



BUSINESS PLAN

Approval of Business Plan for MYT Control Period from FY
2022-23 to FY 2024-25

Petition No. 78/2022

For

Electricity Department Andaman & Nicobar Administration
(EDA&N)

August 1, 2022

JOINT ELECTRICITY REGULATORY COMMISSION

For the State of Goa and Union Territories,

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List of abbreviations

Abbreviation	Full Form
A&G	Administrative and General
Act	The Electricity Act, 2003
APR	Annual Performance Review
ARR	Aggregate Revenue Requirement
ATE	Appellate Tribunal of Electricity
CAGR	Compound Annualized Growth rate
Capex	Capital Expenditure
CEA	Central Electricity Authority
CGS	Central Generating Stations
Cr	Crores
DG	Diesel Generator
Discom	Distribution Company
EDA&N	Electricity Department Andaman & Nicobar Administration
FY	Financial Year
GoI	Government of India
HPP	Hired Power Plant
HT	High Tension
IPP	Independent Power Producer
JERC	Joint Electricity Regulatory Commission for the state of Goa and Union Territories
kVA	Kilo Volt Ampere
kWh	Kilo Watt Hour
LT	Low Tension
MoP	Ministry of Power
MU	Million Units
MW	Mega Watt
MYT	Multi Year Tariff
NIOT	National Institute of Ocean Technology
NTPC	National Thermal Power Corporation
O&M	Operation and Maintenance
PH	Power House
PLF	Plant Load Factor
PPA	Power Purchase Agreement
REC	Renewable Energy Certificate
RPO	Renewable Purchase Obligation
SECI	Solar Energy Corporation of India Limited
SFC	Specific Fuel Consumption
SPV	Solar Photovoltaic
T&D	Transmission & Distribution
TVS	Technical Validation Session
UI	Unscheduled Interchange
UT	Union Territory
YoY	Year on Year

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

QUORUM

Smt. Jyoti Prasad, Member (Law)

Petition No. 78/2022

In the matter of

Approval for the Business Plan for 3rd MYT Control Period from FY 2022-23 to FY 2024-25.

And in the matter of

Electricity Department Andaman & Nicobar Administration (EDA&N)
.....Petitioner

ORDER

Dated: 1st August 2022

- 1) This Order is passed in respect of a Petition filed by the Electricity Department Andaman & Nicobar Administration (herein after referred to as "The Petitioner" or "EDA&N" or "The Licensee") for approval of Business Plan for 3rd MYT Control Period from FY 2022-23 to FY 2024-25 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, 2021 on 22 March 2021.
- 3) In terms of Regulation 8.1 and 17 of the aforesaid Regulations, the Petitioner has filed a Petition for approval of its Business Plan for the three years Control Period i.e. from FY 2022-23 to FY 2024-25 with details for each year of the Control Period before the Commission.
- 4) The Commission scrutinised the said Petition and generally found it in order. The Commission admitted the Petition on 7th February 2022. The Commission thereafter requisitioned further information/ clarifications on the data gaps observed to take a prudent view of the said Petition. The Commission also held a Technical Validation Session to determine sufficiency of data and the veracity of the information submitted.

- 5) The suggestions/ comments/ views and objections were invited from the Stakeholders and Electricity Consumers. The Public Hearing was held on 24th and 27th May 2022 at Swaraj Dweep Island and Port Blair, and all the Stakeholders/Electricity Consumers present in the Public Hearing were heard.
- 6) The Commission based on the Petitioner's submission, relevant MYT Regulations, facts of the matter, rules and provisions of the Electricity Act, 2003 and after proper due diligence and prudence check, has approved the Business Plan for 3rd MYT Control Period from FY 2022-23 to FY 2024-25, which covers the sales forecast, capital investment plan, power procurement plan, fixation of T&D loss trajectory, Manpower Plan etc.
- 7) The Petitioner has also submitted the Multi Year Tariff Petition for 3rd Control Period on April 6, 2022, in terms of Regulation 9 of the aforesaid Regulation. The Petitioner has claimed average Tariff increase of 45.17% while submitting the Tariff Proposal for FY 2022-23.
- 8) Ordered as above, read with attached document giving detailed reasons, grounds and conditions.

Sd/-

(Jyoti Prasad)
Member (Law)

Place: Gurugram
Date: 1st August 2022

Certified Copy

(Rakesh Kumar)
Secretary, JERC

1. 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 2nd May 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 30th May 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 the interest of consumers and ensuring the supply of electricity to all areas.

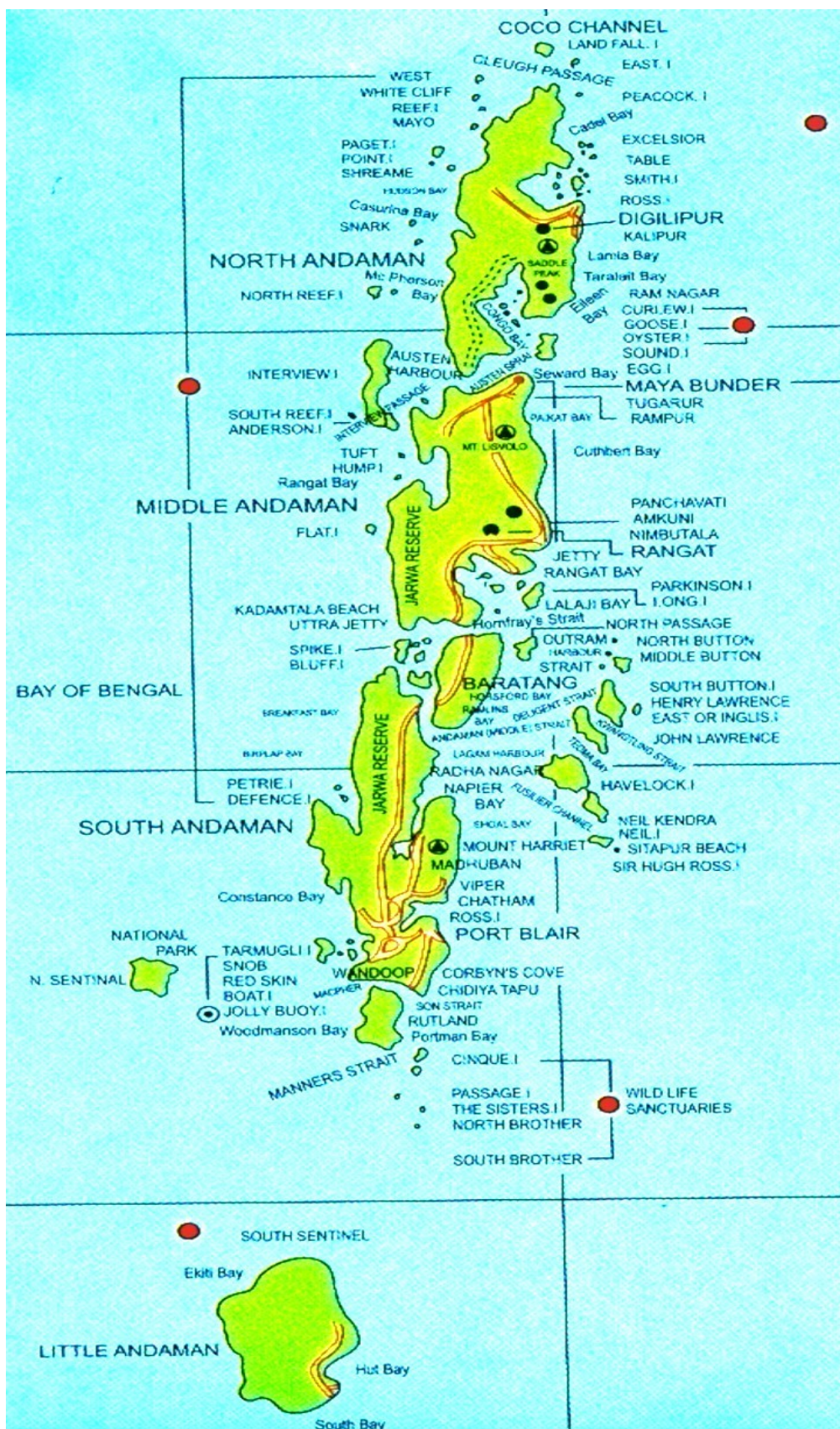
1.2. Andaman & Nicobar Islands

Andaman & Nicobar Islands (hereinafter referred to as “A&N”) is a cluster of islands scattered in the Bay of Bengal and a designated Union Territory of India. These islands are separated from the rest of India by more than 1000 kms. The total area of the territory is 8,249 sq.km out of which the forest cover is about 7,589 sq. km. (92%). A&N is having population of 379,944 as per census provisional records and average growth rate of population is 6.68%. These islands are divided in three districts, viz., Andaman, Nicobar and North & Middle Andaman. The seat of the Administration is at Port Blair (South Andaman) in which 14.14 sq. km. area is under the jurisdiction of Port Blair Municipal Council.

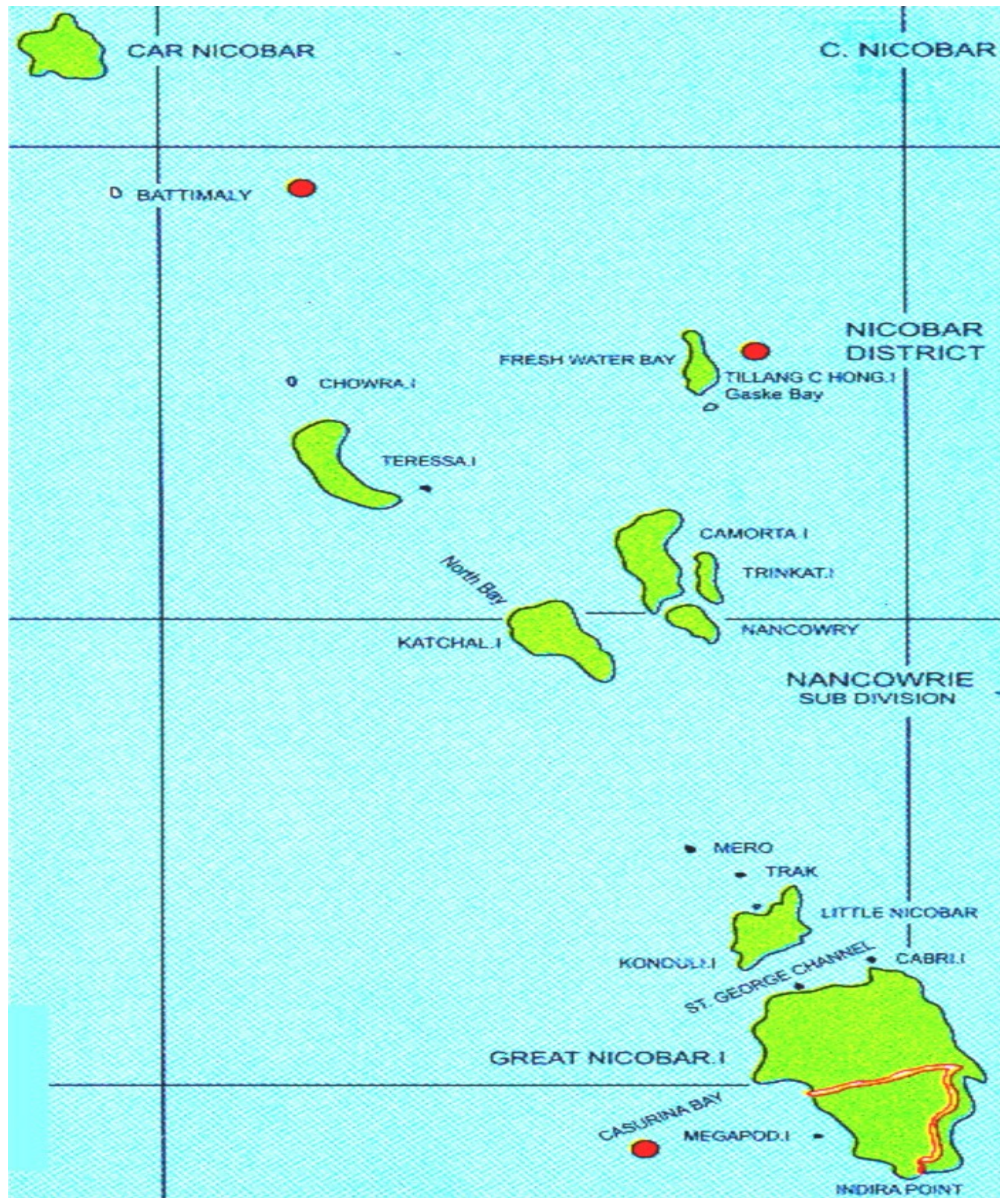
The tempo of economic development has tremendously accelerated along with all-round expansion in the areas/ sectors, viz., (i) Shipping Services, (ii) Civil Supplies, (iii) Education, (iv) Fisheries, (v) Tourism & Information Technology, (vi) Health, (vii) Industries, (viii) Rural Development, (ix) Social Welfare, (x) Transport, (xi) Increase in District Headquarters, (xii) Central Government Department, (xiii) Public Undertaking & other offices, (xiv) Services & Utilities, (xv) Defence Establishment, (xvi) Commercial Organisations/Business Centres, etc. Thus, these islands have reached the take off stage for total economic transformation. All these economic and infrastructure developments require power as a vital input and to play a key role for achieving overall transformation.

For operational purpose the area has been divided into 7 divisions and 26 sub-divisions.

Andaman Group of Islands



Nicobar Group of Islands



1.3. About Electricity Department Andaman & Nicobar Administration (EDA&N)

The Electricity Department of Andaman & Nicobar Administration (hereinafter referred to as "EDA&N" or "Utility" or "Petitioner") is solely responsible for power supply in the Union Territory (UT). Power requirements of EDA&N are met by own generating stations as well as power purchase.

Due to the geographical and topographical peculiarities of these islands including separation by sea over great distances, there is no single power grid for the entire electrified islands, instead, powerhouse at various islands caters independently to the power requirements of area/islands.

EDA&N is operating and maintaining power generation, transmission and distribution system network in these islands for providing electric power supply to general public. It implements various Planned and Non-Planned schemes for augmentation of Diesel Generating Capacity,

establishment of new power plants and T&D Systems. EDA&N is also functioning as a Nodal Agency for implementing renewable energy programme of the Ministry of New & Renewable Energy (MNRE) on these islands. Presently, EDA&N is headed by a Superintending Engineer, along with seven Executive Engineers and around thirty-eight Assistant Engineers for carrying out the task of power generation, transmission and distribution to the general public including schemes under renewable energy sources.

The key duties being discharged by EDA&N are:

- Laying and operating of electric lines, sub-stations and electrical plants that are primarily maintained for the purpose of distributing electricity in the area of Andaman & Nicobar Islands.
- Operating and maintaining sub-stations and dedicated transmission lines connected therewith as per the provisions of the Act and the rules framed there under;
- Generation of electricity for the supply of electricity required within the boundary of the UT and for the distribution of the same in the most economical and efficient manner;
- Supplying electricity, as soon as practicable to any person requiring such supply, within its competency to do so under the said Act;
- Implementation of schemes for distribution and generally for promoting the use of electricity within the UT.

The present Installed Capacity of EDA&N is approximately 127.80 MW from various generating stations. The current demand mainly comprises of the domestic and commercial category, which contributed approximately 80% to the total sales of the EDA&N. The table below gives an overview of present transmission and distribution infrastructure of EDA&N as of 31.03.21:

Table 1: Present Infrastructure

Particulars	Value
33KV Lines	480.53 Km.
11KV Lines	984.47 Km.
LT Lines (415 V)	3858 Km.
Distribution Transformers	1136 Nos.
Capacity of Distribution Transformers 33 KV S/S	227.20 MVA
Total Number of Powerhouse (in Nos)	53 Nos.
Peak Demand	60 MW
Present Installed Capacity	127.80 MW
Diesel Capacity (including 36.53 MW Hiring)	93.32 MW
Hydro Capacity	5.25 MW
Solar Capacity	29.23 MW
Departmental Powerhouse	25 Nos
Private Powerhouse	17 Nos
Community Powerhouse	11 Nos
Consumers	141676

1.4. Electricity Regulatory Process in Andaman & Nicobar Islands

The Commission had issued the first Multi-Year Tariff Order for “Approval of Business Plan for Multi-Year Control Period FY 2016-17 to FY 2018-19” on 28th December 2015 in respect of EDA&N. Subsequently, the Commission had issued the second Business Plan Order for “Approval of Business Plan for Multi-Year Control Period FY 2019-20 to FY 2021-22” on 31st December 2018 in respect of EDA&N.

1.5. Multi Year Tariff Regulations, 2021

The Commission notified the Joint Electricity Regulatory Commission for the State of Goa and Union Territories (Generation, Transmission and Distribution Multi Year Tariff) Regulations, 2021 on 22nd March 2021. The said Regulations have been hereinafter referred to as the “JERC MYT Regulations”. As per Clause 2.1(18) of these Regulations, the “Control Period” is defined as the multi-year period comprising of three financial years from FY 2022-23 to FY 2024-25.

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.

1.6. Filing and Admission of the Present Petition

As per Clause 8.1 of the JERC MYT Regulations, the Petitioner is required to file Business Plan Petition for the Control Period (FY 2022-23 to FY 2024-25) with details for each year of the Control Period for the approval of the Commission. EDA&N submitted the current Petition via email for approval of ‘Business Plan for MYT Control Period from FY 2022-23 to FY 2024-25’ on 21st January 2022.

After initial scrutiny/analysis, the Petition on Business Plan for the Control Period FY 2022-23 to FY 2024-25 was admitted on 7th February 2022 and was marked as Petition no. 78/2022.

1.7. Interaction with the Petitioner

A preliminary scrutiny/analysis of the Petitions was conducted, and certain deficiencies were observed. Accordingly, discrepancy 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 retail sales, revenue from retail tariff, capitalization, tariff proposal etc. The Petitioner submitted its response to the issues through various letters/emails.

The Commission conducted Technical Validation Session (TVS) on May 10, 2022 with the Petitioner at the Commission’s office in Gurugram, during which discrepancies in the Petition were conveyed and additional information required by the Commission was sought. Subsequently, the Petitioner submitted replies to the issues raised in this session and provided documentary evidence to substantiate its claims regarding various submissions. The following table provides list of interactions with the Petitioner along with the dates:

Table 2: List of interactions with the Petitioner

S. No	Subject	Date
1	Issue of First Discrepancy Note	13.04.2022
2	Technical Validation Session	10.05.2022
3	Reply received from the Petitioner with regard to first discrepancy Note	17.05.2022
4	Public hearing	24.05.2022 and 27.05.2022
5	Reply received from the Petitioner with regard to queries raised in TVS	5.07.2022, 20.07.2022, 22.07.2022
6	Petitioner’s reply to the Stakeholders’ comments sought by the Commission	5.07.2022

1.8. Notice for Public Hearing

Public Notices were published by the Commission in the leading newspapers as tabled below, giving due intimation to the stakeholders, consumers and the public at large about the Public Hearing to be conducted by the Commission. These notices were also uploaded on the Commission's website:

Table 3: Details of Public Notice published by the Commission

S. No.	Date	Name of Newspaper	Language	Place of circulation
1	May 3, 2022	Sanmarg	Hindi	Andaman & Nicobar Islands
2		Andaman Express	English	
3		Arthik Lipi	Bengali	
4		The Echo of India	English	
5	May 21, 2022	Sanmarg	Hindi	
6		Andaman Express	English	
7		Arthik Lipi	Bengali	
8		The Echo of India	English	

The Public Notice was published by the Petitioner in the following newspapers for inviting objections/suggestions from the stakeholders on the Tariff Petition:

Table 4: Details of Public Notice published by the Petitioner

S. No.	Date	Name of Newspaper	Language	Place of circulation
1	May 12, 2022	Sahil Ki Oar	Hindi	Andaman & Nicobar Islands
2	May 14, 2022	Daily Telegrams	English	
3	May 16 2022	Andaman Sheekha	English	
4	May 19, 2022	Mini India	English	

The Petitioner uploaded the Petition on its website (<https://vidyut.andaman.gov.in/>) for inviting objections and suggestions on the Petition. The Commission also uploaded the Tariff Petition and the Public Notice on its website www.jercuts.gov.in giving due intimation to stakeholders, consumers, objectors and the public at large about the Public Hearing conducted by the Commission on 24th and 27th May 2022 in Swaraj Dweep Island and Port Blair respectively

1.9. Public Hearing

The Public Hearing was held on 24th and 27th May 2022 at the Swaraj Dweep Island and Port Blair to discuss the issues related to the Petition filed by the Petitioner. The issues and concerns raised by the stakeholders in writing and as voiced by them during the Public Hearing have been examined by the Commission. The major issues discussed, the responses of the Petitioner thereon and the views of the Commission, have been summarized in Chapter 2 of this Order.

2. Chapter 2: Stakeholders' Comments

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 the website and also publish the same in the newspapers in an abridged form in the given format duly inviting suggestions/ comments from the public as per the provisions of the MYT Regulations, 2018 and MYT Regulations 2021.

The Public Hearing was held on 24th and 27th May 2022 at the Swaraj Dweep Island and Port Blair respectively on the Petition for Business Plan for MYT Control Period from FY 2022-23 to FY 2024-25 and Annual Performance Revenue for FY 2021-22, Aggregate Revenue Requirement for 3rd MYT Control Period (FY 2022-23 to FY 2024-25) & Determination of Retail Supply Tariff for the FY 2022-23. During the Public Hearing, a few stakeholders who had submitted their comments in writing also presented their views in person before the Commission. Other participants from the general public, who had not submitted written suggestions/ comments earlier, were also given an equal opportunity to present their views/ suggestions in respect to the Petition.

The list of the Stakeholders is attached as **Annexure 1** of this Order.

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

The Commission appreciates the efforts of various stakeholders in providing their suggestions/ comments/ observations to make the Electricity Distribution Sector responsive and efficient. The Commission has noted the concerns of all the stakeholders and has tried to address them to the extent possible in the Chapters on tariff design and Directives. The Commission while finalizing the Tariff Order has suitably considered relevant observations. Submissions of the stakeholders, Petitioner's response and views of the Commission are summarized below:

2.2.1. Use of expensive, inefficient and polluting means of producing electricity

Stakeholder's Comment:

Some of the stakeholders has submitted that the ED of Andaman & Nicobar administration has adopted expensive, inefficient and polluting means of producing electricity like generating power from Diesel generating sets. This has resulted in high cost of production. Solar generation has been a non- starter because the solar plants installed cannot successfully generate power due to the dense tree cover and several months of monsoon. Therefore, instead of passing the high charges onto the consumer, the ED must explore other ways of generating cost effective and clean energy. The alternate ways of generating electricity can include the use of technologies such as Geo-Thermal, Tidal Energy, Multi Grid and Nuclear.

Petitioner's Response:

The Petitioner has submitted the following:

- Possibility of Geo-Thermal does not exist in A&N Islands.
- Further, possibility for Nuclear Power is under exploration.
- Solar Power Plant cannot be termed as unsuccessful as this power plants helps in achieving RPO Targets as well as generation from these plants helps in reduction of HSD consumption and saving fossil fuels.

It is pertinent to note here that, as per the proposed tariff electricity is supplied to its consumers at subsidized rate compared to proposed ACoS of Rs. 38.79 per unit. Any further subsidy may be detrimental for the department and shall have huge financial implication

Commission's View:

The Commission appreciates the suggestion of the stakeholders, however, the generation of power from tidal energy is at nascent stage and is going through technological advancement and hence, the cost of power generation from tidal energy will be higher. Further, the consumers may also be encouraged to install solar rooftop as per the Net Metering Regulations, 2019.

2.2.2. Alternative sources of power

Stakeholder's Comment:

The stakeholder submitted that they would like to object to the tariff hike from 12/Unit to 25/Unit. The pandemic has put the Hotel Industry in a state of paralysis in the Andaman Islands. We are slowly beginning to recover but without any clear indication what the future holds for us in the Islands. Such tariff hike will put hoteliers in a further state of shock. With so much uncertainty and inflation this hike will make every business unviable in the Islands. The Administration should find alternative sources of power like Tidal, Wind or Microreactors which will be cheaper and sustainable in the years to come instead of hiking the tariff and burdening the commercial consumers.

Petitioner's Response:

It is submitted that the tourism activities have been reopened and are gaining momentum. It is pertinent to note here that, as per the proposed tariff electricity is supplied to its consumers at subsidized rate compared to proposed ACoS of Rs. 38.79 per unit. Any further subsidy may be detrimental for the department and shall have huge financial implication.

Commission's View:

The Commission appreciates the suggestion of the stakeholders, however, the generation of power from tidal energy is at nascent stage and is going through technological advancement and hence, the cost of power generation from tidal energy will be higher. Further, the consumers may also be encouraged to install solar rooftop as per the Net Metering Regulations, 2019.

3. Chapter 3: Approval of the various components of the Multi-Year business plan petition for the Control Period FY 2022-23 to FY 2024-25

3.1. Introduction

This chapter deals with the key aspects of the Business Plan Petition submitted by the Petitioner and is structured as below.

- Forecast of Number of Consumers, Connected Load and Sales for the Control Period
- Intra-State Transmission and Distribution (T&D) loss
- Power Procurement Plan
- Capital Investment Plan
- Manpower Plan

In the subsequent sections, the Commission has recorded Petitioner's submissions and analysed the same. The Commission has subsequently recorded its reasoning while approving each of the components.

3.2. Forecast of Number of Consumers, Connected Load and Sales for the Control Period

3.2.1. Overall Approach

Petitioner's Submission

To project the load growth and number of consumers and sales for the different consumer categories, the Petitioner has considered 5-year CAGR considered for the domestic, commercial, bulk & Agriculture. The 5-year CAGR for industries was showing a negative growth. However, based on the government initiatives for development of industries, it is expected that the industry shall have a steady growth during the control period. Accordingly, the 5 CAGR of Commercial category has been considered for projecting the load and number of consumers of the Industrial category for the control period.

The sales for different categories of consumers have been projected based on the actual sales in the respective categories from the FY 2015-16 to FY 2019-20. The energy sales for the FY 2020-21 were sales lower than that of FY 2019-20 in various categories of consumers on account of COVID-19. In view of the same, the energy sales for the FY 2020-21 have not been considered for calculating the CAGR. Accordingly, the 4-year CAGR (FY 2015-16 to FY 2019-20) has been calculated for each category and applied on the actual energy sales for the FY 2019-20 to project the category wise sales for the control period FY 2022-23 to FY 2024-25. The CAGR for Industry, Bulk & Public lightning categories showed a negative or zero growth. However, based on the government initiatives for development of industries it is expected that the industry shall have a steady growth during the control period. Accordingly, the 4-year CAGR of Commercial category has been considered for projecting the energy sales of the Industrial category for the control

period. Further, growth rate of 5% has been considered for projecting energy sales of Bulk & Public lightning categories. Summary of the past data and the CAGR considered by the Petitioner for each category for projecting number of consumers, connected load and sales and historical Year on Year growth and CAGR is as given in the tables below:

Table 5: Summary of category-wise No. of Consumers considered by the Petitioner for Projections

Consumer Category	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21
Domestic	100,742	110,547	112,014	116,413	118,597
Commercial	18,948	20,056	20,261	20,828	21,256
Industrial	549	579	581	469	468
Bulk	57	64	64	66	70
Public Lighting	649	688	689	738	807
Irrigation, Pumps & Agriculture	257	374	381	443	478
Total	121,202	132,308	133,990	138,957	141,676

Table 6: Summary of category-wise Connected Load (kW) considered by the Petitioner for Projections

Consumer Category	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21
Domestic	124,671	145,189	155,414	185,858	182,955
Commercial	49,777	57,670	62,911	90,671	92,813
Industrial	15,790	21,602	22,990	14,554	14,591
Bulk	11,605	12,388	12,388	1,293	14,331
Public Lighting	2,706	2,832	2,870	2,990	2,786
Irrigation, Pumps & Agriculture	891	1,016	2,977	1,042	1,210
Total	205,440	240,697	259,550	296,409	308,686

Table 7: Summary of category-wise Sales (MU) considered by the Petitioner for Projections

Consumer Category	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21
Domestic	129.90	127.38	133.66	142.93	139.30
Commercial	60.13	56.86	62.14	72.41	48.55
Industrial	17.98	17.49	21.03	12.82	8.53
Bulk	35.63	32.05	29.83	32.26	27.03
Public Lighting	8.65	7.61	6.72	6.73	7.77
Irrigation, Pumps & Agriculture	1.04	0.98	1.02	1.12	1.08
Total	253.34	242.37	254.38	268.27	232.26

The Petitioner's projection of number of consumers, connected load and sales for the FY 2021-22 and the upcoming Multi-Year Control Period, are as given in the tables below:

Table 8: Petitioner's submission on projection of Number of Consumers for upcoming Multi-Year Control Period

Number of Consumer	Growth Rate	Base Year (Estimated)	Projections		
Consumer Category		FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
Domestic	2.64%	121,728	124,941	128,239	131,624
Commercial	2.31%	21,748	22,251	22,766	23,293
Industrial	2.31%	479	490	501	513
Bulk	3.44%	72	75	77	80
Public Lighting	3.85%	838	870	904	939
Irrigation, Pumps & Agriculture	10.66%	529	585	648	717
Total		145,394	149,213	153,136	157,166

Table 9: Petitioner's submission on projection of Connected Load (kW) for upcoming Multi-Year Control Period

Connected Load	Growth Rate	Base Year (Estimated)	Projections		
Consumer Category		FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
Domestic	8.44%	198,404	215,157	233,325	253,027
Commercial	13.79%	105,614	120,180	136,756	155,618
Industrial	13.79%	16,603	18,893	21,499	24,464
Bulk	5.73%	15,153	16,022	16,941	17,912
Public Lighting	0.52%	2,800	2,815	2,830	2,844
Irrigation, Pumps & Agriculture	8.57%	1,314	1,426	1,549	1,681
Total		339,888	374,494	412,899	455,547

Table 10: Petitioner's submission on projection of Sales (MU) for upcoming Multi-Year Control Period

Number of Consumer	Growth Rate	Base Year (Estimated)	Projections		
Consumer Category		FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
Domestic	4.22%	148.96	155.23	161.78	168.60
Commercial	5.18%	76.17	80.11	84.27	88.63
Industrial	5.18%	13.48	14.18	14.91	15.68
Bulk	5.00%	33.88	35.57	37.35	39.22
Public Lighting	5.00%	7.07	7.42	7.79	8.18
Irrigation, Pumps & Agriculture	2.23%	1.14	1.17	1.19	1.22
Total		280.70	293.68	307.29	321.53

Commission's Analysis

The Commission in its Tariff Order dated May 31, 2021 for FY 2021-22 had directed the Petitioner to provide the month-wise and slab-wise detailed breakup of number of consumers, connected load and energy sales under each consumer category. The Petitioner has still not submitted the same details. The Commission has taken a serious view on the lapse of the Petitioner. **The Commission**

again directs the Petitioner to submit the island-wise information for category wise sales, number of consumers, connected load, peak load, T&D losses, plant-wise generation on monthly basis and fuel cost in each Plant for all the years within 3 months from the issuance of this Order.

Further, it is pertinent to highlight that the category wise sales, connected load and number of consumers data as submitted by the Petitioner is inconsistent and unreliable. Further, the Petitioner has not made any adjustment related to transfer of hotel category consumers between the Commercial and Industrial category in the data for the period which has been used to project the sales, connected load and number of consumers for the control period. The Commission has considered the data as submitted by the Petitioner for projecting the sales, connected load and number of consumers for the control period and may consider revising the projections based on the availability of the accurate and reliable category wise data in the next tariff petition.

However, the overall approach of the Commission for projecting the number of consumers, connected load and sales for FY 2021-22 and the upcoming Multi-Year Control Period is described below:

- The Base Year considered by the Petitioner is FY 2021-22 and the same is in line with the JERC MYT Regulations, 2021. The Commission has also considered FY 2021-22 as the Base Year for carrying out projections. The values for FY 2021-22 have been considered as per actuals for FY 2021-22 as submitted by the Petitioner in response to the queries sought vide Deficiency Note.
- The sales for FY 2020-21 are lower than the sales for FY 2019-20 owing to the ongoing COVID-19 pandemic, therefore, the number of consumers, load and sales data for FY 2014-15 to FY 2019-20 has been considered to project category wise growth rates.
- The Growth rates considered by the Petitioner for projecting number of consumers, load and sales are based primarily on historical CAGRs. The Commission has determined growth rates separately for each consumer category based on past trends and other relevant parameters given below:
 - Year on Year (YoY) growth
 - CAGR (multiple periods)
 - Specific (per-consumer) consumption
 - Energy efficiency measures

3.2.2. Category-Wise Analysis

The historical Year on Year growth and CAGR for number of consumers is as shown in the following Table:

Table 11: Historical Year-on-Year Growth and CAGR for number of consumers

Number of Consumers	Y-o-Y Growth for number of Consumers					CAGR				
	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	5 year	4 year	3 year	2 year	1 year
Domestic	4.23%	4.47%	1.64%	1.33%	3.93%	3.11%	2.83%	2.29%	2.62%	3.93%
Commercial	3.57%	4.90%	0.85%	1.02%	2.80%	2.62%	2.38%	1.55%	1.91%	2.80%
Industrial	0.19%	5.06%	3.21%	0.35%	19.28%	-2.53%	-3.19%	5.80%	10.00%	19.28%
Bulk	3.28%	1.59%	0.00%	0.00%	3.13%	1.59%	1.17%	1.03%	1.55%	3.13%
Public Lighting	7.05%	3.14%	0.15%	0.15%	7.11%	3.41%	2.52%	2.32%	3.57%	7.11%

Number of Consumers	Y-o-Y Growth for number of Consumers					CAGR				
	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	5 year	4 year	3 year	2 year	1 year
Irrigation, Pumps & Agriculture	14.74%	13.89%	14.02%	1.87%	16.27%	12.03%	11.37%	10.54%	8.83%	16.27%

The historical Year on Year growth and CAGR for connected load is as shown in the following Table:

Table 12: Historical Year-on-Year Growth and CAGR for Connected Load

Connected Load (kW)	Y-o-Y Growth for number of Consumers					CAGR				
	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	5 year	4 year	3 year	2 year	1 year
Domestic	12.02%	2.20%	16.46%	7.04%	19.59%	11.28%	11.10%	14.24%	13.14%	19.59%
Commercial	4.24%	2.32%	15.86%	9.09%	44.13%	14.21%	16.84%	22.13%	25.39%	44.13%
Industrial	8.47%	3.70%	36.81%	6.43%	36.69%	0.72%	-1.12%	2.68%	17.92%	36.69%
Bulk	9.82%	7.02%	6.75%	0.00%	4.40%	5.55%	4.50%	3.68%	2.18%	4.40%
Public Lighting	6.22%	0.33%	4.66%	1.34%	4.18%	3.19%	2.44%	3.38%	2.75%	4.18%
Irrigation, Pumps & Agriculture	14.74%	11.10%	14.03%	193.01%	65.00%	8.31%	6.76%	5.36%	1.27%	65.00%

The historical Year on Year growth and CAGR for sales is as shown in the following Table:

Table 13: Historical Year-on-Year Growth and CAGR for Sales

Sales (MU)	Y-o-Y Growth for number of Consumers					CAGR				
	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	5 year	4 year	3 year	2 year	1 year
Domestic	4.87%	7.20%	1.94%	4.93%	6.94%	4.35%	4.22%	3.24%	5.93%	6.94%
Commercial	2.52%	0.39%	3.51%	9.29%	16.53%	3.59%	5.18%	7.11%	12.85%	16.53%
Industrial	15.25%	16.60%	2.73%	20.24%	39.04%	0.85%	4.51%	10.66%	14.39%	39.04%
Bulk	11.83%	6.45%	10.05%	-6.93%	8.15%	1.51%	0.92%	-3.26%	0.33%	8.15%
Public Lighting	1.33%	3.14%	12.02%	11.70%	0.15%	5.75%	6.83%	-8.03%	5.96%	0.15%
Irrigation, Pumps & Agriculture	8.05%	10.64%	5.77%	4.08%	9.80%	5.18%	4.48%	2.50%	6.90%	9.80%

The historical data given above, along with other parameters, as applicable, have been used for category wise analysis as described below.

Domestic

Petitioner's submission

The Petitioner has considered the CAGR of last 5 years for projecting the number of consumers and connected load; and CAGR of last 4 years for projecting sales for domestic category. Accordingly, the Petitioner has used a growth rate of 2.64% (Refer Table 8), 8.44% (Refer Table 9) and 4.22% (Refer Table 10) for number of consumers, connected load and sales respectively.

Commission's analysis

The Commission has analysed the connections data for previous years and observed that there is a steady increase in the connection year-on year. Hence, the Commission has approved the 4-year CAGR of 2.83% to project the number of consumers for the control period.

For load growth, the Commission observes that the YoY growth rate has been erratic since FY 2015-16. Therefore, in view of historical trends, the Commission approves Y-o-Y growth rate for 2018-19, 7.04% for projecting the connected load for the control period.

For sales, the Commission observes that the YoY growth rate has been erratic with both upward and downward trends since FY 2015-16. Therefore, in view of historical trends, the Commission approves the 5-year CAGR of 4.35% for sales growth for the control period.

The growth rates approved by the Commission are in the following table:

Table 14: Growth rates approved by the Commission for Domestic Category

Consumer Category	Growth in number of consumers		Load Growth		Sales Growth	
	Growth Rate Submitted	Growth Rate Approved	Growth Rate Submitted	Growth Rate Approved	Growth Rate Submitted	Growth Rate Approved
Domestic	2.64%	2.83%	8.44%	7.04%	4.22%	4.35%

Commercial**Petitioner's submission**

The Petitioner has considered the CAGR of last 5 years for projecting the number of consumers and connected load; and CAGR of last 4 years for projecting sales for commercial category. Accordingly, the Petitioner has used a growth rate of 2.31% (Refer Table 8), 13.79% (Refer Table 9) and 5.18% (Refer Table 10) for number of consumers, connected load and sales respectively.

Commission's analysis

The Commission has analysed the connections data for previous years and observed that there is a steady increase in the connection year-on year. Hence, the Commission has approved the 4-year CAGR of 2.38% to project the number of consumers for the control period.

For load growth, the Commission observes that the YoY growth rate has been erratic since FY 2015-16 and has increased drastically in recent years. Therefore, in view of historical trends, the Commission approves the y-0-y growth for 2018-19, 9.09% for the control period.

For sales, the Commission observes that the YoY growth rate has been erratic with escalating CAGR for the recent years. It may be attributed to shifting of hotel industry consumers between commercial and industrial categories. Therefore, in view of historical trends, the Commission approves the 3-year CAGR of 7.11% for projecting the sales for the control period.

The growth rates approved by the Commission are in the following table:

Table 15: Growth rates approved by the Commission for Commercial Category

Consumer Category	Growth in number of consumers		Load Growth		Sales Growth	
	Growth Rate Submitted	Growth Rate Approved	Growth Rate Submitted	Growth Rate Approved	Growth Rate Submitted	Growth Rate Approved
Commercial	2.31%	2.38%	13.79%	9.09%	5.18%	7.11%

Industrial

Petitioner's submission

The 5-year CAGR for industrial category was showing a negative growth for number of consumers and connected load. Similarly, 4-year CAGR for industrial category was showing a negative growth rate for sales. Therefore, the Petitioner has considered the CAGR of last 5 years of Commercial Category for projecting the number of consumers and connected load; and CAGR of last 4 years of Commercial category for projecting sales for Industrial category. Accordingly, the Petitioner has used a growth rate of 2.31% (Refer Table 8), 13.79% (Refer Table 9) and 5.18% (Refer Table 10) for number of consumers, connected load and sales respectively.

Commission's analysis

The Commission has analysed the connections data for previous years and observed that the number of consumers has decline in the recent years and it was mainly on account of shifting of hotel industry consumers from industrial to commercial category. Hence, the Commission has approved Y-o-Y growth rate for FY 2018-19, 0.35% to project the number of consumers for the control period.

For load growth, the Commission observes the trend similar to the number of consumers. Therefore, in view of historical trends and growth considered in number of consumers, the Commission approves the 5-year CAGR of 0.72% for projecting the connected load for the control period.

For sales, the Commission observes that the sales quantum has increased till FY 2018-19 and then decreased mainly on account of shifting of hotel industry consumers from industrial to commercial category. Therefore, in view of historical trends, the Commission approves the growth rate of 5.00% for projecting the sales for the control period.

The growth rates approved by the Commission are in the following table:

Table 16: Growth rates approved by the Commission for Industrial Category

Consumer Category	Growth in number of consumers		Load Growth		Sales Growth	
	Growth Rate Submitted	Growth Rate Approved	Growth Rate Submitted	Growth Rate Approved	Growth Rate Submitted	Growth Rate Approved
Industrial	2.31%	0.35%	13.79%	0.72%	5.18%	5.00%

Bulk

Petitioner's submission

The Petitioner has considered the CAGR of last 5 years for projecting the number of consumers and connected load and growth rate of 5% for projecting sales for Bulk category. Accordingly, the Petitioner has used a growth rate of 3.44% (Refer Table 8), 5.73% (Refer Table 9) and 5.00% (Refer Table 10) for number of consumers, connected load and sales respectively

Commission's analysis

The Commission has analysed the connections data for previous years and observed that there has only been a slight increase in the number of consumers since FY 2015-16. Hence, the Commission has approved 2-year CAGR of 1.55% to project the number of consumers for the control period.

Similarly, for connected load, the Commission observes that the growth rate has declined consistently in the last 5 years. Therefore, in view of historical trends, the Commission approves the 1-year CAGR of 4.40% for projecting the connected load for the control period.

For sales, the Commission observes that the YoY growth rate has been erratic since FY 2015-16. Therefore, in view of historical trends, the Commission approves the 2-year CAGR of 0.33% for projecting the sales for the control period.

The growth rates approved by the Commission are in the following table:

Table 17: Growth rates approved by the Commission for Bulk Category

Consumer Category	Growth in number of consumers		Load Growth		Sales Growth	
	Growth Rate Submitted	Growth Rate Approved	Growth Rate Submitted	Growth Rate Approved	Growth Rate Submitted	Growth Rate Approved
Bulk	3.44%	1.55%	5.73%	4.40%	5.00%	0.33%

Public Lighting

Petitioner's submission

The Petitioner has considered the CAGR of last 5 years for projecting the number of consumers and connected load and growth rate of 5% for projecting sales for Public lighting consumer category. Accordingly, the Petitioner has used a growth rate of 3.85% (Refer Table 8), 0.52% (Refer Table 9) and 5.00% (Refer Table 10) for number of consumers, connected load and sales respectively

Commission's analysis

The Commission has analysed the number of consumers and connected load data for previous years and observed that the number of connections and connected load both have increased steadily since FY 2014-15. Hence, the Commission has approved 5-year CAGR of 3.41% and 3.19% for projecting the number of consumers and connected load for the control period.

For sales, the Commission observes that there has been an erratic YoY growth since FY 2015-16. Therefore, in view of historical trends, the Commission approves the 1-year CAGR of 0.15% for projecting the sales for the control period.

The growth rates approved by the Commission are in the following table:

Table 18: Growth rates approved by the Commission for Public Lighting Category

Consumer Category	Growth in number of consumers		Load Growth		Sales Growth	
	Growth Rate Submitted	Growth Rate Approved	Growth Rate Submitted	Growth Rate Approved	Growth Rate Submitted	Growth Rate Approved
Public Lighting	3.85%	3.41%	0.52%	3.19%	5.00%	0.15%

Irrigation, Pumps & Agriculture**Petitioner's submission**

The Petitioner has considered the CAGR of last 5 years for projecting the number of consumers and connected load; and CAGR of last 4 years for projecting sales for Irrigation, Pumps & Agriculture. Accordingly, the Petitioner has used a growth rate of 10.66% (Refer Table 8), 8.57% (Refer Table 9) and 2.23% (Refer Table 10) for number of consumers, connected load and sales respectively

Commission's analysis

The Commission has analysed the connections data for previous years and observed that the connections have increased steadily in the last 5 years and significantly in last few years. Hence, the Commission has approved 2-year CAGR of 8.83% as the growth in number of consumers for the control period.

For load growth, the Commission observes that the connected load has been varied significantly during the last 5 years. Therefore, in view of historical trends, the Commission approves 3-year CAGR of 5.36% as the growth in connected load for the control period.

For sales, the Commission observes that the sales have increased steadily during the last 5 years. Therefore, in view of historical trends, the Commission approves 5-year CAGR of 5.18% as the growth in sales for the control period.

The growth rates approved by the Commission are in the following table:

Table 19: Growth rates approved by the Commission for Irrigation, Pumps & Agriculture Category

Consumer Category	Growth in number of consumers		Load Growth		Sales Growth	
	Growth Rate Submitted	Growth Rate Approved	Growth Rate Submitted	Growth Rate Approved	Growth Rate Submitted	Growth Rate Approved
Irrigation, Pumps & Agriculture	10.66%	8.83%	8.57%	5.36%	2.23%	5.18%

3.2.3. Projections of Number of Consumers approved by the Commission

The summary of the projections of number of consumers approved by the Commission for the upcoming Control Period based on approved CAGRs is given in the following table:

Table 20: Consumer Growth Projections approved by the Commission for upcoming Multi-Year Control Period

Number of Consumer Category	CAGR Approved	Base Year (Estimated)	Projections		
		FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
Domestic	2.83%	121,211	124,643	128,172	131,802
Commercial	2.38%	21,711	22,228	22,757	23,298
Industrial	0.35%	441	443	444	446
Bulk	1.55%	69	70	71	72
Public Lighting	3.41%	753	779	805	833
Irrigation, Pumps & Agriculture	8.83%	531	578	629	685
Total		144,716	148,740	152,878	157,135

3.2.4. Projections of Connected Load approved by the Commission

The summary of the projections of connected load approved by the Commission for the upcoming Control Period based on approved CAGRs is given in the following table:

Table 21: Connected Load Growth Projections (kW) approved by the Commission for upcoming Multi-Year Control Period

Connected Load Consumer Category	CAGR Approved	Base Year (Estimated)	Projections		
		FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
Domestic	7.04%	221,250	236,832	253,511	271,364
Commercial	9.09%	101,610	110,844	120,918	131,907
Industrial	0.72%	14,512	14,617	14,723	14,830
Bulk	4.40%	15,803	16,498	17,224	17,982
Public Lighting	3.19%	2,986	3,081	3,179	3,281
Irrigation, Pumps & Agriculture	5.36%	1,216	1,281	1,350	1,422
Total		357,377	383,154	410,904	440,785

3.2.5. Projections of Sales approved by the Commission

The summary of the projections of sales approved by the Commission for the upcoming Control Period based on approved CAGRs is given in the following table:

Table 22: Sales (MU) Growth Projections approved by the Commission for upcoming Multi-Year Control Period

Sales Consumer Category	CAGR Approved	Base Year (Estimated)	Projections		
		FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
Domestic	4.35%	156.42	163.22	170.31	177.72
Commercial	7.11%	61.02	65.36	70.00	74.98
Industrial	5.00%	10.98	11.53	12.11	12.71
Bulk	0.33%	29.63	29.73	29.82	29.92
Public Lighting	0.15%	5.53	5.54	5.55	5.55
Irrigation, Pumps	5.18%	1.73	1.82	1.91	2.01

Sales Consumer Category	CAGR Approved	Base Year (Estimated)	Projections		
		FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
& Agriculture					
Total		265.31	277.19	289.71	302.89

3.3. Transmission and Distribution (T&D) losses

Petitioner's submission

The Petitioner has submitted that the operational area of the EDA&N is spread over several Islands therefore having comprehensive loss reduction is difficult due to geographical & topographical peculiarity of these Islands. Further, the Petitioner has been constantly endeavouring to reduce its T&D losses. While in future EDA&N shall make all efforts to achieve the loss targets set up by the Commission, it is requested that Commission may set realistic targets in view of the geographical constraints faced by EDA&N.

For the purpose of FY 2022-23, 2023-24 and 2024-25, the Petitioner has proposed T&D loss target for the Control Period in view of the geographical & topographical conditions of the operational area of EDA&N. The T&D loss trajectory proposed by the Petitioner for the upcoming Control Period is as given below:

Table 23: T&D loss (%) trajectory proposed by the Petitioner for the upcoming Control Period

FY 2022-23	FY 2023-24	FY 2024-25
17.01%	16.67%	16.08%

Commission's Analysis

The T&D losses approved by the Commission for the previous Control Period (FY 2019-20 to FY 2021-22) vis-à-vis T&D losses achieved by the Petitioner during the same period is given in the following table:

Table 24: T&D losses approved by the Commission in the existing Control Period vis-à-vis T&D losses achieved by the Petitioner

	T&D loss (%)	
	Approved	Actuals (A)/Estimate (E)
FY 2019-20	14.34	21.98 (A)
FY 2020-21	13.84	28.33 (A)
FY 2021-22	13.34	13.34 (E)

The Commission is of the view that the Petitioner has not been putting in much efforts for reduction of T&D Loss. However, for underachievement vis-a-vis the normative loss it has already been penalised during the Control period from FY 2019-20 to FY 2021-22. In view of the Capital expenditure proposed by the Petitioner the Commission is approving T&D loss trajectory for the 3rd Control period as given in the table below:

Table 25: T&D losses trajectory approved by the Commission in the upcoming Control Period

	FY 2022-23		FY 2023-24		FY 2024-25	
	Petitioner's submission	Approved by Commission	Petitioner's submission	Approved by Commission	Petitioner's submission	Approved by Commission
T&D loss trajectory (%)	17.01	15.91	16.67	13.91	16.08	11.91

3.4. Power Procurement Plan

3.4.1. Energy Requirement

Petitioner's submission

The Petitioner has submitted the projection of energy requirement at the periphery by grossing up the retail sales projections with T&D loss trajectory proposed by the Petitioner. The summary of the energy requirement as estimated by the Petitioner is as given below:

Table 26: Energy requirement as estimated by the Petitioner for the upcoming Control Period

Energy Balance	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
	(Actuals)	(Estimated)	(Projected)	(Projected)	(Projected)
	MU's	MU's	MU's	MU's	MU's
ENERGY REQUIREMENT					
Energy Sales					
Total Energy Sales	232.27	280.69	293.68	307.29	321.53
Overall T & D Losses %	18.01	17.91	17.01	16.67	16.08
Overall T & D Losses (MUs)	51.02	61.24	60.19	61.47	61.61
Total Energy Requirement	283.29	341.92	353.88	368.76	383.14

Commission's analysis

Based on the sales projections approved by the Commission and the T&D losses approved by the Commission, the energy requirement of EDA&N estimated by the Commission for the upcoming Control is given in table below:

Table 27: Energy requirement of EDA&N as approved by the Commission

Energy Requirement	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
	(Estimated)	(Projected)	(Projected)	(Projected)
	MU's	MU's	MU's	MU's
Energy Sales	265.31	277.19	289.71	302.89
Overall T & D Losses %	13.34%	15.91%	13.91%	11.91%
Overall T & D Losses (MUs)	40.84	52.44	46.81	40.95
Total Energy Requirement	306.15	329.63	336.52	343.85

The main reason for substantial variation in Energy Requirement as approved by the Commission with respect to the Petitioner's projection is due to variation in sales projection approved by the Commission.

3.4.2. Power Generation Quantum

Petitioner's submission

The Petitioner has submitted that the energy requirement of EDA&N is mainly met from own generation and power purchase from HPPs, IPPs & NTPC (SPV). There is no availability of power from Central Generating Stations or from other sources/ open market/ power exchanges etc. Own generation accounts for around 14% of the total power requirement for FY 2020-21 and balance 86% of power requirement is met from power purchase and is estimated that approximately 23%-25% & 75%-77% of the total energy requirement for FY 2021-22 shall be met by own generation and power purchase respectively. The present scenario is likely to continue and is projected that energy requirement for FY 2022-23, 2023-24 and 2024-25 shall be met through mix of own generation and power purchase. The Petitioner further submitted that they procure electricity from own generating stations as well as from purchase from HPPs, IPPs & NTPC (SPV). The present power availability of EDA&N is as listed below:

Table 28: Details of the power procurement from power purchase and own generation

Generating Station	Purchase of Power (MW)	Own generation (MW)	Total Availability (MW)
Purchase			
HPP- I	5.00		5.00
HPP-II	10.00		10.00
NTPC DG Power Plant Aggreko	5.00		5.00
NTPC DG Power Plant NVVN	10.00		10.00
DG Power Plant at Niel	0.40		0.40
NTPC (SPV)	5.00		5.00
SECI	1.00		1.00
Mundra (Roof Top)	2.84		2.84
Mundra (Roof Top) Car Nicobar	0.31		0.31
Mona Generation Mayabandar	1.60		1.60
Baratang HPP	0.80		0.80
NLC Ground Mounted	20.00		20.00
Gandhi Nagar	0.08		0.08
Ganesh Nagar	0.15		0.15
Shanti Nagar	0.18		0.18
Smith Island (Sagar Deep)	0.15		0.15
Own Generation			
Diesel		60.04	60.04
Hydro		5.25	5.25
Total	62.51	65.29	127.80

The Petitioner has projected the total power generation for the control period as given below:

Table 29: Details of the power generation for control period FY 2022-23 to FY 2024-25

Energy Balance	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
	(Estimated)	(Projected)	(Projected)	(Projected)
Power Purchase (MU)	261.82	271.38	283.77	295.60
Own Generation (MU)	80.10	82.50	84.99	87.54
Total (MU)	341.92	353.88	368.76	383.14

Commission's Analysis

As per Regulation 13.1 of the MYT Regulations, 2021, power purchase is an uncontrollable parameter. Thus, the power purchase has to be revisited every year by the Commission. The Commission noted that there is a difference in the power availability schedule as submitted by the Petitioner in the Business Plan petition and MYT petition. Further, the Petitioner has not submitted the projections of energy availability as sought by the Commission in the Business Plan Petition and has only been submitted as part of the MYT Petitioner. Therefore, the Commission considers the power availability as submitted by the Petitioner in MYT Petition from various sources over the control period.

Table 30: Details of the power procurement from power purchase and own generation

Generating Station	Purchase of Power (MW)	Own generation (MW)	Total Availability (MW)
Purchase			
HPP- I	5.00		5.00
HPP-II	10.00		10.00
HPP NTPC (Aggreko)	5.00		5.00
NTPC GM Solar PV Plant	5.00		5.00
HPP NTPC (Express Engg.)	10.00		10.00
DG Power Plant at Shaheed Dweep	0.40		0.40
DG Power Plant at Swaraj Dweep	3.23		3.23
SECI (Rooftop SPV) Port Blair	1.00		1.00
Mundra (Rooftop SPV) Port Blair	2.84		2.84
Mundra (Rooftop SPV) Car Nicobar	0.31		0.31
HPP (Express Engg.) Mayabundar	1.60		1.60
HPP (Express Engg.) Baratang	0.80		0.80
NLC Ground Mounted SPV Plant	20.00		20.00
HPP (Express Engg.) Gandhi Nagar	0.082		0.082
HPP (Express Engg.) Ganesh Nagar	0.148		0.148
HPP (Express Engg.) Shanti Nagar	0.18		0.18
HPP (Express Engg.) Smith Island	0.148		0.148
Own Generation			
Diesel		60.04	60.04
Hydro		5.25	5.25
Total	65.738	65.29	130.88

The Commission has considered the availability of Power for the HPPs/IPPs as projected by the Petitioner. Further, for the availability of Power from own DG sets, the Commission has considered power purchase after adjusting the power purchase quantum from the power requirement computed based on the approved sales and T&D losses. The table below provide the details of the power purchase quantum approved from various sources for the control period:

Table 31: Power Purchase Quantum (MU) approved by the Commission for the control period

S. No.	Particulars	FY 2022-23	FY 2023-24	FY 2024-25
1	Own Generation (HSD)	45.08	39.56	35.06
2	KHEP (Kalpong Hydro)	13.16	13.16	13.16
3	Solar (Own)	0.02	0.03	0.03
4	HPP -1 (5 MW)	39.49	41.33	43.11
5	HPP-2 (10MW)	66.75	69.79	75.78
6	NTPC - SPV	5.58	5.83	6.06
7	Other HPPs	0.30	0.32	0.33
8	NTPC DG 5MW	49.01	51.24	53.29

S. No.	Particulars	FY 2022-23	FY 2023-24	FY 2024-25
9	NTPC DG 10MW	68.14	71.24	74.09
10	DG P/Plant Niel 0.96MW	0.24	0.25	0.26
11	DG P/Plant Havelock 3 MW	10.48	10.96	11.40
12	SECI Solar	0.94	0.98	1.02
13	M/s. MUNDRA	3.23	3.38	3.51
14	NLC	16.10	16.83	14.65
15	Mayabunder	9.88	10.32	10.74
16	Baratang	1.24	1.30	1.35
17	Total	329.63	336.51	343.84

3.4.3. Energy Balance

Petitioner's submission

The energy balance for FY 2020-21 and FY 2021-22 and the upcoming Control Period as estimated by the Petitioner is as given below:

Table 32: Energy Balance as estimated by the Petitioner for the upcoming Control Period

Energy Balance	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
	(Actuals)	(Estimated)	(Projected)	(Projected)	(Projected)
	MU's	MU's	MU's	MU's	MU's
Energy Sales					
LT Supply	232.27	280.69	293.68	307.29	321.53
HT Supply	0.00	0.00	0.00	0.00	0.00
Total Energy Sales	232.27	280.69	293.68	307.29	321.53
Overall T & D Losses %	18.01	17.91	17.01	16.67	16.08
Overall T & D Losses (MUs)	51.02	61.24	60.19	61.47	61.61
Total Energy Requirement	283.29	341.92	353.88	368.76	383.14
ENERGY AVAILABILITY AT PERIPHERY					
Power Purchase	244.55	261.82	271.38	283.77	295.60
Own Generation	38.75	80.10	82.50	84.99	87.54
Total Energy Availability	283.29	341.92	353.88	368.76	383.14
ENERGY SURPLUS/(GAP)	0.00	0.00	0.00	0.00	0.00

Commission's analysis

The energy balance for the upcoming Control Period based on the Commission's analysis is given below:

Table 33: Energy Balance projections approved by the Commission for the upcoming Control Period

Energy Balance	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
	(Estimated)	(Projected)	(Projected)	(Projected)
	MU's	MU's	MU's	MU's
Total Energy Sales	265.31	277.19	289.71	302.89
Overall T & D Losses %	13.34	15.91	13.91	11.91
Overall T & D Losses (MUs)	40.84	52.44	46.81	40.95
Total Energy Requirement	306.15	329.63	336.52	343.85
Power Purchase	261.82	271.38	283.77	295.60
Own Generation	44.33	58.25	52.75	48.25
Total Energy Availability	306.15	329.63	336.52	343.85
ENERGY SURPLUS/ (GAP)	-	-	-	-

3.4.4. Renewable Purchase Obligation (RPO)

Petitioner's submission

The Renewable Purchase Obligation (RPO) for the Utilities has been specified by the Commission vide JERC for State of Goa & Union Territories (Procurement of Renewable Energy), 2010, First Amendment Regulations, 2014, Second Amendment Regulations, 2015, and Third Amendment Regulations, 2016. The Commission has not revised/specified Renewable Purchase Obligation (RPOs) targets for all Distribution Licensees/obligated entities for FY 2022-23 to FY 2024-25. Accordingly, RPO targets as specified for the previous control period has been considered for projecting the RPO during the FY 2022-23 to FY 2024-25. The RPO targets for the control period to be achieved by the EDA&N during the Control Period as specified in the Regulations is as follows:

Table 34: RPO Compliance as submitted by the Petitioner

Generating Station	Solar RPO (%)	Non-Solar RPO (%)
2022-23	8.00	9.00
2023-24	8.00	9.00
2024-25	8.00	9.00

The Petitioner submitted that it intends to meet RPO as per the directions of the Commission in the MYT Control Period and has planned to meet the Solar RPO from the purchase of solar power from roof-top projects and other solar power plants within the UTs. Further, the Petitioner submitted that RPO towards non-solar shall be met through EDA&N's own hydro power plant. While EDA&N is exploring the possibilities of other sources of non-solar renewable power, the shortfall in the RPO requirement is proposed to be met by purchase of non-solar REC's.

The summary of projected Solar and Non-Solar RPO for the Control Period as submitted by the Petitioner is as given below.

Table 35: Renewable Purchase Obligation submitted by the Petitioner

Energy Balance	FY 2022-23	FY 2023-24	FY 2024-25
	(Projected)	(Projected)	(Projected)
	MU's	MU's	MU's
Solar Obligation			
Solar RPO (%)	8.00	8.00	8.00
Projected Sales (MU)	293.68	307.29	321.53
Less: Hydro Sources	11.11	11.11	11.11
Sales excluding Hydro sources	282.57	296.18	310.42
Total power to be procured to meet solar obligation (MU)	22.61	23.69	24.83
Non-Solar Obligation			
Non- Solar RPO (%)	9.00	9.00	9.00
Total power to be procured to meet non- solar obligation (MU)	25.43	26.66	27.94

Commission's Analysis

The Commission has approved the Renewable Purchase Obligation (RPO) and Hydro Purchase Obligation (HPO) for the 3rd Control Period considering the JERC (Procurement of Renewable Energy), (Fourth Amendment) Regulations, 2022 notified on 24th March 2022 wherein the revised RPO targets and the HPO targets for the 3rd Control Period were approved and are as follows:

Table 36: RPO Compliance for the Control period

Year	Minimum quantum of Renewable purchase obligation (RPO) of renewable energy (in kWh)				Total RPO
	Solar RPO	Non-Solar RPO			
		HPO	Other Non-Solar	Total Non-Solar	
FY 2022-23	9.00%	0.35%	9.00%	9.35%	18.35%
FY 2023-24	10.00%	0.66%	9.25%	9.91%	19.91%
FY 2024-25	11.00%	1.08%	9.50%	10.58%	21.58%
FY 2025-26	12.00%	1.48%	9.75%	11.23%	23.23%
FY 2025-26	13.00%	1.80%	10.20%	12.00%	25.00%

The Commission directs the Petitioner to comply with the entire RPO target irrespective of Solar or Non-Solar Sources. Actual compliance in respect of the pending RPO obligations would be reviewed at the time of true-up of the respective years and supporting details such as purchase of RECs, bills from solar/non-solar plants for the respective years must be submitted alongside during the MYT filing.

In view of the sales projections approved by the Commission in Section 3.2.5 , the Commission approves the RPO obligation for each year of the Control Period based on the JERC (Procurement of Renewable Energy) Regulations, 2010 and subsequent amendments thereof, as shown below:

Table 37: RPO Obligation approved by the Commission

Particulars	FY 2022-2023	FY 2023-24	FY 2024-25
Sales within State (MU) (A)	277.19	289.71	302.89
Solar Obligation			

Particulars	FY 2022-2023	FY 2023-24	FY 2024-25
Solar RPO (%)	9.00%	10.00%	11.00%
Total power to be procured to meet solar obligation (MU)	24.95	28.97	33.32
Non-Solar Obligation			
Non- Solar RPO (%)	9.00%	9.25%	9.50%
Total power to be procured to meet non- solar obligation (MU)	24.95	26.80	28.77
HPO Obligation			
HPO Obligation (%)	0.35%	0.66%	1.08%
Total power to be procured to meet hydro obligation (MU)	0.97	1.91	3.27
Total power to be procured to meet solar and non-solar RPO	50.86	57.68	65.36

3.5. Capital Investment Plan

3.5.1. Details of capital expenditure and capitalisation

Petitioner's Submission

The Petitioner has submitted that it plans to carry out capital expenditure during the Control Period for system upgradation requirements and improvement of reliability. A Summary of capital expenditure projections and capitalisation schedule of new schemes for the upcoming Control Period is given below.

Table 38: Capital expenditure plan proposed by the Petitioner for the upcoming Control Period

Sr. No.	Schemes	Estimate d Project Cost (INR Lakh)	Proposed Expenditure (INR lakh)			Capitalisation (INR lakh)		
			2022-23	2023-24	2024-25	2022-23	2023-24	2024-25
1	Installation of 27,302 Prepaid Smart Meters and remaining 36,000 under RDSS scheme.	4000	800	1600	1600	0	2400	1600
2	New Installation and Repairment & augmentation on the existmg distribution transformers (Total 95 No's of Distribution Transformer) at 33KV/11 KV existing sub-station including HT/LT Panels.	1059	188	406	465	188	406	465
3	The scheme will provide commissioning of new sub-stations and the replacement of existing 33/11 KV sub-station including HT/LT Panels, HT/ LT Shunt Capacitors etc, replacement of old and obsolete panels and other allied equipment etc.	4372	593	889	2890	0	0	4372
4	Laying of HT/LT new cable line and also replacement of	2363	545	967	851	545	967	851

Sr. No.	Schemes	Estimated Project Cost (INR)	Proposed Expenditure (INR lakh)			Capitalisation (INR lakh)		
			2022-23	2023-24	2024-25	2022-23	2023-24	2024-25
	old and defective cables in all the Island.							
5	Total	11794	2126	3862	5806	733	3773	7288

Commission's Analysis

The Commission has analysed the actual achievement of capital expenditure and capitalisation of the Petitioner vis-à-vis that approved by the Commission in the previous Business plan of MYT control period from FY 2019-20 to FY 2021-22 as given in table below:

Table 39: Capital expenditure achieved by the Petitioner vis-à-vis approved by the Commission

Particulars (INR Crore)	FY 2019-20		FY 2020-21		FY 2021-22		Total		
	Approved	Actual	Approved	Actual	Approved	Actual	Approved	Actual	% Achievement
Capital Expenditure	6.32	1.38	30.30	23.87	9.55	28.36	46.17	53.61	116.11%

The Commission observes that the Petitioner has achieved 116.11% of approved capital expenditure and approved capitalisation for MYT control period of FY 2019-20 to FY 2021-22.

The Commission vide deficiency note sought detailed justification and cost benefit analysis of various proposed scheme for the upcoming control period. However, the Petitioner has failed to submit the same. The Commission during the Technical Validation Session sought the details for proposed capital expenditure such as Detailed Project Reports, cost benefit analysis etc, in response, the representatives for the Petitioner submitted that the projects have been sent for administration's approval and the same shall be provided once it is received from their side.

For the upcoming Control Period, the Commission has compared capital expenditure and capitalisation proposed by the Petitioner with the details submitted by the Petitioner along with the Business Plan Petition and replies to Deficiency Notes. Considering the T&D trajectory approved for the control period, the Commission is inclined to approve the capital expenditure as proposed by the Petitioner. However, **the Commission directs the Petitioner to submit the details such as Detailed Project Reports, cost benefit analysis etc at the time of filing of next tariff petition for Commission's consideration, failing which the Commission may be forced to disallow the capital expenditure.**

A Summary of capital expenditure approved by the Commission for the upcoming Control Period is given below.

Table 40: Summary of Capital expenditure plan and capitalisation approved by the Commission for the upcoming Control Period

Sr. No.	Schemes	Estimated Project Cost (INR Lakh)	Proposed Expenditure (INR Lakh)			Capitalisation (INR Lakh)		
			2022-23	2023-24	2024-25	2022-23	2023-24	2024-25
1	Installation of 27,302 Prepaid Smart Meters and remaining 36,000 under RDSS scheme.	4000	800	1600	1600	0	2400	1600
2	New Installation and Repairment & augmentation on the existing distribution transformers (Total 95 No's of Distribution Transformer) at 33KV/11 KV existing sub-station including HT/LT Panels.	1059	188	406	465	188	406	465
3	The scheme will provide commissioning of new sub-stations and the replacement of existing 33/11 KV sub-station including HT/LT Panels, HT/ LT Shunt Capacitors etc, replacement of old and obsolete panels and other allied equipment etc.	4372	593	889	2890	0	0	4372
4	Laying of HT/LT new cable line and also replacement of old and defective cables in all the Island.	2363	545	967	851	545	967	851
5	Total	11794	2126	3862	5806	733	3773	7288

Therefore, the Commission approves a total capital expenditure and capitalisation of Rs. 117.94 Cr for the upcoming Control Period.

Regulation 8.5 (f) of the JERC MYT Regulations, 2021 in this regard stipulates as follows:

“The Licensee shall submit a report for every quarter detailing the progress of the capital expenditure and capitalisation undertaken against that 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 directs the Petitioner to submit a quarterly report every quarter of actual capital expenditure and capitalisation starting from first quarter of FY 2022-23.

3.5.2. Funding Plan

Petitioner’s submission

The Petitioner has submitted that the entire capital expenditure incurred has been funded through equity infusion by Government of India (GoI) through budgetary support without any external borrowings. There are no loan borrowings by the Petitioner for the capital expenditure.

Further, the Petitioner submitted that as per MYT Regulations, 2021, any equity deployed in excess of 30% of the capital cost of the project, is required to be treated as normative loan. Since the entire capital expenditure in various schemes shall be infused by the GoI, the Petitioner requested the Commission to consider the funding of various schemes in accordance with MYT Regulations and approve the same. The breakup of the financing of the capital expenditure during the upcoming Control period is as given in the table below:

Table 41: Proposed funding details for the upcoming Control Period

Particulars	FY 2022-23 (INR Crore)	FY 2023-24 (INR Crore)	FY 2024-25 (INR Crore)
Proposed Capital Expenditure	21.26	38.62	58.06
Actual Funding			
100% Equity from Central Govt.	21.26	38.62	58.06
Proposed Funding in line with Regulation of JERC MYT Regulations			
Equity (30%)	6.38	11.59	17.42
Debt (Normative Debt in excess of 30% equity)	14.88	27.03	40.64
Total Funding	21.26	38.62	58.06

Commission's analysis

Based on the capital expenditure approved by the Commission, the approved funding details is given in the table below:

Table 42: Approved funding plan for the upcoming Control Period

Particulars	FY 2022-23 (INR Crore)	FY 2023-24 (INR Crore)	FY 2024-25 (INR Crore)
Actual Capitalisation	21.26	38.62	58.06
Actual Funding			
Equity from Central Govt.	21.26	38.62	58.06

The Commission has approved the funding as Equity from GoI as proposed by the Petitioner. However, for computing the various components of ARR in MYT Order, the Commission will consider the Debt and Equity percentage as per Regulation 25 of MYT Regulations, 2021 and any equity deployed in excess of 30% of the capital cost of the project will be treated as normative loan.

3.6. Other Expenditure

3.6.1. Expenses related to Health & Safety

Petitioner's Submission

The Petitioner has submitted that in order to ensure safety of its manpower, the safety measures prescribed under Indian Electricity rules, Safety, Electricity Supply Regulations 2010 notified by CEA and Joint Electricity Regulatory Commission (Distribution Code Regulation 2010) needs to be adhered to by the utility. Accordingly, to comply with the safety measures directed by the Commission, the EDA&N intends to examine all the Rules and Regulations in the force and

suggest way forward. The EDA&N shall analyse existing safety standards, tool kits and practices being followed by the department. To comply with the safety regulation in place, EDA&N shall come out with suitable safety tool kits/ equipment required to carry out operation and maintenance of distribution network. The Petitioner has estimated the cost with respect to the safety measures as given in the table below:

Table 43: Safety Measure Expenditure as proposed by the Petitioner for the upcoming Control Period

Particulars	FY 2022-23 (INR Lakh)	FY 2023-24 (INR Lakh)	FY 2024-25 (INR Lakh)
Safety Measures	1.52	1.68	1.75

Commission's Analysis

The Commission directs the Petitioner to submit the complete details of proposed expenditure under this head, including the basis for arriving at the amount and the initiatives planned at the time of filing of next tariff petition. Further, the Commission directs the Petitioner to submit the details of actual expenditure under this head in last three years, if any. Therefore, the expenditure related to safety measures has not been allowed in this order.

3.7. Manpower Plan

Petitioner's Submission

The Petitioner has forecasted the number of employees based on the retirements and recruitments for the Control Period from FY 2022-23 to FY 2024-25. The forecasted number of employees submitted by the Petitioner is as given in the table below:

Table 44: Projections of number of employees as proposed by the Petitioner for the upcoming Control Period

Particulars	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25
No. of employees as on 1 st April	1821	2016	2035	1912
No. of employees added during the year	304	142	0	0
Number of employees retired/retiring during the year	109	123	123	149
Number of employees at the end of the year	2016	2035	1912	1763

Commission's Analysis

The Commission approves the Petitioner's additional manpower requirements. However, the Commission directs the Petitioner to furnish the Government approvals at the time of petition filing for the next year.

3.8. Other Initiatives

3.8.1. IT and Technological Initiatives

Petitioner's Submission

The Petitioner has submitted that they have taken various IT & Technological initiatives for improvement of system working & efficiency. Now the entire subordinate offices of the Department have been provided with sufficient computers, dedicated internet connection and thus virtually interconnected each other. Further, the department has switched over to web-based

applications for extending various online facilities to its consumers and to have a real time monitoring of the activities of the Department.

The Petitioner has also implemented outage management system under Urja Mitra Scheme, which will enable monitoring and information for schedule/unscheduled outages. The table below provides the overview of various initiatives taken by the Petitioner:

Table 45: Details of IT Initiatives taken by the Petitioner

Sr. No.	Particulars	Project/ Services	Remarks
1.	Details of activities in progress (Need of such initiatives and status update)	Inventory Management System	With Inventory Management System, this department can live track all the stocks and available items in the stores of this department from anywhere from the A&N Island. The Inventory Management System will bring transparency and reduce the process time.
2.	In-house activities	File Tracking System (Diary & Despatch System)	The letter, files and other documents are registered in the online platform and saved in the database. The files can be tracked and the status can be monitored anytime from anywhere.
3.	Outsourced activities	Smart Meter	The old meters are being replaced with new smart meters. These smart meters can send the meter reading automatically, which reduced the mistakes and increase the transparency.
4.	New/ upcoming initiatives and upgrades project	Lease Line Connectivity	At present the site offices in South Andaman except Shaheed, Swaraj Deep and Hutbay are connected with State Data Centre. This department has a plan to connect all the billing systems working in standalone mode to be connected with the State Data Centre through lease line.

Commission's Analysis

The Commission appreciates the Petitioner for taking the technological advancement initiatives.

3.8.2. Customer Service-Related Activities

Petitioner's Submission

The Petitioner has submitted that it has taken several initiatives for improvement of customer service. The steps already taken and those proposed to be taken are provided below.

- Consumer Helpline Centre: EDA&N has established centralized complaint centre where consumers can lodge complaints and remedial action to their queries can be taken accordingly.

- EDA&N has introduced the facility of online energy bill payment whereby consumers can pay their bill by debit card/ credit card/ internet banking.
- EDA&N has introduced the facility of online billing.

The details of the initiatives taken by the department towards Consumer Service is provided in the following table:

Table 46: Various Customer Service-related activities taken by the Petitioner

Sr. No.	Particulars	Project/ Services	Remarks
1.	Mechanism of collecting feedback and complaints from customers	1. Central Control Room	This department has a central control room to register complaints from consumers over phone.
2.	Steps taken to act on feedbacks and customer complains	2. Social Media Handles (Twitter & Facebook) 3. Gmail	The complaints registered over phone are directed to the concerned officer/ site office. The complaints and feedback received through Social Media Handles and Gmail are also forwarded to concern officers/ site office.
3.	Initiatives related to on-line payment and other online services	1. Urja Pay (Online Energy Bill) 2. New Meter Connection 3. Unified Solar Rooftop Portal	This department has launched online electricity bill payment portal, online new meter connection, Unified Solar Rooftop portal and are used by consumers of this department.

Commission's Analysis

The Commission appreciates the Petitioner for taking several initiatives for improvement of customer service and provide them with the flexibility to reach department through various channels for resolving various issues and ease out the existing processes. The Petitioner should also take steps to enhance the system reliability and stability while focussing on the overall consumer service.

Annexures

Annexure 1: List of Stakeholders who attended the Public hearing on 24th and 27th May 2022

Table 47: List of Stakeholders who attended hearing at Swaraj Dweep

S.No.	Name of Person (Mr/Ms)/ Stakeholders for Swaraj Dweep
1	Shri. Alok Mridha
2	Shri. Ajit KR.ROY
3	Smt. Devjani Sikder
4	Smt. Mamta Mondal
5	Smt. Geeta Biswas
6	Smt. Shilpa Samaddar
7	Smt. Deepika Halder
8	Shri Dhamanjoy Roy
9	Shri. Bhabatosh Biswan
10	Smt. Maloti mondal
11	Smt. Mala Halder
12	Smt. Rina Samadder
13	Smt. Saniti Sarkar
14	Shri. Puma ch. Helder
15	Shri. Eduared Suni
16	Shri. Manic Suxdar
17	Shri. Munna Kumar
18	Shri. Jitan Ghorami
19	Shri. Gourav Biswas
20	Smt. Rita Dhani
21	Smt. Sunita Dhali
22	Smt. Trapati Sethi
23	Surpdeb Jaydehar
24	Smt. Manisha Gharani
25	Shri. Aloka Biswas
26	Smt. Suparna Biswas
27	Shri. Rajesh Mistry
28	Shri. Uttam Kumar Hawlader
29	Shri. Sanjay Basu
30	Shri. Bidhen Mandal
31	Shri. Ram Krihsana Banu
32	Shri. Sushoban Sarkar
33	Shri. Shibu Chakarverthy
34	Shri. Rasidra Nath Mandal
35	Shri. Abhishek Roy
36	Shri. Abinash Biswas
37	Shri. Dinesh Bechor
38	Shri. Sujit kumarbarai
39	Shri. Robin Baroi
40	Shri. Rameavah
41	Shri. Amitabh Roy

S.No.	Name of Person (Mr/Ms)/ Stakeholders for Swaraj Dweep
42	Shri. Aviket Star
43	Shri. Azar Ali
44	Shri. Haror Lal Roy
45	Smt. Deepak Chakraborty
46	Shri. Abhijit Mallick
47	Shri. Dijnkar Gur
48	Shri. Ashok Sihdar
49	Smt.Reetu
50	Shri. Subodh Samaddar
51	Shri. Dev
52	Shri. Mahu
53	Shri. Narayan Dads
54	Shri. Raghupati Mondal
56	Shri. Ajeet Singh Hadar
57	Shri. Ashok Ojha

Table 48: List of Stakeholders who attended hearing at Port Blair

S.No.	Name of Person (Mr/Ms)/ Stakeholders for Port Blair
1	Smt.Sampa Banerjee
2	Shri. Joshna Bala
3	Shri. K Vardhan Mi
4	Shri. Prabhakar Rai Sharma
5	Shri. Sahjh h. Nall
6	Shri. Akshay Khata
7	Shri. Bishvv Padaram
8	Shri. R.Ravichandra
9	Shri. C.R.Chowdhy
10	Shri. K.P. Mohandas
11	Shri. SK. Mujibar
12	Shri. D Sandeep
13	Shri. Tapas Bhatt
14	Shri. Jamal Bhatt
15	Shri. G.Lakhamani Rao
16	Shri. S.Karma Rao
17	Shri. Pankaj Tripathi
18	Shri. B. Venlceterh
19	Shri. Kamal
20	Shri. Anupam Mondal
21	Shri. Paritish
22	Shri. Mohd Rafi
23	Shri. Somjit Mridha
24	Shri. Dinesh kumarp
25	Shri. P Babu
26	Smt. Sasi Nair
27	Shri. M. Soamy
28	Smt.A.Santosh Kumar
29	Shri. Mohammed
30	Shri.K.Boobathey
31	Shri. B.Dinush Kumar
32	Shri. Govind Roy

S.No.	Name of Person (Mr/Ms)/ Stakeholders for Port Blair
33	Smt.Shina
34	Shri. Anuj
35	Shri. Jeevan
36	Smt.Hema
37	Shri. V.Minu
38	Shri. Nalin G
39	Shri. Saji Vavghes
40	K.Sarkar
41	Shri. A.R. Mareickav
42	Shri. R Aayalal
43	Shri. V.k.Anil
44	Shri. Dmffrat Singh
45	Shri. Sajid Shan
46	Shri. Sanjay
47	Shri. K.p.Usman
48	Shri. P.Namaswamy
49	Shri. M.Raja
50	Shri. S.B.
51	Shri. Ranjit
52	Shri. S.Muthuraman
53	Shri. E.Kodanda Rao
54	Shri. A.Chandra Kumar
55	Shri. V.Govindan
56	Shri. M.Ausasyam
57	Shri. Ashraf
58	Shri. Antony sterphen
59	Shri. V Vinita Rao
60	Shri. Dinesh
61	Shri. B. Nagendran
62	Shri. M. Murugesman
63	Shri. Srawan dginurth
64	Shri. Hanumant jain
65	Shri. Manujeshar
66	Dr. R. Dev Das
67	Shri. L moorthy
68	Shri. Anil Goel
69	Shri. Dakshin B
70	Shri. Zaqir J
71	Shri. Diwakar Moorthy
72	Shri. P.J. Shikhar
73	Shri. Sargar kumar
74	Shri. Abilash Sharma
75	Shri. Vikash larry
76	Shri. Arun singh
77	Shri. P.D. Parsad
78	Shri. G. Alagar Raja
79	Shri. Sourav Gain
80	Adv. Vishal Biswas
81	Shri. Adarsh Ilango
82	Shri. C-Ramajayan
83	Shri. S.Venuga Pal

S.No.	Name of Person (Mr/Ms)/ Stakeholders for Port Blair
84	Shri. Maraj Kr
85	Shri. S. Sujth
86	Shri. K.Gopinath
87	Shri. S.kanniappan
88	Shri. Sahsh
89	Shri. Predi
90	Shri. Kishen Lal
91	Shri. L.Kannan
92	Shri. Muruhan
93	Smt. Sheela
94	Shri. Shyamlal Chawdhry
95	Shri. Bishnu Pada Ray
96	Shri. Grish Arora
97	Shri. Pushkar Anand
98	Shri. Rajesh Anand
99	Shri. Nasreen
100	Shri. Hameeda
101	Smt. Kiran Shashtri
102	Shri. Hubaida Begum
103	Shri. M.A.Sajid
104	Shri. Simson
105	Shri. Gyan Prakash Kishna
106	Shri. K.Ibrahim
107	Shri. Sadab Riaz
108	Shri. Palash Mali
109	Shri. Kenjith.K
110	Shri. Sivabalan
111	Shri. Sidhant K.Pathak
112	Shri. Somin
113	Shri. V.Suresh
114	Shri. Biswas
115	Shri. K.Jayashee
116	Shri. Sudhama
117	Shri. E. Rao

Table 49: List of Stakeholders/Institutions who submitted written comments

S.No.	Name of Person (Mr/Ms)/ Stakeholders / Institutions
1	Sh. Vikas Lall, Hotel Aparupa (A) Pvt.
2	Sh. Zakir, M/s. Jadwet Hotels
3	Coral Reef Resort Pvt. Ltd.
4	Coral Reef Resort Pvt. Ltd.
5	TSG Hotels & Resorts
6	Sh. Farhan Jadwet for Jadwet Mahindra Automobile Industry
7	TSG Automobiles
8	Sh. Tanveer Singh, Director Hotel Shompen
9	Sh. Tanveer Singh, Director Hotel Shompen
10	Sh. Tanveer Singh, Director Hotel Seven Island
11	Sh. Tanveer Singh, Director Hotel Summber Sands
12	Hoteliars Association of A&N Islands
13	Mrs. Usha Moorthy, Proprietor Diviyun Manor
14	Laghu Udyog Bharati

S.No.	Name of Person (Mr/Ms)/ Stakeholders / Institutions
15	Sh. M H Jadwet, Partner M/s. Jadwet Trading Company
16	TSG AQUA
17	Andaman Chamber of Commerce & Industry (ACCI)
18	Sh. Chintan Shah, Vice President Andabar Cold Stores Pvt. Limited
19	Southern Holdings & Investments
20	TSG AQUA
21	Sh. Diwakar Moorthy, Operations Manager, Cinema Theatre
22	Sh. Gavaskar S GM-Finance & Accounts, Gennext motors (Andaman) Pvt. Limited
23	DI Estate Welfare Association
24	M/s. Andaman Cold Chain
25	Sh. Abhishek Kumar, Hotel Mainak
26	Family of Mahatma Gandhi International School
27	RIFLEX Industries Pvt. Ltd
28	Reef Atlantis
29	TSG
30	Sh. Arun
31	M/s. Shiva Tank
32	Andaman Cottage Match Industries
33	K. K. Furniture
34	Integrated Coco Carbon & Agro Products Pvt. Ltd
35	Ajoy Bairagi, Bharatiya Janata Party
36	Kavitha Udhay Kumar Chairperson, Municipal Council
37	Hoteliers Association of A&N Islands
38	Vishal Jolly, Bharatiya Janata Party
39	Mahesh Kishan