26

Table 10: Financing Arrangement (Rs. Crores)

S.No.	Particulars	FY 2025-26	Totals
1	Upgradation/ Replacement of SCADA System	87.3	87.3

9) Replacement of Conference Room Video & Audio Conferencing System

Scheme Objective

As per the provision 3.70 of CSERC MYT Regulations, 2021:-

"3.70 **"Scheme"** means the facilities and equipments associated with and installed at generating station/ transmission system / distribution system (s) / the SLDC and also includes but not limited to the following, namely:-

- computer systems, hardware and software,
- auxiliary power supply system comprising Uninterrupted Power Supply, Diesel Generating Set(s) and DC power system,
- general telephone, fax and other off line communications system,
- other infrastructure facilities, such as air-conditioning, fire-fighting and construction and renovation of buildings,
- any innovative schemes R & D projects and pilot projects for better system operation, such as Synchrophasors, System Protection Scheme,
- Back-up control centers for SLDC,
- Surveillance Camera System, and
- Cyber Security System;"


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Target for Control Period for FY 2025-26**Table 11: Financing Arrangement for Replacement of Conference Room Video & Audio Conferencing System (Main SLDC) (Rs. Crores)**

S. No.	Particulars	FY 2025-26	Totals
1	Replacement of Conference Room Video & Audio Conferencing System (Main SLDC)	0.75	0.75

10) Replacement of Battery 48 VDC Battery Set at Main & Backup SLDC**Scheme Objective**

As per the provision 8 (11) of Central Electricity Authority (Technical Standards for Communication System in Power System Operations) Regulations, 2020:-

"8. Design and planning.

(1) Communication system shall be planned up to the interface points of the user and the respective control centre including the interfacing communication equipment at the respective location.

(2) Cellular and radio frequency based communication technology shall not be considered for control and protection functions.

(3) Communication system shall be designed as per communication planning criteria for development of reliable communication system for the power system.

(4) Central Transmission Utility or State Transmission Utility while planning shall consider design of the intervening communication system for seamless integration to have wideband network.

(5) User shall ensure centralised monitoring or management of its communication network and shall provide necessary facilities for configuration, identification of fault and generation of various reports on availability of the communication system.

(6) User shall be responsible for planning, design, implementation, secured operation and maintenance of its own communication infrastructure to be interfaced with the communication system.

(7) User, whose system is proposed to be interfaced with the communication system, shall furnish the requisite interface information to the appropriate control centre as specified by them.

(8) Communication equipment installed shall be interoperable, so as to allow seamless integration between different vendors.

(9) Every interfacing with the intervening communication system shall be covered by interface agreement between the parties sharing the communication which shall contain general and specific technical conditions supported by interfacing details and layout drawings for the interfacing.

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(10) Network equipment shall be synchronized through provision of global positioning system clock to achieve the desired functionality.

(11) Communication equipment for all the nodes shall be provided with at least ten hours battery backup and extended backup shall be provided depending upon the requirement.

(12) Supply voltage shall be 220/48V Direct Current +15%, 10%. (positive pole earthed).

(13) The minimum guaranteed life for all the wideband communication equipment shall be ten years"

Target for Control Period for FY 2025-26

Table 12: Financing Arrangement for Replacement of Battery 48 VDC Battery Set at Main & Backup SLDC (Rs. Crores)

S. No.	Particulars	FY 2025-26	Totals
1	Replacement of Battery 48 VDC Battery Set at Main & Backup SLDC with Battery Chargers	0.09	0.09

11) Replacement of Web servers, Networking, Storage and Firewalls at Main SLDC**Scheme Objective**

As per the provision 3.70 of CSERC MYT Regulations, 2021:-

"3.70 **"Scheme"** means the facilities and equipments associated with and installed at generating station/ transmission system / distribution system (s) / the SLDC and also includes but not limited to the following, namely:-

- computer systems, hardware and software,
- auxiliary power supply system comprising Uninterrupted Power Supply, Diesel Generating Set(s) and DC power system,
- general telephone, fax and other off line communications system,
- other infrastructure facilities, such as air-conditioning, fire-fighting and construction and renovation of buildings,
- any innovative schemes R & D projects and pilot projects for better system operation, such as Synchrophasors, System Protection Scheme,
- Back-up control centers for SLDC,
- Surveillance Camera System, and
- Cyber Security System;"


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Target for Control Period for FY 2025-26

Table 13: Financing Arrangement for Replacement of Web servers, Networking, Storage and Firewalls at Main SLDC (Rs. Crores)

S. No.	Particulars	FY 2025-26	Totals
1	Replacement of Web servers, Networking, Storage and Firewalls at Main SLDC	0.75	0.75

12) Replacement of CCTV System of SLDC

Scheme Objective

As per the provision 3.70 of CSERC MYT Regulations, 2021:-

"3.70 "Scheme" means the facilities and equipments associated with and installed at generating station/ transmission system / distribution system (s) / the SLDC and also includes but not limited to the following, namely:-

- computer systems, hardware and software,*
- auxiliary power supply system comprising Uninterrupted Power Supply, Diesel Generating Set(s) and DC power system,*
- general telephone, fax and other off line communications system,*
- other infrastructure facilities, such as air-conditioning, fire-fighting and construction and renovation of buildings,*
- any innovative schemes R & D projects and pilot projects for better system operation, such as Synchrophasors, System Protection Scheme,*
- Back-up control centers for SLDC,*
- Surveillance Camera System, and*
- Cyber Security System;"*

Target for Control Period for FY 2025-26

Table 14: Financing Arrangement for Replacement of CCTV System of SLDC Raipur (Rs. Crores)

S. No.	Particulars	FY 2025-26	Totals
1	Replacement of CCTV System of SLDC Raipur	0.20	0.20

13) Implementation of SAMAST Project

Scheme Objective

In order to further improve the national grid operating system and to facilitate the

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inter-State exchange of power flows, the Central Commission in its exercise of powers under Section 79 (2) of the Electricity Act advised the Central Government vide its letter dated 02 November 2015 to grant advisory to the States on the following issues:

- Execution of a detailed energy accounting of all Intra-State entities.
- Creation of Intra-State Deviation Mechanism pool at the State level.
- Implementation of Availability Based Tariff (ABT) for intra-State generators.
- Ring fencing and capacity building of State Load Dispatch Centres (SLDCs).
- Adopt Model Regulations on forecasting, scheduling and deviation settlement for solar and wind generators.
- Evolve Ancillary and Reserves Regulations at the State level in line with CERC orders on reserves and ancillary services.

Target for Control Period for FY 2025-26

Table 15: Financing Arrangement for Implementation of SAMAST Project (Rs. Crores)

S. No.	Particulars	FY 2025-26	Totals
1	Implementation of SAMAST Project	9.52	9.52

14) Procurement and up-gradation of 37 nos. of PCs for office use

Scheme Objective

As per the provision 3.70 of CSERC MYT Regulations, 2021:-

"3.70 "Scheme" means the facilities and equipments associated with and installed at generating station/ transmission system / distribution system (s) / the SLDC and also includes but not limited to the following, namely:-

- a. computer systems, hardware and software,
- b. auxiliary power supply system comprising Uninterrupted Power Supply, Diesel Generating Set(s) and DC power system,
- c. general telephone, fax and other off line communications system,
- d. other infrastructure facilities, such as air-conditioning, fire-fighting and construction and renovation of buildings,
- e. any innovative schemes R & D projects and pilot projects for

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- better system operation, such as Synchrophasors, System Protection Scheme,*
- f. Back-up control centers for SLDC,*
 - g. Surveillance Camera System, and*
 - h. Cyber Security System;"*

Target for Control Period for FY 2025-26

Table 16: Financing Arrangement for Procurement and up-gradation of 37 nos. of PCs for office use (Rs. Crores)

S. No.	Particulars	FY 2025-26	Totals
1	Procurement and up-gradation of 37 nos. of PCs for office use	0.1	0.1

15) Procurement of Air Conditioners at Main & Backup SLDC

Scheme Objective

As per the provision 3.70 of CSERC MYT Regulations, 2021:-

"3.70 "Scheme" means the facilities and equipments associated with and installed at generating station/ transmission system / distribution system (s) / the SLDC and also includes but not limited to the following, namely:-

- a. computer systems, hardware and software,*
- b. auxiliary power supply system comprising Uninterrupted Power Supply, Diesel Generating Set(s) and DC power system,*
- c. general telephone, fax and other off line communications system,*
- d. other infrastructure facilities, such as air-conditioning, fire-fighting and construction and renovation of buildings,*
- e. any innovative schemes R & D projects and pilot projects for better system operation, such as Synchrophasors, System Protection Scheme,*
- f. Back-up control centers for SLDC,*
- g. Surveillance Camera System, and*
- h. Cyber Security System;"*

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Raipur**

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Target for Control Period for FY 2025-26

Table 17: Financing Arrangement for Procurement of Air Conditioners at Main & Backup SLDC (Rs. Crores)

S. No.	Particulars	FY 2025-26	Totals
1	Procurement of Air Conditioners at Main & Backup SLDC	0.05	0.05

16) Upgradation of fire hydrant system at main SLDC & backup SLDC

Scheme Objective

As per the provision 3.70 of CSERC MYT Regulations, 2021:-

*"3.70 **"Scheme"** means the facilities and equipments associated with and installed at generating station/ transmission system / distribution system (s) / the SLDC and also includes but not limited to the following, namely:-*

- a. computer systems, hardware and software,*
- b. auxiliary power supply system comprising Uninterrupted Power Supply, Diesel Generating Set(s) and DC power system,*
- c. general telephone, fax and other off line communications system,*
- d. other infrastructure facilities, such as air-conditioning, fire-fighting and construction and renovation of buildings,*
- e. any innovative schemes R & D projects and pilot projects for better system operation, such as Synchrophasors, System Protection Scheme,*
- f. Back-up control centers for SLDC,*
- g. Surveillance Camera System, and*
- h. Cyber Security System;"*

Target for Control Period for FY 2025-26

Table 18: Financing Arrangement for Upgradation of fire hydrant system at main SLDC & backup SLDC (Rs. Crores)

S. No.	Particulars	FY 2025-26	Totals
1	Upgradation of fire hydrant system at main SLDC & backup SLDC	0.25	0.25

17) Procurement of Refrigerator & Oven for Conference room of SLDC Building

Scheme Objective


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C.S.Power Trans.Co
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As per the provision 3.70 of CSERC MYT Regulations, 2021:-

"3.70 Scheme" means the facilities and equipments associated with and installed at generating station/ transmission system / distribution system (s) / the SLDC and also includes but not limited to the following, namely:-

- a. computer systems, hardware and software,
- b. auxiliary power supply system comprising Uninterrupted Power Supply, Diesel Generating Set(s) and DC power system,
- c. general telephone, fax and other off line communication system,
- d. other infrastructure facilities, such as air-conditioning, fire-fighting and construction and renovation of buildings,
- e. any innovative schemes R & D projects and pilot projects for better system operation, such as Synchrophasors, System Protection Scheme,
- f. Back-up control centers for SLDC,
- g. Surveillance Camera System, and
- h. Cyber Security System;"

Target for Control Period for FY 2025-26

Table 19: Financing Arrangement for Procurement of Refrigerator & Oven for Conference room of SLDC Building (Rs. Crores)

S. No.	Particulars	FY 2025-26	Totals
1	Procurement of Refrigerator & Oven for Conference room of SLDC Building	0.02	0.02

19) Microsoft Office Licence

Scheme Objective

As per the provision 3.70 of CSERC MYT Regulations, 2021:-

"3.70 Scheme" means the facilities and equipments associated with and installed at generating station/ transmission system / distribution system (s) / the SLDC and also includes but not limited to the following, namely:-

- a. computer systems, hardware and software,
- b. auxiliary power supply system comprising Uninterrupted Power Supply, Diesel Generating Set(s) and DC power system,
- c. general telephone, fax and other off line communication system,
- d. other infrastructure facilities, such as air-conditioning, fire-

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- fighting and construction and renovation of buildings,
- e. any innovative schemes R & D projects and pilot projects for better system operation, such as Synchrophasors, System Protection Scheme,
- f. Back-up control centers for SLDC,
- g. Surveillance Camera System, and
- h. Cyber Security System;"

Target for Control Period for FY 2025-26

Table 20: Financing Arrangement for Microsoft Office Licence (Rs. Crores)

S. No.	Particulars	FY 2025-26	Totals
1	Microsoft Office Licence	0.56	0.56

20) 175 Ton Air Cooled Screw Chiller at SLDC Building Raipur

Scheme Objective

As per the provision 3.70 of CSERC MYT Regulations, 2021:-

"3.70 **"Scheme"** means the facilities and equipments associated with and installed at generating station/ transmission system / distribution system (s) / the SLDC and also includes but not limited to the following, namely:-

- a. computer systems, hardware and software,
- b. auxiliary power supply system comprising Uninterrupted Power Supply, Diesel Generating Set(s) and DC power system,
- c. general telephone, fax and other off line communications system,
- d. other infrastructure facilities, such as air-conditioning, fire-fighting and construction and renovation of buildings,
- e. any innovative schemes R & D projects and pilot projects for better system operation, such as Synchrophasors, System Protection Scheme,
- f. Back-up control centers for SLDC,
- g. Surveillance Camera System, and
- h. Cyber Security System;"

The building was originally designed for the industrial central AC system by the civil department. The Centralized Ac system is used for air conditioning the Control -room Server -room, Communication- room, video projection- room, Auxiliary power supply room etc. where costly equipments are installed, which have to be kept in air conditioned environment with ambient temperature of 23 degree C. Apart from the above, it is used for maintaining the required temperature of the SLDC building. The

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central Air Conditioning system of 160 T make -voltas was installed at SLDC in the year 2009, and after continuous service of 15 years it has rendered its useful life. The Air conditioning system are deteriorating due to aging moreover the auxiliary pumps are also not performing with their full efficiency because of motor repaired multiple times. Since The central Air Conditioning system is very essential as mentioned in the foregoing para it is proposed to replace the central Air Conditioning system with a new one with capacity of at least 175 T.

Target for Control Period for FY 2025-26

Table 21: Financing Arrangement for 175 Ton Air Cooled Screw Chiller at SLDC Building Raipur (Rs. Crores)

S. No.	Particulars	FY 2025-26	Totals
1	175 Ton Air Cooled Screw Chiller at SLDC Building Raipur	1.05	1.05

21) Security operations Centre and Network operation Control

Scheme Objective

As per the provision 3.70 of CSERC MYT Regulations, 2021:-

"3.70 "Scheme" means the facilities and equipments associated with and installed at generating station/ transmission system / distribution system (s) / the SLDC and also includes but not limited to the following, namely:-

- a. computer systems, hardware and software,
- b. auxiliary power supply system comprising Uninterrupted Power Supply, Diesel Generating Set(s) and DC power system,
- c. general telephone, fax and other off line communication system,
- d. other infrastructure facilities, such as air-conditioning, fire-fighting and construction and renovation of buildings,
- e. any innovative schemes R & D projects and pilot projects for better system operation, such as Synchrophasors, System Protection Scheme,
- f. Back-up control centers for SLDC,
- g. Surveillance Camera System, and
- h. Cyber Security System;"

Ministry of Electronics and Information Technology on dated 22-May-2018 notified Information Technology (Information Security Practices and Procedures for Protected System) Rules, 2018. In the rules it has been mentioned that organization having "Protected System" shall establish a Cyber Security Operation Centre (C-SOC) and Network Operation Centre (NOC). (CP-119-(j)). As per above rules, SLDC

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Chhattisgarh having "Protected System" is required to establish a Security Operation Centre (SOC) and Network Operation Centre (NOC).

Target for Control Period for FY 2025-26

Table 22: Financing Arrangement for Security operations Centre and Network operation Control (Rs. Crores)

S. No.	Particulars	FY 2025-26	Totals
1	Security operations Centre and Network operation Control	1	1

22) Productivity Tools for Demand Estimation with Demand Estimation with H/W and S/W

Scheme Objective

As per the section 31(2)(b), 31(2)(h) and 31(2)(i) of Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2023 :-

"(2) Demand Estimation

...

(b) Each SLDC shall develop methodology for daily, weekly, monthly, yearly demand estimation in MW and MWh for operational analysis as well as resource adequacy purposes. Each SLDC, while estimating demand may utilize state of the art tools, weather data, historical data and any other data. For this purpose, all distribution licensees shall maintain a historical database of demand.

...

(h) Timeline for submission of demand estimate data by SLDCs or other entities directly connected to ISTS, as applicable, to the respective RLDC and RPC shall be as follows:"

Daily demand estimation	10:00 hours of previous day
Weekly demand estimation	First working day of previous week
Monthly demand estimation	Fifth day of previous month
Yearly demand estimation	30 th September of the previous year


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(i) SLDCs, RLDCs and NLDC shall compute forecasting error for intra-day, day-ahead, weekly, monthly and yearly forecasts and analyse the same in order to reduce forecasting error in the future. The computed forecasting errors shall be made available by SLDCs, RLDCs and NLDC on their respective websites.

Target for Control Period for FY 2025-26

Table 23: Financing Arrangement for Productivity Tools for Demand Estimation with H/W & S/W (Rs. Crores)

S. No.	Particulars	FY 2025-26	Totals
1	Productivity Tools for Demand Estimation with H/W & S/W	0.2	0.2

23) Procurement for Supply, Installation and Commissioning of 480V 165AH VRLA Battery Bank (Consists of 240 cells) at Main and Backup SLDC

Scheme Objective

As per the provision 3.70 of CSERC MYT Regulations, 2021:-

"3.70 "Scheme" means the facilities and equipment associated with and installed at generating station/ transmission system / distribution system (s) / the SLDC and also includes but not limited to the following, namely:-

- computer systems, hardware and software,
- auxiliary power supply system comprising Uninterrupted Power Supply, Diesel Generating Set(s) and DC power system,
- general telephone, fax and other off line communication system,
- other infrastructure facilities, such as air-conditioning, fire-fighting and construction and renovation of buildings,
- any innovative schemes R & D projects and pilot projects for better system operation, such as Synchrophasors, System Protection Scheme,
- Back-up control centers for SLDC,
- Surveillance Camera System, and
- Cyber Security System;"

The 480V 165AH VRLA Battery Bank (Consists of 240 cells) at Main and Backup SLDC SCADA System was installed in the year 2016. The useful life of the batteries are already over. They are required to be replaced for smooth functioning of EMS/SCADA system


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Table 24: Financing Arrangement for Procurement for Supply, Installation and Commissioning if 480V 165AH VRLA Battery Bank (Consists of 240 cells) at Main and Backup SLDC(Rs. Crores)

S. No.	Particulars	FY 2025-26	Totals
1	Procurement for Supply, Installation and Commissioning if 480V 165AH VRLA Battery Bank(Consists of 240 cells) at Main and Backup SLDC	0.39	0.39

24) Procurement of Voice Recording System

Scheme Objective

As per the provision 3.70 of CSERC MYT Regulations, 2021:-

"3.70 "Scheme" means the facilities and equipment associated with and installed at generating station/ transmission system / distribution system (s) / the SLDC and also includes but not limited to the following, namely:-

- a. computer systems, hardware and software,
- b. auxiliary power supply system comprising Uninterrupted Power Supply, Diesel Generating Set(s) and DC power system,
- c. general telephone, fax and other off line communications system,
- d. other infrastructure facilities, such as air-conditioning, fire-fighting and construction and renovation of buildings,
- e. any innovative schemes R & D projects and pilot projects for better system operation, such as Synchrophasors, System Protection Scheme,
- f. Back-up control centers for SLDC,
- g. Surveillance Camera System, and
- h. Cyber Security System;"

Voice recorder is used to record the conversation of control room phones, The recording is useful for analysis purpose after any major event in power system.

2 No Call Loggers & Recorders were damaged due to heavy lightning and are beyond repair.

Target for Control Period for FY 2025-26

Table 25: Financing Arrangement for Procurement of Voice Recording System Rs. Crores)

S. No.	Particulars	FY 2025-26	Totals
1	Procurement of Voice Recording System	0.24	0.24

[Signature]
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25) Procurement of WAF, NLB, Anti DDoS

Scheme Objective

As per the EA, 2003 Regulation 32 (2)

The State Load Dispatch Centre shall:

- (a) *be responsible for optimum scheduling and dispatch of electricity within a State, in accordance with the contracts entered into with the licensees or the generating companies operating in that State;*
- (b) *Monitor grid operations;*
- (c) *Keep accounts of the quantity of electricity transmitted through the State grid;*
- (d) *Exercise supervision and control over the intra-state transmission system; and*
- (e) *Be responsible for carrying out real time operations for grid control and dispatch of electricity within the State through secure and economic operation of the State grid in accordance with the Grid Standards and the State Grid Code.*

In order to improve the cyber security posture of SLDC, Chhattisgarh, NCIIPC has recommended for the installation of Web Access Firewall (WAF), Network Load Balancer (NLB) and Anti DDoS devices.

Target for Control Period for FY 2025-26

Table 26: Financing Arrangement for Procurement of WAF, NLV, Anti DDoS (Rs. Crores)

S. No.	Particulars	FY 2025-26	Totals
1	Procurement of WAF, NLV, Anti DDoS	2.4	2.4

26) Upgradation/replacement of SLDC Building LAN cables and switches.

Scheme Objective

As per the provision 3.70 of CSERC MYT Regulations, 2021 :-

“3.70 “Scheme” means the facilities and equipment associated with and installed at generating station/ transmission system / distribution system (s) / the SLDC and also includes but not limited to the following, namely :-

- a. computer systems, hardware and software,
- b. auxiliary power supply system comprising Uninterrupted Power Supply, Diesel Generating Set(s) and DC power system,
- c. general telephone, fax and other off line communication system,
- d. other infrastructure facilities, such as air-conditioning, fire-fighting and construction and renovation of buildings,
- e. any innovative schemes R & D projects and pilot projects for better system operation, such as Synchrophasors, System Protection Scheme,

- f. Back-up control centers for SLDC,
- g. Surveillance Camera System, and
- h. Cyber Security System;"

The SLDC building was constructed in the year 2010. SLDC Building LAN cables were laid in the SLDC building during construction. These cables have become very old and causing data loss in the system. Hence replacement is required.

Target for Control Period for FY 2025-26

Table 27: Financing Arrangement for Upgradation/replacement of SLDC Building LAN cables and switches. (Rs. Crores)

S. No.	Particulars	FY 2025-26	Totals
1	Upgradation/replacement of SLDC Building LAN cables and switches.	0.2	0.2

27) Implementation of cyber security (Capital ADDS, NMS, CAV etc) at Back up SLDC

As per the EA, 2003 Regulation 32 (2)

The State Load Dispatch Centre shall:

- (a) *be responsible for optimum scheduling and dispatch of electricity within a State, in accordance with the contracts entered into with the licensees or the generating companies operating in that State;*
- (b) *Monitor grid operations;*
- (c) *Keep accounts of the quantity of electricity transmitted through the State grid;*
- (d) *Exercise supervision and control over the intra-state transmission system; and*
- (e) *Be responsible for carrying out real time operations for grid control and dispatch of electricity within the State through secure and economic operation of the State grid in accordance with the Grid Standards and the State Grid Code.*

Target for Control Period for FY 2025-26

Table 28: Financing Arrangement for Implementation of cyber security (Capital ADDS, NMS, CAV etc) at Back up SLDC (Rs. Crores)

S. No.	Particulars	FY 2025-26	Totals
1	Implementation of cyber security (Capital ADDS, NMS, CAV etc) at Back up SLDC	1.0	1.0


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The SLDC building was constructed in the year 2010. SLDC Building LAN cables were laid in the SLDC building during construction. These cables have become very old and causing data loss in the system. Hence replacement is required.

28) Implementation of Network Operation Control (NOC) at SLDC Raipur

As per the EA, 2003 Regulation 32 (2)

The State Load Dispatch Centre shall:

- (a) *be responsible for optimum scheduling and dispatch of electricity within a State, in accordance with the contracts entered into with the licensees or the generating companies operating in that State;*
- (b) *Monitor grid operations;*
- (c) *Keep accounts of the quantity of electricity transmitted through the State grid;*
- (d) *Exercise supervision and control over the intra-state transmission system; and*
- (e) *Be responsible for carrying out real time operations for grid control and dispatch of electricity within the State through secure and economic operation of the State grid in accordance with the Grid Standards and the State Grid Code.*

Ministry of Electronics and Information Technology on dated 22-May-2018 notified Information Technology (Information Security Practices and Procedures for Protected System) Rules, 2018. In the rules it has been mentioned that organization having "Protected System" shall establish a Cyber Security Operation Centre (C-SOC) and Network Operation Centre (NOC). (CP-119-(j)). As per above rules, SLDC Chhattisgarh having "Protected System" is required to establish a Security Operation Centre (SOC) and Network Operation Centre (NOC).

Target for Control Period for FY 2025-26

Table 29: Financing Arrangement for Implementation of Network Operation Control (NOC) at SLDC Raipur (Rs. Crores)

S. No.	Particulars	FY 2025-26	Totals
1	Implementation of Network Operation Control (NOC) at SLDC Raipur	1	1

29) Implementation of Data Diode for IT and OT segregation at SLDC Raipur

As per the EA, 2003 Regulation 32 (2)

The State Load Dispatch Centre shall:

- (a) *be responsible for optimum scheduling and dispatch of electricity within a State, in accordance with the contracts entered into with the licensees or the generating companies operating in that State;*
- (b) *Monitor grid operations;*


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- (c) Keep accounts of the quantity of electricity transmitted through the State grid;
- (d) Exercise supervision and control over the intra-state transmission system; and
- (e) Be responsible for carrying out real time operations for grid control and dispatch of electricity within the State through secure and economic operation of the State grid in accordance with the Grid Standards and the State Grid Code.

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Table 30: Financing Arrangement for Implementation of Data Diode for IT and OT segregation at SLDC Raipur

(Rs. Crores)

S. No.	Particulars	FY 2025-26	Totals
1	Implementation of Data Diode for IT and OT segregation at SLDC Raipur	2	2

30) Implementation of cyber security (Capital ADDS, NMS, CAV etc) at SLDC Main Raipur

Scheme Objective

2.2 As per the provision 3.70 of CSERC MYT Regulations, 2021:-

"3.70 "Scheme" means the facilities and equipment associated with and installed at generating station/ transmission system / distribution system (s) / the SLDC and also includes but not limited to the following, namely:-

- i. computer systems, hardware and software,
- j. auxiliary power supply system comprising Uninterrupted Power Supply, Diesel Generating Set(s) and DC power system,
- k. general telephone, fax and other off line communications system,
- l. other infrastructure facilities, such as air-conditioning, fire-fighting and construction and renovation of buildings,
- m. any innovative schemes R & D projects and pilot projects for better system operation, such as Synchrophasors, System Protection Scheme,
- n. Back-up control centers for SLDC,
- o. Surveillance Camera System, and
- p. Cyber Security System;"


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To improve the cyber security posture of Main SLDC, Raipur by implementation of various cyber security tools such as Network Security Tools, Vulnerability Scanners, Penetration Testing Tools, Identity and Access Management (IAM) Tools, Data Loss Prevention (DLP) Tools etc.

Target for Control Period for FY 2025-26

Table 31: Financing Arrangement Implementation of cyber security (Capital ADDS, NMS, CAV etc) at SLDC Main Raipur (Rs. Crores)

S. No.	Particulars	FY 2025-26	Totals
1	Implementation of cyber security (Capital ADDS, NMS, CAV etc) at SLDC Main Raipur	1	1

3: FUNDING OF CAPITAL WORKS

- 3.1 The above capital works shall be carried out by taking loan from financial institution and from internal resources with debt:equity ratio of 70:30. Some of the schemes are to partially funded by way of grant from PSDF. The amount to be received from grants are not considered in GFA. Accordingly the proposal for Capex is as follows:-

Table 32: Funding of the Capital Expenditure FY 26 (Rs. Crores)

S. No.	Particulars	FY 2025-26
1	Capital Investment Proposed	113.66
2	Debt(%)	79.56
3	Equity (%)	34.09


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S. No.	Particulars	FY 2025-26 (Proposed)	Totals	Justification for the Scheme. Scheme-wise CBA & Anticipated benefits	STATUS of WORK FROM PREVIOUS
1	Installation of Weather sensors at 10 S/s in CG	0.75	0.75	1. As per draft guidelines on "Communication Interface Requirement date 23/04/2020 by NLDC, POSOCO, weather parameters of different parts of the State are required for short-term demand forecasting on daily basis. This will help SLDC to perform scheduling activities more accurately. 2. Weather parameters such as Temperature, Wind speed, Humidity and Rainfall are required to be telemetered from various Substations and Generating stations. 3 A separate display will be prepared in-house by SLDC dedicated to weather parameters only. This will help in anticipating demand and allow SLDC to make Corrections 4. CBA: Installation of Weather sensors at 10 S/s in the State shall help in better forecasting of actual load, accordingly availability shall be ascertained with lesser under or excessive over drawal from CTU. This will commercially impact DSM charges implemented by CTU on State.	(SPILL OVER WORK)
2	Procurement of Office Furniture for CSLDC	0.1	0.1	1.While designing the control room and office standard for control centre ergonomics, i.e., ISO 11064 shall be considered, which elaborates all the aspect of it. Ergonomically designed office furniture/equipment is required for personnel working in shift duties for 24x7 at SLDC. 2.CBA: Furniture procured for CSLDC building in the year 2010 are in damaged condition due to wear and tear and are required to be replaced with new furniture instead of reairing.	(SPILL OVER WORK)

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3	Installation of Indoor security camera, projectors and scanner	0.485	0.485	1.Security Cameras improve surveillance capabilities used in the protection of people, assets, and systems. A CCTV system serves mainly as a security force multiplier, providing surveillance for a larger area, for more time than would be feasible with security personnel alone. CCTV system is a handy tool with security staff to keep visual vigil of the outdoor compound and indoor movement from a central monitoring centre. The tool is also used for post- mortem analysis of any incident/event. In SLDCs context, CCTV also provides the Load despatchers to remotely identify/verify the visitor at the entrance gate and authorize their entry into the premise at odd hours. 2.The projector installed in the year 2011 at conference room of SLDC has completed its fair life due to life of lens and its poor resolution. In CSLDC all the online conference conducted by WRLDC, CEA, NLDC, CTU, etc., is attended through projector display. 3.Procurement process of 37 Nos. PC for SLDC as discussed above includes only desktop with CPU. For Up- keeping of officially signed documents as digital record, scanners are required at control rooms as well as in the office. 4.CBA: In view of above, installation of security camera. 1.Procurement process of 37 Nos. PCs for SLDC as discussed above includes only desktop with CPU. No UPS and Printer is incorporated. 2.CBA: For smooth functioning, each PC must have independent UPS and Printer. 1. The existing IT infrastructure (hardware and software) under MEA System for "ABT Based UI/DSM Billing System" is in commercial operation since 2009 and has completed its Useful/Productive Life (considering depreciation @ 15% per year) and their present salvage value @ 100% depreciation is NIL as per Regulation 25.4 of the CSERC MYT Regulations, 2021.	(SPILL OVER WORK)
4	Procurement of UPS and Printers	0.1	0.1	(SPILL OVER WORK)	
5	Upgradation of MEA system	2	2	(SPILL OVER WORK)	


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6	Surveillance monitoring system for Backup SLDC	0.06	0.06	1. The Surveillance Monitoring System includes CCTV, DVR, ARS, Networking System. 2. CBA: In view of the above, DVR, ARS and Networking System for Surveillance Monitoring System for Main and Back-up SLDC is required. Test RTU is required at SLDC for various testing and integration activities before and after commissioning without disturbing telemetry from other RTUs in the field. Moreover, the same is also being utilized for acquiring weather parameters and planned to use for gathering parameters of UPS and DG set status.	(SPILL OVER WORK)
7	Replacement of Test RTU	0.1	0.1		(SPILL OVER WORK)
8	Upgradation/Replacement of SCADA system	11	11	1. Useful service life, i.e., Seven Years of existing SCADA system shall expire in October, 2023. CSLDC has signed an MoU for upgradation/replacement of SCADA/EMS system with WRLDC, POSOCO dated December 31, 2020. 2. CBA: CSLDC is working on real time data transfer system through SCADA for which day to day upgradation on same platform as WRLDC is working in order to acquire	(SPILL OVER WORK)
9	Replacement of conference room video and audio-conferencing system (Main SLDC)	0.75	0.75	1. Useful service life (Seven Years) of current Conference Room Audio Conferencing System has already expired in December 2019. The present Video Conferencing System is also not compatible with online meeting platforms such as WebEx, Google Meet, MS Teams, etc. 2. CBA: Both Audio and Video systems are required to be replaced with new system	(SPILL OVER WORK)
10	Replacement of Battery 48 VDC Battery 128 Set at Main & Backup SLDC	0.09	0.09	1 The service life span (5 Years) of 48VDC battery set and charger at Main SLDC has expired. 2. One additional set of Battery Set and Charger at Backup SLDC is required for the purpose of redundancy as at present there is only one set of Battery Set and Charger in service. Therefore, replacement of existing system is required	(SPILL OVER WORK)


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11	Replacement of Web servers, Networking, Storage and Firewalls at Main SLDC	0.75	0.75	1. Back-Up SLDC is working in parallel/in line with Main SLDC for communication, Data Exchange, etc. during any course of unprecedented force majeure condition. Therefore, a similar set-up is required at Back-Up SLDC 2. Without Web Servers, Firewall and Storage, SLDC shall not exchange or acquire data with other Inter & Intra-State entities, WRLDC, NLDC, IEX, etc. also CCTV systems have many components with a variety of functions, features, and specifications. Key components include cameras, lenses, data distribution, power, and lighting, among others. Some of the aspects to be considered are: 24 x 7 surveillance basis, night vision, remotely accessible, i.e., IP based, video recording and playback facility (for at least 90 days), movement-based recording, restricted and authorized access, future expansion. Coordination with local administration, fire department, hospital and disaster management agencies is also essential. CCTV shall cover all the angles of server room with redundancy. CBA: Useful service life (Seven Years) of current CCTV System of Main SLDC Raipur shall expired by the year	(SPILL OVER WORK)
12	Replacement of Outdoor CCTV System of Main SLDC Raipur	0.2	0.2		(SPILL OVER WORK)
13	Implementation of SAMAST Project (C) (Rs. 10 Cr. Benchmark approval from PSDF)	9.52	9.52	A new SAMAST system is proposed for efficient operations of CSLDC. Currently, many of the operations are done manually, which involve more processing time, duplication of data and delays. The new system will bring an overall improvement of power supply management through online scheduling, Accounting, Metering, settlement of transaction and convenience to open access customers and other inter-State and intra-State stakeholders 2. CBA: Total tentative project cost is Rs. 19.52 Crore, out of which 90% of Capital Cost is funded through grant of PSDF (i.e., Rs 10 Crore Benchmark approval) and remaining 10% of Capital Cost shall be met through the CSLDC Development Fund. After implementation of SAMAST, CSLDC will work on the same platforms as per the guidelines issued by NLDC.	(SPILL OVER WORK)

14	Procurement and up-gradation of 37 nos. of PCs for office use	0.1	0.1	1. As discussed above, VAPT is recommended for Procurement and Implementation of latest Windows Operating System on priority basis to protect CSLDC from cyber-attacks. 2.CBA: Upgradation of PC was costly hence new PCs are being proposed for procurement 1. Non-availability of cooling arrangement even for a fraction of hour in server room/ control room/communication room/UPS rooms shall lead to overheating of the rooms, as substantial heat is generated by all servers, VPS system and other IT equipment. 2.CBA: Loss of costlier and backbone electronic equipment of SLDC due to substantial heat may be avoided. Fire alarm and automatic water spray fire-fighting system for office floor with complete suppression of any type of fire/gas within maximum 1.5 minutes without any human interference, monitored by Very Early Warning Aspirating Smoke Detection (VESDA) system is required as per Building Management System.	(SPILL OVER WORK)
15	Procurement of Air Conditioners at Main & Backup SLDC	0.05	0.05	2. The fire hydrant system at main SLDC and backup SLDC was installed in the year 2010 and 2013 by Civil wing of CSPTCL and thereafter handed over to CSLDC. During the course of time, no repair and maintenance has been done at CSLDC level and operation checks are also not performed. Due to that the water pipelines are damaged and rusted. Therefore, there is requirement to either overhaul or replace Main Pump, Jockey Pump and Terrace pump. Hose pipe used for sprinkles are also needed to be replaced. 3. CBA: As per Disaster Management Act, 2005 the building must have fire hydrant system.	(SPILL OVER WORK)
16	Upgradation of fire hydrant system at main SLDC & backup SLDC	0.25	0.25		(SPILL OVER WORK)

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17	Procurement of Refrigerator and Oven for Conference room of CSLDC Building	0.02	0.02	1. In the CABIL Report of the Forum of Regulators Technical Committee sub-group issued in October 2018, Annexure-7: Ergonomics for LDs, B(12), Table 33: Stress, Fatigue mitigation at air traffic control centres (source: AAI) "Each station should ensure provision of adequate rest and relief mechanisms which need to be standardized including size of the rest room, number of beds to be made available, facilities such as television, water dispensers with provision of both hot and cold water, refrigerators, microwave ovens, massage chairs, reclining chairs, Library facilities with both aviation subject & general materials, well-equipped gym, individual storage locker facility, etc." 2.CBA: In view of above, conference room of SLDC has decided to raise a proposal with the Regulator and Commission for Communication System for inter-state transmission of electricity) Regulations, 2017 :- "6. NODAL AGENCY: (i) The nodal agency for planning, and coordination for development of communication system for inter-State transmission system user shall be the Central Transmission Utility. (ii) The nodal agency for planning, and coordination for development of communication system for intra - State transmission system user shall be the State Transmission Utility. (iii) The nodal agency for ensuring integration of communication system at regional level with SCADA, WAMS, Video Conferencing Systems(VCS), Automatic Meter Reading(AMR), EPABX, Tele-protection system shall be respective RLDC for ISGS, ISTS and SLDCs; and respective SLDC for State Generating Stations, distribution companies, Intra-State entities, intra-State transmission system, etc"	(SPILL OVER WORK)
18	Upgradation/ Replacement of SCADA system	76.3	76.3	(i) The nodal agency for planning, and coordination for development of communication system for inter-State transmission system user shall be the Central Transmission Utility. (ii) The nodal agency for planning, and coordination for development of communication system for intra - State transmission system user shall be the State Transmission Utility. (iii) The nodal agency for ensuring integration of communication system at regional level with SCADA, WAMS, Video Conferencing Systems(VCS), Automatic Meter Reading(AMR), EPABX, Tele-protection system shall be respective RLDC for ISGS, ISTS and SLDCs; and respective SLDC for State Generating Stations, distribution companies, Intra-State entities, intra-State transmission system, etc"	New Proposed work


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19	Microsoft office License	0.56	0.56	In order to fulfil the legal requirement of running the essential software from Microsoft, the Microsoft licence are required. CBA- Since these software are used for all the approved projects their benefits accrue to the overall work environment.	New Proposed work
20	175 Ton Air Cooled Screw Chiller at SLDC, Building, Raipur	1.05	1.05	The Centralized Ac system is used for air conditioning the Control -room , Server -room , Communication- room , video projection- room, Auxiliary power supply room etc. where costly equipment are installed , which have to be kept in air conditioned environment with ambient temperature of 23 degree C. Apart from the above ,it is used for maintaining the required temperature of the SLDC building . The central Air Conditioning system of 160 T make -Voltas was installed at SLDC in the year 2009 , and after continuous service of 15 years it has rendered its useful life , The Air conditioning system are deteriorating due to aging moreover the auxiliary pumps are also not performing with their full efficiency because of motor repaired multiple times. Since The central Air Conditioning system is very essential as mentioned in the foregoing para ,it is proposed to replace the central Air Conditioning system with a new one with capacity of at least 175 T. CBA-Since the office space is used for all the approved projects benefits accrue to the overall work environment	New Proposed work


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21	Security Operation Centre and Network operation control	1	1	Ministry of Electronics and Information Technology on dated 22-May-2018 notified Information Technology (Information Security Practices and Procedures for Protected System) Rules, 2018. In the rules it has been mentioned that organization having "Protected System" shall establish a Cyber Security Operation Centre (C-SOC) and Network Operation Centre (NOC). (CP-119-(j)). As per above rules, SLDC Chhattisgarh having "Protected System" is required to establish a Security Operation Centre (SOC) and Network Operation Centre (NOC).	New Proposed work
22	Productivity Tools for Demand Estimation with H/w & S/W	0.2	0.2	As per the section 31(2)(b), 31(2)(h) and 31(2)(i) of Central Electricity Regulatory Commission (Indian Electricity Grid Code) Regulations, 2023 :- "(2) Demand Estimation... (b) Each SLDC shall develop methodology for daily, weekly, monthly, yearly demand estimation in MW and MWh for operational analysis as well as resource adequacy purposes. Each SLDC, while estimating demand may utilize state of the art tools, weather data, historical data and any other data. For this purpose, all distribution licensees shall maintain a historical database of demand. further SLDCs, RLDCs and NLDC shall compute forecasting error for intra-day, day-ahead, weekly, monthly and yearly forecasts and analyse the same in order to reduce forecasting error in the future. The computed forecasting errors shall be made available by SLDCs, RLDCs and NLDC on their respective websites. In view of the same the productivity tools are essential.	New Proposed work


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23	Procurement for Supply, Installation and Commissioning of 480V 165AH VRLA Battery Bank(Consists of 240 cells) at Main and Backup SLDC	0.39	0.39	The 480V 165AH VRLA Battery Bank(Consists of 240 cells) at Main and Backup SLDC SCADA System was installed in the year 2016. The useful life of the batteries are already over. They are required to be replaced for smooth functioning of EMS/SCADA system	New Proposed work
24	Voice recording system	0.24	0.24	Voice recorder is used to record the conversation of control room phones, The recording is useful for analysis purpose after any major event in power system. 2 No Call Loggers & Recorders were damaged due to heavy lightning and are beyond repair.	New Proposed work


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25	Procurement of WAF, NLV, Anti DDoS	2.4	2.4	The State Load Dispatch Centre shall: (a) be responsible for optimum scheduling and dispatch of electricity within a State, in accordance with the contracts entered into with the licensees or the generating companies operating in that State; (b) Monitor grid operations; (c) Keep accounts of the quantity of electricity transmitted through the State grid; (d) Exercise supervision and control over the intra-state transmission system; and (e) Be responsible for carrying out real time operations for grid control and dispatch of electricity within the State through secure and economic operation of the State grid in accordance with the Grid Standards and the State Grid Code. In order to improve the cyber security posture of SLDC, Chhattisgarh, NCIIIPC has recommended for the installation of Web Access Firewall (WAF), Network Load Balancer (NLB) and Anti DDoS devices.	New Proposed work
26	Upgradation/replacement of SLDC Building LAN cables and switches.	0.2	0.2	The SLDC building was constructed in the year 2010. SLDC Building LAN cables were laid in the SLDC building during construction. These cables have become very old and causing data loss in the system. Hence replacement is required.	New Proposed work



27	Implementation of cyber security (Capital ADDS, NMS, CAV etc) at Back up SLDC	1	1	1. In the Vulnerability Assessment and Penetration Testing (VAPT) conducted in March 2019, recommendations were made to protect CSLDC from cyber-attacks. The IT infrastructure of CSLDC is vulnerable to various cyber- attacks, which may lead to data loss and downtime of IT infrastructure in the event of non-compliance of recommendations of VAPT. Since the working of CSLDC is highly dependent on IT infrastructure, it is utmost necessary to take essential steps to protect the IT infrastructure. Based on the above recommendations, a plan has been made to install Active Directory Domain Services, Antivirus and Patch management server, Network Monitoring System, etc. 2. CBA: If not complied with the VAPT recommendation the loss of data and downtime of IT infrastructure may raise MTRR and MTBF, which is uneconomical	New Proposed work
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			28] Implementation of Network operation Control (NOC) at SLDC Raipur	
			As per the EA, 2003 Regulation 32 (2)	
			The State Load Dispatch Centre shall:	
			(a) be responsible for optimum scheduling and dispatch of electricity within a State, in accordance with the contracts entered into with the licensees or the generating companies operating in that State;	
			(b) Monitor grid operations;	
			(c) Keep accounts of the quantity of electricity transmitted through the State grid;	
			(d) Exercise supervision and control over the intra-state transmission system; and	
			(e) Be responsible for carrying out real time operations for grid control and dispatch of electricity within the State through secure and economic operation of the State grid in accordance with the Grid Standards and the State Grid Code.	
			Ministry of Electronics and Information Technology on dated 22-May-2018 notified Information Technology (Information Security Practices and Procedures for Protected System) Rules, 2018. In the rules it has been mentioned that organization having "Protected System" shall establish a	
28	Implementation of Network operation Control (NOC) at SLDC Raipur	1	1	New Proposed work


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Raipur

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29	Implementation of Data Diode for IT and OT segregation at SLDC Raipur	2	2	The State Load Dispatch Centre shall: (a) be responsible for optimum scheduling and dispatch of electricity within a State, in accordance with the contracts entered into with the licensees or the generating companies operating in that State; (b) Monitor grid operations; (c) Keep accounts of the quantity of electricity transmitted through the State grid; (d) Exercise supervision and control over the intra-state transmission system; and (e) Be responsible for carrying out real time operations for grid control and dispatch of electricity within the State through secure and economic operation of the State grid in accordance with the Grid Standards and the State Grid Code.	New Proposed work
30	Implementation of cyber security (Capital ADDS, NMS, CAV etc) at SLDC Main Raipur	1	1	To improve the cyber security posture of Main SLDC, Raipur by implementation of various cyber security tools such as Network Security Tools, Vulnerability Scanners, Penetration Testing Tools, Identity and Access Management (IAM) Tools, Data Loss Prevention (DLP) Tools etc.	New Proposed work
	Total	113.66	113.7		
		113.67			


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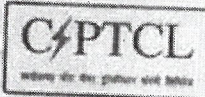
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ANNEX - B5(b)

Percentage Completion and Reasons for delay in execution of the project under Capital Investment Plan of CSLDC

S.No	Particulars	Percentage completion	Reason for delay
1	Installation of Weather sensors at 10 S/s in CG	NIL	Preparation of Tender document under process
2	Procurement of Office Furniture for CSLDC	NIL	Procurement is under process
3	Installation of Indoor Security Camera, Projectors and Scanner	NIL	Procurement is under process
4	Procurement of UPS and Printers	25%	Procurement is being done by (S&P)
5	Up-gradation of MEA System	NIL	Preparation of Tender document under process
6	Surveillance Monitoring System for Back-up SLDC	NIL	Preparation of Tender document under process
7	Replacement of Test RTU	NIL	Preparation of Tender document under process
8	Upgradation/ Replacement of SCADA System	NIL	Not finalized yet by Grid India
9	Replacement of Conference Room Video & Audio-Conferencing System (Main SLDC)	NIL	Preparation of Tender document under process
10	Replacement of Battery 48 VDC Battery Set at Main & Backup SLDC	NIL	NIT has been issued
11	Replacement of Web servers, Networking, Storage and Firewalls at Main SLDC	Projected for 100% completion in FY 2024-25	NA
12	Replacement of Outdoor CCTV System of Main SLDC Raipur	NIL	Preparation of Tender document under process
13	Implementation of SAMAST Project (C) (Rs. 10 Cr. Benchmark approval from PSDF)	NIL	NIT issued
14	Procurement and up-gradation of 37 nos. of PCs for office use	67%	Procurement is being done by (S&P)
15	Procurement of Air Conditioners at Main & Backup SLDC	60%	Procurement is under process
16	Upgradation of fire hydrant system at main SLDC & backup SLDC	Nil	Procurement is under process
17	Procurement of Refrigerator and Oven for Conference room of CSLDC Building	Nil	Procurement is under process


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Raipur



ANNEX - B4(g)

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CHHATTISGARH STATE POWER TRANSMISSION COMPANY LIMITED
(A Govt. of Chhattisgarh Undertaking), CIN - U40108CT2003SGC015820

Registered Address:- Vidyut Sewa Bhawan, Dangania, Raipur-492013 (C.G.)
Website- www.csptcl.co.in/cspcl, E-Mail- companysecretary@csptcl.co.in, Phone- 0771-2576089

Company Secretary

Certified True Copy of the Resolution passed by the Board of Directors of Chhattisgarh State Power Transmission Company Limited at its 115th Meeting held on Friday, 29th November, 2024 at 04:00 pm at Vidyut Sewa Bhawan, Dangania, Raipur (C.G.)

Agenda No. 115/04:

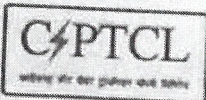
Approval of BoD towards Submission of proposal before Hon'ble CSERC for approval of Capital Investment Plan for the control period FY 2025-2026 in respect of CSLDC.

"RESOLVED THAT the approval of Board of Directors of the Company be and is hereby accord for submission of petition for Capital Investment Plan 2025-2026 for total expenditure as tabulated below for onward approval of Hon'ble CSERC.

S. No.	Particulars	FY 2025-26 (Proposed)	Totals	(Rs. in Cr.)
				STATUS of WORK FROM PREVIOUS CONTROL PERIOD FY 2022-23 to FY 2024-25
1	Installation of Weather sensors at 10 S/s in CG	0.75	0.75	(SPILL OVER WORK)
2	Procurement of Office Furniture for CSLDC	0.1	0.1	(SPILL OVER WORK)
3	Installation of Indoor security camera, projectors and scanner	0.485	0.485	(SPILL OVER WORK)
4	Procurement of UPS and Printers	0.1	0.1	(SPILL OVER WORK)
5	Upgradation of MEA system	2	2	(SPILL OVER WORK)
6	Surveillance monitoring system for Backup SLDC	0.06	0.06	(SPILL OVER WORK)
7	Replacement of Test RTU	0.1	0.1	(SPILL OVER WORK)
8	Upgradation/Replacement of SCADA system	11	11	(SPILL OVER WORK)
9	Replacement of conference room video and audio-conferencing system (Main SLDC)	0.75	0.75	(SPILL OVER WORK)
10	Replacement of Battery 48 VDC Battery 128 Set at Main & Backup SLDC	0.09	0.09	(SPILL OVER WORK)
11	Replacement of Web servers, Networking, Storage and Firewalls at Main SLDC	0.75	0.75	(SPILL OVER WORK)
12	Replacement of Outdoor CCTV System of Main SLDC Raipur	0.2	0.2	(SPILL OVER WORK)
13	Implementation of SAMAST Project (C) (Rs.	9.52	9.52	(SPILL OVER WORK)

Chief Engineer (LD)
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S. No.	Particulars	FY 2025-26 (Proposed)	Totals	STATUS of WORK FROM PREVIOUS CONTROL PERIOD FY 2022-23 to FY 2024-25
	10 Cr. Benchmark approval from PSDF)			
14	Procurement and up-gradation of 37 nos. of PCs for office use	0.1	0.1	(SPILL OVER WORK)
15	Procurement of Air Conditioners at Main & Backup SLDC	0.05	0.05	(SPILL OVER WORK)
16	Upgradation of fire hydrant system at main SLDC & backup SLDC	0.25	0.25	(SPILL OVER WORK)
17	Procurement of Refrigerator and Oven for Conference room of CSLDC Building	0.02	0.02	(SPILL OVER WORK)
18	Upgradation/ Replacement of SCADA system	76.3	76.3	New Proposed work
19	Microsoft office License	0.56	0.56	New Proposed work
20	175 Ton Air Cooled Screw Chiller at SLDC, Building, Raipur	1.05	1.05	New Proposed work
21	Security Operation Centre and Network operation control	1	1	New Proposed work
22	Productivity Tools for Demand Estimation with H/w & S/W	0.2	0.2	New Proposed work
23	Procurement for Supply, Installation and Commissioning of 480V 165AH VRLA Battery Bank (Consists of 240 cells) at Main and Backup SLDC	0.39	0.39	New Proposed work
24	Voice recording system	0.24	0.24	New Proposed work
25	Procurement of WAF, NLV, Anti DDoS	2.4	2.4	New Proposed work
26	Upgradation/replacement of SLDC Building LAN cables and switches.	0.2	0.2	New Proposed work
27	Implementation of cyber security (Capital ADDS, NMS, CAV etc) at Backup SLDC	1	1	New Proposed work
28	Implementation of Network operation Control (NOC) at SLDC Raipur	1	1	New Proposed work
29	Implementation of Data	2	2	New Proposed work



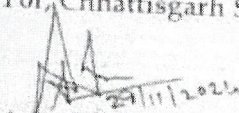
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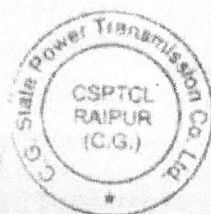
CHHATTISGARH STATE POWER TRANSMISSION COMPANY LIMITED
(A Govt. of Chhattisgarh Undertaking), CIN - U40108CT2003SGC015820
Registered Address:- Vidyut Sewa Bhawan, Dangania, Raipur-492013 (C.G.)
Website- www.cspc.co.in/cspc, E-Mail- companysecretary@cspc.co.in, Phone- 0771-2576089
Company Secretary

S. No.	Particulars	FY 2025-26 (Proposed)	Totals	STATUS of WORK FROM PREVIOUS CONTROL PERIOD FY 2022-23 to FY 2024-25
	Diode for IT and OT segregation at SLDC Raipur			
30	Implementation of cyber security (Capital ADDS, NMS, CAV etc) at SLDC Main Raipur	1	1	New Proposed work
	Total	113.66	113.66	

RESOLVED FURTHER THAT ED (CSLDC) be and is hereby authorized on behalf of CSPTCL to file the petition for Capital Investment Plan for FY 2025-26 for the control period 2025-26 before Hon'ble CSERC with applicable fee and also permit to file reply/ make changes as per requirement of CSERC/ additional submission before Hon'ble CSERC in the matter of petition as & when required."

For, Chhattisgarh State Power Transmission Company Limited


Arun Mishra
Company Secretary



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Chief Engineer (LD)
C.S.Power Trans.Co.Ltd.
Raipur

Budgetary Price Indication of SCADA/EMS System of Chhatisgarh SLDC							
Sl. No.	Item Description	Unit	Quantity			Unit Price (Supply, Installation, Insurance & Freight)	Total Price (Supply, Installation, Insurance & Freight)
			Main CC	Backup CC	Total		
A Software							
1.1	SCADA	Lot	1	1	2	37,480,769	74,961,538
1.1 (a)	Load Shed Support (LSS) / ADMS	Lot	0	0	0		
1.2	ICCP Communication	Lot	1	1	2	included in item 1.1	
1.3	CFE Communication	Lot	1	1	2	included in item 1.1	
1.4	EMS Functions						
(a)	State Estimator	Lot	1	1	2	included in item 1.1	
(b)	Contingency Analysis	Lot	1	1	2	included in item 1.1	
(c)	Security Enhancement	Lot	1	1	2	included in item 1.1	
(d)	Optimal Power Flow	Lot	1	1	2	included in item 1.1	
(e)	Outage Scheduler	Lot	1	1	2	included in item 1.1	
(f)	Transmission Line/Corridor Capability Monitor (TCM)	Lot	1	1	2	included in item 1.1	
(g)	Short Circuit Analysis	Lot	1	1	2	included in item 1.1	
(h)	Automatic Generation Control (AGC)	Lot	1	1	2		
1.5	Dynamic Security Assessment (DSA) Software (at RLDC only)	Lot	0	0	0		
1.6	Dispatcher Training Simulator	Lot	0	0	0		
1.7	Database development system (PDS) cum test bench for SCADA and ICCP Integration						
(a)	Database development system (PDS)	Lot	1	1	2	included in item 1.1	
(b)	Test bench for FEP SCADA and ICCP Integration	Lot	1	1	2	1,680,902	3,361,803
1.8	Web Server Application						
(a)	Software for Data Replica	Lot	1	1	2	959,631	1,919,261
(b)	Software for Web Server	Lot	1	1	2	712,308	1,424,616
(c)	Web Historian and Reporting System	Lot	1	1	2	712,308	1,424,616
1.9	OPC client licenses (SCADA & Historian 5 each) - To take data from outside	Lot	1	1	2	1,170,209	2,340,417
1.10	SMS & Email Interface	Lot	1	1	2	953,341	1,926,682
1.11	Commercial Off-The-Shelf (COTS) Softwares						
(a)	Historian (Information Storage & retrieval) System along-with GUI as per TS requirement of Historian.	Lot	1	1	2	10,865,243	21,730,486
(b)	Document Management System	Lot	1	1	2	1,375,815	2,751,629
(c)	Identity Management Software	Lot	1	1	2	2,063,722	4,127,444
(d)	Network Access Control (NAC)	Lot	1	1	2	2,536,518	5,073,036
(e)	Patch Management Software	Lot	1	1	2	390,112	780,225
(f)	VAPT Tool	Lot	2	1	3	2,053,722	6,191,166
(g)	Virtualisation Software for all the virtual servers envisaged and required under the project along-with centralised management software	Lot	1	1	2	6,065,243	12,130,486
(h)	Operating System for all the servers envisaged and required under the project	Lot	1	1	2	959,631	1,919,261
(i)	Host based intrusion prevention system (HIPS) with centralised management	No.	17	17	34	15,889	540,218
(j)	End Point Security Solution with centralised management	No.	52	38	90	301,756	27,158,028
(k)	Centralised Management and Log Analyser of all FWs	Lot	1	1	2	5,856,145	11,712,290
(l)	Network Management System	Lot	1	1	2	1,680,902	3,361,803
(m)	SIEM (Security Information and Event management)	Lot	1	1	2	3,206,831	6,413,663
(n)	OPC client licenses to be installed outside OT network to exchange data from SCADA & Historian	No.	2	1	3	367,386	1,102,158
(o)	Load Forecasting	Lot	1	1	2	included in item 1.1	
1.12	OPC Server	No.	2	2	4	724,210	2,896,838
1.13	Report Development & Generation Software	Lot	1	1	2	400,053	800,126
B Computer System Hardware							
Servers							
2.1	SCADA/EMS, AGC Applications	No.	2	2	4	1,223,728	4,894,912
2.2	DSA Application (at RLDC only)	No.	0	0	0		
2.3	ICCP, CFE, OPC Applications						
(a)	ICCP, OPC Applications	No.	2	2	4	1,223,728	4,894,912
(b)	CFE Applications	No.	2	2	4	1,223,728	4,894,912
2.4	Historian (Information Storage & retrieval) System along-with GUI, Reporting Application	No.	2	2	4	1,223,728	4,894,912
2.5	DTS Servers	No.	0	0	0		
2.6	PDS (Test and Development) Servers	No.	2	2	4	1,223,728	4,894,912
2.7	Server for Third Party Applications as per architecture and technical specification	No.	2	2	4	1,708,474	6,833,894
(a)	End Point Security Solution Server						
(b)	Patch management Server						
(c)	NMS server						
(d)	VAPT Server						
2.8	Servers for Management Applications	No.	2	2	4	1,423,728	5,694,912
(a)	Internal Centralised Management Server						
(b)	Network Access Control (NAC)						
(c)	Identity Management Server						
2.9	Servers for Applications in Internal DMZ	No.	2	2	4	1,423,728	5,694,912
(a)	External Centralised Management Server						
(b)	Data Replica Server						
(c)	SIEM						
(d)	Document Management System						
2.10	Servers for Applications in External DMZ	No.	2	2	4	1,708,474	6,833,894
(a)	Web Servers						
(b)	End Point Security Solution Server						
(c)	Patch management Server						
(d)	Web Historian and Reporting server						
(e)	OPC Server						
2.11	Server Management Console	No.	1	1	2	1,423,728	2,847,456
2.12	Backup Solution	No.	1	1	2	1,223,728	2,447,456

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Budgetary Price Indication of SCADA/EMS System of Chhattisgarh SLDC

Sl. No.	Item Description	Unit	Quantity			Unit Price (Supply, Installation, Insurance & Freight)	Total Price (Supply, Installation, Insurance & Freight)
			Main CC	Backup CC	Total		
2.13	Storage System						
(a)	SAN System	No.	2	2	4	3,823,454	14,493,816
(b)	NAS System	No.	1	1	2	2,174,072	4,348,145
2.14	WAN Routers with Firewall						
(a)	WAN Router cum Firewall for ICCP Communication	No.	2	2	4	3,408,667	13,634,668
(b)	WAN Router cum Firewall for External World Connectivity	No.	2	2	4	3,408,667	13,634,668
(c)	WAN Router cum firewall for RTU Communication	No.	2	2	4	3,408,667	13,634,668
(d)	Router cum firewall for Remote Consoles	No.	3	0	3	3,408,667	10,226,001
(e)	WAN Router cum firewall for PDS	No.	2	2	4	3,408,667	13,634,668
2.15	Switches						
(a)	48 Port L3- LAN switch for SCADA/EMS LAN	No.	2	2	4	670,465	2,681,860
(b)	24 Port L3- LAN switch for Historian & Reporting LAN	No.	2	2	4	595,009	2,380,034
(c)	16 port FC switch for SAN Switch	No.	2	2	4	1,483,794	5,935,176
(d)	24 Port L3- LAN switch for Internal & External DMZ LAN	No.	2	2	4	595,009	2,380,034
(e)	24 Port L3- LAN Switch for Server Management LAN	No.	2	2	4	595,009	2,380,034
(f)	24 Port L3- LAN Switch for ICCP & FEP LAN	No.	2	2	4	595,009	2,380,034
(g)	24 Port L3- LAN Switch for DCCP/Terminal Server LAN	No.	4	4	8	595,009	4,760,068
2.16	Cyber Security Appliances						
(a)	External Firewall with NIPS and centralised mangement	No.	2	2	4	1,450,000	5,800,000
(b)	Internal Firewall with NIPS and centralised mangement	No.	2	2	4	1,450,000	5,800,000
(c)	External Firewall with NIPS for ICCP and RTU and centralised mangement	No.	2	2	4	1,450,000	5,800,000
(d)	Anti-APT	No.	2	2	4	2,763,724	11,054,896
2.17	Laptops						
(a)	Laptop for maintenance	No.	1	1	2	2,063,722	4,127,444
(b)	Laptop for DTS	No.	2	1	3		
(c)	Laptop for VAPT	No.	0	0	0	177,320	531,960
2.18	Terminal Server/ Splitters						
(a)	16 Port Splitter	No.	1	0	1	177,320	177,320
(b)	32 Port Terminal Servers	No.	8	8	16	34,395	550,326
(c)	Panel for Terminal Servers with accessories	No.	8	8	16	275,163	4,402,607
2.19	Workstations						
(a)	Workstation Console without Monitor	No.	4	4	8	68,791	550,326
(b)	Workstation Console integrated with single Monitor	No.	0	0	0		
(c)	Workstation Console integrated with dual Monitors	No.	4	0	4		
(d)	Workstation Console integrated with triple Monitors	No.	4	4	8	228,897	915,587
(e)	DTS Workstation with dual Monitors (Training Console)	No.	0	0	0	247,647	1,981,173
(f)	Workstation Console integrated with dual Monitors for DSA (or RLDC only)	No.	0	0	0		
(g)	All-in-One workstations with CPU (remote console)	No.	0	0	0		
(h)	PDS Workstations with dual Monitor	No.	6	4	10		
2.20	Video Projection System (LED/ Laser) for control room						
(a)	Video Projection System (with each modules of 70" (5*2))	set	2	2	4	923,703	9,237,031
(b)	Video Projection System (with each modules of 70" (4*3))	set	1	0	1	247,647	990,587
(c)	55 inch VideoWall with CPU (Wall/Floor mount with Stand)	set	0	0	0	6,979,070	6,979,070
2.21	Printers						
(a)	Color Laser Printer	Nos.	2	0	2		
(b)	Multi Functional Printer	No.	2	0	2	687,907	1,375,814
2.22	Time & Frequency System and External displays						
(a)	Time & Frequency System NavIC(with fallback to GPS) Based	No.	2	1	3	427,097	854,194
(b)	Digital Display for Date	Lot	2	2	4	249,174	747,521
(c)	Digital Display for Day	No.	1	1	2	146,524	586,097
(d)	Digital Display for Time	No.	1	1	2	13,621	27,241
(e)	Digital Display for Frequency	No.	1	1	2	13,621	27,241
(f)	Digital Display for Display of Time Block	No.	1	1	2	13,621	27,241
(g)	Digital Display for Temperature	No.	1	1	2	17,198	34,395
(h)	Digital Display for Relative Humidity	No.	0	0	0	13,621	27,241
2.23	Furniture						
(a)	U-Type Operator Workstations desk (per cubicle 9-10 feet)	No.	0	0	0		
(b)	Operator Workstations desk	No.	0	0	0		
(i)	MotORIZED						
(ii)	Normal	No.	0	0	0		
(c)	Chairs	No.	4	4	8		
2.24	Weather Sensors for Server Room	No.	16	6	22	137,581	1,100,652
2.25	Link Load Balancer	Lot	2	1	3	34,395	756,698
2.26	Smart Server Rack	No.	2	2	4	137,581	412,744
2.27	IP based KVM System	No.	3	3	6	309,919	1,239,678
2.28	Centralized Keyboard & Mouse Control Solution (CKMC)	No.	1	1	2	1,368,048	8,208,289
2.29	External HDD - 4 TB	Set	3	1	4	Included in 2.25	
C	Auxiliary Power Supply	No.	2	2	4	977,096	3,908,264
3.1	120 kVA UPS System						
(a)	120 kVA (96 kW at 0.8 pf) UPS system running in parallel	Nos.	0	0	0	21,713	86,850
(b)	VRLA type Battery banks for above UPS (each bank of 230.4 kVAH)	Nos.	0	0	0		
(c)	Input ACDB (600 kVA rating)	No.	0	0	0		
(d)	Output ACDB (400 kVA rating)	No.	0	0	0		
3.2	40 kVA UPS System						
(a)	40 kVA (32 kW at 0.8 pf) UPS system running in parallel	Nos.	0	0	0		
(b)	VRLA type Battery banks for above UPS (each bank of 76.8 kVAH)	Nos.	2	2	4		
(c)	Input ACDB (150 kVA rating)	No.	2	2	4	2,378,055	9,512,258
(d)	Output ACDB (100 kVA rating)	No.	1	1	2	108,563	434,252
3.3	DG System						
(i)	50 KVA DG Set	No.	1	1	2	235,919	471,838
(ii)	100 KVA DG Set	No.	0	0	0	235,919	471,838
(iii)	320 KVA DG Set	No.	0	0	0		
3.4	Accessories for maintenance of VRLA type batteries	No.	0	0	0		
3.5	Power Distribution and cabling work required to establish UPS and /or DG Set	Set	1	1	2	137,642	275,284
		Lot	1	1	2	409,400	818,800

Budgetary Price Indication of SCADA/EMS System of Chhatisgarh SLDC

Sl. No	Item Description	Unit	Main CC	Backup CC	Total	Unit Price (Supply, installation, Insurance & Freight)	Total Price (Supply, installation, Insurance & Freight)
D	Mandatory Spares inventory at Control Centers (As per Technical Specification)						
(a)	SCADA/EMS system						
(b)	VPS Spares	Lot	1	1	2		
(c)	Auxiliary Power Supply system for the control centres wherever applicable	Lot	1	1	2	10,263,741	20,567,482
(d)	Mandatory Spares for DG Set & AMF Panel wherever applicable (for control panel)	Lot	1	1	2	2,675,960	5,351,980
E	Test Equipment for RTU	Lot	0	0	0	1,142,464	2,284,928
(a)	Master Station cum RTU simulator & Protocol Analyser Software tool						
(b)	Laptop PC for above software tools along with interfacing hardware	Lot	1	1	2	1,116,841	2,233,682
F	Services (Integration and supply)	Lot	1	1	2		
4.1	Integration with Control Centres on ICCP					461,392	922,785
4.2	Integration with other applications	Nos	10	10	20		
(a)	Market and Metering Applications					287,014	5,740,274
(b)	Scheduling software	Nos	1	1	2		
4.3	Integration of SCADA/EMS system with OPC/Modbus/ Web services	Nos	1	1	2	574,027	1,148,055
4.4	Existing RTU Integration	Nos	5	5	10	574,027	1,148,055
4.5	Integration of Existing RTU with Data Concentrator Cum Protocol Converter / Terminal Server	No	500	500	1000	861,041	8,610,412
4.6	Cyber Security Audit by CERT-IN certified Auditors during FAT	Lot	1	1	2	101,965	101,965,402
4.7	Cyber Security Audit by CERT-IN certified Auditors during SAT	Nos	1	1	2	143,507	143,507
4.8	SMS integration with service provider & Email integration with owner email system	Nos	1	1	2	887,907	1,775,815
4.9	Dismantling and Buyback of existing SCADA/EMS system	Lot	1	1	2	887,907	1,775,815
4.10	Warehouse storage of all supplied system under the project (as per actual)	Lot	1	1	2	708,680	1,417,360
G	Training	Monthly	0	0	0	508,040	1,216,080
5.1	Computer System Hardware & Software						
5.2	Database & Display	Lot	1	1	2		
5.3	Application Software Training	Lot	1	1	2	428,400	428,400
5.4	Dispatcher/Operator Training	Lot	1	1	2	428,400	428,400
5.5	Training on NMS	Lot	1	1	2	428,400	428,400
5.6	Cyber Security and VAPT	Lot	1	1	2	428,400	428,400
5.7	Dispatcher Training Simulator	Lot	1	1	2	624,750	624,750
5.8	Terminal/DCPC/ICCP Server Course	Lot	0	0	0	624,750	624,750
5.9	Auxiliary Power Supply	Lot	1	1	2	624,750	624,750
H	Annual Maintenance Contract including DLP						
6.1	Annual maintenance contract of SCADA/EMS System and all the equipments supplied in the project for a period of 7 years (1 year DLP and 6 years AMC)	year	7	7	14	10,517,256	147,241,588
6.2	ICCP Integration for 7 years (as per actual)						
6.3	Six Monthly Cyber Security Audit by Cert-IN certified Auditors	Nos	10	10	20	441,185	8,823,701
6.4	Patch Mangment including Signature updates for all Cyber security equipments for 7 years	Nos	14	14	28	889,907	24,917,405
6.5	RTU Integration (as per actual)	Lot	1	1	2		
6.6	OPC client function (per user) in SCADA Server	No	360	360	720	1,058,781	2,117,561
6.7	Integration with OPC/Modbus/Web Services/SAMAST	No	5	5	10	220,592	2,205,919
6.8	Yearly Training on SCADA/EMS for 5 Days for 20 people (as per actual)	No	5	5	10	220,592	2,205,919
6.9	Unit Rate for Cartridges	lot	1	1	2		
(a)	Cyan/Magenta/Yellow (Set of All)					1,180,469	1,180,469
(b)	Black	No	5	0	5		
6.10	Unit Rate for Drum	No	10	4	14	36,283	181,417
(a)	Cyan/Magenta/Yellow (Set of All)					26,308	368,317
(b)	Black	No	5	0	5		
6.11	SMS Service with a provision of 1 Lakh messages annually (carry forward facility)	No	10	4	14	36,283	181,417
I	Relocation and Commissioning at New Location	year	7	0	7	223,123	368,317
(i)	All the systems supplied under this project expect VPS and APS						1,561,891
(ii)	Video Projection System	Lot	1	1	2		
(iii)	Auxiliary Power Supply	Lot	1	1	2	1,738,985	3,477,970
	Total Price (AMC and DLP)	Lot	1	1	2	850,000	1,700,000
	Grand Total Price (Supply, Services and AMC (sum of H))					425,000	850,000
	Total Budgetary Price (After Buy-Back) (refer line item 4.9)						
							873,192,687

Note:

THIS IS A BUDGETARY PRICE INDICATION BASED ON PRELIMINARY INFORMATION. THIS IS PURELY INDICATIVE AND DOES NOT CONSTITUTE AN OFFER OR COMMITMENT NOR DOES IT CONTAIN ANY REPRESENTATION OR WARRANTY ON SIEMENS PART. SHOULD THERE BE A REQUIREMENT TO PROGRESS THIS TRANSACTION PLEASE REVERT BACK WITH DETAILS AND SPECIFICATIONS AND WE SHALL ADDRESS THE REQUEST APPROPRIATELY AT THAT TIME AND SUBJECT TO ALL INTERNAL APPROVALS AS MAYBE REQUIRED BY US.


Chief Engineer (LD)
C.S.Power Trans.Co.Ltd.
Raipur

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ANNEX - B8(a)



CIN - 40108CT2003SGC015820

CHHATTISGARH STATE POWER TRANSMISSION COMPANY LIMITED
(A Govt. of Chhattisgarh Undertaking) (A successor Company Of CSEB)
STATE LOAD DESPATCH CENTRE: RAIPUR
PHONE: 0771- 2574172 FAX NO. 0771-2574174
Web Site: sldccg.com Email-office@sldccg.com

 CIN-U40108CT2003SGC015820 GST-22AADCC5773E1ZX	CHHATTISGARH STATE POWER TRANSMISSION COMPANY LIMITED छत्तीसगढ़ राज्य विद्युत पारेषण कम्पनी मर्यादित (C.G. Govt. Undertaking)(छत्तीसगढ़ शासनका एक उपक्रम) CHHATTISGARH STATE LOAD DESPATCH CENTRE: RAIPUR छत्तीसगढ़ राज्य भार प्रेषण केन्द्र, रायपुर दूरभाष PHONE : 0771- 2574172. फैक्स FAX NO. 0771-2574174 Website :
<u>e-Notice Inviting Tender (e-NIT)</u> Tender NIT No.: 03-02/SLDCCG/SAMAST/e-bidding/TR-243/ 2449 Raipur, dtd.: 08-Jan-2025 Tender No. :TR-243 Name of the Work: TENDER FOR IMPLEMENTATION OF SCHEDULING, ACCOUNTING, METERING AND SETTLEMENT OF TRANSACTION IN ELECTRICITY (SAMAST) FRAMEWORK IN THE STATE OF CHHATTISGARH Online bids are invited through CSPTCL tendering system (SAP-SRM) from Eligible Contractor/ Agencies who fulfill the Pre-Bid Qualification Criteria is opened & will be allowed registration for this tender till following date. Important Dates: Last date for Submission of Tender Document: 04-Mar-2025, upto 03:00 PM Only. Date of opening of Tender Document: 04-Mar-2025 at 03:30 PM. The detailed Tender is also available at our official website:https://sldccg.com & www.cspc.co.in. CHIEF ENGINEER SLDC, CSPTCL, RAIPUR // Save Electricity //	

SAMAST SPEC SEC 00- NIT

Chief Engineer (LD)
C.S. Power Trans. Co. Ltd.
Raipur

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CHHATTISGARH STATE POWER TRANSMISSION COMPANY LTD.

(A Government of Chhattisgarh Undertaking)

CIN - U 40108CT2003SGC015820

Office : DGM(Legal), C. S. Power Transmission Co. Ltd., Raipur

No. 01-02/DGM(Legal)/OCC-568/

Raipur, dtd. 23 JAN 2025

ORDER

In supersession of Order No. 01-02/DGM(Legal)/OCC-557/841-42, dtd. 22.11.2024, approval has been accorded by the Competent authority to appoint Smt. Sharda Sonwani, CE (SLDC), CSPTCL, Raipur to act as OIC of the Case in place of Shri Sanjay Patel, ED (SLDC), CSPTCL, Raipur to sign, execute & authenticate by her signatures all papers and documents on behalf of SLDC, CSPTCL and its Officers in Petition No. 101/2025 in the matter of tariff petition and Capital Investment Petition (CIP) for FY 2025-26 along with True-up petition for FY 2023-24 before Hon'ble CSERC, Raipur.

Other terms and conditions of Order under reference will remain unchanged.


Sr. LAW OFFICER
CSPTCL : RAIPUR

No. 01-02/DGM(Legal)/OCC-568/ 102

Raipur, dtd. 23 JAN 2025

Copy to :

1. Shri Sanjay Patel, ED (SLDC), CSPTCL, Raipur.
- For information & necessary action. Please handover the complete case file to Smt. Sharda Sonwani, CE (SLDC), CSPTCL, Raipur
 2. Smt. Sharda Sonwani, CE (SLDC), CSPTCL, Raipur.
-For information & necessary action. The original Order & Annexure-A are enclosed. Please contact Shri Sanjay Patel, ED (SLDC), CSPTCL, Raipur, for taking over the complete case file/Records etc.
 3. The Manager (RAO-HQ), CSPTCL, Raipur.
 4. The Serial copy for Law Department.
- Encl: Original order copy & Annexure-A
For Sl. No. 2 only.

Received No. 4455
Dt. 23/01/25
SLDC
CSPTCL Raipur
Add. CF
S.E. (MO/EO)
E.E.
A.M. (Fin)


ASST. LAW OFFICER
CSPTCL : RAIPUR



BEFORE THE
CHHATTISGARH STATE ELECTRICITY REGULATORY
COMMISSION, RAIPUR

In the matter of

Petition No. 101/24

And In the matter of

“Petition for Approval of CSLDC CIP for FY 2025-26 under Section 62 and 64 of the Electricity Act, 2003”.

And in the matter of Chhattisgarh State Load Despatch Centre, CSPTCL SLDC, Building, Danganiya, Raipur, 492013. Petitioner

AFFIDAVIT

I, Sharda Sonwani, wife of Dr. Khemraj Sonwani aged 58 years working as Chief Engineer, in the SLDC, CSPTCL, Raipur, do hereby solemnly affirm and state as under:

1. That I am Chief Engineer, in the SLDC, CSPTCL Raipur, fully conversant with the facts of the case and competent to swear this affidavit.
2. That the statement made in all the paragraphs are based on the information available in the records and office records and I believe them to be true.

[Signature]

Deponent

**Chief Engineer (LD)
C.S.Power Trans.Co.Ltd.
Raipur**

VERIFICATION

I, the above named deponent do hereby verify that the contents of above affidavit are true and correct to the information derived from the record maintained in the office of the, CE, Chhattisgarh State Load Despatch Centre, Raipur.

Verified at 27 JAN 2025 on:



**SOLEMNLY AFFIRME
SWORN BEFORE ME
THE WITHIN NAME**

Deponent

**Chief Engineer (LD)
C.S.Power Trans.Co.Ltd.
Raipur**

**M. R. SAHU
Notary / Advocate
Chhattisgarh Nag
RAIPUR. (C.G.)**

Mangy Patel mavel
Signature of Mangy Patel
ALO, SLDC, CSPTCL
Raipur