JOINT ELECTRICITY REGULATORY COMMISSION

Tariff Order

Approval of Business Plan for Multi Year Control Period
from FY 2025-26 to FY 2029-30

For

DNH & DD Power Corporation Ltd. – DNHDDPCL

Petition No. 146 of 2025

8_th August, 2025

JOINT ELECTRICITY REGULATORY COMMISSION
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List of Abbreviations

Abbreviation	Full Form
A&G	Administrative and General
APR	Annual Performance Review
ARR	Aggregate Revenue Requirement
CERC	Central Electricity Regulatory Commission
Cr	Crores
ED,DNH	Electricity Department, UT of Dadra and Nagar Haveli
FY	Financial Year
GFA	Gross Fixed Assets
HT	High Tension
JERC	Joint Electricity Regulatory Commission for the state of Goa and Union Territories
LT	Low Tension
MYT	Multi Year Tariff
O&M	Operation and Maintenance
PGCIL	Power Grid Corporation of India Limited
MCLR	Marginal Cost of Lending Rate
R&M	Repair and Maintenance
RoE	Return on Equity
SBI MCLR	State Bank of India Marginal Cost of Lending Rate
SLDC	State Load Despatch Centre
STOA	Short Term Open Access
TVS	Technical Validation Session
UT	Union Territory

Before the
Joint Electricity Regulatory Commission
For the State of Goa and Union Territories, Gurugram

CORAM

Sh. Alok Tandon – Chairperson

Smt. Jyoti Prasad, Member (Law)

Petition No. 146/2025

Dated: 8th August 2025

In the matter of

Approval for the Business Plan Order for the Multi Year Control Period from FY 2025-26 to FY 2029-30.

And in the matter of

DNH & DD Power Corporation Ltd. – DNHDDPCL. **Petitioner**

ORDER

1. This Order is passed in respect of Petition filed by the DNH and DD Power Corporation Limited (herein after referred to as "The Petitioner" or "DNH and DD Power Corporation Limited" or "The Licensee") for approval of Business Plan Order for the Multi Year Control Period from FY 2025-26 to FY 2029-30 before the Joint Electricity Regulatory Commission (herein after referred to as "The Commission" or "JERC").
2. In exercise of the powers conferred on it by sub-Section (2) of Section 181 read with Section 36, Section 39, Section 40, Section 41, Section 51, Section 61, Section 62, Section 63, Section 64, Section 65 and Section 86 of the Electricity Act, 2003 (36 of 2003) and all other powers enabling it in this behalf, the Joint Electricity Regulatory Commission for the State of Goa and Union Territories (except Delhi), after previous publication, issued the Joint Electricity Regulatory Commission for the State of Goa and Union Territories (Generation, Transmission and Distribution Multi Year Tariff) Regulations, 2024 on 15th October, 2024.
3. In terms of Regulations 8.1 and 17 of the aforesaid Regulations, the Petitioner has

filed a Petition for approval of its Business Plan for the five years Control Period i.e., from FY 2025-26 to FY 2029-30 with details for each year of the Control Period before the Commission. The Petitioner has also filed a Multi Year Tariff Petition for the Control Period on 22nd April, 2025, in terms of Regulation 8.1 of the aforesaid Regulations.

4. The Commission scrutinized the said Petition and generally found it in order. The Commission admitted the Petition on 5th May, 2025. The Commission thereafter requisitioned further information/ clarifications on the data gaps observed to take a prudent view of the said Petition. Further, suggestions/comments were invited from the public/stakeholders. The Public Hearing was held on 18th and 24th June 2025 at Daman & Diu respectively, to enable the stakeholders to raise issues, if any, related to the Petition filed by the Petitioner.
5. The Commission, based on the Petitioner's submission, relevant JERC (MYT Tariff) Regulations, 2024, facts of the matter and after proper due diligence has approved the Business Plan Order for the Control Period from FY 2025-26 to FY 2029-30 which covers the capital investment plan, performance targets, fixation of transmission loss trajectory, etc.
6. A Summary has been provided as follows:
   i. The Commission while allowing capital investment for the control period from FY 2025-26 to FY 2029-30 has duly considered the past performance of the previous control period for allowing scheme-wise capital expenditure and capitalization.
   ii. Now, the Commission in this Order has fixed the transmission loss trajectory along with performance parameters like transmission system availability for the control period from FY 2025-26 to FY 2029-30.
   iii. The Scheme-wise Capital Expenditure and Capitalization as submitted by the Petitioner and approved by the Commission for control period from FY 2025-26 to FY 2029-30 shown in the following table:

Table 1 Capital Investment Plan *(INR Crore)*

S. No.	Particulars	FY 2025-26		FY 2026-27		FY 2027-28		FY 2028-29		FY 2029-30	
		Petitioner's Submission	Approved by Commission	Petitioner's Submission	Approved by Commission	Petitioner's Submission	Approved by Commission	Petitioner's Submission	Approved by Commission	Petitioner's Submission	Approved by Commission
1	Capital Expenditure	284.90	284.90	242.37	212.37	242.35	212.35	220.71	190.71	208.65	168.65
2	Capitalization	181.88	81.85	227.49	72.72	219.47	98.76	119.27	53.76	457.85	147.53

iv. Further, for control period from FY 2025-26 to FY 2029-30, the Commission has approved performance parameters like transmission system availability and transmission loss trajectory as shown in the following table:

Table 2 Loss Trajectory for Control Period from FY 2025-26 to FY 2029-30

S. No.	Particular	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
1	Transmission Loss (%)	1.41%	1.41%	1.41%	1.41%	1.41%
2	Transmission System Availability (%)	99.15%	99.20%	99.25%	99.30%	99.35%

7. Ordered accordingly. The attached documents giving detailed reasons, grounds and conditions are integral part of this Order.

Sd/-
(Jyoti Prasad)
Member (Law)

Sd/-
(Alok Tandon)
Chairperson

(Certified True Copy)

(S. D. Sharma)
Secretary I/c, JERC

Place: Gurugram, Haryana
Date: 8th August, 2025

संयुक्त विद्युत विनियामक आयोग
गोवा राज्य और संघ राज्य क्षेत्र
State of Goa & Union Territories
Joint Electricity Regulatory Commission

Chapter 1: Introduction

1.1 About Joint Electricity Regulatory Commission (JERC)

In exercise of powers conferred by the Electricity Act 2003, the Central Government constituted a Joint Electricity Regulatory Commission for all the Union Territories except Delhi to be known as "the Joint Electricity Regulatory Commission for the Union Territories" vide notification no. 23/52/2003-R&R dated May 2, 2005. Later with the joining of the State of Goa, the Commission came to be known as "Joint Electricity Regulatory Commission for the State of Goa and Union Territories" (hereinafter referred to as "the JERC" or "the Commission") vide notification no. 23/52/2003-R&R (Vol. II) dated May 30, 2008.

JERC is a statutory body responsible for regulation of the Power Sector in the State of Goa and the Union Territories of Andaman & Nicobar Islands, Lakshadweep, Chandigarh, Dadra & Nagar Haveli and Daman & Diu and Puducherry, consisting of generation, transmission, distribution, trading and use of electricity. Its primary objective includes taking measures conducive to the development of the electricity industry, promoting competition therein, protecting interest of consumers and ensuring supply of electricity to all areas.

1.2 About DNH & DD Power Corporation Limited (DNHDDPCL)

As part of the Government of India's broader economic reform agenda under the Aatmanirbhar Bharat Abhiyaan, the Ministry of Power announced the privatization of power departments/utilities in Union Territories (UTs) on May 16, 2020. Aligned with this initiative, the Administration of the Union Territory of Dadra & Nagar Haveli and Daman & Diu (DNH & DD) initiated a comprehensive restructuring and unbundling of its power sector operations.

Pursuant to the policy direction from the Government of India, the Administration of DNH & DD implemented a reorganization plan aimed at improving operational

efficiency, accountability, and customer-centric service delivery in the electricity sector. The key elements of the reorganization are as follows:

- Incorporation of a New Distribution Entity: A new entity, DNH-DD Power Distribution Corporation Limited (DNH-DD PDCL), has been constituted to carry out electricity distribution operations across the UT.
- Asset and Network Transfer: The distribution infrastructure operating at 11 kV and below—previously under the purview of the erstwhile DNHPDCL and ED-DD—has been transferred to DNH-DD PDCL.
- Transmission Functions Realigned: DNHPDCL has been rebranded as DNH and DD Power Corporation Limited (DNHDDPCL) and designated as the transmission licensee for the UT and ED-DD will continue as a transmission licensee and will also be responsible for managing generation, system operations (STU and SLDC), and strategic planning functions within the Daman & Diu region.

This restructuring was formally notified through The Dadra and Nagar Haveli and Daman and Diu Electricity (Reorganisation and Reforms) Transfer Scheme, 2022, via Gazette Notification No. 1(FTS-118044)/Electricity Distribution/Privatisation/ 2022/411 dated 09.03.2022. Concurrently, a policy directive under Sections 108 and 109 of the Electricity Act, 2003, was issued vide Notification No. 1(FTS-118044)/Electricity Distribution/Privatisation/2022/412, effective from April 1, 2022.

To streamline power sector governance and consolidate operational control under a single transmission entity, the Government exercised its powers under Sections 131, 133, and 134 of the Electricity Act, 2003, to transfer the transmission undertakings, including assets, liabilities, personnel, and associated obligations of ED-DNH and ED-DD, to DNHDDPCL.

The updated transfer framework was subsequently notified via The Dadra and Nagar Haveli and Daman and Diu Electricity (Re-organisation and Reforms) Transfer Plan, 2025, through Gazette Notification No. DNHDDPCL/01/2022 /HR&ADMIN/135 dated 28.03.2025, and became effective on April 1, 2025. A revised policy direction was issued simultaneously under Gazette Notification No. DNHDDPCL/01/2022/HR&ADMIN/136.

The electricity transmission network within the Union Territory (UT) of Dadra & Nagar Haveli and Daman & Diu (DNH & DD) is well-integrated and strategically positioned to support the region's industrial load. The current system comprises:

- 69.48 circuit kilometers of 220 kV double-circuit (D/C) transmission lines
- 368.60 kilometers of 66 kV D/C lines

The UT sources power through the following critical grid interface points:

- 400/220 kV PGCIL Substation – Vapi
- 400/220 kV PGCIL Substation – Kala (DNH)
- 220/66 kV Magarwada Substation
- 220/66 kV Ringanwada Substation

Additionally, the island region of Diu is supplied through the 66 kV Una Substation, connected via a 66 kV D/C line from the 220/66 kV Kansari Substation operated by GETCO.

The UT's sub-transmission infrastructure further includes:

- 14 substations (66/11 kV) in Dadra & Nagar Haveli
- 8 substations (66/11 kV) in Daman
- 1 substation (66/11 kV) in Diu

The electricity consumption profile is predominantly industrial, with High Tension (HT) and Low Tension (LT) industrial consumers accounting for approximately 97% of the total energy sales. Based on current growth trends, energy demand is projected to reach ~12,000 Million Units (MUs) by the end of FY 2025–26.

In anticipation of this growing demand, DNHDDPCL has formulated a set of transmission system augmentation and strengthening initiatives aimed at enhancing grid reliability, capacity, and operational efficiency.

The total installed transmission capacity across the UT stands at 2,120 MVA, distributed across key substations as follows:

- Kharadpada – 520 MVA
- Khadoli – 480 MVA
- Vagchipa – 320 MVA
- Magarwada – 520 MVA
- Ringanwada – 260 MVA
- Malala (Diu) – 20 MVA

This transmission backbone forms the critical enabler for supporting the UT's industrial development and ensuring future energy security.

1.3 Multi Year Tariff Regulations, 2024

The Commission notified the Joint Electricity Regulatory Commission for the State of Goa and Union Territories (Generation, Transmission and Distribution Multi Year Tariff) Regulations, 2024 on 15 October, 2024. The said Regulations have been hereinafter referred to as the "JERC MYT Regulations". As per Clause 2.1.22 of these Regulations, the "Control Period" is defined as the multi-year period comprising of five financial years from FY 2025-26 to FY 2029-30.

These Regulations are applicable to all the generation companies and transmission and distribution licensees in the State of Goa and Union Territories of Andaman & Nicobar Islands, Lakshadweep, Chandigarh, Daman & Diu, Dadra & Nagar Haveli and Puducherry.

DNHDDPCL's tariff determination is now governed by "Joint Electricity Regulatory Commission for the State of Goa and Union Territories (Generation, Transmission and Distribution Multi Year Tariff) Regulations, 2024, hereinafter referred to as "JERC MYT Regulations, 2024". The MYT Regulations, 2024 provide a framework for calculating tariffs on a cost-plus basis initially for a period of three years and allow the licensee to recover operational expenses including depreciation, interest on working capital and debt, and return on equity amongst others. The MYT Regulations, 2024 segregate the items impacting tariffs into controllable and uncontrollable factors. Items that are uncontrollable are passed through to the consumers. Further, the MYT Regulations, 2024 identifies the uncontrollable and controllable parameters related to transmission as follows:

Uncontrollable factors include:

(a) Force Majeure events;
(b) Change in Law, judicial pronouncements and Orders of the Central Government, State Government or Commission;
(c) .....;
(d) Transmission loss;
(e) .....;
(f) .....;
(g) .....;
(h) Inflation;
(i) .....;
(j) Variation in market interest rates for long-term loans;
(k) Employee expenses limited to one time payment owing requirements of a pay commission and terminal liability of employees;

(l) Taxes and Statutory levies;

(m) Taxes on income;

(n) Income from the realization of bad debts written off:

Controllable parameters include:

(a) Variations in capitalization on account of time and/or cost overruns/ efficiencies in the implementation of a capital expenditure project not attributable to an approved change in scope of such project, change in statutory levies or force majeure events;

(b) Variation in Interest and Finance Charges, Return on Equity, and Depreciation on account of variation in capitalization, as specified in clause (a) above;

(c) ..... ;

(d) Availability of transmission system;

(e) Variations in performance parameters;

(f) Failure to meet the standards specified in the Joint Electricity Regulatory Commission for the State of Goa & UTs (Standard of Performance for Distribution Licensees) Regulation, 2015, as amended from time to time;

(g) Variations in labour productivity;

(h) Variation in O&M Expenses, except to the extent of inflation;

(i) Bad debts written off;

1.4 Filling and Admission of Present Business Plan Petition

As per Clause 8.1 of the JERC MYT Regulations, the Petitioner is required to file Business Plan Petition for the five year Control Period from FY 2025-26 to FY 2029-30 with details for each year of the Control Period for approval of the Commission.

The DNHDDPCL submitted the current Petition for approval of 'Business Plan for MYT Control Period FY 2025-26 to FY 2029-30 on 24th April, 2025.

After initial scrutiny/analysis, the Petition on Business Plan for the Control Period from FY 2025-26 to FY 2029- 30 was admitted on 5th May, 2025 and was marked as Petition no. 146/2025.

1.5 Interaction with the Petitioner

A preliminary scrutiny/analysis of the Petition was conducted, and certain deficiencies were observed. Accordingly, deficiency notes were issued to the Petitioner. Further, additional information/clarifications were solicited from the Petitioner as and when required. The Commission and the Petitioner also discussed various concerns of the Petitioner and key data gaps, which included scheme-wise capital expenditure and capitalization along with funding of the same, transmission loss trajectory, employee strength, transmission system availability etc. The Petitioner submitted its response on the issues through various letters/emails.

The following table provides the list of interactions with the Petitioner along with the dates:

TABLE 1-1 LIST OF INTERACTIONS WITH THE PETITIONER

S. No.	Subject	Date
1	Receipt of Petition by the Commission	24th April, 2025
2	Admission of the Petition by the Commission	05th May, 2025
3	Deficiency Note issued by the Commission	30th May, 2025
4	Reply to the Deficiency Note received by the Commission	20th June, 2025

1.6 Notice for Public Hearing

Public notices were published by the Petitioner for inviting suggestions/comments from Stakeholders on the Tariff Petition as given below:

TABLE 1-2 DETAILS OF PUBLIC NOTICES PUBLISHED BY THE PETITIONER

S. No.	Name of Newspaper	Date	Place
1	Financial Express (English)	13th May, 2025	Silvassa
2	Silvasa Mirror (English)	13th May, 2025	Silvassa
3	Times of India (Gujarati)	13th May, 2025	Diu
4	Vartaman Pravah (Gujarati)	13th May, 2025	Silvassa

5	Daman Ganga Times (Gujarati)	13th May, 2025	Daman
6	Kesari (Gujarati)	13th May, 2025	Diu
7	Ashali Azadi (Hindi)	13th May, 2025	Daman
8	UT Today (Hindi)	13th May, 2025	Silvassa

The Commission also placed the petition on its website (www.jercuts.gov.in) for information and study for all the stakeholders.

The Commission also issued a notice for public hearing in the following newspapers in order to solicit wider participation by the stakeholders:

TABLE 1-3 LIST OF NEWSPAPERS (COMMISSION)

S. No.	Name of Newspaper	1st Notice Date	2nd Notice Date	3rd Notice Date	Place
1	Janadesh (Gujarati)	22nd May, 2025	6th June, 2025	16th June, 2025	Silvassa
2	Daman Khabar (Hindi)	22nd May, 2025	6th June, 2025	16th June, 2025	Silvassa
3	Vartaman Pravah (Gujarati)	-	-	16th June, 2025	Daman
4	Ashali Azadi (Hindi)	22nd May, 2025	6th June, 2025		Daman & Diu
5	Janadesh (Gujarati)	22nd May, 2025	6th June, 2025	16th June, 2025	Daman & Diu

The Commission received objections/suggestions from the consumers/consumer and examined the objections/suggestions received from the stakeholders and fixed the date for public hearing for the petition on 18th June, 2025 at Daman and on 24th June, 2025 in Diu.

The Commission also published the notice for Public Hearing on the Commission's website www.jercuts.gov.in intimating the date and venues as given in Table 1.3 in order to solicit participation by the stakeholders who have submitted their objections, comments and also by any stakeholders who are interested.

Chapter 2: Summary of Suggestions/Comments received, response from the Petitioner and the Commission's Views

2.1 Regulatory Process

On admitting the Petition, the Commission directed the Petitioner to make copies of the Petition available to the public, upload the petition on its website and also publish the same in the newspapers in shortened form inviting comments from the public as per the provisions of the JERC MYT Regulations, 2024.

The Public hearing was held on 18th June, 2025 from 10.30 AM onwards at Daman and 24th June 2025 from 10:30 A.M onwards at Diu on Petition for the Business Plan including Capital Investment Plan for the Control Period from FY 2025-26 to FY 2029-30. During the Public Hearing, a few of the stakeholders who had submitted their comments in writing were asked to present their views in person before the Commission.

2.2 Suggestions/Comments, Response of the Petitioner and Commission's Views

The commission appreciates the efforts of various stakeholder's in providing their suggestions/comments/observations towards the Electricity transmission sector. The commission has noted the concerns of all the stakeholders and has considered them while finalizing the MYT Tariff Order. The submissions of the stakeholders, response of the Petitioner and views of the Commission are summarized below

Issue 1: Capital Expenditure Plan
Stakeholder's Comment

The objector has objected to the 66/11kV Schemes undertaken by the Petitioner and the pending capital expenditure previously approved by the Commission have not been completed by the Petitioner.

Petitioner's Submission:

The Petitioner has submitted that the proposal for establishing the 66/11 kV GIS Substation at Panchal, Bhimpore (Daman) was technically approved by CEA (Ref: CEA/DPT/UT/Daman/2017/455, dated 20.04.2017) and included in the Hon'ble Commission's Business Plan for FY 2019-20 to FY 2021-22. As DNHDDPDCL took over distribution operations in the UT from 01.04.2022—post-approval—non-compliance with Regulation 3.3 of the JERC Grid Code, 2010 does not arise.

Project execution was initially delayed due to land non-allotment, which has since been resolved. The proposal has been re-submitted under the Business Plan for FY 2025-26 to FY 2029-30. A revised scheme (66/11 kV, 2x20 MVA GIS) was earlier submitted to CEA to account for cost escalation. CEA convened a meeting on 28.05.2025 for discussion. During this process, CEA was informed of the corporatization of the Electricity Department into DNHDDPDCL, and that the Corporation holds the authority for all technical and financial approvals. Subsequently, the proposal was withdrawn from CEA and placed before the Board of Directors, which approved it on 27.06.2025 with a sanctioned cost of ₹50.40 crore.

Additionally, as per the Dadra and Nagar Haveli and Daman and Diu Electricity Transfer Scheme, 2022 (notified on 11.03.2022), all 11 kV and below assets were transferred to DNHDDPDCL. Consequently, 51% shareholding was transferred to Torrent Power Ltd., while 49% remains with the UT Administration. Assets above 11 kV remain under the State Transmission Utility (STU) of the UT.

JERC (State of Goa and Union Territories (UTs) Electricity Supply Code Regulations) 2018 and its amendments wherein Distribution and Transmission system has been defined as follows:

> *"2.3 (31) "Distribution system" means the system of wires and associated facilities between the delivery points on the transmission lines or the generating station connection and the point of connection to the installation of the consumers; Explanation: Any system consisting*

mainly of overhead lines, underground cables, service lines, electrical plant, control switchgear and meters having design voltage of 33 kV and below and shall also include any other system of higher voltage as the Commission may specifically recognize. The Distribution System shall not include any part of the Transmission System except the terminal equipment (metering system, CT and PT) connected at consumer end and used for the supply of electricity to extra high voltage (66 kV and above) consumers;

"2.3 (70) "Transmission System" means the system consisting of EHV electric lines being operated at EHV (excluding generator interconnection facilities) owned and/or operated by the Transmission Licensee for the purposes of transmission of electricity from one power station to a sub-station or to another power station or between sub-stations or to or from any external interconnection equipment up to the interconnection with the distribution system and includes the plant and apparatus and meters owned or used by the Transmission Licensee in connection with the transmission of electricity, but shall not include any part of any Licensee's distribution system;

"2.3 (36) "Extra High Voltage (EHV)" or "Extra High Tension (EHT)" means a voltage exceeding 33000 Volts;

DNHDDPDCL has proposed to develop a 33 kV and above network in the UT of Dadra & Nagar Haveli and Daman & Diu. Currently, there is no 33 kV network in operation within the UT. As per the JERC (State of Goa and UTs) Electricity Supply Code Regulations, 2018 (and subsequent amendments), systems above 33 kV are categorized under the Transmission System.

In its affidavit filed under Petition No. 121/2024, DNHDDPDCL (a subsidiary of Torrent Power Ltd.) confirmed the absence of a 33 kV network in the UT. It clarified that in the event of a consumer requiring supply at the 33 kV level, the Transmission Utility would facilitate necessary infrastructure at existing 66/11 kV substations to enable power supply at that level.

Responses to Key Objections/Suggestions:

i) 220/66 kV GIS Substation – Dabhel, Daman:

Originally approved by the Hon'ble Commission under the Business Plan for FY 2019-20 to FY 2021-22, the project was conceptualized by the erstwhile Electricity Department, DD, prior to the formation of DNHDDPDCL. While the implementation was delayed due to evolving load requirements, the proposal has been resubmitted under the Business Plan for FY 2025-26 to FY 2029-30.

ii) 220/66/11 kV Substation – Sayli:

Approved in the 50th Board Meeting of DNHDDPDCL held on 27.06.2025 with a project cost of ₹150.51 crore. Land for the project has now been allotted by the UT Administration. Although previously approved under an earlier Business Plan, execution was deferred due to land unavailability. With land now secured, execution will commence post completion of codal formalities.

iii) 66/11 kV Substations (Multiple Locations):

Several 66/11 kV substations approved by JERC during the MYT period FY 2016-17 to FY 2018-19 could not be executed earlier due to non-availability of land. These projects have now been re-submitted for Commission's approval under the upcoming MYT period (FY 2025-26 to FY 2029-30) following land allotment by the UT Administration.

Commission's Analysis:

In accordance with the JERC MYT Tariff Regulations, 2024, the Commission disallows the proposed schemes (i.e. Establishment of 220/66/11kV New Sayli, Substation, Erection of 2 nos. of 220kV bays along with associated 220kV D/C tower line (1.6 km) at 220kV Sayli substation, Establishment of 2x20MVA, 66/11KV GIS Sub-Station at Transport Nagar, Bhimpore, Daman) in which capitalisation exceeds

the threshold limit of 50 Crore CAPEX outlay, while allowing the Petitioner to go for TBCB route for the above disallowed schemes. Further, the remaining schemes which have CAPEX outlay within the range of 50 Crore are approved in principle, subject to the condition that the Petitioner obtains scheme-wise approval along with the corresponding DPRs and all requisite documentation as mandated under the MYT Regulations, 2024.

Issue 2: Upgradation of Existing Metering System:
Stakeholder's Comment:

The Objector submitted that DNHDDPCL should upgrade its existing metering infrastructure to enable accurate measurement of power supply and losses, noting that Automated Meter Reading (AMR) has been implemented on select feeders, but not across the entire network.

Petitioners' Submission:

It is submitted that DNHDDPCL has provided AMR in some of the feeders. The remaining installation of AMR meters on feeders of all the existing sub-station will be completed in due-course.

Commission Analysis:

The Commission has taken note of the objector's suggestion and emphasizes that feeder metering is critical for accurate energy accounting. Without it, precise assessment of transmission losses is not possible. Accordingly, the Commission directs the Petitioner to take immediate and appropriate steps to ensure the installation of AMR meters at all incoming and outgoing points of feeders across all voltage levels.

Chapter 3: Business Plan for MYT Control Period FY 2025-26 to FY 2029-30

3.1 Background

The Commission has notified the Joint Electricity Regulatory Commission for the State of Goa and Union Territories (Generation, Transmission and Distribution Multi Year Tariff) Regulations, 2024 on 15th October, 2024. The said Regulations have been hereinafter referred to as the "JERC MYT Regulations". As per Clause 2.1.22 of these Regulations, the "Control Period" is defined as the multi-year period comprising of five financial years from FY 2025-26 to FY 2029-30.

Pursuant to the above, the Petitioner has filed the present Petition before the Commission for the Capital Investment Plan approval for the Control Period from FY 2025-26 to FY 2029-30.

As per Regulation 8.4 of the JERC (Generation, Transmission and Distribution Multi Year Tariff) Regulations, 2024, the Business Plan Petition filed for the Transmission Company shall include as follows:

> *"8.4 The Business Plan filed by the **Transmission Licensee** shall inter-alia contain:*
>
> *a) Projections for the growth of load in the transmission network;*
>
> *b) (i) **Capital Investment Plan** for each Year of the Control Period commensurate with load growth, transmission loss reduction trajectory and quality improvement measures proposed in the Business Plan in accordance with Regulation 8.6;*
>
> *Provided that the Capital Investment Plan of the Transmission System of 66kV & above voltage level shall take into account schemes costing below the threshold limit as given below:*

Provided further that the Capital Investment Plan of Transmission System of 66kV & above voltage level exceeding the threshold limit as mentioned in the above proviso shall be done through Tariff Based Competitive Bidding (TBCB).

c) ***Capital Structure*** *of each scheme proposed and the cost of financing (interest on debt and return on equity), terms of the existing loan agreements, etc.;*

d) ***Performance Targets*** *items such as transmission loss, availability of transmission system, transformer failure rate, and any other parameters for quality of supply for each year of the Control Period, consistent with the Capital Investment Plan proposed by the Transmission Licensee;*

e) ***Projections for number of employees*** *during each Year of the Control Period based on proposed recruitments and retirement;*

f) ***Proposals in respect of income from Other Business*** *for each Year of the Control Period.*

....."

This chapter deals with the Capital Investment Plan for FY 2025-26 to FY 2029-30 for DNHDDPCL. The Commission has studied and analysed each scheme as proposed by the Petitioner in the following paragraphs.

3.2 Approach for approval of Capital Investment Plan

The Petitioner has submitted the scheme-wise capital expenditure plan along with capitalisation plan for each year of the control period from FY 2025-26 to FY 2029-30. The Commission has reconciled such CAPEX schemes with the CAPEX schemes approved in previous Business Plan Orders. On reconciliation, the commission has found the some of the schemes proposed in this control period had also been approved in the previous control period of FY 2019-20 to FY 2021-22 as well as in the control period FY 2022-23 to FY 2024-25. The Commission has taken serious note of it. Accordingly, the Commission has taken a decision to accord, in principle

approval of CAPEX subject to the condition that the Petitioner shall obtain scheme wise approval separately filing with DPR and other relevant documents adhering MYT Regulations, 2024 and limited to the original approved CAPEX without allowing cost over-run in any of the circumstance. The Commission has now carried out the approval of scheme-wise capital investment plan for each year of the Control Period from FY 2025-26 to FY 2029-30 in accordance with the principles laid down in JERC MYT Regulations, 2024.

3.3 Capital Investment Plan of DNHDDPCL

Petitioner's Submission:

The Petitioner has submitted CAPEX Plan proposals (scheme wise) for FY 2025-26 to FY 2029-30 under the MYT Control Period FY 2025-30.

The summary of capital expenditure projections for the upcoming Control Period is given in the following table:

TABLE 3-1 CAPEX PLAN PROPOSED BY THE PETITIONER FOR SILVASA FOR CONTROL PERIOD *(RS. CRORE)*

S. No.	Particulars	Total Amount	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
1.	Establishment of 220/66/11kV New Sayli, Substation	130.00	0.00	30.00	30.00	30.00	40.00
2.	Erection of 2 nos. of 220kV bays along with associated 220kV D/C tower line (1.6 km) at 220kV Sayli substation	16.90	7.50	9.40	0.00	0.00	0.00
3.	Conversion of 66kV Single bus arrangement to Double bus arrangement at 66kV side of 220/66kV Substation at village Khadoli	10.00	2.00	5.00	3.00	0.00	0.00
4.	Augmentation of 220/66KV Khadoli sub-station from 3x160MVA to 4x160MVA with associates 220KV & 66 KV bay In the UT of D&NH, Silvassa.	30.40	0.00	0.00	15.00	15.40	0.00
5.	Augmentation of 220/66KV Kharadpada sub-station from 520 MVA to 640 MVA in the UT of D&NH, Silvassa.	44.06	0.00	20.00	24.06	0.00	0.00

S. No.	Particulars	Total Amount	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
6.	Providing SCADA at 220/66kV Kharadpada substation	13.56	6.00	7.56	0.00	0.00	0.00
7.	Providing SCADA at 220kV New Kharadpada substation	0.74	0.35	0.39	0.00	0.00	0.00
8.	Conversion of 220kV Kala-Khadoli D/c line from Zebra to TACSR 370 sqmm. conductor (6.8 km)	9.37	0.00	4.50	4.87	0.00	0.00
9.	Augmentation of 220/66KV Vaghchipa sub-station from 2x160MV A to 3x160MVA with associates 220KV bay and 66KV Bay in the UT of DNH and DD.	30.33	23.33	0.00	0.00	0.00	0.00
10.	Replacement / Upgradation of SCADA / EMS System at SLDC, Silvassa	35.00	17.50	17.50	0.00	0.00	0.00
11.	Supply installation testing and commissioning of OPGW 24F cable along with hard ware & accessories for replacement existing earth wire of 220 KV Kala to Khadoli S/s for real time SCADA data availability at SLDC-DNH.	1.00	0.50	0.50	0.00	0.00	0.00
12.	Establishment of new 66/11 KV Substation at Dapada	36.64	6.00	15.32	15.32	0.00	0.00
13.	Strengthening of 66 KV Transmission lines from 220/66 KV Khadoli Substation to 66/11 KV Khadoli Substation.	4.57	3.05	1.52	0.00	0.00	0.00
14.	Erection of approach road for 66 KV Switchyard & Transformers at 66/11 KV Khadoli Substation	0.38	0.38	0.00	0.00	0.00	0.00
15.	Erection of two 66KV Transmission circuits (Hotline) from 220KV Khadoli S/s to 66KV Kala/Velugam circuit divergence point to strengthen the transmission network of 66/11 KV kala and velugam Substations.	8.91	0.00	3.56	5.35	0.00	0.00
16.	Erection of compound wall at 66/11 KV Khadoli Substation	1.05	1.05	0.00	0.00	0.00	0.00
17.	Erection of compound wall at 66/11 KV Khanvel Substation	0.15	0.15	0.00	0.00	0.00	0.00
18.	Augmentation of 66/11kV Gas Insulated Substation at Zanda	5.61	2.24	3.37	0.00	0.00	0.00

S. No.	Particulars	Total Amount	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
	Chowk, Silvassa from 2 x 20 MVA to (2 x 20 MVA + 1 x 31.5 MVA) with associated 66kV GIS bays in th UT of D& NH, Silvassa						
19.	Conversion of 66kV D/C Madhuban- Motaponda line by 66kV , 1Cx300 sqmm. cable near LN Helipad, village Sayli	3.47	0.00	1.00	2.47	0.00	0.00
20.	Supply, Erection, Testing, commissioning of 2 X 20 MVA, 66/11KV GIS Sub - Station at Naroli Check post, Silvassa and Erection of 66KV D/C Transmission Line from LILO point at M/S CMC, Naroli Check post on 66KV Kharadpada - Amli Line to Naroli Check Post. (Line length - 2 Km, 12 Nos of D/C Tower)	49.23	0.00	0.00	10.00	20.00	19.23
21.	Supply, Erection, Testing and commissioning of new 20 MVA 66/11kV Power Transformer along with bay and panels at 66/11kV Athal Sub - Station.	4.32	4.32	0.00	0.00	0.00	0.00
22.	Extension of Control Room Building at 66/11KV Masat Sub - Station.	0.45	0.45	0.00	0.00	0.00	0.00
23.	Supply, Erection, Testing and commissioning of 2 X 20 MVA 66/11kV GIS Sub - Station at Village Dadra with new D/C Transmission Line from LILO point at Lavachha on 66KV Kharadpada - Dadra Line to Dadra Sub - Station.	49.25	10.00	20.00	19.25	0.00	0.00
24.	Supply, Erection, Testing and commissioning of 2 X 20 MVA 66/11kV GIS Sub - Station at Kuvapada, Village Silli with new D/C Transmission Line from Silli Sub - Station.	48.69	0.00	0.00	10.00	15.00	23.69
25.	Supply, Erection, Testing and commissioning of new 20 MVA 66/11kV Power Transformer at 66/11kV Piparia Sub - Station.	4.32	2.00	2.32	0.00	0.00	0.00

S. No.	Particulars	Total Amount	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
26.	Supply, Erection, Testing and commissioning of new 20 MVA 66/11kV Power Transformer at 66/11kV Waghdhara Sub - Station.	4.50	2.00	2.50	0.00	0.00	0.00
27.	New 66kV Multi Circuit Tower Line from 220/66kV Sub - Statin, Vaghchhipa to Tapping point at Lavachha on 66kV Kharadpada - Dadra Line.	10.27	0.00	2.00	2.00	6.27	0.00
28.	Extension of Control Room Building at 66/11KV Silli Sub - Station.	2.20	0.00	1.00	1.20	0.00	0.00
29.	Extension of Control Room Building at 66/11KV Waghdhara Sub - Station.	1.70	0.00	1.00	0.70	0.00	0.00
30.	Replacement and Strengthening of 11 kV Incomer Panel along with Feeder Pane and Bus Coupler at 66/11 kV Masat Sub-Station	4.14	4.14	0.00	0.00	0.00	0.00
31.	Procurement of 31.5 MVA Power Transformer	40.00	40.00	0.00	0.00	0.00	0.00
32.	Erection of Bays and other equipment for installation commissioning of 31.5 Power Transformer	36.00	36.00	0.00	0.00	0.00	0.00
33.	New 66/11 kV Sub-Station building at Dadra and shifting of equipments	12.00	12.00	0.00	0.00	0.00	0.00
34.	Replacement of existing conductor with high ampacity conductor and erection of 66 KV tower due to low ground clearance of conductor of existing 66 KV Kharadpada-Dadra-Wagdhara line	6.50	6.50	0.00	0.00	0.00	0.00
35.	Supply, Erection, Testing and Commissioning of 66/11.55 KV 20MVA Power Transformer along with Bay and Panels at 66/11 KV Kala Sub-station	4.71	4.71	0.00	0.00	0.00	0.00
36.	66KV D/C Transmission line from Silli s/s to 66KV GIS Kuvapada, Silli along with 66KV outgoing feeder bay at Silli S/s	21.44	0.00	0.00	10.00	8.00	3.44

S. No.	Particulars	Total Amount	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
37.	Erection of various line work, sub-station equipment, 220 KV Tower Strengthening work, office equipment, IT equipment and other misc. under Normal Development scheme	44.00	10.00	8.00	8.00	8.00	10.00
	Total	**725.84**	**202.17**	**156.44**	**161.22**	**102.66**	**96.36**

The capitalisation schedule proposed by the petitioner during the Control Period is as follows:

TABLE 3-2 CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER *(RS. CRORE)*

S. No.	Name of Scheme	Total Amount	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
1.	Establishment of 220/66/11kV New Sayli, Substation	130.00	0.00	0.00	0.00	0.00	130.00
2.	Erection of 2 nos. of 220kV bays along with associated 220kV D/C tower line (1.6 km) at 220kV Sayli substation	16.90	0.00	16.90	0.00	0.00	0.00
3.	Conversion of 66kV Single bus arrangement to Double bus arrangement at 66kV side of 220/66kV Substation at village Khadoli	10.00	0.00	0.00	10.00	0.00	0.00
4.	Augmentation of 220/66KV Khadoli sub-station from 3x160MVA to 4x160MVA with associates 220KV & 66 KV bay In the UT of D&NH, Silvassa.	30.40	0.00	0.00	0.00	30.40	0.00
5.	Augmentation of 220/66KV Kharadpada sub-station from 520 MVA to 640 MVA in the UT of D&NH, Silvassa.	44.06	0.00	0.00	44.06	0.00	0.00
6.	Providing SCADA at 220/66kV Kharadpada substation	13.56	0.00	13.56	0.00	0.00	0.00
7.	Providing SCADA at 220kV New Kharadpada substation	0.74	0.00	0.74	0.00	0.00	0.00
8.	Conversion of 220kV Kala-Khadoli D/c line from Zebra to	9.37	0.00	0.00	9.37	0.00	0.00

S. No.	Name of Scheme	Total Amount	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
	TACSR 370 sqmm. conductor (6.8 km)						
9.	Augmentation of 220/66KV Vaghchipa sub-station from 2x160MV A to 3x160MVA with associates 220KV bay and 66KV Bay in the UT of DNH and DD.	30.33	30.33	0.00	0.00	0.00	0.00
10.	Replacement / Upgradation of SCADA / EMS System at SLDC, Silvassa	35.00	0.00	35.00	0.00	0.00	0.00
11.	Supply installation testing and commissioning of OPGW 24F cable along with hard ware & accessories for replacement existing earth wire of 220 KV Kala to Khadoli S/s for real time SCADA data availability at SLDC-DNH.	1.00	0.00	1.00	0.00	0.00	0.00
12.	Establishment of new 66/11 KV Substation at Dapada	36.64	0.00	0.00	36.64	0.00	0.00
13.	Strengthening of 66 KV Transmission lines from 220/66 KV Khadoli Substation to 66/11 KV Khadoli Substation.	4.57	0.00	4.57	0.00	0.00	0.00
14.	Erection of approach road for 66 KV Switchyard & Transformers at 66/11 KV Khadoli Substation	0.38	0.38	0.00	0.00	0.00	0.00
15.	Erection of two 66KV Transmission circuits (Hotline) from 220KV Khadoli S/s to 66KV Kala/Velugam circuit divergence point to strengthen the transmission network of 66/11 KV kala and velugam Substations.	8.91	0.00	0.00	8.91	0.00	0.00
16.	Erection of compound wall at 66/11 KV Khadoli Substation	1.05	1.05	0.00	0.00	0.00	0.00
17.	Erection of compound wall at 66/11 KV Khanvel Substation	0.15	0.15	0.00	0.00	0.00	0.00
18.	Augmentation of 66/11kV Gas Insulated Substation at Zanda Chowk, Silvassa from 2 x 20 MVA to (2 x 20 MVA + 1 x 31.5	5.61	0.00	5.61	0.00	0.00	0.00

S. No.	Name of Scheme	Total Amount	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
	MVA) with associated 66kV GIS bays in th UT of D& NH, Silvassa						
19.	Conversion of 66kV D/C Madhuban- Motaponda line by 66kV, 1Cx300 sqmm. cable near LN Helipad, village Sayli	3.47	0.00	0.00	3.47	0.00	0.00
20.	Supply, Erection, Testing, commissioning of 2 X 20 MVA, 66/11KV GIS Sub - Station at Naroli Check post, Silvassa and Erection of 66KV D/C Transmission Line from LILO point at M/S CMC, Naroli Check post on 66KV Kharadpada - Amli Line to Naroli Check Post. (Line length - 2 Km, 12 Nos of D/C Tower)	49.23	0.00	0.00	0.00	0.00	49.23
21.	Supply, Erection, Testing and commissioning of new 20 MVA 66/11kV Power Transformer along with bay and panels at 66/11kV Athal Sub - Station.	4.32	4.32	0.00	0.00	0.00	0.00
22.	Extension of Control Room Building at 66/11KV Masat Sub - Station.	0.45	0.45	0.00	0.00	0.00	0.00
23.	Supply, Erection, Testing and commissioning of 2 X 20 MVA 66/11kV GIS Sub - Station at Village Dadra with new D/C Transmission Line from LILO point at Lavachha on 66KV Kharadpada - Dadra Line to Dadra Sub - Station.	49.25	0.00	0.00	49.25	0.00	0.00
24.	Supply, Erection, Testing and commissioning of 2 X 20 MVA 66/11kV GIS Sub - Station at Kuvapada, Village Silli with new D/C Transmission Line from Silli Sub - Station.	48.69	0.00	0.00	0.00	0.00	48.69
25.	Supply, Erection, Testing and commissioning of new 20 MVA 66/11kV Power	4.32	0.00	4.32	0.00	0.00	0.00

S. No.	Name of Scheme	Total Amount	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
	Transformer at 66/11kV Piparia Sub - Station.						
26.	Supply, Erection, Testing and commissioning of new 20 MVA 66/11kV Power Transformer at 66/11kV Waghdhara Sub - Station.	4.50	0.00	4.50	0.00	0.00	0.00
27.	New 66kV Multi Circuit Tower Line from 220/66kV Sub - Statin, Vaghchhipa to Tapping point at Lavachha on 66kV Kharadpada - Dadra Line.	10.27	0.00	0.00	0.00	10.27	0.00
28.	Extension of Control Room Building at 66/11KV Silli Sub - Station.	2.20	0.00	0.00	2.20	0.00	0.00
29.	Extension of Control Room Building at 66/11KV Waghdhara Sub - Station.	1.70	0.00	0.00	1.70	0.00	0.00
30.	Replacement and Strengthening of 11 kV Incomer Panel along with Feeder Pane and Bus Coupler at 66/11 kV Masat Sub-Station	4.14	4.14	0.00	0.00	0.00	0.00
31.	Procurement of 31.5 MVA Power Transformer	40.00	40.00	0.00	0.00	0.00	0.00
32.	Erection of Bays and other equipment for installation commissioning of 31.5 Power Transformer	36.00	36.00	0.00	0.00	0.00	0.00
33.	New 66/11 kV Sub-Station building at Dadra and shifting of equipments	12.00	12.00	0.00	0.00	0.00	0.00
34.	Replacement of existing conductor with high ampacity conductor and erection of 66 KV tower due to low ground clearance of conductor of existing 66 KV Kharadpada-Dadra-Wagdhara line	6.50	6.50	0.00	0.00	0.00	0.00
35.	Supply, Erection, Testing and Commissioning of 66/11.55 KV 20MVA Power Transformer along with Bay and Panels at 66/11 KV Kala Sub-station	4.71	4.71	0.00	0.00	0.00	0.00

S. No.	Name of Scheme	Total Amount	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
36.	66KV D/C Transmission line from Silli s/s to 66KV GIS Kuvapada, Silli along with 66KV outgoing feeder bay at Silli S/s	21.44	0.00	0.00	0.00	0.00	21.44
37.	Erection of various line work, sub-station equipment, 220 KV Tower Strengthening work, office equipment, IT equipment and other misc. under Normal Development scheme	44.00	10.00	8.00	8.00	8.00	10.00
	Total	**725.84**	**150.03**	**94.20**	**173.59**	**48.66**	**259.36**

Commission's Analysis:

The Commission appreciates the Petitioner's efforts to upgrade and modernize its existing transmission system. However, the Commission observes that despite Commission's directive for quarterly submission of CAPEX and Capitalisation report the Petitioner has not updated the Commission regarding the execution and completion of the schemes undertaken by it in the existing Control Period on a quarterly basis. The Commission directs the petitioner to ensure submission of progress of each scheme on a quarterly basis as per Clause 8.6 (f) of the JERC MYT Regulations:

> *"8.6. Capital Investment Plan/Additional Capital Investment Plan*
>
> *8.6.(f) The Licensee shall* ***submit a report for every quarter*** *detailing the progress of the capital expenditure and capitalization undertaken against the proposed in the Capital Investment Plan, on or before the last Day of the month succeeding the respective quarter for review by the Commission.*

The Commission, advises the Petitioner that if it is found that the Petitioner consistently fails to execute the approved capital expenditure and capitalisation during each quarter or if the Petitioner fails to provide the above reports on time,

the Commission would be constrained to take appropriate action in accordance with Electricity Act'2003.

Before approving the capital expenditure and capitalisation of schemes for the next Control Period FY 2025- 26 to FY 2029-30, the Commission has analysed the actual status of the schemes approved in the Business Plan for the previous Control Period FY 2022-23 to FY 2024-25.

Based on the Petitioner's submissions and the overall approach discussed herein, the scheme wise analysis of proposed capital expenditure plan by the Commission is as given in subsequent sections.

3.4 Establishment of New 220/66/11 kV Sub-station at Village Sayli, D&NH

Petitioner's Submission:

The Petitioner submits that the Union Territory of Dadra and Nagar Haveli currently receives power at 400 kV and 220 kV levels via the Western Grid through PGCIL infrastructure, including a dedicated 400/220 kV, 2x315 MVA substation at Kala and an additional 400/220 kV, 3x315 MVA substation at Vapi. The existing ISTS network and transformation capacities are presently adequate to meet the region's load demand and foreseeable future growth.

However, the downstream 66/11 kV network—specifically at Khadoli, Masat, and Sili substations—has been experiencing frequent outages due to overloading of the 66 kV interconnecting lines. In view of these operational constraints, the Electricity Department (Transmission Division) has proposed the establishment of a new 220/66/11 kV, 2x160 MVA substation at Sayli village. This strategic intervention is aimed at load redistribution, enhancing network reliability, and achieving N-1 contingency compliance within the 66 kV system.

The capital expenditure details w.r.t. the scheme submitted by the Petitioner in its Petition is given below:

TABLE 3-3 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Establishment of New 220/66/11kV Sayli, Substation	130.00	0.00	30.00	30.00	30.00	40.00
Year Wise Capitalisation							
1	Establishment of New 220/66/11kV Sayli, Substation	130.00	0.00	0.00	0.00	0.00	130.00

Commission's Analysis:

In accordance with the provisions stipulated under Regulation 8.4(b), a clearly specified the threshold limit is there in relation to the Capital Investment Plan for transmission systems operating at voltage levels of 66kV and above. Specifically, any investment proposal exceeding a capital cost of Rs. 50 Crore is mandated to be implemented exclusively through the Tariff-Based Competitive Bidding (TBCB) route. The relevant excerpt from the aforementioned regulation is reproduced below for ease of reference:

> *"8.4. The Business Plan filed by the Transmission Licensee shall inter-alia contain:*
>
> .....
>
> *Provided that the Capital Investment Plan of Transmission System of 66kV & above voltage level shall take into account schemes costing below threshold limit as given below:*

State/UT	*Threshold Limit*
Goa/Chandigarh/ Dadra & Nagar Haveli and Daman & Diu i.e., (DNHDD)	*Rs. 50 Crore*
Puducherry	*Rs. 25 Crore*

> *Provided further that the Capital Investment Plan of Transmission System of 66kV & above voltage level exceeding the threshold limit as mentioned in the*

above proviso shall be done through Tariff Based Competitive Bidding (TBCB).

The Petitioner has submitted that in its 50th BOD meeting held on 27.06.2025, the estimate of 220/66/11 kV Sayali substation has been revised to 150.51 Crore.

In light of the foregoing regulatory provisions and in alignment with the stipulated guidelines under Regulation 8.4(b), the Commission has taken a considered view not to accord approval to the proposed scheme under the current submission. Accordingly, it is advised that the said scheme be undertaken through the Tariff-Based Competitive Bidding (TBCB) mechanism, as per the applicable regulatory framework.

3.5 Erection of 2 nos. 220kV bays along with associated 220kV D/C tower line (1.6km) at 220kV Sayli Sub-station

Petitioner's Submission:

The Petitioner has submitted that a 220 kV switching station at New Kharadapada was commissioned in 2013 by LILO of the 220 kV Vaghchipa–Khadoli ISTS line to supply power to 220 kV Alok Industries Ltd. In 2024, under the Mumbai Urja Marg project (WRSS-XIX & NERSS-IX), this LILO line was replaced by a 220 kV D/C tower line, now terminating at the Alok switching station and serving only one EHV consumer. As a result, the D/C line operates as a dead end, underutilizing its HTLS conductor capacity.

To optimize this infrastructure, the Department proposes to synchronize the D/C line with the existing ISTS network by constructing two 220 kV line bays and a 1.6 km 220 kV D/C tower line at the 220 kV Sayli substation. This will enable effective load sharing and enhance transmission system reliability.

TABLE 3-4 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Erection of 2 nos. of 220kV bays alongwith associated 220kV D/C tower line (1.6 km) at 220kV Sayli substation	16.90	7.50	9.40	0.00	0.00	0.00
Year Wise Capitalisation							
1	Erection of 2 nos. of 220kV bays alongwith associated 220kV D/C tower line (1.6 km) at 220kV Sayli substation	16.90	7.50	9.40	0.00	0.00	0.00

Commission's Analysis:

The Commission has reviewed the Petitioner's submission and notes that the reconfiguration of the 220 kV D/C line under WRSS-XIX & NERSS-IX has resulted in underutilization of the HTLS conductor, currently catering to a single EHV consumer. However, the proposed construction of two 220 kV line bays and a 1.6 km D/C tower line is at proposed Sayli substation which has not been approved in this Order being beyond the threshold limit as discussed in para 3.4 of this Order. In view of the above, as the above proposed scheme is associated with creation of Sayli substation which has already been disallowed by the Commission in its para 3.4 of this order due to exceeding Capital Cost beyond the threshold limit of 50 Crore, therefore the Commission disallows the proposed scheme proposed associated with 220kV DC Tower line (1.6km) at Sayli sub-station. However, the Petitioner has liberty to file this scheme before the Commission for approval along with DPR and detailed justification separately whenever the Sayli substation establishment scheme is awarded under TBCB.

The Commission does not approve CAPEX of Rs. 16.90 Crore for Control Period.

3.6 Conversion of 66kV Single bus arrangement to Double bus arrangement at 66kV side of 220/66kV Sub-station at village Khadoli

Petitioner's Submission:

The Petitioner has submitted that the Electricity Department, Transmission Division, commissioned the 2x160 MVA, 220/66kV Khadoli Sub-station in 2008 to serve the South Zone of Dadra and Nagar Haveli. Due to continuous industrial growth, the transformers reached over 70% loading within eight years, compromising N-1 contingency compliance.

To address this, the sub-station was augmented to 3x160 MVA, with the third transformer commissioned in 2018. However, with sustained industrial expansion, similar loading challenges have re-emerged, again impacting N-1 reliability.

Accordingly, the Department now proposes further augmentation of the sub-station to 4x160 MVA to ensure reliable power supply and maintain N-1 contingency standards.

TABLE 3-5 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Conversion of 66kV Single bus arrangement to Double bus arrangement at 66kV side of 220/66kV Substation at village Khadoli	10.00	2.00	5.00	3.00	0.00	0.00
Year Wise Capitalisation							
1	Conversion of 66kV Single bus arrangement to Double bus arrangement at 66kV side of 220/66kV Substation at village Khadoli	10.00	0.00	0.00	10.00	0.00	0.00

Commission's Analysis:

The Commission has reviewed the submission and notes that the current bus arrangement at the 220/66 kV Khadoli substation limits flexibility due to load

interruption during transfers. The proposed upgrade to a Double Bus Bar scheme with bypass isolators offers improved reliability and uninterrupted operation. Accordingly, the proposed CAPEX is found justified and approved as detailed below:

TABLE 3-6 CAPEX APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Conversion of 66kV Single bus arrangement to Double bus arrangement at 66kV side of 220/66kV Substation at village Khadoli	10.00	2.00	5.00	3.00	0.00	0.00

3.7 Augmentation of 220/66kV Khadoli sub-station from 3x160 MVA to 4x160 MVA with associates 220kV & 66kV bay in the UT of D&NH, Silvassa

Petitioner's Submission:

The Petitioner has submitted that the Electricity Department, Transmission Division, commissioned the 2x160 MVA, 220/66kV Khadoli Sub-station in 2008 to serve the South Zone of Dadra and Nagar Haveli. Due to continuous industrial growth, the transformers reached over 70% loading within eight years, compromising N-1 contingency compliance.

To address this, the sub-station was augmented to 3x160 MVA, with the third transformer commissioned in 2018. However, with sustained industrial expansion, similar loading challenges have re-emerged, again impacting N-1 reliability.

Accordingly, the Department now proposes further augmentation of the sub-station to 4x160 MVA to ensure reliable power supply and maintain N-1 contingency standards.

TABLE 3-7 CAPITAL EXPENDITURE & CAPATILIZATION CLAIMED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Augmentation of 220/66KV Khadoli sub-station from 3x160MVA to 4x160MVA with associates 220KV & 66 KV bay In the UT of D&NH, Silvassa.	30.40	0.00	0.00	15.00	15.40	0.00
Year Wise Capitalisation							
1	Augmentation of 220/66KV Khadoli sub-station from 3x160MVA to 4x160MVA with associates 220KV & 66 KV bay In the UT of D&NH, Silvassa.	30.40	0.00	0.00	0.00	30.40	0.00

Commission's Analysis:

The Commission has reviewed the submission and notes that sustained industrial growth has led to recurring N-1 contingency challenges at the 220/66 kV Khadoli sub-station, despite previous augmentation. The proposed upgrade to 4x160 MVA is a justified system-strengthening measure to ensure reliability. The CAPEX is accordingly approved.

TABLE 3-8 CAPEX APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Augmentation of 220/66KV Khadoli sub-station from 3x160MVA to 4x160MVA with associates 220KV & 66 KV bay In the UT of D&NH, Silvassa.	30.40	0.00	0.00	15.00	15.40	0.00

3.8 Augmentation of 220/66kV Kharadpada Sub-station from 520 MVA to 640 MVA in the UT of D&NH, Silvassa

Petitioner's Submission:

The Petitioner has submitted that the Electricity Department, Transmission Division, commissioned the 4x100 MVA, 220/66kV Kharadpada Sub-station between 2000 and 2002 to serve the industrial load in the North Zone of the UT of Dadra & Nagar Haveli. Over time, industrial growth led to transformer loading exceeding 70%, compromising N-1 contingency standards.

To address this, the Department augmented the sub-station capacity to 520 MVA in 2014 by replacing 2x100 MVA transformers with 2x160 MVA units. However, due to continued industrial expansion, similar loading challenges have re-emerged, again affecting N-1 reliability.

Accordingly, the Department now proposes further augmentation by replacing the remaining 2x100 MVA transformers with 2x160 MVA units to enhance system reliability and meet growing demand.

TABLE 3-9 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Augmentation of 220/66KV Kharadpada sub-station from 520 MVA to 640 MVA in the UT of D&NH, Silvassa.	44.06	0.00	20.00	24.06	0.00	0.00
Year Wise Capitalisation							
1	Augmentation of 220/66KV Kharadpada sub-station from 520 MVA to 640 MVA in the UT of D&NH, Silvassa.	44.06	0.00	0.00	44.06	0.00	0.00

Commission's Analysis:

The Commission has reviewed the submission and notes that continued industrial growth has led to recurring N-1 contingency issues at the 220/66 kV Kharadpada sub-station. The proposed replacement of the remaining 2x100 MVA transformers with 2x160 MVA units is a justified system enhancement. Accordingly, the proposed CAPEX is approved as detailed below:

TABLE 3-10 CAPEX APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Augmentation of 220/66KV Kharadpada sub-station from 520 MVA to 640 MVA in the UT of D&NH, Silvassa.	44.06	0.00	20.00	24.06	0.00	0.00

3.9 Providing SCADA at 220/66 kV Kharadpada Sub-station and 220 kV New Kharadpada switching station

Petitioner's Submission:

The Petitioner has submitted that reliable electricity supply is critical for national development, and the widening gap between demand and generation can be addressed through improved control and monitoring of the transmission and distribution network. In this context, automation of power systems through SCADA (Supervisory Control and Data Acquisition) has become a global utility practice to enhance reliability and operational efficiency.

In line with Government of India directives mandating SCADA compatibility for all 220kV and above substations, several State Transmission Utilities have begun retrofitting existing substations and equipping new ones with advanced SCADA systems. These systems enable real-time data acquisition across voltage levels, support energy billing, auditing, ABT compliance, and Open Access operations via integration with Load Dispatch Centres.

Accordingly, the Department proposes to upgrade the existing 220/66kV Kharadapada Sub-station and the 220kV New Kharadapada Switching Station from manual to SCADA-based operations to align with regulatory requirements and improve system performance.Accordingly, the Department proposes to upgrade the existing 220/66kV Kharadapada Sub-station and the 220kV New Kharadapada Switching Station from manual to SCADA-based operations to align with regulatory requirements and improve system performance.

TABLE 3-11 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Providing SCADA at 220/66kV Kharadpada substation	13.56	6.00	7.56	0.00	0.00	0.00
2	Providing SCADA at 220 New Kharadpada substation	0.74	0.35	0.39	0.00	0.00	0.00
Year Wise Capitalisation							
1	Providing SCADA at 220/66kV Kharadpada substation	13.56	0.00	13.56	0.00	0.00	0.00
2	Providing SCADA at 220 New Kharadpada substation	0.74	0.00	0.74	0.00	0.00	0.00

Commission's Analysis:

The Commission has reviewed the submission and notes that SCADA integration at 220 kV and above substations is essential for reliability, efficiency, and regulatory compliance. The proposed upgrade at Kharadapada sub-stations is a justified modernization effort. Accordingly, the proposed CAPEX is approved as detailed below:

TABLE 3-12 CAPEX APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
1	Providing SCADA at 220/66kV Kharadpada substation	13.56	6.00	7.56	0.00	0.00	0.00
2	Providing SCADA at 220 New Kharadpada substation	0.74	0.35	0.39	0.00	0.00	0.00

3.10 Conversion of 220kV Kala-Khadoli D/c line from Zebra to TACSR 370 sq.mm conductor (6.8km)

Petitioner's Submission:

The Petitioner has submitted that the 220/66kV Khadoli Sub-station, commissioned in 2008, was initially fed through a 220kV D/C line from PGCIL's 400/220kV Vapi (Ambheti) Sub-station. In 2014, an additional power source was established from the newly commissioned 400/220kV PGCIL Kala Sub-station via a second 220kV D/C line.

While the dual-source arrangement initially supported N-1 contingency, changes in load flow patterns due to rising demand have prevented effective synchronization of both 400kV sources in recent years. Currently, the entire load of Khadoli Sub-station is being supported by the D/C line from Kala Sub-station using Zebra conductors, posing a blackout risk in case of a circuit outage.

To address this reliability concern, the Department proposes upgrading the existing Zebra conductor to high-capacity TACSR, thereby strengthening the 220kV line and ensuring supply continuity under contingency conditions.

TABLE 3-13 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Conversion of 220kV Kala- Khadoli D/c line from Zebra to TACSR	9.37	0.00	4.50	4.87	0.00	0.00

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
	370 sqmm conductor (6.8 km)						
Year Wise Capitalisation							
1	Conversion of 220kV Kala- Khadoli D/c line from Zebra to TACSR 370 sqmm conductor (6.8 km)	9.37	0.00	0.00	9.37	0.00	0.00

Commission's Analysis:

The Commission has reviewed the Petitioner's submission and notes that due to changing load flows, the Khadoli Sub-station now depends solely on the 220kV D/C line from Kala Sub-station, elevating the risk of supply disruption. The proposed upgrade to high-capacity TACSR conductors is a prudent step to improve system reliability and ensure uninterrupted supply during contingencies.

Accordingly, the proposed capital expenditure is approved as detailed below:

TABLE 3-14 CAPEX APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Conversion of 220kV Kala- Khadoli D/c line from Zebra to TACSR 370 sqmm conductor (6.8 km)	9.37	0.00	4.50	4.87	0.00	0.00

3.11 Augmentation of 220/66KV Vaghchipa sub-station from 2x160MV A to 3x160MVA with associates 220KV bay and 66KV Bay in the UT of DNH and DD

Petitioner's Submission:

The Petitioner has submitted that the 2x160 MVA, 220/66kV Vaghchipa Sub-station has been in commercial operation since February 2019 and currently feeds four 66/11kV DNHDDPCL substations, with a peak load of approximately 140 MW.

DNHDDPCL now plans to connect the 66/11kV Dadra and Vaghdara Sub-stations, adding an estimated 100 MW load.

To ensure N-1 contingency for transformer capacity, it is proposed to install an additional 160 MVA, 220/66kV power transformer at Vaghchipa Sub-station. The augmentation scheme, approved under the Business Plan for the MYT Control Period FY 2022–23 to FY 2024–25, is estimated at ₹30.33 Crore. Of this, ₹7.00 Crore has already been incurred in FY 2024–25 and reported as CWIP, with the project scheduled for capitalization in FY 2025–26.

TABLE 3-15 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Augmentation of 220/66KV Vaghchipa sub-station from 2x160MV A to 3x160MVA with associates 220KV bay and 66KV Bay in the UT of DNH and DD.	30.33	23.33	0.00	0.00	0.00	0.00
Year Wise Capitalisation							
1	Augmentation of 220/66KV Vaghchipa sub-station from 2x160MV A to 3x160MVA with associates 220KV bay and 66KV Bay in the UT of DNH and DD.	30.33	30.33	0.00	0.00	0.00	0.00

Commission's Analysis:

The Commission has reviewed the Petitioner's submission and notes that the 2x160 MVA, 220/66kV Vaghchipa Sub-station currently serves a peak load of about 140 MW, with an expected increase of 100 MW. The proposal to add a 160 MVA transformer to ensure N-1 contingency is appropriate and consistent with approved plans.

Accordingly, the proposed capital expenditure is approved as detailed below:

TABLE 3-16 CAPEX APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Augmentation of 220/66KV Vaghchipa sub-station from 2x160MV A to 3x160MVA with associates 220KV bay and 66KV Bay in the UT of DNH and DD.	30.33	23.33	0.00	0.00	0.00	0.00

3.12 Replacement/Upgradation of SCADA/EMS System at SLDC, Silvassa

Petitioner's Submission:

The Petitioner has submitted that SCADA/EMS systems at National, Regional, and State Load Despatch Centres are critical ICT infrastructure enabling 24x7 real-time grid monitoring, coordination, and control. The last upgradation in the Western Region, including WRLDC and associated SLDCs, was completed in March 2016. As per CERC regulations, these systems have a useful life of seven years, making them due for upgradation from 2023 onwards.

GRID-INDIA has initiated the nationwide SCADA/EMS upgradation under the Unified Load Despatch Centre (ULDC) scheme through a dedicated committee comprising NLDC and RLDC representatives. SLDC, DNH, being part of the scheme, is required to implement the upgradation accordingly.

TABLE 3-17 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Replacement / Upgradation of SCADA / EMS System at SLDC, Silvassa	35.00	17.50	17.50	0.00	0.00	0.00

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capitalisation							
1	Replacement / Upgradation of SCADA / EMS System at SLDC, Silvassa	35.00	0.00	35.00	0.00	0.00	0.00

Commission's Analysis:

The Petitioner's submission has been reviewed. SCADA/EMS systems are critical ICT assets for real-time grid monitoring and control. With a seven-year useful life and the last upgrade completed in 2016, the proposed ULDC scheme upgradation is timely and necessary. The inclusion of SLDC, DNH aligns with regulatory mandates and best practices.

Accordingly, the proposed capital expenditure is approved as detailed below:

TABLE 3-18 CAPEX APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Replacement / Upgradation of SCADA / EMS System at SLDC, Silvassa	35.00	17.50	17.50	0.00	0.00	0.00

3.13 Supply installation testing and commissioning of OPGW 24F cable along with hard ware & accessories for replacement existing earth wire of 220 KV Kala to Khadoli S/s for real time SCADA data availability at SLDC-DNH

Petitioner's Submission:

The Petitioner has submitted that the Electricity Department, UT of DNH & DD, has established multiple 220/66kV and 220kV switching substations to ensure 24x7 power supply across the territory. Grid operations are monitored and controlled in real time by the State Load Despatch Centre (SLDC) of Dadra & Nagar Haveli.

Currently, real-time data from 220kV and 66kV substations is critical for reliable grid operations. However, data from the 220kV Khadoli Sub-station is unavailable due to the unreliable nature of the temporary RF connectivity. WRPC, through the 546th OCC agenda (dated 24.08.2021), has advised urgent resolution of real-time data issues at several substations.

While connectivity issues at Bhilosa, Vaghchipa, Kharadpada, and New Kharadpada have been resolved using OPGW/FOC, real-time data from Khadoli remains unavailable. To address this, the Department proposes laying OPGW from 400/220kV Kala to 220kV Khadoli Sub-station to ensure seamless data transmission and grid reliability.

TABLE 3-19 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Supply installation testing and commissioning of OPGW 24F cable along with hard ware & accessories for replacement existing earth wire of 220 KV Kala to Khadoli S/s for real time SCADA data availability at SLDC-DNH.	1.00	0.50	0.50	0.00	0.00	0.00
Year Wise Capitalisation							
1	Supply installation testing and commissioning of OPGW 24F cable along with hard ware & accessories for replacement existing earth wire of 220 KV Kala to Khadoli S/s for real time SCADA data availability at SLDC-DNH.	1.00	0.00	1.00	0.00	0.00	0.00

Commission's Analysis:

The Commission has reviewed the Petitioner's submission and recognizes that reliable real-time data transmission is essential for grid stability and efficiency. Although connectivity issues at several substations have been resolved, data from the 220kV Khadoli Sub-station remains unavailable.

The proposed laying of OPGW from 400/220kV Kala to 220kV Khadoli Sub-station is a necessary and effective solution to ensure seamless data communication and improve grid reliability.

Accordingly, the proposed capital expenditure is approved as detailed below:

TABLE 3-20 CAPEX APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Supply installation testing and commissioning of OPGW 24F cable along with hard ware & accessories for replacement existing earth wire of 220 KV Kala to Khadoli S/s for real time SCADA data availability at SLDC-DNH.	1.00	0.50	0.50	0.00	0.00	0.00

3.14 Establishment of new 66/11kV Sub-station at Dapada

Petitioner's Submission:

The Petitioner has submitted that the existing 66/11kV Khadoli Substation (commissioned in 1990) currently supplies 130 MW to rural and industrial consumers across Surangi, Khadoli, Tinoda, Amboli, Chikhli, Dapada, Vasona, Pati, and Chinchpada. Given peak demand concentration in Dapada and Chinchpada, a

new 66/11kV, 2x31.5 MVA substation is proposed at this load center. This would reduce T&D losses by minimizing line lengths, enhance system reliability, and alleviate overloading on the Khadoli substation. It would also avoid the constrained Right of Way through the Satmaliya Wildlife Sanctuary, where line expansion is currently unfeasible.

TABLE 3-21 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Establishment of new 66/11 KV Substation at Dapada	36.64	6.00	15.32	15.32	0.00	0.00
Year Wise Capitalisation							
1	Establishment of new 66/11 KV Substation at Dapada	36.64	0.00	0.00	36.64	0.00	0.00

Commission's Analysis:

The Commission has reviewed the Petitioner's submission and notes that the existing 66/11kV Khadoli Substation is heavily loaded, serving rural and industrial areas with peak demand concentrated in Dapada and Chinchpada. The proposed new 66/11kV, 2x31.5 MVA substation at this location is a strategic solution to reduce T&D losses, enhance reliability, and relieve overloading. It also addresses Right of Way limitations due to the Satmaliya Wildlife Sanctuary.

Accordingly, the proposed capital expenditure is approved as detailed below:

TABLE 3-22 CAPEX APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Establishment of new 66/11 KV Substation at Dapada	36.64	6.00	15.32	15.32	0.00	0.00

3.15 Strengthening of 66kV Transmission Lines from 220/66kV Khadoli Sub-station to 66/11 kV Khadoli Sub-station

Petitioner's Submission:

The Petitioner has submitted that the 66/11kV Khadoli Substation supplies power to multiple rural and industrial areas and is fed by three 66kV circuits (525A each). Current loadings are: Circuit I – 305A, Circuit II – 315A, and Circuit III – 516A. Circuit III is nearly at full capacity, feeding four power transformers (3x15 MVA, 1x20 MVA) and the 66kV Raj Rayon Feeder. A fault in Circuit III results in widespread outages due to the absence of N-1 contingency support, despite a bus-coupler arrangement.

Strengthening Circuit III is critical, as it cannot accommodate new load. Circuit II is also prioritized for upgrade, especially with the upcoming 31.5 MVA transformer (approx. 280A load). Circuit I can be considered in Phase-II based on future demand.

Additionally, due to NH road widening, tower modifications are needed to maintain statutory ground clearance. It is recommended to use TACSR conductors for circuit upgrades. TACSR offers 50–60% higher current capacity than ACSR (807A for Panther-equivalent) with minimal structural changes, aligning with CEA guidelines and ensuring long-term capacity enhancement.

TABLE 3-23 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Strengthening of 66 KV Transmission lines from 220/66 KV Khadoli Substation to 66/11 KV Khadoli Substation.	4.57	3.05	1.52	0.00	0.00	0.00
Year Wise Capitalisation							
1	Strengthening of 66 KV Transmission lines from 220/66 KV Khadoli Substation to 66/11 KV Khadoli Substation.	4.57	0.00	4.57	0.00	0.00	0.00

Commission's Analysis:

The Commission has reviewed the Petitioner's submission and notes that Circuit III of the 66/11kV Khadoli Substation is operating at near full capacity, posing a reliability risk due to the lack of N-1 contingency. Circuit II is also approaching its limit with the upcoming 31.5 MVA transformer addition. Strengthening both circuits is essential to meet present and future load requirements.

The proposed use of TACSR conductors is appropriate, offering higher current-carrying capacity in accordance with CEA guidelines, with minimal structural changes. Tower modifications required due to NH road widening are also considered necessary for compliance.

Accordingly, the proposed capital expenditure is approved as detailed below:

TABLE 3-24 CAPEX SCHEDULE APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Strengthening of 66 KV Transmission lines from 220/66 KV Khadoli Substation to 66/11 KV Khadoli Substation.	4.57	3.05	1.52	0.00	0.00	0.00

3.16 Erection of approach road for 66kV Switchyard & Transformers at 66/11kV Khadoli Sub-station

Petitioner's Submission:

The Petitioner has submitted that at present there is no approach road for 66/11 kV Transformers (6 Nos) and Switchyard at Khadoli Substation. In case of replacement of heavy equipments and installation/removal of 66 KV transformers heavy loading vehicles and crane is required for loading and unloading. In monsoon there is absolutely no route possible resulting in extreme delay for rectification of heavy faults.

TABLE 3-25 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Erection of approach road for 66 KV Switchyard & Transformers at 66/11 KV Khadoli Substation	0.38	0.38	0.00	0.00	0.00	0.00
Year Wise Capitalisation							
1	Erection of approach road for 66 KV Switchyard & Transformers at 66/11 KV Khadoli Substation	0.38	0.38	0.00	0.00	0.00	0.00

Commission's Analysis:

The Commission has reviewed the submission and notes that the lack of an approach road to the 66/11kV transformers and switchyard at Khadoli Substation hampers equipment movement and fault rectification, especially during the monsoon. Developing an all-weather road is essential for reliable operation and timely maintenance.

Accordingly, the proposed capital expenditure is approved as detailed below:

TABLE 3-26 CAPEX SCHEDULE APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Erection of approach road for 66 KV Switchyard & Transformers at 66/11 KV Khadoli Substation	0.38	0.38	0.00	0.00	0.00	0.00

3.17 Erection of two 66KV Transmission circuits (Hotline) from 220KV Khadoli S/s to 66KV Kala/Velugam circuit divergence point to strengthen the transmission network of 66/11 KV Kala and Velugam Substations

Petitioner's Submission:

The Petitioner has submitted that the 66kV Kala and Velugam substations currently have a single 66kV incoming circuit each (525A / ~50 MW). Peak loads are 49 MW (Velugam) and 30 MW (Kala). Due to single-source supply, any fault or maintenance leads to complete blackout at these substations.

A double circuit line from the divergence point near the sugar factory to Kala and Velugam substations is already erected. To ensure N-1 contingency and improve power reliability, the remaining section up to 220/66kV Khadoli Substation must be completed.

These lines pass through inaccessible areas (villages, riverbanks, crossings) and are difficult to maintain, especially during monsoon. The substations supply critical rural and industrial consumers across multiple villages. Any outage severely impacts services such as agriculture, water supply, healthcare, education, and industry.

It is recommended to use TACSR conductors for the new lines to enhance thermal capacity (50–60% higher than ACSR) with minimal structural changes. As per CEA guidelines, TACSR Panther-equivalent (21mm dia.) supports up to 807A. This upgrade will strengthen system redundancy, improve reliability, and meet growing demand in Kala and Velugam regions.

TABLE 3-27 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Erection of two 66KV Transmission circuits (Hotline) from 220KV	8.91	0.00	3.56	5.35	0.00	0.00

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
	Khadoli S/s to 66KV Kala/Velugam circuit divergence point to strengthen the transmission network of 66/11 KV kala and velugam Substations.						
Year Wise Capitalisation							
1	Erection of two 66KV Transmission circuits (Hotline) from 220KV Khadoli S/s to 66KV Kala/Velugam circuit divergence point to strengthen the transmission network of 66/11 KV kala and velugam Substations.	8.91	0.00	0.00	8.91	0.00	0.00

Commissions Analysis:

The Commission has reviewed the submission made by the Petitioner in accordance with the provisions of the JERC Tariff Regulations, 2024. It has been observed that the existing 66 kV Kala and Velugam substations are currently served by single 66 kV incoming circuits, with peak loads of approximately 49 MW and 30 MW, respectively. This single-source configuration poses a significant reliability risk, as any outage due to fault or maintenance leads to a complete supply disruption at these substations.

Given the critical nature of the loads served—including rural, agricultural, industrial, and essential public services—the proposed extension of the double circuit line up to the 220/66 kV Khadoli Substation is a technically justified and prudent system-strengthening measure. The route's challenging geography further reinforces the need for redundancy and resilience.

The proposal to use TACSR conductors in lieu of conventional ACSR is technically sound and in line with CEA guidelines, offering 50–60% higher current-carrying

capacity with minimal structural changes. This upgrade will enhance operational flexibility, thermal capacity, and system redundancy to meet both current and anticipated future demand in the region.

Accordingly, the proposed capital expenditure is found to be reasonable, in line with regulatory norms, and is approved as tabled below:

TABLE 3-28 CAPEX SCHEDULE APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Erection of two 66KV Transmission circuits (Hotline) from 220KV Khadoli S/s to 66KV Kala/Velugam circuit divergence point to strengthen the transmission network of 66/11 KV kala and velugam Substations.	8.91	0.00	3.56	5.35	0.00	0.00

3.18 Erection of compound wall at 66/11 KV Khadoli Substation

Petitioner's Submission:

The Petitioner has submitted that the compound wall at the 66/11kV Khadoli Substation, built in the 1990s, is now extensively damaged and in a dilapidated condition. Given the safety risks associated with high-voltage infrastructure, an access-controlled boundary is essential to prevent unauthorized entry by the public, cattle, or wildlife. Reconstruction of the compound wall with secure gates is urgently required on a priority basis.

TABLE 3-29 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
1	Erection of compound wall at 66/11 KV Khadoli Substation	1.05	1.05	0.00	0.00	0.00	0.00
Year Wise Capitalisation							
1	Erection of compound wall at 66/11 KV Khadoli Substation	1.05	1.05	0.00	0.00	0.00	0.00

Commissions Analysis:

The Commission has reviewed the Petitioner's submission in accordance with the JERC Tariff Regulations, 2024. It has been noted that the existing compound wall at the 66/11 kV Khadoli Substation, constructed in the 1990s, is in a severely deteriorated condition, posing safety and security risks.

Given the critical nature of high-voltage infrastructure, maintaining a secure and access-controlled boundary is essential to prevent unauthorized entry, safeguard equipment, and ensure operational safety. The proposed reconstruction of the compound wall with appropriate gates is a necessary and justified infrastructure measure.

Accordingly, the proposed capital expenditure is considered prudent and are approved as table below:

TABLE 3-30 CAPEX SCHEDULE APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Erection of compound wall at 66/11 KV Khadoli Substation	1.05	1.05	0.00	0.00	0.00	0.00

3.19 Erection of compound wall at 66/11 KV Khanvel Substation

Petitioner's Submission:

The Petitioner has submitted that the compound wall at 66/11 KV Khanvel substation was broken by PWD due to widening at front side. At present temporary fencing is erected for access control until proper compound is built. Since 66/11 KV Class substations should be access controlled due potential electrical hazards for general public, cattle, other animals, front side compound wall along with gate is required to be erected on priority basis.

TABLE 3-31 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Erection of compound wall at 66/11 KV Khanvel Substation	0.15	0.15	0.00	0.00	0.00	0.00
Year Wise Capitalisation							
1	Erection of compound wall at 66/11 KV Khanvel Substation	0.15	0.15	0.00	0.00	0.00	0.00

Commissions Analysis:

The Commission has reviewed the Petitioner's submission and it has been noted that the front-side compound wall of the 66/11 kV Khanvel Substation was dismantled due to road widening by the PWD, and is currently secured only with temporary fencing. Given the safety requirements associated with 66/11 kV class substations, permanent access control is essential to mitigate risks to the public, livestock, and wildlife.

The proposed reconstruction of the compound wall along with installation of a gate is a necessary safety and compliance measure.

Accordingly, the proposed capital expenditure is considered appropriate and are approved as table below;

TABLE 3-32 CAPEX SCHEDULE APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Erection of compound wall at 66/11 KV Khanvel Substation	0.15	0.15	0.00	0.00	0.00	0.00

3.20 Augmentation of 66/11kV Gas Insulated Substation at Zanda Chowk, Silvassa from 2 x 20 MVA to (2 x 20 MVA + 1 x 31.5 MVA) with associated 66kV GIS bays in the UT of D& NH, Silvassa

Petitioner's Submission:

The Petitioner has submitted that the 66/11kV GIS Zanda Chowk substation currently operates with two 20 MVA transformers, both now loaded beyond 60%, breaching N-1 contingency norms. With rising demand and the commissioning of the 11kV VBCH Express Feeder (2500 kVA) on 13/12/2024, load growth is accelerating. As only one future transformer bay is available, it is proposed to install a 66/11kV, 31.5 MVA transformer—the maximum permissible capacity—to ensure reliability and meet projected demand.

TABLE 3-33 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Augmentation of 66/11kV Gas Insulated Substation at Zanda Chowk, Silvassa from 2 x 20 MVA to (2 x 20 MVA + 1 x 31.5 MVA) with associated 66kV GIS bays in th UT of D& NH, Silvassa	5.61	2.24	3.37	0.00	0.00	0.00
Year Wise Capitalisation							
1	Augmentation of 66/11kV Gas Insulated Substation at Zanda Chowk, Silvassa from 2 x 20 MVA to (2 x 20 MVA + 1 x 31.5 MVA) with	5.61	2.24	3.37	0.00	0.00	0.00

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
	associated 66kV GIS bays in th UT of D& NH, Silvassa						

Commissions Analysis:

The Petitioner's submission has been reviewed. It is observed that both existing 20 MVA transformers at the 66/11 kV GIS Zanda Chowk Substation are operating beyond 60% loading, thereby breaching N-1 contingency criteria. With ongoing demand growth and the commissioning of the 11 kV VBCH Express Feeder, the substation's capacity is under increasing stress.

The proposal to install a 31.5 MVA transformer—the maximum capacity permissible in the available bay—is a prudent system-strengthening measure to maintain supply reliability and accommodate future demand.

Accordingly, the proposed capital expenditure is found to be justified and is approved as table below:

TABLE 3-34 CAPEX SCHEDULE APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Augmentation of 66/11kV Gas Insulated Substation at Zanda Chowk, Silvassa from 2 x 20 MVA to (2 x 20 MVA + 1 x 31.5 MVA) with associated 66kV GIS bays in th UT of D& NH, Silvassa	5.61	2.24	3.37	0.00	0.00	0.00

3.21 Conversion of 66kV D/C Madhuban- Motaponda line by 66kV, 1Cx300 sqmm. cable near LN Helipad, village Sayli

Petitioner's Submission:

The Petitioner has submitted that UT Administration of DNH have installed Helipad at village Sayli near NAMO Medical college and during the VVIP visit following the safety concerns near landing zone of Helicopter the 66kV Madhuban Motaponda Double circuit needs to be dismantled. The said circuit emerges from 5 MW Hydro Power station at Madhuban Dam and provides power supply to 66kV Motaponda substation. The interruption during the VVIP visit leads to a financial implication which is nearly 6 lakhs per day due to generation loss and also cost is also incurred due to dismantling and restringing of said 66kV Double circuit. So it is proposed to convert the 2km circuit line with 66kV 300 sqmm cable.

TABLE 3-35 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Conversion of 66kV D/C Madhuban- Motaponda line by 66kV, 1Cx300 sqmm cable near LN Helipad, village Sayli	3.47	0.00	1.00	2.47	0.00	0.00
Year Wise Capitalisation							
1	Conversion of 66kV D/C Madhuban- Motaponda line by 66kV, 1Cx300 sqmm cable near LN Helipad, village Sayli	3.47	0.00	1.00	2.47	0.00	0.00

Commissions Analysis:

The Commission has reviewed the Petitioner's submission and it has been noted that the existing 66 kV Madhuban–Motaponda double circuit line, which supplies power from the 5 MW Hydro Power Station to the 66 kV Motaponda Substation, lies within the helipad safety zone near Sayli village. During VVIP visits, this results in forced outages, dismantling and restringing of the line, leading to recurring generation losses and associated costs—estimated at ₹6 lakhs per day.

The proposal to replace the overhead section with a 2 km 66 kV, 300 sqmm underground cable is a technically viable and cost-effective long-term solution that ensures supply continuity, operational safety, and avoids repeated expenditure.

Accordingly, the proposed capital expenditure is considered justified and is approved as table below:

TABLE 3-36 CAPEX SCHEDULE APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Conversion of 66kV D/C Madhuban- Motaponda line by 66kV, 1Cx300 sqmm cable near LN Helipad, village Sayli	3.47	0.00	1.00	2.47	0.00	0.00

3.22 Supply, Erection, Testing, commissioning of 2 X 20 MVA, 66/11KV GIS Sub - Station at Naroli Checkpost, Silvassa and Erection of 66KV D/C Transmission Line from LILO point at M/S CMC, Naroli Checkpost on 66KV Kharadpada - Amli Line to Naroli Check Post. (Line length - 2 Km, 12 Nos of D/C Tower)

Petitioner's Submission:

The Petitioner has submitted that At Present 66/11KV Kharadpada Sub-Station (Commissioning Year July'2002) feeding Power in various rural and industrial consumers located at Kharadpada, Naroli Check Post, Naroli Village area. At Present load fed from this Sub-Station is nearly 45 MW. Maximum loading consumers are located in Kharadpada and Naroli Check Post area. At present new Industries and new industrial parks are developing in Naroli Check Post area. This will generate more power demand in future in Naroli check post area. So, new 66/11kV 2 x 20MVA, GIS Sub-Station may be proposed at load center i.e. Naroli Check Post. These resulting in significant reduction in T&D losses due to reduction in length of distribution lines. Also system reliability will be increased and overloading on existing Sub-Station can be reduced.

TABLE 3-37 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Supply, Erection, Testing, commissioning of 2 X 20 MVA, 66/11KV GIS Sub - Station at Naroli Checkpost, Silvassa and Erection of 66KV D/C Transmission Line from LILO point at M/S CMC, Naroli Checkpost on 66KV Kharadpada - Amli Line to Naroli Check Post. (Line length - 2 Km, 12 Nos of D/C Tower)	49.23	0.00	0.00	10.00	20.00	19.23
Year Wise Capitalisation							
1	Supply, Erection, Testing, commissioning of 2 X 20 MVA, 66/11KV GIS Sub - Station at Naroli Checkpost, Silvassa and Erection of 66KV D/C Transmission Line from LILO point at M/S CMC, Naroli Checkpost on 66KV Kharadpada - Amli Line to Naroli Check Post. (Line length - 2 Km, 12 Nos of D/C Tower)	49.23	0.00	0.00	0.00	0.00	49.23

Commissions Analysis:

The Commission has reviewed the Petitioner's submission regarding the 66/11kV Kharadpada Sub-Station, currently supplying approximately 45 MW to rural and industrial consumers, with peak demand concentrated in Kharadpada and Naroli Check Post. Given the ongoing industrial development and anticipated load growth in Naroli Check Post, the proposal to establish a new 66/11kV, 2x20 MVA GIS substation at this load center is a prudent measure.

This augmentation is expected to reduce T&D losses by shortening distribution line lengths, enhance system reliability, and alleviate overloading at the existing substation.

Accordingly, the proposed capital expenditure is considered justified and is approved as per the details submitted.

TABLE 3-38 CAPEX SCHEDULE APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Supply, Erection, Testing, commissioning of 2 X 20 MVA, 66/11KV GIS Sub - Station at Naroli Checkpost, Silvassa and Erection of 66KV D/C Transmission Line from LILO point at M/S CMC, Naroli Checkpost on 66KV Kharadpada - Amli Line to Naroli Check Post. (Line length - 2 Km, 12 Nos of D/C Tower)	49.23	0.00	0.00	10.00	20.00	19.23

3.23 Supply, Erection, Testing and commissioning of new 20 MVA 66/11kV Power Transformer along with bay and panels at 66/11kV Athal Sub - Station.

Petitioner's Submission:

The Petitioner has submitted that At Present 66/11kV Athal Sub-Station (Commissioning Year June'2012) feeding Power in various rural and industrial consumers located at Village Athal area. At Present load fed from this Sub-Station is nearly 35 MW. At present new Industries and new industrial parks are developing in Village Athal area. This will generate more power demand in future in Athal area. So, new 66/11kV 20MVA Power Transformer may be proposed. These resulting in significant reduction in overloading of existing power transformers at Athal Sub-Station.

TABLE 3-39 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Supply, Erection, Testing and commissioning of new 20 MVA 66/11kV Power Transformer along with bay and panels at 66/11kV Athal Sub - Station.	4.32	4.32	0.00	0.00	0.00	0.00
Year Wise Capitalisation							
1	Supply, Erection, Testing and commissioning of new 20 MVA 66/11kV Power Transformer along with bay and panels at 66/11kV Athal Sub - Station.	4.32	4.32	0.00	0.00	0.00	0.00

Commissions Analysis:

The Commission has reviewed the Petitioner's submission regarding the 66/11kV Athal Sub-Station, currently supplying approximately 35 MW to rural and industrial consumers in the Athal area. Considering ongoing industrial growth and emerging load demand, the proposal to install an additional 20 MVA transformer is justified.

This augmentation will effectively reduce overloading on existing transformers, thereby enhancing system reliability.

Accordingly, the proposed capital expenditure is approved as submitted.

TABLE 3-40 CAPEX SCHEDULE APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Supply, Erection, Testing and	4.32	4.32	0.00	0.00	0.00	0.00

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
	commissioning of new 20 MVA 66/11kV Power Transformer along with bay and panels at 66/11kV Athal Sub - Station.						

3.24 Extension of Control Room Building at 66/11KV Masat Sub - Station

Petitioner's Submission:

The Petitioner has submitted that the 66/11kV Masat Substation (commissioned in 1995) currently supplies ~50 MW to rural and industrial consumers in Masat, Samarvarni, and Kudacha. With ongoing development of industries, residential projects, and industrial parks in the area, future demand is expected to rise significantly. However, the existing control room lacks space for additional panels or expansion. Hence, extension of the control room building is essential to accommodate future load growth and system augmentation.

TABLE 3-41 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Extension of Control Room Building at 66/11KV Masat Sub - Station.	0.45	0.45	0.00	0.00	0.00	0.00
Year Wise Capitalisation							
1	Extension of Control Room Building at 66/11KV Masat Sub - Station.	0.45	0.45	0.00	0.00	0.00	0.00

Commissions Analysis:

The Commission has reviewed the Petitioner's submission concerning the 66/11kV Masat Substation, which currently serves approximately 50 MW to diverse consumers. Given the anticipated load growth driven by industrial and residential

developments, the lack of adequate control room space poses a limitation to system expansion.

The proposal to extend the control room building is a necessary infrastructure enhancement to support future augmentation and ensure reliable operations.

Accordingly, the proposed capital expenditure is approved as submitted.

TABLE 3-42 CAPEX SCHEDULE APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Extension of Control Room Building at 66/11KV Masat Sub - Station.	0.45	0.45	0.00	0.00	0.00	0.00

3.25 Supply, Erection, Testing and commissioning of 2 X 20 MVA 66/11kV GIS Sub - Station at Village Dadra with new D/C Transmission Line from LILO point at Lavachha on 66KV Kharadpada - Dadra Line to Dadra Sub - Station

Petitioner's Submission:

The Petitioner has submitted that the 66/11kV Dadra Substation (commissioned in 1996) currently supplies ~90 MW to rural, HT, EHT, LT, and industrial consumers in Demni, Dadra, and the Dadra Check Post area. With ongoing industrial and residential developments, future load demand is expected to increase significantly. The existing 5x20 MVA (100 MVA) capacity is already loaded beyond 80%, nearing saturation. To address this, a new 66/11kV GIS Substation (2x20 MVA) is proposed at the load center in Dadra, with a new double-circuit transmission line from the LILO point at Lavachha. This will enhance system reliability and reduce overloading on the existing substation.

TABLE 3-43 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Supply, Erection, Testing and commissioning of 2 X 20 MVA 66/11kV GIS Sub - Station at Village Dadra with new D/C Transmission Line from LILO point at Lavachha on 66KV Kharadpada - Dadra Line to Dadra Sub - Station.	49.25	10.00	20.00	19.25	0.00	0.00
Year Wise Capitalisation							
1	Supply, Erection, Testing and commissioning of 2 X 20 MVA 66/11kV GIS Sub - Station at Village Dadra with new D/C Transmission Line from LILO point at Lavachha on 66KV Kharadpada - Dadra Line to Dadra Sub - Station.	49.25	0.00	0.00	49.25	0.00	0.00

Commissions Analysis:

The Commission has reviewed the Petitioner's submission regarding the 66/11kV Dadra Substation, which currently supplies approximately 90 MW and is operating above 80% capacity. Considering the forecasted load growth from industrial and residential developments, the existing infrastructure is nearing saturation.

The proposal to establish a new 66/11kV GIS Substation (2x20 MVA) at the Dadra load center, along with a new double-circuit transmission line from the LILO point at Lavachha, is a prudent and necessary measure to enhance system reliability and mitigate overloading.

Accordingly, the proposed capital expenditure is approved as submitted.

TABLE 3-44 CAPEX SCHEDULE APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Supply, Erection, Testing and commissioning of 2 X 20 MVA 66/11kV GIS Sub - Station at Village Dadra with new D/C Transmission Line from LILO point at Lavachha on 66KV Kharadpada - Dadra Line to Dadra Sub - Station.	49.25	10.00	20.00	19.25	0.00	0.00

3.26 Supply, Erection, Testing and commissioning of 2 X 20 MVA 66/11kV GIS Sub - Station at Kuvapada, Village Silli with new D/C Transmission Line from Silli Sub - Station.

Petitioner's Submission:

The Petitioner has submitted that the 66/11kV Silli Substation (commissioned in August 2006) currently supplies ~40 MW to rural, HT, EHT, LT, and industrial consumers across Athal, Silli, Kilwani, Morkhal, Randha, Bonta, Falandi, Umerkui, Dokmardi, and Galonda. With rapid development of industries and residential projects in Silli, Kilwani, Umerkui, Falandi, and Dokmardi, future demand is expected to rise substantially.

The major load center is near Kuvapada, village Silli. To meet growing demand and improve reliability, a new 66/11kV GIS Substation (2x20 MVA) is proposed at this location, with a double-circuit transmission line from the existing Silli Substation. This will reduce loading on the current substation, enhance system reliability, and minimize T&D losses by shortening distribution line distances.

TABLE 3-45 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
1	Supply, Erection, Testing and commissioning of 2 X 20 MVA 66/11kV GIS Sub - Station at Kuvapada, Village Silli with new D/C Transmission Line from Silli Sub - Station.	48.69	0.00	0.00	10.00	15.00	23.69
Year Wise Capitalisation							
1	Supply, Erection, Testing and commissioning of 2 X 20 MVA 66/11kV GIS Sub - Station at Kuvapada, Village Silli with new D/C Transmission Line from Silli Sub - Station.	48.69	0.00	0.00	0.00	0.00	48.69

Commissions Analysis:

The Commission has reviewed the Petitioner's submission concerning the 66/11kV Silli Substation, which currently supplies approximately 40 MW and faces rising demand driven by industrial and residential growth in the region.

The proposal to establish a new 66/11kV GIS Substation (2x20 MVA) near Kuvapada, village Silli, along with a double-circuit transmission line from the existing Silli Substation, is a justified and timely measure. This will alleviate loading on the existing infrastructure, improve system reliability, and reduce T&D losses by shortening distribution distances.

Accordingly, the proposed capital expenditure is approved as submitted.

TABLE 3-46 CAPEX SCHEDULE APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Supply, Erection, Testing and commissioning of 2 X 20	48.69	0.00	0.00	10.00	15.00	23.69

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
	MVA 66/11kV GIS Sub - Station at Kuvapada, Village Silli with new D/C Transmission Line from Silli Sub - Station.						

3.27 Supply, Erection, Testing and commissioning of new 20 MVA 66/11kV Power Transformer at 66/11kV Piparia Sub – Station

Petitioner's Submission:

The Petitioner has submitted that at Present 66/11kV Pipariya Sub-Station (Commissioning Year Oct'2014) feeding Power in various rural and industrial consumers located at Village Pipariya area. At Present load fed from this Sub-Station is nearly 25 MW. At present new Industries and new industrial parks are developing in Village Pipariya area. This will generate more power demand in future in Pipariya area. So, new 66/11kV 20MVA Power Transformer may be proposed. These resulting in significant reduction in overloading of existing power transformers at Pipariya Sub-Station.

TABLE 3-47 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Supply, Erection, Testing and commissioning of new 20 MVA 66/11kV Power Transformer at 66/11kV Piparia Sub - Station.	4.32	2.00	2.32	0.00	0.00	0.00
Year Wise Capitalisation							
1	Supply, Erection, Testing and commissioning of new 20 MVA 66/11kV Power Transformer at 66/11kV Piparia Sub - Station.	4.32	0.00	4.32	0.00	0.00	0.00

Commissions Analysis:

The Commission has reviewed the Petitioner's submission regarding the 66/11kV Pipariya Sub-Station, which currently supplies approximately 25 MW and is expected to experience increased demand due to ongoing industrial development.

The proposal to install a new 66/11kV, 20 MVA power transformer is prudent to alleviate overloading of the existing transformers and support future load growth in the Pipariya area.

Accordingly, the proposed capital expenditure is approved as submitted.

TABLE 3-48 CAPEX SCHEDULE APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Supply, Erection, Testing and commissioning of new 20 MVA 66/11kV Power Transformer at 66/11kV Piparia Sub - Station.	4.32	2.00	2.32	0.00	0.00	0.00

3.28 Supply, Erection, Testing and commissioning of new 20 MVA 66/11kV Power Transformer at 66/11kV Waghdhara Sub - Station

Petitioner's Submission:

The Petitioner has submitted that at Present 66/11kV Waghdhara Sub-Station (Commissioning Year Jan'2013) feeding Power in various Domestic, HT, EHT, LT and industrial consumers located at Village Waghdhara area. At Present load fed from this Sub-Station is nearly 59 MW. At present new Industries, new residential societies and new industrial parks are developing in Village Waghdhara area. This will generate more power demand in future in Waghdhara area. So, new 66/11kV 20MVA Power Transformer may be proposed. These resulting in significant reduction in overloading of existing power transformers at Waghdhara Sub-Station.

TABLE 3-49 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Supply, Erection, Testing and commissioning of new 20 MVA 66/11kV Power Transformer at 66/11kV Waghdhara Sub - Station.	4.50	2.00	2.50	0.00	0.00	0.00
Year Wise Capitalisation							
1	Supply, Erection, Testing and commissioning of new 20 MVA 66/11kV Power Transformer at 66/11kV Waghdhara Sub - Station.	4.50	0.00	4.50	0.00	0.00	0.00

Commissions Analysis:

The Commission has reviewed the Petitioner's submission regarding the 66/11kV Waghdhara Sub-Station, which currently supplies approximately 59 MW to diverse consumers and is expected to witness increased demand due to new industries and residential developments.

The proposal to install a new 66/11kV, 20 MVA power transformer is justified to reduce overloading on existing transformers and accommodate future load growth in the Waghdhara area.

Accordingly, the proposed capital expenditure is approved as submitted.

TABLE 3-50 CAPEX SCHEDULE APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Supply, Erection, Testing and commissioning of new	4.50	2.00	2.50	0.00	0.00	0.00

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
	20 MVA 66/11kV Power Transformer at 66/11kV Waghdhara Sub - Station.						

3.29 New 66kV Multi Circuit Tower Line from 220/66kV Sub - Statin, Vaghchhipa to Tapping point at Lavachha on 66kV Kharadpada - Dadra Line

Petitioner's Submission:

The Petitioner has submitted that at Present 66/11kV Dadra and Waghdhara Sub-Stations are receiving Power from 220/66kV Kharadpada Sub-Station only having three 66kV Transmission lines. Dadra and Waghdhara Sub-Stations are feeding power in various Domestic, HT, EHT, LT and industrial consumers located at Village Dadra/Waghdhara area. At present new Industries, new residential societies and new industrial parks are developing in Village Waghdhara area. This will generate more power demand in future in Waghdhara area. For that, new 66/11kV 2 x 20MVA GIS Sub-Station is also proposed. This resulting in significant increase in overloading of existing 66kV transmission lines. So, new 66kV Multi Circuit Tower Line from 220/66Kv Sub - Statin, Vaghchhipa to Tapping point at Lavachha on 66kV Kharadpada - Dadra Line may be proposed.

TABLE 3-51 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	New 66kV Multi Circuit Tower Line from 220/66kV Sub - Statin, Vaghchhipa to Tapping point at Lavachha on 66kV Kharadpada - Dadra Line.	10.27	0.00	2.00	2.00	6.27	0.00
Year Wise Capitalisation							
1	New 66kV Multi Circuit Tower Line from 220/66kV Sub - Statin,	10.27	0.00	0.00	0.00	10.27	0.00

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
	Vaghchhipa to Tapping point at Lavachha on 66kV Kharadpada - Dadra Line.						

Commissions Analysis:

The Commission has reviewed the Petitioner's submission regarding the power supply arrangement to the 66/11kV Dadra and Waghdhara Sub-Stations, currently fed through three 66kV transmission lines from the 220/66kV Kharadpada Sub-Station. With anticipated load growth due to new industries and residential developments, the proposal for a new 66/11kV, 2x20 MVA GIS Sub-Station at Waghdhara is justified.

Recognizing the resulting increase in loading on existing 66kV transmission lines, the proposed new 66kV multi-circuit tower line from the 220/66kV Vaghchhipa Sub-Station to the tapping point at Lavachha on the Kharadpada-Dadra line is appropriate to ensure system reliability and meet future demand.

Accordingly, the proposed capital expenditure is approved as per the submission.

TABLE 3-52 CAPEX SCHEDULE APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	New 66kV Multi Circuit Tower Line from 220/66kV Sub - Statin, Vaghchhipa to Tapping point at Lavachha on 66kV Kharadpada - Dadra Line.	10.27	0.00	2.00	2.00	6.27	0.00

3.30 Extension of Control Room Building at 66/11KV Silli Sub – Station

Petitioner's Submission:

The Petitioner has submitted that at Present 66/11KV Silli Sub-Station (Commissioning Year Aug'2006) feeding Power in various rural and industrial consumers located at village Athal, Silli, Kilwani, Morkhal, Randha, Bonta, Falandi, Umerkui, Dokmardi and Galonda area. At Present load fed from this Sub-Station is nearly 40 MW. Maximum loading consumers are located in Silli area. At present new Industries, new Residential Societies and new industrial parks are developing in Silli, Dokmardi, Kilwani, Umerkui and Falandi area. This will generate more power demand in future in Silli Sub-Station. There is no further space in control room at Silli Sub-Station for future extension and installation of New Panels in control room. Therefore, it is necessary to make extension of control room building for future expansion and rise in numbers of panels due to increase in power demands.

TABLE 3-53 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Extension of Control Room Building at 66/11KV Silli Sub - Station.	2.20	0.00	1.00	1.20	0.00	0.00
Year Wise Capitalisation							
1	Extension of Control Room Building at 66/11KV Silli Sub - Station.	2.20	0.00	0.00	2.20	0.00	0.00

Commissions Analysis:

The Commission has reviewed the Petitioner's submission regarding the 66/11kV Silli Sub-Station, which currently supplies approximately 40 MW to various rural and industrial consumers across multiple locations. With ongoing development of new industries, residential societies, and industrial parks, the anticipated increase in load demand is noted.

Given the lack of space in the existing control room for panel expansion, the proposed extension of the control room building to accommodate future equipment and ensure system scalability is justified.

Accordingly, the proposed capital expenditure is approved as submitted.

TABLE 3-54 CAPEX SCHEDULE APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Extension of Control Room Building at 66/11KV Silli Sub - Station.	2.20	0.00	1.00	1.20	0.00	0.00

3.31 Extension of Control Room Building at 66/11KV Waghdhara Sub – Station

Petitioner's Submission:

The Petitioner has submitted that at Present 66/11KV Waghdhara Sub-Station (Commissioning Year Jan'2013) feeding Power in various rural and industrial consumers located at Village Waghdhara area. At Present load fed from this Sub-Station is nearly 59 MW. At present new Industries, new residential societies and new industrial parks are developing in Village Waghdhara area. This will generate more power demand in future in Waghdhara area. So, new 66/11kV 20MVA Power Transformer may be proposed. These resulting in significant reduction in overloading of existing power transformers at Waghdhara Sub-Station. There is no further space in control room at Waghdhara Sub-Station for future extension and installation of Panels in control room. Therefore, it is necessary to make extension of control room building for future expansion and rise in numbers of panels due to increase in power demands.

TABLE 3-55 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
1	Extension of Control Room Building at 66/11KV Waghdhara Sub - Station.	1.70	0.00	1.00	0.70	0.00	0.00
Year Wise Capitalisation							
1	Extension of Control Room Building at 66/11KV Waghdhara Sub - Station.	1.70	0.00	0.00	1.70	0.00	0.00

Commissions Analysis:

The Commission has reviewed the Petitioner's submission regarding the 66/11kV Waghdhara Sub-Station, currently supplying approximately 59 MW to various rural and industrial consumers. With the ongoing development of new industries, residential societies, and industrial parks, a significant increase in future power demand is anticipated.

The proposal for a new 20 MVA transformer is appropriate to mitigate overloading of the existing transformers. Additionally, the need to extend the control room to accommodate future panel installations aligns with expected system expansion requirements.

Accordingly, the proposed capital expenditure is approved as submitted.

TABLE 3-56 CAPEX SCHEDULE APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Extension of Control Room Building at 66/11KV Waghdhara Sub - Station.	1.70	0.00	1.00	0.70	0.00	0.00

3.32 Replacement and Strengthening of 11 kV Incomer Panel along with Feeder Pane and Bus Coupler at 66/11 kV Masat Sub-Station

Petitioner's Submission:

The Petitioner has submitted that the existing 11kV incomer panel, feeder panel, and bus coupler at the 66/11kV Masat Substation are outdated and inadequate for current load demands, leading to frequent maintenance issues and operational inefficiencies. Spare parts for the old design are difficult to source, resulting in extended downtimes and risk of supply disruptions.

To address these concerns and ensure reliable system performance, it is proposed to replace the existing panels with modern, high-capacity equipment capable of meeting present and future load requirements. The upgrade will enhance operational reliability, reduce maintenance downtime, and support grid stability in line with growing regional demand.

TABLE 3-57 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Replacement and strengthening of 11 kV Incomer Panel along with Feeder Pane and Bus Coupler at 66/11 kV Masat Sub-Station	4.14	4.14	0.00	0.00	0.00	0.00
Year Wise Capitalisation							
1	Replacement and strengthening of 11 kV Incomer Panel along with Feeder Pane and Bus Coupler at 66/11 kV Masat Sub-Station	4.14	4.14	0.00	0.00	0.00	0.00

Commissions Analysis:

The Commission has reviewed the Petitioner's submission regarding the outdated 11kV incomer panel, feeder panel, and bus coupler at the 66/11kV Masat Substation. The identified operational inefficiencies and maintenance challenges, coupled with difficulties in sourcing spare parts, underscore the necessity for timely replacement.

The proposed upgrade to modern, high-capacity panels is justified to enhance system reliability, minimize downtime, and support future load growth, thereby ensuring stable grid operations.

Accordingly, the proposed capital expenditure is approved as submitted.

TABLE 3-58 CAPEX SCHEDULE APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Replacement and strengthening of 11 kV Incomer Panel along with Feeder Pane and Bus Coupler at 66/11 kV Masat Sub-Station	4.14	4.14	0.00	0.00	0.00	0.00

3.33 Procurement of 31.5 MVA Power Transformer

Petitioner's Submission:

The Petitioner has submitted that due to increasing load and space constraints at various 66/11kV substations, the existing 20 MVA transformers are nearing capacity and cannot support future demand. As there is insufficient space for additional 20 MVA units, it is proposed to replace them with higher-capacity 31.5 MVA transformers.

This upgrade will enhance substation capacity, improve operational efficiency, and ensure reliable power supply. Installing 31.5 MVA transformers will also support future load growth with minimal infrastructure changes, strengthening grid stability and scalability.

TABLE 3-59 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
1	Procurement of 31.5 MVA Power Transformer	40.00	40.00	0.00	0.00	0.00	0.00
Year Wise Capitalisation							
1	Procurement of 31.5 MVA Power Transformer	40.00	40.00	0.00	0.00	0.00	0.00

Commissions Analysis:

The Commission has reviewed the Petitioner's submission concerning the capacity limitations and space constraints at various 66/11kV substations. The proposal to replace existing 20 MVA transformers with higher-capacity 31.5 MVA units is appropriate and necessary to meet future demand.

This upgrade will optimize substation capacity, enhance operational efficiency, and ensure reliable power supply while accommodating future load growth with minimal infrastructure modifications.

Accordingly, the proposed capital expenditure is approved as submitted.

TABLE 3-60 CAPEX SCHEDULE APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Procurement of 31.5 MVA Power Transformer	40.00	40.00	0.00	0.00	0.00	0.00

3.34 Erection of Bays and other equipment for installation commissioning of 31.5 Power Transformer

Petitioner's Submission:

The Petitioner proposes procuring and installing 31.5 MVA transformers at various substations to address rising load and space constraints of existing 20 MVA units.

To accommodate these, additional bays and necessary equipment must be erected for seamless integration.

This infrastructure upgrade will enhance substation capacity, support reliable power transmission, and enable future load growth without spatial limitations, thereby improving overall operational stability and supply reliability.

TABLE 3-61 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Erection of Bays and other equipment for installation commissioning of 31.5 Power Transformer	36.00	36.00	0.00	0.00	0.00	0.00
Year Wise Capitalisation							
1	Erection of Bays and other equipment for installation commissioning of 31.5 Power Transformer	36.00	36.00	0.00	0.00	0.00	0.00

Commissions Analysis:

The Commission has reviewed the Petitioner's proposal to procure and install 31.5 MVA transformers at various substations, addressing rising load demands and space constraints of existing 20 MVA units. The plan to erect additional bays and associated equipment for seamless integration is appropriate and aligns with system reliability objectives.

This infrastructure enhancement will effectively increase substation capacity, support dependable power transmission, and accommodate future load growth without spatial limitations, thereby strengthening operational stability.

Accordingly, the proposed capital expenditure is approved as submitted.

TABLE 3-62 CAPEX SCHEDULE APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Erection of Bays and other equipment for installation commissioning of 31.5 Power Transformer	36.00	36.00	0.00	0.00	0.00	0.00

3.35 New 66/11 kV Sub-Station building at Dadra and shifting of equipment

Petitioner's Submission:

The Petitioner highlights that the existing 66/11kV Dadra substation building, especially the control room, is outdated and lacks sufficient space to accommodate the increasing number of 11kV panels and expanded infrastructure. This limits operational efficiency and reliability.

A new substation building is proposed to provide adequate space for additional panels, support growing load demand, and enable efficient control and monitoring. Relocating equipment to the new facility will enhance system performance, operational safety, and ensure the substation meets future energy requirements without constraints.

TABLE 3-63 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	New 66/11 kV Sub-Station building at Dadra and shifting of equipments	12.00	12.00	0.00	0.00	0.00	0.00
Year Wise Capitalisation							
1	New 66/11 kV Sub-Station building at Dadra and shifting of equipments	12.00	12.00	0.00	0.00	0.00	0.00

Commissions Analysis:

The Commission has reviewed the Petitioner's submission regarding the outdated and space-constrained 66/11kV Dadra substation building, particularly the control room. The proposal to construct a new substation building to accommodate additional 11kV panels and expanded infrastructure is prudent and necessary.

This upgrade will enhance operational efficiency, safety, and system reliability while supporting future load growth and control requirements.

Accordingly, the proposed capital expenditure is approved as submitted.

TABLE 3-64 CAPEX AND CAPITALISATION SCHEDULE APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	New 66/11 kV Sub-Station building at Dadra and shifting of equipments	12.00	12.00	0.00	0.00	0.00	0.00

3.36 Replacement of existing conductor with high ampacity conductor and erection of 66 KV tower due to low ground clearance of conductor of existing 66 KV Kharadpada-Dadra-Wagdara line

Petitioner's Submission:

The Petitioner has submitted that the rising load on the 66kV Kharadpada-Dadra-Wagdara line, coupled with low ground clearance and limitations of the existing ACSR conductor, necessitates its replacement. The current conductor cannot support the increased thermal load.

It is proposed to replace the existing conductor with a TACSR conductor, which offers 50–60% higher current capacity than ACSR of the same size, with similar sag and tension characteristics. As per CEA guidelines, ACSR Panther (21mm) is rated

at 807A; TACSR will exceed this capacity, enabling the line to meet growing demand without major structural changes.

Additionally, new 66kV towers will be erected where required to address clearance issues. This upgrade will enhance line capacity, system reliability, and operational efficiency with minimal infrastructure modification.

TABLE 3-65 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Replacement of existing conductor with high ampacity conductor and erection of 66 KV tower due to low ground clearance of conductor of existing 66 KV Kharadpada-Dadra-Wagdara line	6.50	6.50	0.00	0.00	0.00	0.00
Year Wise Capitalisation							
1	Replacement of existing conductor with high ampacity conductor and erection of 66 KV tower due to low ground clearance of conductor of existing 66 KV Kharadpada-Dadra-Wagdara line	6.50	6.50	0.00	0.00	0.00	0.00

Commissions Analysis:

The Commission has reviewed the Petitioner's submission regarding the rising load on the 66kV Kharadpada-Dadra-Wagdara line and the need to replace the existing ACSR conductor. The proposal to replace the ACSR conductor with TACSR, offering enhanced current capacity, is in line with industry standards and CEA guidelines.

The use of TACSR will address both the increased thermal load and clearance issues, while the erection of new towers ensures compliance with necessary safety standards. This upgrade will strengthen the line's capacity, improve system reliability, and support future load growth with minimal structural modifications.

Accordingly, the proposed capital expenditure is approved as submitted.

TABLE 3-66 CAPEX SCHEDULE APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Replacement of existing conductor with high ampacity conductor and erection of 66 KV tower due to low ground clearance of conductor of existing 66 KV Kharadpada-Dadra-Wagdara line	6.50	6.50	0.00	0.00	0.00	0.00

3.37 Supply, Erection, Testing and Commissioning of 66/11.55 KV 20MVA Power Transformer along with Bay and Panels at 66/11 KV Kala Sub-station

Petitioner's Submission:

The Petitioner has submitted that the 66/11kV Kala Substation is experiencing increased load, with the existing 15 MVA and 20 MVA transformers each operating above 60% capacity. This compromises N-1 contingency compliance and poses a risk to supply reliability.

To address this, it is proposed to install a new 66/11.55kV, 20 MVA transformer along with the required bay and panels. This addition will enhance substation capacity, ensure N-1 compliance, and support future load growth while improving overall system reliability and operational efficiency.

TABLE 3-67 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Supply, Erection, Testing and Commissioning of 66/11.55 KV 20MVA Power Transformer along with Bay and Panels at 66/11 KV Kala Sub-station	4.71	4.71	0.00	0.00	0.00	0.00
Year Wise Capitalisation							
1	Supply, Erection, Testing and Commissioning of 66/11.55 KV 20MVA Power Transformer along with Bay and Panels at 66/11 KV Kala Sub-station	4.71	4.71	0.00	0.00	0.00	0.00

Commissions Analysis:

The Commission has reviewed the Petitioner's submission regarding the increased load at the 66/11kV Kala Substation, with the existing transformers operating above 60% capacity, thereby compromising N-1 contingency compliance.

The proposed installation of a new 66/11kV, 20 MVA transformer, along with the necessary bay and panels, is a suitable measure to enhance the substation's capacity, ensure N-1 compliance, and address future load growth. This upgrade will improve the overall system reliability and operational efficiency.

Accordingly, the proposed capital expenditure is approved as submitted.

TABLE 3-68 CAPEX AND CAPITALISATION SCHEDULE APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Supply, Erection, Testing and	4.71	4.71	0.00	0.00	0.00	0.00

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
	Commissioning of 66/11.55 KV 20MVA Power Transformer along with Bay and Panels at 66/11 KV Kala Sub-station						

3.38 66kV D/C Transmission line from Silli s/s to 66KV GIS Kuvapada, Silli along with 66KV outgoing feeder bay at Silli S/s

Petitioner's Submission:

The Petitioner has proposed construction of a 66kV double circuit transmission line from Silli Substation to the 66kV GIS Kuvapada Substation, along with a 66kV outgoing feeder bay at Silli. This scheme aims to meet rising demand, improve load distribution, and ensure reliable power supply.

The project will reduce transmission losses, enhance system efficiency, and strengthen network stability. It supports future expansion, improves resilience, and aligns with regional growth and infrastructure modernization objectives.

TABLE 3-69 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	66KV D/C Transmission line from Silli s/s to 66KV GIS Kuvapada, Silli along with 66KV outgoing feeder bay at Silli S/s	21.44	0.00	0.00	10.00	8.00	3.44
Year Wise Capitalisation							
1	66KV D/C Transmission line from Silli s/s to 66KV GIS Kuvapada, Silli along with 66KV outgoing feeder bay at Silli S/s	21.44	0.00	0.00	0.00	0.00	21.44

Commissions Analysis:

The Commission has reviewed the Petitioner's proposal for the construction of a 66kV double circuit transmission line from Silli Substation to the 66kV GIS Kuvapada Substation, along with a 66kV outgoing feeder bay at Silli.

The proposed scheme is deemed necessary to meet rising demand, improve load distribution, and enhance power supply reliability. The upgrade will help reduce transmission losses, improve system efficiency, and bolster network stability. Additionally, it aligns with the region's growth objectives and infrastructure modernization.

Accordingly, the proposed capital expenditure is approved as submitted.

TABLE 3-70 CAPEX AND CAPITALISATION SCHEDULE APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	66KV D/C Transmission line from Silli s/s to 66KV GIS Kuvapada, Silli along with 66KV outgoing feeder bay at Silli S/s	21.44	0.00	0.00	10.00	8.00	3.44

3.39 Erection of various line work, sub-station equipment, 220 KV Tower Strengthening work, office equipment, IT equipment and other misc. under Normal Development scheme

Petitioner's Submission:

The Petitioner proposes a comprehensive scheme to strengthen and modernize the power transmission and distribution infrastructure in response to rising electricity demand. The scope includes erection of new lines, installation of advanced substation equipment, and reinforcement of aging 66kV towers to enhance structural integrity and load capacity.

The scheme also includes upgrading office equipment and IT infrastructure to improve operational efficiency, enable real-time monitoring, and support data-driven decision-making across the network.

These upgrades are essential to increase system capacity, safety, and reliability, reduce outages, and accommodate future load growth. The initiative supports uninterrupted power supply and aligns with long-term regional development and sustainability goals.

TABLE 3-71 CAPEX AND CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Erection of various line work, sub-station equipment, 220 KV Tower Strengthening work, office equipment, IT equipment and other misc. under Normal Development scheme	44.00	10.00	8.00	8.00	8.00	10.00
Year Wise Capitalisation							
1	Erection of various line work, sub-station equipment, 220 KV Tower Strengthening work, office equipment, IT equipment and other misc. under Normal Development scheme	44.00	10.00	8.00	8.00	8.00	10.00

Commissions Analysis:

The Commission has reviewed the Petitioner's comprehensive proposal for strengthening and modernizing the power transmission and distribution infrastructure. This includes the erection of new lines, installation of advanced substation equipment, and reinforcement of aging 66kV towers to enhance structural integrity and load capacity.

Additionally, the proposed upgrades to office equipment and IT infrastructure for improved operational efficiency, real-time monitoring, and data-driven decision-making are acknowledged. These initiatives are crucial for increasing system capacity, safety, and reliability, as well as reducing outages and accommodating future load growth.

The proposed capital expenditure is approved, as the scheme aligns with long-term regional development and sustainability goals.

TABLE 3-72 CAPEX SCHEDULE APPROVED BY THE COMMISSION FOR SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Erection of various line work, sub-station equipment, 220 KV Tower Strengthening work, office equipment, IT equipment and other misc. under Normal Development scheme	44.00	10.00	8.00	8.00	8.00	10.00

3.40 Capital Investment Plan for Daman & Diu Districts

The Petitioner has submitted CAPEX Plan proposals (scheme wise) for FY 2025-26 to FY 2029-30 under the MYT Control Period FY 2025-30.

The summary of capital expenditure projections for the upcoming Control Period is given in the following table:

TABLE 3-73 CAPEX PLAN PROPOSED BY THE PETITIONER FOR DAMAN & DIU FOR CONTROL PERIOD *(RS. CRORE)*

S. No.	Name of Scheme	Total amount	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
1.	Establishment of 2x100MVA, 220/66KV GIS Sub-Station at Dabhel, Daman.	49.00	0.00	0.00	9.80	19.60	19.60
2.	Construction of 220KV multi circuit Transmission line from Magarwada PGCIL-Dabhel via 66/11 kV Kachigam Sub-station.	23.00	0.00	0.00	4.60	9.20	9.20
3.	Establishment of 2x20MVA, 66/11KV GIS Sub-Station at Transport Nagar, Bhimpore, Daman.	49.00	24.50	24.50	0.00	0.00	0.00
4.	Establishment of 2x20MVA, 66/11KV GIS Sub-Station at Dabhel Checkpost, Dabhel, Daman.	48.72	0.00	0.00	24.36	24.36	0.00
5.	Establishment of 2x20MVA, 66/11KV GIS Sub-Station at Kachigam Char Rasta near EPL, Daman.	48.72	0.00	0.00	0.00	24.36	24.36
6.	Capacity Augmentation of 66/11KV Ringawada Sub-Station from 60MVA to 123MVA.	11.40	5.70	5.70	0.00	0.00	0.00
7.	Capacity Augmentation of 66/11KV Kachigam-II Sub-Station from 45MVA to 76.5MVA.	6.25	0.00	6.25	0.00	0.00	0.00
8.	Establishment of 66KV D/C Transmission line Kesariya - Malala (Diu) with 66KV Bays at both ends..	37.28	0.00	0.00	0.00	18.64	18.64
9.	Strengthning and augmentation of 66KV Dalwada-Dabhel Line	6.35	3.18	3.18	0.00	0.00	0.00
10.	Replacement and upgradation of old 220KV CT, 220KV PT, 220KV Isolators & 220KV LA & control cable of 220/66KV Magarwada Sub-Station.	7.69	1.54	1.54	1.54	1.54	1.54

S. No.	Name of Scheme	Total amount	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
11.	Replacement and upgradation of old 66KV CT, 66KV PT and 66KV Isolators of all 66/11KV Sub-Station of Daman and Diu.	27.55	0.00	6.89	6.89	6.89	6.89
12.	Establishment of 66KV Kachigam-Zari(Kachigam-II) Transmission line	7.01	0.00	3.51	3.51	0.00	0.00
13.	Establishment of 66KV Multicircuit Transmission line for 66KV Varkund Dalwada D/C line	7.06	0.00	0.00	0.00	0.00	7.06
14.	Replacement and augmentation of old 66/11KV Power Transformer from 15 MVA to 20 MVA at 66/11KV Kachigam, Dabhel and Dalwada substations, Daman	32.15	12.86	12.86	6.43	0.00	0.00
15.	Upgradation of bus bar protection scheme of 220KV and 66KV at 220/66KV Magarwada Sub-Station	1.50	1.50	0.00	0.00	0.00	0.00
16.	SCADA installation of 66/11KV Varkund, 66/11KV and Dalwada Sub-Station at Daman	1.50	1.50	0.00	0.00	0.00	0.00
17.	Establishment of new control room of 66/11KV Dabhel Sub-Station & 66/11KV Dalwada Sub-Station at Daman	18.90	9.45	0.00	0.00	9.45	0.00
18.	Replacement / Upgradation of SCADA / EMS System at SLDC, Daman	35.00	17.50	17.50	0.00	0.00	0.00
19.	Replacement and Augmentation of old 50 MVA transformer with 160MVA Transformer at 220/66 KV Magarwada and 220/66KV Ringanwada substations	40.00	0.00	0.00	20.00	0.00	20.00
20.	Erection of various line work, sub-station equipment, 220 KV Tower Strengthening work, office equipment, IT equipment and other misc. under Normal Development scheme	22.00	5.00	4.00	4.00	4.00	5.00
	Total	**480.08**	**82.72**	**85.91**	**81.12**	**118.03**	**112.28**

The capitalisation schedule proposed by the petitioner during the Control Period is as follows:

TABLE 3-74 CAPITALISATION SCHEDULE PROPOSED BY THE PETITIONER FOR CONTROL PERIOD *(RS. CRORE)*

S. No.	Name of Scheme	Total amount	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
1.	Establishment of 2x100MVA, 220/66KV GIS Sub-Station at Dabhel, Daman.	49.00	0.00	0.00	0.00	0.00	49.00
2.	Construction of 220KV multi circuit Transmission line from Magarwada PGCIL-Dabhel via 66/11 kV Kachigam Sub-station.	23.00	0.00	0.00	0.00	0.00	23.00
3.	Establishment of 2x20MVA, 66/11KV GIS Sub-Station at Transport Nagar, Bhimpore, Daman.	49.00	0.00	49.00	0.00	0.00	0.00
4.	Establishment of 2x20MVA, 66/11KV GIS Sub-Station at Dabhel Checkpost, Dabhel, Daman.	48.72	0.00	0.00	0.00	48.72	0.00
5.	Establishment of 2x20MVA, 66/11KV GIS Sub-Station at Kachigam Char Rasta near EPL, Daman.	48.72	0.00	0.00	0.00	0.00	48.72
6.	Capacity Augmentation of 66/11KV Ringawada Sub-Station from 60MVA to 123MVA.	11.40	0.00	11.40	0.00	0.00	0.00
7.	Capacity Augmentation of 66/11KV Kachigam-II Sub-Station from 45MVA to 76.5MVA.	6.25	0.00	6.25	0.00	0.00	0.00
8.	Establishment of 66KV D/C Transmission line Kesariya - Malala (Diu) with 66KV Bays at both ends..	37.28	0.00	0.00	0.00	0.00	37.28
9.	Strengthning and augmentation of 66KV Dalwada-Dabhel Line	6.35	0.00	6.35	0.00	0.00	0.00
10.	Replacement and upgradation of old 220KV CT, 220KV PT, 220KV Isolators & 220KV LA & control cable of 220/66KV Magarwada Sub-Station.	7.69	1.54	1.54	1.54	1.54	1.54
11.	Replacement and upgradation of old 66KV CT, 66KV PT and 66KV Isolators of all 66/11KV Sub-Station of Daman and Diu.	27.55	0.00	6.89	6.89	6.89	6.89
12.	Establishment of 66KV Kachigam-Zari(Kachigam-II) Transmission line	7.01	0.00	0.00	7.01	0.00	0.00

S. No.	Name of Scheme	Total amount	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
13.	Establishment of 66KV Multicircuit Transmission line for 66KV Varkund Dalwada D/C line	7.06	0.00	0.00	0.00	0.00	7.06
14.	Replacement and augmentation of old 66/11KV Power Transformer from 15 MVA to 20 MVA at 66/11KV Kachigam, Dabhel and Dalwada substations, Daman	32.15	12.86	12.86	6.43	0.00	0.00
15.	Upgradation of bus bar protection scheme of 220KV and 66KV at 220/66KV Magarwada Sub-Station	1.50	1.50	0.00	0.00	0.00	0.00
16.	SCADA installation of 66/11KV Varkund, 66/11KV and Dalwada Sub-Station at Daman	1.50	1.50	0.00	0.00	0.00	0.00
17.	Establishment of new control room of 66/11KV Dabhel Sub-Station & 66/11KV Dalwada Sub-Station at Daman	18.90	9.45	0.00	0.00	9.45	0.00
18.	Replacement / Upgradation of SCADA / EMS System at SLDC, Daman	35.00	0.00	35.00	0.00	0.00	0.00
19.	Replacement and Augmentation of old 50 MVA transformer with 160MVA Transformer at 220/66 KV Magarwada and 220/66KV Ringanwada substations	40.00	0.00	0.00	20.00	0.00	20.00
20.	Erection of various line work, sub-station equipment, 220 KV Tower Strengthening work, office equipment, IT equipment and other misc. under Normal Development scheme	22.00	5.00	4.00	4.00	4.00	5.00
	Total	**480.08**	**31.85**	**133.28**	**45.87**	**70.59**	**198.48**

Commission's Analysis:

The Commission appreciates the Petitioner's efforts to upgrade and modernize its existing transmission system. However, the Commission observes that despite Commission's directive for quarterly submission of CAPEX and Capitalisation report the Petitioner has not updated the Commission regarding the execution and completion of the schemes undertaken by it in the existing Control Period on a

quarterly basis. The Commission directs the petitioner to ensure submission of progress of each scheme on a quarterly basis as per Clause 8.6 (f) of the JERC MYT Regulations:

> *"8.6. Capital Investment Plan/Additional Capital Investment Plan*
>
> *8.6.(f) The Licensee shall* ***submit a report for every quarter*** *detailing the progress of the capital expenditure and capitalization undertaken against the proposed in the Capital Investment Plan, on or before the last Day of the month succeeding the respective quarter for review by the Commission.*

The Commission, taking serious note, warns the Petitioner that if it is found that the Petitioner consistently fails to execute the approved capital expenditure and capitalisation during each quarter or if the Petitioner fails to provide the above reports on time, the Commission would be constrained to take appropriate action in accordance with Electricity Act'2003.

Before approving the capital expenditure and capitalisation of schemes for the next Control Period FY 2025- 26 to FY 2029-30, the Commission has analysed the actual status of the schemes approved in the Business Plan for the previous Control Period FY 2022-23 to FY 2024-25.

Accordingly, the Commission has analysed the capital expenditure and capitalisation submitted by the Petitioner. Based on the Petitioner's submissions and the overall approach discussed herein, the scheme wise analysis of proposed capital expenditure plan by the Commission is as given in subsequent sections.

3.41 Establishment of 2x100MVA, 220/66KV GIS Sub-Station at Dabhel, Daman

Petitioner's Submission:

The Petitioner proposes establishing a 2x100 MVA, 220/66kV GIS substation at Dabhel to supply power to the existing 66/11kV Dabhel substation and the

proposed Dabhel Check Post substation, while meeting future load growth and improving system reliability.

This scheme was earlier approved in the Business Plan for MYT FY2022-23 to FY2024-25 but was deferred due to lower-than-expected load growth. It is now being re-proposed for the MYT period FY2025-26 to FY2029-30.

Currently, Dabhel substation is fed via a 66kV D/C line from the 220/66kV Magarwada substation through Kachigam. The proposed GIS substation at Dabhel will reduce loading on this corridor and strengthen the regional transmission network.

TABLE 3-75 CAPEX AND CAPITALISATION PROPOSED BY THE PETITIONER FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Establishment of 2x100MVA, 220/66KV GIS Sub-Station at Dabhel, Daman.	49.00	0.00	0.00	9.80	19.60	19.00
Year Wise Capitalisation							
1	Establishment of 2x100MVA, 220/66KV GIS Sub-Station at Dabhel, Daman.	49.00	0.00	0.00	0.00	0.00	49.00

Commission's Analysis:

The Commission has reviewed the Petitioner's proposal for establishing a 2x100 MVA, 220/66kV GIS substation at Dabhel. This substation will supply power to the existing 66/11kV Dabhel substation and the proposed Dabhel Check Post substation, addressing future load growth and enhancing system reliability.

While the scheme was previously approved in the Business Plan for the MYT FY 2019-20 to FY 2021-22 and again in Business Plan for MYT FY 2022-23 to FY 2024-25 but deferred due to lower-than-expected load growth, due to non-execution of the same. The Commission has taken such non-execution of the CAPEX of such

schemes, not only once but twice, very seriously. Further, the Commission observes that DNHDDPDCL has also made objection over such scheme on a plea that it has already proposed 220/33 kV at Bhenslora and there may be duplicacy of transmission system. The Commission is of the opinion that the scheme of 220/33 kV substation at Bhenslore is at present only on thought process of DNHDDPDCL and has yet not been approved by the Commission. The Commission opines that the approval of such scheme under RTM route is dependent on CAPEX outlay. If the CAPEX outlay is more than the threshold value the only route of establishment is TBCB route. The RTM route is only in case of CAPEX outlay less than the threshold value, therefore, the Commission thinks it appropriate to accord in principle approval of such scheme subject to the condition that DNHDDPCL shall obtain approval of such scheme separately by filing Petition for its approval along with DPR and other relevant documents on adhering MYT Tariff Regulations, 2024.

Accordingly, the proposed capital expenditure is approved, in line with the updated business plan and system expansion requirements.

TABLE 3-76 CAPEX APPROVED BY THE COMMISSION FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Establishment of 2x100MVA, 220/66KV GIS Sub-Station at Dabhel, Daman.	49.00	0.00	0.00	9.80	19.60	19.00

3.42 Construction of 220KV multi circuit Transmission line from Magarwada PGCIL-Dabhel via Kachigam

Petitioner's Submission:

The Petitioner proposes construction of a 220kV multi-circuit transmission line to feed the planned 220/66kV GIS substation at Dabhel, Daman. This aims to reduce loading on the existing 66kV Magarwada–Kachigam–Dabhel line.

The new line will connect to available bays at the 400/220kV PGCIL Magarwada substation, linking Daman to the CTU network. This will serve as the third 220kV power source for Daman, enhancing Available Transfer Capacity (ATC), system reliability, and providing an alternate supply route in case of outages at the Magarwada or Ringanwada substations.

TABLE 3-77 CAPEX AND CAPITALISATION PROPOSED BY THE PETITIONER FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Construction of 220KV multi circuit Transmission line from Magarwada PGCIL-Dabhel via 66/11 kV Kachigam Sub-station.	23.00	0.00	0.00	4.60	9.20	9.20
Year Wise Capitalisation							
1	Construction of 220KV multi circuit Transmission line from Magarwada PGCIL-Dabhel via 66/11 kV Kachigam Sub-station.	23.00	0.00	0.00	0.00	0.00	23.00

Commission's Analysis:

The Commission has reviewed the Petitioner's proposal for the construction of a 220kV multi-circuit transmission line to feed the planned 220/66kV GIS substation at Dabhel, Daman. This project aims to alleviate the loading on the existing 66kV Magarwada–Kachigam–Dabhel line and improve overall system reliability.

The proposed line will connect to available bays at the 400/220kV PGCIL Magarwada substation, thereby linking Daman to the CTU network. This will provide a third 220kV power source for Daman, enhancing Available Transfer Capacity (ATC) and ensuring a more robust supply by offering an alternate route in case of outages at the Magarwada or Ringanwada substations.

Given the strategic importance of this upgrade in terms of system stability, capacity, and future load growth, the proposed capital expenditure is hereby approved.

TABLE 3-78 CAPEX APPROVED BY THE COMMISSION FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Construction of 220KV multi circuit Transmission line from Magarwada PGCIL-Dabhel via 66/11 kV Kachigam Sub-station.	23.00	0.00	0.00	4.60	9.20	9.20

3.43 Establishment of 2x20MVA, 66/11KV GIS Sub-Station at Transport Nagar, Bhimpore, Daman

Petitioner's Submission:

The Petitioner proposes erection of a 66kV line and a 66/11kV, 2x20 MVA GIS substation at Panchal Industrial Area, Bhimpore to share the load of existing Dalwada and Bhimpore substations, meet future demand, and enhance reliability.

The scheme was approved under the MYT FY2022-23 to FY2024-25 Business Plan but was delayed due to land acquisition issues. It is now re-proposed for MYT FY2025-26 to FY2029-30.

Located at the load center of Panchal Industrial Area and Silver Industrial Estate, the new substation will offload existing substations and partially serve the Devka area, improving power supply reliability and supporting N-1 contingency compliance.

TABLE 3-79 CAPEX AND CAPITALISATION PROPOSED BY THE PETITIONER FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Establishment of 2x20MVA, 66/11KV GIS Sub-Station at	49.00	24.50	24.50	0.00	0.00	0.00

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
	Transport Nagar, Bhimpore, Daman						
Year Wise Capitalisation							
1	Establishment of 2x20MVA, 66/11KV GIS Sub-Station at Transport Nagar, Bhimpore, Daman	49.00	0.00	49.00	0.00	0.00	0.00

Commission's Analysis:

The Commission has reviewed the Petitioner's proposal for the erection of a 66kV line and a 66/11kV, 2x20 MVA GIS substation at Panchal Industrial Area, Bhimpore. The proposed substation is intended to offload the existing Dalwada and Bhimpore substations, meet future demand, and improve overall system reliability.

The project was initially approved in the MYT FY2022-23 to FY2024-25 Business Plan but was delayed due to land acquisition issues. It is now re-proposed for the MYT FY2025-26 to FY2029-30 period.

The Commission has observed that the Petitioner, has resubmitted the revised scheme before CEA for approval of the escalation amounting to Rs. 50.40 Crore. The Commission relying the reply of the DNHDDPCL with respect to revised estimated cost of Rs. 50.40 Crore which is beyond threshold limit of 50 Crore, hence TBCB guidelines are to be followed for such schemes which are over 50 Crore.

3.44 Establishment of 2x20MVA, 66/11KV GIS Sub-Station at Dabhel Checkpost, Dabhel, Daman

Petitioner's Submission:

The Petitioner proposes the erection of a 66kV line and a 66/11kV, 2x20 MVA GIS substation at Dabhel, Daman to share the load of the existing 66/11kV Dabhel substation, meet future demand, and enhance supply reliability.

Though previously approved under the MYT FY2022-23 to FY2024-25 Business Plan, the scheme was delayed due to land acquisition issues and is now re-proposed for FY2025-26 to FY2029-30.

The existing Dabhel substation, fed via the 66kV Magarwada–Kachigam–Dabhel line, is heavily loaded and lacks space for additional feeder panels. The proposed GIS substation at Dabhel Check Post will offload part of this demand, including from the Somnath area, improving N-1 contingency compliance and ensuring stable supply to industrial and residential consumers.

TABLE 3-80 CAPEX AND CAPITALISATION PROPOSED BY THE PETITIONER FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Establishment of 2x20MVA, 66/11KV GIS Sub-Station at Dabhel Checkpost, Dabhel, Daman.	48.72	0.00	0.00	24.36	24.36	0.00
Year Wise Capitalisation							
1	Establishment of 2x20MVA, 66/11KV GIS Sub-Station at Dabhel Checkpost, Dabhel, Daman.	48.72	0.00	0.00	0.00	48.72	0.00

Commission's Analysis:

The Commission has reviewed the Petitioner's submission regarding the erection of a 66kV line and a 66/11kV, 2x20 MVA GIS substation at Dabhel, Daman. The proposed infrastructure aims to share the load of the existing 66/11kV Dabhel substation, address future demand, and improve supply reliability in the region.

The project was initially approved under the MYT FY2022-23 to FY2024-25 Business Plan but faced delays due to land acquisition issues. It is now re-proposed for the FY2025-26 to FY2029-30 period.

The existing Dabhel substation is heavily loaded and lacks the space to accommodate additional feeder panels. The proposed GIS substation at Dabhel Check Post will alleviate this load, particularly from the Somnath area, improving N-1 contingency compliance and ensuring a stable supply to both industrial and residential consumers.

Given the critical need to improve system reliability and cater to future demand, the proposed capital expenditure is approved as submitted.

TABLE 3-81 CAPEX APPROVED BY THE COMMISSION FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Establishment of 2x20MVA, 66/11KV GIS Sub-Station at Dabhel Checkpost, Dabhel, Daman.	48.72	0.00	0.00	24.36	24.36	0.00

3.45 Establishment of 2x20MVA, 66/11KV GIS Sub-Station at Kachigam Char Rasta near EPL, Daman

Petitioner's Submission:

The Petitioner proposes erection of a 66kV line and a 66/11kV, 2x20 MVA GIS substation at Kachigam Char Rasta, near EPL, Daman to offload existing 66/11kV Kachigam and Kachigam-II substations, support future demand, and improve reliability.

Strategically located at the load center of Magalwadi, Laxminarayan, Kachigam Check Post, and Modern Industrial Estates, the new substation will shift load from the existing Kachigam substation, enhancing N-1 contingency compliance and supply reliability. This will also allow the existing Kachigam substation to cater to additional demand from Somnath Industrial Area.

TABLE 3-82 CAPEX AND CAPITALISATION PROPOSED BY THE PETITIONER FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Establishment of 2x20MVA, 66/11KV GIS Sub-Station at Kachigam Char Rasta near EPL, Daman	48.72	0.00	0.00	0.00	24.36	24.36
Year Wise Capitalisation							
1	Establishment of 2x20MVA, 66/11KV GIS Sub-Station at Kachigam Char Rasta near EPL, Daman	48.72	0.00	0.00	0.00	0.00	48.72

Commission's Analysis:

The Commission has reviewed the Petitioner's submission regarding the erection of a 66kV line and a 66/11kV, 2x20 MVA GIS substation at Kachigam Char Rasta, near EPL, Daman. The proposed infrastructure aims to offload the existing 66/11kV Kachigam and Kachigam-II substations, support future load growth, and enhance system reliability.

Strategically located near key load centers such as Magalwadi, Laxminarayan, Kachigam Check Post, and Modern Industrial Estates, the new substation will redistribute load from the existing Kachigam substation, thereby improving N-1 contingency compliance and overall supply reliability. Furthermore, this addition will enable the existing Kachigam substation to meet the growing demand from the Somnath Industrial Area.

The proposed capital expenditure is aligned with system strengthening and growth objectives. Therefore, the Commission approves the proposed CAPEX and its capitalization as submitted.

TABLE 3-83 CAPEX APPROVED BY THE COMMISSION FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
1	Establishment of 2x20MVA, 66/11KV GIS Sub-Station at Kachigam Char Rasta near EPL, Daman	48.72	0.00	0.00	0.00	24.36	24.36

3.46 Capacity Augmentation of 66/11KV Ringawada Sub-Station from 60MVA to 123MVA

Petitioner's Submission:

The Petitioner proposes installation of 2x31.5 MVA power transformers at the 66/11kV Ringanwada Substation, increasing its capacity from 60 MVA to 123 MVA.

The substation supplies power to Ringanwada, Kalariya, and Somnath areas. This augmentation will accommodate future load growth and enable load transfer from Kachigam and Dabhel via the 11kV network during contingencies. Transformer bay space is already available, facilitating seamless implementation.

TABLE 3-84 CAPEX AND CAPITALISATION PROPOSED BY THE PETITIONER FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Capacity Augmentation of 66/11KV Ringawada Sub-Station from 60MVA to 123MVA	11.40	5.70	5.70	0.00	0.00	0.00
Year Wise Capitalisation							
1	Capacity Augmentation of 66/11KV Ringawada Sub-Station from 60MVA to 123MVA	11.40	0.00	11.40	0.00	0.00	0.00

Commission's Analysis:

The Commission has reviewed the Petitioner's proposal for the installation of 2x31.5 MVA power transformers at the 66/11kV Ringanwada Substation to increase its capacity from 60 MVA to 123 MVA. This capacity enhancement is critical to meet

the growing demand in the Ringanwada, Kalariya, and Somnath areas, and will facilitate load transfer from Kachigam and Dabhel substations via the 11kV network during contingencies.

The availability of transformer bay space at the substation ensures smooth execution of the proposed works. This upgrade is essential for accommodating future load growth, enhancing system flexibility, and ensuring a reliable power supply.

The proposed capital expenditure is approved as they align with the long-term system strengthening goals. The Commission, therefore, approves the proposal as submitted.

TABLE 3-85 CAPEX APPROVED BY THE COMMISSION FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Capacity Augmentation of 66/11KV Ringawada Sub-Station from 60MVA to 123MVA	11.40	5.70	5.70	0.00	0.00	0.00

3.47 Capacity Augmentation of 66/11KV Kachigam-II Sub-Station from 45MVA to 76.5MVA

Petitioner's Submission:

The Petitioner proposes installation of 1x31.5 MVA, 66/11kV power transformer at Kachigam-II Substation, enhancing its transformation capacity from 45 MVA to 76.5 MVA.

The substation serves Ganesh Industrial Estate, Premier Industrial Estate, and Zari Causeway-side industries. This augmentation will support load growth and improve supply reliability. Transformer bay space is already available for implementation.

TABLE 3-86 CAPEX AND CAPITALISATION PROPOSED BY THE PETITIONER FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Capacity Augmentation of 66/11KV Kachigam-II Sub-Station from 45MVA to 76.5MVA.	6.25	0.00	6.25	0.00	0.00	0.00
Year Wise Capitalisation							
1	Capacity Augmentation of 66/11KV Kachigam-II Sub-Station from 45MVA to 76.5MVA.	6.25	0.00	6.25	0.00	0.00	0.00

Commission's Analysis:

The Petitioner's proposal to install 1x31.5 MVA, 66/11kV power transformer at Kachigam-II Substation, increasing its capacity from 45 MVA to 76.5 MVA, has been reviewed. This enhancement will effectively support the growing load demand from the Ganesh Industrial Estate, Premier Industrial Estate, and Zari Causeway-side industries, while improving supply reliability.

The availability of transformer bay space ensures seamless implementation. The proposed CAPEX is approved, as they align with the need to strengthen system capacity and ensure reliable service delivery.

TABLE 3-87 CAPEX APPROVED BY THE COMMISSION FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Capacity Augmentation of 66/11KV Kachigam-II Sub-Station from 45MVA to 76.5MVA.	6.25	0.00	6.25	0.00	0.00	0.00

3.48 Establishment of 66KV D/C Transmission line Kesariya - Malala (Diu) with 66KV Bays at both ends

Petitioner's Submission:

The Petitioner has submitted that the presently, 66/11 KV Malala Substation, Diu is fed through 66 KV D/C Transmission Lines emanating from 220/66 KV Kansari and 66/11 KV Una Substation of GETCO. During Tauktae cyclone, 66 KV towers feeding power to Diu District were damaged resulting into black out in Diu District for several days. Diu District besides being a Tourist destination is prone to cyclones frequently. Hence to avoid such situation in future, it is proposed to provide additional 66 KV Transmission line from 66/11 KV Kasariya substation (nearest to Diu district) upto 66/11 KV Malala substation, Diu and to increase the reliability of power supply of Diu District.

TABLE 3-88 CAPEX AND CAPITALISATION PROPOSED BY THE PETITIONER FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Establishment of 66KV D/C Transmission line Kesariya - Malala (Diu) with 66KV Bays at both ends	37.28	0.00	0.00	0.00	18.64	18.64
Year Wise Capitalisation							
1	Establishment of 66KV D/C Transmission line Kesariya - Malala (Diu) with 66KV Bays at both ends	37.28	0.00	0.00	0.00	0.00	37.28

Commission's Analysis:

The Petitioner's submission regarding the need for enhanced reliability of power supply to Diu District, following the damage caused by Cyclone Tauktae, has been reviewed. The proposal to establish an additional 66kV transmission line from 66/11kV Kasariya Substation to 66/11kV Malala Substation is well-founded, considering the frequent cyclone risk in the region.

This new line will improve the resilience and reliability of power supply to Diu District, a critical area for both residential and tourism activities. The proposed

CAPEX is approved, as they align with the objectives of strengthening infrastructure and ensuring uninterrupted supply to a cyclone-prone region.

TABLE 3-89 CAPEX AND CAPITALISATION APPROVED BY THE COMMISSION FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Establishment of 66KV D/C Transmission line Kesariya - Malala (Diu) with 66KV Bays at both ends	37.28	0.00	0.00	0.00	18.64	18.64

3.49 Strengthening and augmentation of 66KV Dalwada-Dabhel Transmission Line

Petitioner's Submission:

The Petitioner has submitted that the scheme is provided for ring main system of 66 KV network in Daman District. 66KV Dalwada-Dabhel line is very old line which used to be incoming line from Vapi S/S, GETCO when there was no 220KV sub-station in Daman. Various towers of this line are with damaged foundation and are in unstable condition. The towers have bend angles as well as some are missing. Hence it is proposed to provide new foundation with towers and conductors to utilize the line for connecting Dabhel and Dalwada sub-station in ring main system.

TABLE 3-90 CAPEX AND CAPITALISATION PROPOSED BY THE PETITIONER FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Strengthening and augmentation of 66KV Dalwada-Dabhel Line	6.35	3.18	3.18	0.00	0.00	0.00
Year Wise Capitalisation							
1	Strengthening and augmentation of 66KV Dalwada-Dabhel Line	6.35	0.00	6.35	0.00	0.00	0.00

Commission's Analysis:

The Petitioner's submission regarding the aging 66kV Dalwada-Dabhel line and its associated infrastructure, which is in a compromised state, is acknowledged. The proposal to replace the damaged foundations, towers, and conductors, in order to integrate this line into a ring main system, is considered necessary to ensure the long-term reliability and stability of the Daman District's power supply network.

Given the critical need to address the unstable condition of the infrastructure and enhance system reliability, the proposed CAPEX for this project is approved. This upgrade will significantly improve operational stability and provide enhanced security to the supply network.

TABLE 3-91 CAPEX APPROVED BY THE COMMISSION FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Strengthening and augmentation of 66KV Dalwada-Dabhel Line	6.35	3.18	3.18	0.00	0.00	0.00

3.50 Replacement and upgradation of old 220KV CT, 220KV PT, 220KV Isolators & 220KV LA & control cable of 220/66KV Magarwada Sub-Station

Petitioner's Submission:

The Petitioner has submitted that this scheme is considered to replace existing old 220KV equipment's at 220/66/11KV Magarwada Sub-Station to increase the reliability of power supply.

220/66/11KV Magarwada Sub-Station was commissioned in 2002-03. The equipment's at Magarwada Sub-station has manufacturing year of 2000-01. Due to aging of equipment's there are multiple issues like oil leakage from 220KV CT & 220KV PT, corrosion of equipment, alignment issues of isolators, etc. To rectify this problem replacement and upgradation of line and transformer bay are required. Hence it is proposed to replace old 220KV CT, 220KV PT, 220KV Isolator, 220KV LA

and control cable of 220/66KV Magarwada Sub-Station to increase the reliability of power supply.

TABLE 3-92 CAPEX AND CAPITALISATION PROPOSED BY THE PETITIONER FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Replacement and upgradation of old 220KV CT, 220KV PT, 220KV Isolators & 220KV LA & control cable of 220/66KV Magarwada Sub-Station	7.69	1.54	1.54	1.54	1.54	1.54
Year Wise Capitalisation							
1	Replacement and upgradation of old 220KV CT, 220KV PT, 220KV Isolators & 220KV LA & control cable of 220/66KV Magarwada Sub-Station	7.69	1.54	1.54	1.54	1.54	1.54

Commission's Analysis:

The Petitioner's proposal to replace and upgrade the aging 220kV equipment at the 220/66/11kV Magarwada Substation is approved. Given the operational issues due to the equipment's age, such as oil leakage, corrosion, and alignment problems, the proposed replacement of the 220kV CT, PT, isolators, LA, and control cables is essential for enhancing system reliability. The proposed CAPEX is therefore authorized to improve the operational efficiency and reliability of the Magarwada Substation.

TABLE 3-93 CAPEX APPROVED BY THE COMMISSION FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Replacement and upgradation of old 220KV CT, 220KV PT, 220KV Isolators &	7.69	1.54	1.54	1.54	1.54	1.54

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
	220KV LA & control cable of 220/66KV Magarwada Sub-Station						

3.51 Replacement and upgradation of old 66KV CT, 66KV PT and 66KV Isolators of all 66/11KV Sub-Station of Daman and Diu

Petitioner's Submission:

The Petitioner has submitted that this scheme is considered to replace existing old 66KV equipment's as at 66/11KV Sub-Station of Daman & Diu to increase the reliability of power supply.

66/11KV Sub-station has equipment's which are in service for more than 25 years. Due to aging of equipment's there are multiple issues like oil leakage from CT & PT, corrosion of equipments, alignment issues of isolators, etc. To rectify this problem replacement and upgradation of line and transformer bay are required. Hence it is proposed to replace old 66KV CT, 66KV PT and 66KV Isolators of all 66/11KV Sub-Station of Daman & Diu to increase the reliability of power supply.

TABLE 3-94 CAPEX AND CAPITALISATION PROPOSED BY THE PETITIONER FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Replacement and upgradation of old 66KV CT, 66KV PT and 66KV Isolators of all 66/11KV Sub-Station of Daman and Diu	27.55	0.00	6.89	6.89	6.89	6.89
Year Wise Capitalisation							
1	Replacement and upgradation of old 66KV CT, 66KV PT and 66KV Isolators of all 66/11KV Sub-Station of Daman and Diu	27.55	0.00	6.89	6.89	6.89	6.89

Commission's Analysis:

The Petitioner's proposal to replace the outdated 66kV equipment at the 66/11kV substations in Daman & Diu is approved. Given the equipment's age and the operational challenges such as oil leakage, corrosion, and alignment issues, the proposed replacement of the 66kV CT, PT, and isolators is crucial for enhancing the reliability and safety of the power supply. The proposed CAPEX is therefore authorized to support the necessary upgrades and ensure improved operational efficiency.

TABLE 3-95 CAPEX APPROVED BY THE COMMISSION FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Replacement and upgradation of old 66KV CT, 66KV PT and 66KV Isolators of all 66/11KV Sub-Station of Daman and Diu	27.55	0.00	6.89	6.89	6.89	6.89

3.52 Establishment of 66KV Kachigam-Zari (Kachigam-II) Transmission line

Petitioner's Submission:

The Petitioner has submitted that presently, 66/11 KV Kachigam-II Sub-station is radially connected through 66 KV Magawada-Kachigam-II D/C Transmission Line. The installed capacity of 66/11 Kachigam-II Sub-station is 50 MVA. In order to provide ring main system of 66/11 KV Kachigam-II substation, it is proposed to provide 66 KV D/C Transmission line from 66 KV Kachigam substation to 66/11 KV Kachigam-II substation.

TABLE 3-96 CAPEX AND CAPITALISATION PROPOSED BY THE PETITIONER FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Establishment of 66KV Kachigam-Zari (Kachigam-II) Transmission line	7.01	0.00	3.51	3.51	0.00	0.00
Year Wise Capitalisation							

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
1	Establishment of 66KV Kachigam-Zari (Kachigam-II) Transmission line	7.01	0.00	0.00	7.01	0.00	0.00

Commission's Analysis:

The Petitioner's proposal to establish a 66kV D/C transmission line from 66kV Kachigam Substation to 66/11kV Kachigam-II Substation, aimed at creating a ring main system, is approved. This will enhance the reliability and security of the power supply, improving the overall system performance. The proposed CAPEX is therefore permitted to facilitate the necessary infrastructure development.

TABLE 3-97 CAPEX APPROVED BY THE COMMISSION FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Establishment of 66KV Kachigam-Zari (Kachigam-II) Transmission line	7.01	0.00	3.51	3.51	0.00	0.00

3.53 Establishment of 66KV Multicircuit Transmission line for 66KV Varkund Dalwada D/C line

Petitioner's Submission:

The Petitioner proposes a 66kV double circuit transmission line from Vad Chowky to the 66/11kV Dalwada Substation to enhance reliability for Dalwada, Bhimpore, and the proposed Panchal GIS Substation.

Currently, all three substations are radially fed via the 66kV Varkund–Dalwada D/C line from the 220/66kV Ringanwada Substation. With existing capacities of 80 MVA (Dalwada) and 50 MVA (Bhimpore), and planned upgrades including a new 2x20 MVA GIS at Panchal and Dalwada's augmentation to 100 MVA, a second power

source is essential. The proposed line will provide an alternate feed from 220kV Magarwada via Varkund, improving redundancy and system stability.

TABLE 3-98 CAPEX AND CAPITALISATION PROPOSED BY THE PETITIONER FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Establishment of 66KV Multicircuit Transmission line for 66KV Varkund Dalwada D/C line	7.06	0.00	0.00	0.00	0.00	7.06
Year Wise Capitalisation							
1	Establishment of 66KV Multicircuit Transmission line for 66KV Varkund Dalwada D/C line	7.06	0.00	0.00	0.00	0.00	7.06

Commission's Analysis:

The Petitioner's proposal for a 66kV double circuit transmission line from Vad Chowky to the 66/11kV Dalwada Substation is approved. This will enhance supply reliability for Dalwada, Bhimpore, and the proposed Panchal GIS Substation, addressing the need for a second power source and improving system redundancy. The CAPEX for this scheme is permitted, as it supports long-term stability and reliability of the network, particularly with the planned upgrades and expansion of substations.

TABLE 3-99 CAPEX APPROVED BY THE COMMISSION FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Establishment of 66KV Multicircuit Transmission line for 66KV Varkund Dalwada D/C line	7.06	0.00	0.00	0.00	0.00	7.06

3.54 Replacement and augmentation of old 66/11KV Power Transformer from 15 MVA to 20 MVA at 66/11KV Kachigam, Dabhel and Dalwada substations, Daman

Petitioner's Submission:

The Petitioner has submitted that the scheme is for enhancement and replacement of old 66/11KV Power Transformer from 15 MVA to 20 MVA at 66/11 KV Kachigam, Dalwada and Dabhel Sub-station, Daman to enhance the transformation capacity and increase reliability of power supply.

There are 2Nos 15MVA Transformer at Kachigam S/S, 4Nos 15MVA Transformer at Dabhel S/S and 4Nos 15MVA Transformer at Dalwada S/S which are in service for more than 25 years. This scheme will enhance and replace the old transformer with 20MVA transformer hence increasing the transformation capacity. The transformation capacity will be augmented from 100MVA to 110MVA at Kachigam Sub-Station, 80MVA to 100MVA at Dalwada Sub-Station & 90MVA to 110MVA at Dabhel Sub-Station. This will also increase reliability of power.

TABLE 3-100 CAPEX AND CAPITALISATION PROPOSED BY THE PETITIONER FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Replacement and augmentation of old 66/11KV Power Transformer from 15 MVA to 20 MVA at 66/11KV Kachigam, Dabhel and Dalwada substations, Daman	32.15	12.86	12.86	6.43	0.00	0.00
Year Wise Capitalisation							
1	Replacement and augmentation of old 66/11KV Power Transformer from 15 MVA to 20 MVA at 66/11KV Kachigam, Dabhel and Dalwada substations, Daman	32.15	12.86	12.86	6.43	0.00	0.00

Commission's Analysis:

The Petitioner's proposal for the enhancement and replacement of the old 66/11kV Power Transformers (15 MVA to 20 MVA) at Kachigam, Dalwada, and Dabhel Substations is approved. The proposed transformer upgrades will increase transformation capacity, improving supply reliability across the network. This will augment the capacity at Kachigam from 100 MVA to 110 MVA, at Dalwada from 80 MVA to 100 MVA, and at Dabhel from 90 MVA to 110 MVA, addressing the aging infrastructure and ensuring future load growth. The proposed CAPEX is permitted to support system reliability and operational efficiency.

TABLE 3-101 CAPEX APPROVED BY THE COMMISSION FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Replacement and augmentation of old 66/11KV Power Transformer from 15 MVA to 20 MVA at 66/11KV Kachigam, Dabhel and Dalwada substations, Daman	32.15	12.86	12.86	6.43	0.00	0.00

3.55 Upgradation of bus bar protection scheme of 220KV and 66KV at 220/66KV Magarwada Sub-Station

Petitioner's Submission:

The Petitioner proposes replacing the existing static relay-based bus bar differential protection with a numerical relay-based scheme for the 220kV and 66kV bus bars at the 220/66/11kV Magarwada Substation.

Commissioned in 2003, the substation currently uses outdated static relays for which spares are no longer available. Numerical relays offer faster response, enhanced reliability, and built-in disturbance recording for effective fault analysis.

This upgrade will improve protection system performance and operational reliability.

TABLE 3-102 CAPEX AND CAPITALISATION PROPOSED BY THE PETITIONER FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Upgradation of bus bar protection scheme of 220KV and 66KV at 220/66KV Magarwada Sub-Station	1.50	1.50	0.00	0.00	0.00	0.00
Year Wise Capitalisation							
1	Upgradation of bus bar protection scheme of 220KV and 66KV at 220/66KV Magarwada Sub-Station	1.50	1.50	0.00	0.00	0.00	0.00

Commission's Analysis:

The Petitioner's proposal to replace the existing static relay-based bus bar differential protection with a numerical relay-based scheme at the 220/66/11kV Magarwada Substation is approved. The current use of outdated static relays, for which spares are no longer available, poses a risk to system reliability. The proposed numerical relays will provide faster response times, enhanced protection performance, and include built-in disturbance recording, thereby improving fault analysis and operational reliability. The proposed CAPEX is therefore approved to modernize and strengthen the protection system.

TABLE 3-103 CAPEX APPROVED BY THE COMMISSION FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Upgradation of bus bar protection scheme of 220KV and 66KV at 220/66KV Magarwada Sub-Station	1.50	1.50	0.00	0.00	0.00	0.00

3.56 SCADA installation of 66/11KV Varkund, 66/11KV and Dalwada Sub-Station at Daman

Petitioner's Submission:

The Petitioner proposes installation, testing, and commissioning of a SCADA system along with compatible relays to enable remote monitoring and control of switchgear operations.

The system will ensure real-time data acquisition, breaker control, and event logging, with seamless integration to the centralized SCADA at SLDC. Relay replacement is included to support SCADA functionality and enhance system automation and reliability.

TABLE 3-104 CAPEX AND CAPITALISATION PROPOSED BY THE PETITIONER FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	SCADA installation of 66/11KV Varkund, 66/11KV and Dalwada Sub-Station at Daman	1.50	1.50	0.00	0.00	0.00	0.00
Year Wise Capitalisation							
1	SCADA installation of 66/11KV Varkund, 66/11KV and Dalwada Sub-Station at Daman	1.50	1.50	0.00	0.00	0.00	0.00

Commission's Analysis:

The Petitioner's proposal for the installation, testing, and commissioning of a SCADA system, along with compatible relays, is approved. The implementation of this system will enable remote monitoring and control of switchgear operations, ensuring real-time data acquisition, breaker control, and event logging. The integration with the centralized SCADA at SLDC will enhance system automation and operational reliability. The proposed CAPEX for this initiative is allowed to support the overall improvement in system functionality and efficiency.

TABLE 3-105 CAPEX APPROVED BY THE COMMISSION FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	SCADA installation of 66/11KV Varkund, 66/11KV and Dalwada Sub-Station at Daman	1.50	1.50	0.00	0.00	0.00	0.00

3.57 Establishment of new control room of 66/11KV Dabhel Sub-Station & 66/11KV Dalwada Sub-Station at Daman

Petitioner's Submission:

The Petitioner has submitted that the scheme, earlier approved for the FY2022–23 to FY2024–25 MYT period, is re-proposed for FY2025–26 to FY2029–30 due to delays in control room construction by PWD.

The 66/11kV Dalwada (commissioned in 1991) and Dabhel (commissioned in 1996) substations have deteriorated buildings with water leakage issues, posing safety risks—especially at Dabhel, a low-lying area prone to waterlogging. The proposal includes construction of new control room buildings at both locations to ensure operational safety and infrastructure reliability.

TABLE 3-106 CAPEX AND CAPITALISATION PROPOSED BY THE PETITIONER FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Establishment of new control room of 66/11KV Dabhel Sub-Station & 66/11KV Dalwada Sub-Station at Daman	18.90	9.45	0.00	0.00	9.45	0.00
Year Wise Capitalisation							
1	Establishment of new control room of 66/11KV Dabhel Sub-Station & 66/11KV Dalwada Sub-Station at Daman	18.90	9.45	0.00	0.00	9.45	0.00

Commission's Analysis:

The Petitioner's proposal for the construction of new control room buildings at 66/11kV Dalwada and Dabhel substations is approved. The earlier approval for the FY2022–23 to FY2024–25 MYT period, now re-proposed for FY2025–26 to FY2029–30, is understood due to delays in control room construction by PWD. Given the deteriorating condition of the existing buildings and safety concerns, particularly at Dabhel, the proposed infrastructure upgrades will enhance operational safety and reliability. The CAPEX for this scheme is allowed, recognizing the importance of mitigating water-related risks and ensuring long-term operational continuity.

TABLE 3-107 CAPEX APPROVED BY THE COMMISSION FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Establishment of new control room of 66/11KV Dabhel Sub-Station & 66/11KV Dalwada Sub-Station at Daman	18.90	9.45	0.00	0.00	9.45	0.00

3.58 Replacement / Upgradation of SCADA / EMS System at SLDC, Daman

Petitioner's Submission:

The Petitioner has submitted that SCADA/EMS systems deployed at National, Regional & State Load Despatch centres in India are critical Information Communication Technology (ICT) systems. These systems are the eyes & ears of the grid operation engineers at the load despatch centres for monitoring, coordinating & controlling the Indian grid in real time on 24x7 basis through the hierarchically connected control centres. Upgradation of the SCADA/EMS systems was carried out in WRLDC and associated SLDCs of Western Region in March 2016. With 7 years life (as per CERC regulation) next upgradation of the SCADA/EMS systems is due from 2023 onwards. The project has been taken up by GRID INDIA for all the regions of

India through the SCADA committee comprising of members from all the RLDCs & NLDC in Unified Load Dispatch Center (ULDC) scheme. SLDC, DD is also part of the scheme and has to implement the Upgradation of SCADA/EMS systems.

TABLE 3-108 CAPEX AND CAPITALISATION PROPOSED BY THE PETITIONER FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Replacement / Upgradation of SCADA / EMS System at SLDC, Daman	35.00	17.50	17.50	0.00	0.00	0.00
Year Wise Capitalisation							
1	Replacement / Upgradation of SCADA / EMS System at SLDC, Daman	35.00	0.00	35.00	0.00	0.00	0.00

Commission's Analysis:

The Petitioner's proposal for the upgradation of the SCADA/EMS systems as part of the Unified Load Dispatch Center (ULDC) scheme is acknowledged. Given the critical role of SCADA/EMS systems in grid monitoring, coordination, and real-time control at Load Despatch Centres, the need for timely system upgrades is well understood. The 7-year lifecycle, as per CERC regulations, justifies the proposed upgradation for the FY2023 onwards. The scheme's alignment with the national grid improvement initiative and its inclusion of SLDC, Daman & Diu, in the ULDC scheme is approved. The proposed CAPEX for this upgrade is authorized, ensuring enhanced grid reliability and operational efficiency.

TABLE 3-109 CAPEX APPROVED BY THE COMMISSION FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Replacement / Upgradation of SCADA / EMS System at SLDC, Daman	35.00	17.50	17.50	0.00	0.00	0.00

3.59 Replacement and Augmentation of old 50 MVA transformer with 160MVA Transformer at 220/66KV Magarwada and 220/66KV Ringanwada substations, Daman

Petitioner's Submission:

The Petitioner has submitted that this scheme is considered to replace old 50MVA Transformers with augmented capacity of 160MVA Transformer.

The existing 50MVA transformers are manufactured during the year 2000 and are in service since then. Due to aging of transformer, it is proposed to replace and augment the transformation capacity from 50 MVA to 160 MVA at 220/66 KV Ringanwada and 220/66 kV Magarwada substations. This will also improve the reliability and contingency of power.

TABLE 3-110 CAPEX AND CAPITALISATION PROPOSED BY THE PETITIONER FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Replacement and Augmentation of old 50 MVA transformer with 160MVA Transformer at 220/66 KV Magarwada and 220/66KV Ringanwada substations	40.00	0.00	0.00	20.00	0.00	20.00
Year Wise Capitalisation							
1	Replacement and Augmentation of old 50 MVA transformer with 160MVA Transformer at 220/66 KV Magarwada and 220/66KV Ringanwada substations	40.00	0.00	0.00	20.00	0.00	20.00

Commission's Analysis:

The Petitioner's proposal to replace the existing 50 MVA transformers with new 160 MVA transformers at the 220/66kV Ringanwada and 220/66kV Magarwada

substations is noted. Given the age and performance concerns of the existing transformers, which have been in service since 2000, the proposed augmentation will significantly improve transformation capacity, reliability, and system contingency. The proposed CAPEX for this replacement and capacity enhancement is approved, ensuring improved power supply stability and operational efficiency.

TABLE 3-111 CAPEX APPROVED BY THE COMMISSION FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Replacement and Augmentation of old 50 MVA transformer with 160MVA Transformer at 220/66 KV Magarwada and 220/66KV Ringanwada substations	40.00	0.00	0.00	20.00	0.00	20.00

3.60 Erection of various line work, sub-station equipment, 220 KV Tower Strengthening work, office equipment, IT equipment and other misc. under Normal Development scheme

Petitioner's Submission:

The Petitioner proposes a comprehensive scheme for strengthening and modernizing the transmission and distribution infrastructure to meet rising power demand and ensure long-term operational efficiency.

The scope includes erection of new transmission lines, installation of advanced substation equipment, and reinforcement of aging 66 kV towers to enhance load capacity and structural safety. It also includes modernization of office and IT infrastructure for improved data management, real-time monitoring, and operational control.

The initiative aims to improve system reliability, support future load growth, minimize outages, and ensure stable power supply, thereby contributing to the region's sustainable development.

TABLE 3-112 CAPEX AND CAPITALISATION PROPOSED BY THE PETITIONER FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Erection of various line work, sub-station equipment, 220 KV Tower Strengthening work, office equipment, IT equipment and other misc. under Normal Development scheme	22.00	5.00	4.00	4.00	4.00	5.00
Year Wise Capitalisation							
1	Erection of various line work, sub-station equipment, 220 KV Tower Strengthening work, office equipment, IT equipment and other misc. under Normal Development scheme	22.00	5.00	4.00	4.00	4.00	5.00

Commission's Analysis:

The Petitioner's proposal for strengthening and modernizing the transmission and distribution infrastructure, including new transmission lines, advanced substation equipment, and reinforcement of aging 66 kV towers, is acknowledged. This comprehensive scheme aligns with the growing power demand and will significantly enhance operational efficiency and system reliability. The inclusion of IT and office infrastructure upgrades for improved data management and real-time monitoring is also approved. The proposed CAPEX is approved to support long-term stability, minimize outages, and ensure a reliable power supply, contributing to the region's sustainable development.

TABLE 3-113 CAPEX APPROVED BY THE COMMISSION FOR THE SCHEME *(RS. CRORE)*

S. No.	Project Name	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
Year Wise Capital Expenditure							
1	Erection of various line work, sub-station equipment, 220 KV Tower Strengthening work, office equipment, IT equipment and other misc. under Normal Development scheme	22.00	5.00	4.00	4.00	4.00	5.00

3.61 Consolidated Capital Expenditure and Capitalization for MYT Control Period

Petitioner's Submission:

The consolidated capital expenditure and capitalization to be incurred by DNHDDPCL during the MYT Control Period FY 2025-26 to FY 2029-30 is provided in the table below:

TABLE 3-114 CONSOLIDATED CAPEX AND CAPITALIZATION PROPOSED FOR CONTROL PERIOD *(RS. CRORE)*

S. No.	Particulars	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
1	Petitioner's CAPEX	1,205.91	284.89	242.35	242.33	220.70	208.64
2	Petitioner's Capitalization	1,205.94	181.88	227.49	219.47	119.27	457.85

Commissions Analysis:

The Commission has undertaken a comprehensive assessment of the historical performance of the three erstwhile transmission entities, focusing on capital expenditure and capitalization trends during the previous control period. The analysis indicates that, on an aggregated basis, the actual capitalization achieved represented approximately 44% of the approved capitalization for that period, as detailed in the table below.

S. No.	Particulars	Project Cost	FY 2022-23	FY 2023-24	FY 2024-25
1	Total CAPEX Allowed	186.41	54.31	61.58	70.52

S. No.	Particulars	Project Cost	FY 2022-23	FY 2023-24	FY 2024-25
2	Total CAPEX Incurred	70.35	12.34	13.53	44.48
3	Total Capitalization Allowed	166.41	35.31	49.58	81.52
4	Total Capitalization Incurred	73.80	15.80	20.52	37.48
5	*% of Overall CAPEX Incurred to Allowed*	*38%*	*23%*	*22%*	*63%*
6	*% of Overall Capitalization Incurred to Allowed*	*44%*	*45%*	*41%*	*46%*

In light of this performance and to ensure a more realistic alignment with historical execution capabilities, the Commission is of the considered view that the capitalization should be restricted to 45% of the proposed capitalization excluding the disallowed schemes plan for the current period. This approach reflects a prudent and performance-based assessment, consistent with the past implementation efficiency of the legacy transmission entities.

The Commission, in principle approves CAPEX under the said schemes for Control Period subject to the condition that the Petitioner should obtain approval of such schemes separately by filing Petition along with DPR and other relevant documents adhering the JERC MYT regulations, 2024.

Based on the component-wise approved in aforesaid paragraphs of this Chapter, the Commission has approved overall consolidated CAPEX and Capitalization for the Control Period as per table below:

TABLE 3-115 CONSOLIDATED CAPEX AND CAPITALISATION APPROVED BY THE COMMISSION FOR CONTROL PERIOD *(RS. CRORE)*

S. No.	Particulars	Project Cost	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
1	CAPEX	1,010.08	259.90	178.47	212.35	190.71	168.65
2	Capitalization	454.53	81.85	72.72	98.76	53.67	147.53

3.62 Funding Plan for proposed CAPEX

On the basis of the detailed analysis of the cost parameters of the CAPEX, as shown above, the Petitioner can only consider equity up to 30% of the capital cost and the balance in excess of 30% shall be treated as normative debt as per provision 27.2 of the JERC MYT Regulations:

> *"Provided also that if the equity actually deployed is more than 30% of the capital cost, equity in excess of 30% shall be treated as a normative loan for the Licensee for determination of tariff."*

Based on the analysis of proposed funding for each of the schemes and the MYT Regulations stated above, the approved funding plan is given in the table below:

TABLE 3-116 APPROVED FUNDING PLAN FOR THE CONTROL PERIOD *(RS. CRORE)*

S. No.	Project Name	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29	FY 2029-30
A	Total Capitalisation in INR Cr	81.85	72.72	98.76	53.67	147.53
B	Debt (%)	70%	70%	70%	70%	70%
C	Equity (%)	30%	30%	30%	30%	30%
D	Normative Debt (INR Cr) (B x A)	57.29	50.90	69.13	37.57	103.27
E	Equity (INR Cr) (C x A)	24.55	21.81	29.63	16.10	44.26

Chapter 4: Performance Parameters for Control Period

4.1 Background

The determination of Aggregate Revenue Requirement has been done in accordance with the Joint Electricity Regulatory Commission for the State of Goa and Union territories (generation, transmission and distribution Multiyear tariff) Regulations.

4.2 Proposed Capacity Addition for MYT Control Period

Petitioner's Submission:

The Petitioner has projected the cumulative capacity addition to the tune of 1,180 MVA during the MYT Control Period. Capacity Addition proposed during each year of the Control Period is tabulated as under:

TABLE 4-1 PROPOSED CAPACITY ADDITION DURING MYT CONTROL PERIOD *(MVA)*

Particulars	FY 25-26 Projected	FY 26-27 Projected	FY 27-28 Projected	FY 28-29 Projected	FY 29-30 Projected
Capacity Addition	160	0.00	230.00	160.00	630.00

Commission's Analysis:

The Commission observes that the Petitioner has projected cumulative capacity addition to the tune of 1,108 MVA during the Control Period, however, there does not seem to have any consultation amongst the stakeholders/users. The Commission has also observed that CEA has also suggested the Petitioner to consult the Distribution utility for finalization of transmission system development with capacity addition, if any.

The Commission, however, has accorded in principle approval of the CAPEX as submitted by Petitioner subject to the condition that the Petitioner shall obtain approval of such schemes separately by filing Petition along with DPR and other relevant documents adhering the MYT regulations, 2024.

The following table provides the capacity addition as approved by the Commission:

TABLE 4-2 CAPACITY ADDITION DURING MYT CONTROL PERIOD APPROVED BY COMMISSION *(MVA)*

Particulars	FY 25-26 Projected	FY 26-27 Projected	FY 27-28 Projected	FY 28-29 Projected	FY 29-30 Projected
Capacity Addition	160	0.00	230.00	160.00	630.00

4.3 Manpower Planning for Control Period

Petitioner's Submission:

The Petitioner has submitted that the employee projections for the MYT Control Period FY 2025–26 to FY 2029–30 are based on planned recruitments and retirements. These projections consider the organization as a unified entity following the merger of DNHDDPCL, ED-DNH Transmission Division, and ED-Daman and Diu, as reflected in the table below.

TABLE 4-3 NOS. OF EMPLOYEES PROJECTED FOR THE CONTROL PERIOD *(Nos.)*

Particulars	FY 25-26 Projected	FY 26-27 Projected	FY 27-28 Projected	FY 28-29 Projected	FY 29-30 Projected
Total Opening Strength	89	87	86	87	88
New Posts to be Created	2	2	2	2	2
Retirement	4	3	1	1	4
Closing Man-Power	87	86	87	88	86

Commission's Analysis:

The following table provides the number of employees as Petitioner's submission and now approved by the Commission:

TABLE 4-4 NOS. OF EMPLOYEES APPROVED FOR THE CONTROL PERIOD *(Nos.)*

Particulars	FY 25-26 Projected	FY 26-27 Projected	FY 27-28 Projected	FY 28-29 Projected	FY 29-30 Projected
Total Opening Strength	89	87	86	87	88
New Posts to be Created	2	2	2	2	2
Retirement	4	3	1	1	4
Closing Man-Power	87	86	87	88	86

4.4 Transmission Loss Trajectory

Petitioner's Submission:

The Petitioner has projected 1.41% transmission loss target for each year of the Control Period from FY 2025-26 to FY 2029-30 as table below:

TABLE 4-5 TRANSMISSION LOSS TRAJECTORY PROPOSED BY PETITIONER FOR CONTROL PERIOD *(%)*

Particulars	FY 25-26 Projected	FY 26-27 Projected	FY 27-28 Projected	FY 28-29 Projected	FY 29-30 Projected
Transmission Loss (%)	1.41%	1.41%	1.41%	1.41%	1.41%

Commission's Analysis:

The following table provides the transmission loss as Petitioner's submission and now approved by the Commission:

TABLE 4-6 TRANSMISSION LOSS TRAJECTORY APPROVED BY COMMISSION FOR CONTROL PERIOD *(%)*

Particulars	FY 25-26 Projected	FY 26-27 Projected	FY 27-28 Projected	FY 28-29 Projected	FY 29-30 Projected
Transmission Loss (%)	1.41%	1.41%	1.41%	1.41%	1.41%

4.5 Transmission System Availability

Petitioner's Submission:

The Petitioner has projected the transmission system availability for each year of the Control Period from FY 2025-26 to FY 2029-30 as table below:

TABLE 4-7 TRANSMISSION SYSTEM AVAILABILITY PROJECTED BY PETITIONER *(%)*

Particulars	FY 25-26 Projected	FY 26-27 Projected	FY 27-28 Projected	FY 28-29 Projected	FY 29-30 Projected
Transmission System Availability (%)	99.15%	99.20%	99.25%	99.30%	99.35%

Commission's Analysis:

The following table provides the transmission system availability as Petitioner's submission and now approved by the Commission:

TABLE 4-8 TRANSMISSION SYSTEM AVAILABILITY APPROVED BY COMMISSION *(%)*

Particulars	FY 25-26 Projected	FY 26-27 Projected	FY 27-28 Projected	FY 28-29 Projected	FY 29-30 Projected
Transmission System Availability (%)	99.15%	99.20%	99.25%	99.30%	99.35%