

Aggregate Revenue Requirement and
Tariff Proposal for FY 2015-16

Main Text & Formats (Volume I)

Submitted to:

Joint Electricity Regulatory Commission
Gurgaon

By

Electricity Department, Transmission Division,
UT of Dadra and Nagar Haveli

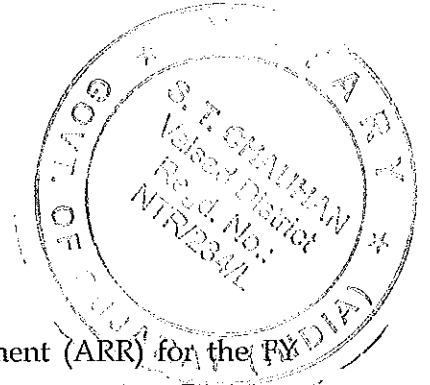
November 2014

AFFIDAVIT

**BEFORE HON'BLE JOINT ELECTRICITY REGULATORY COMMISSION FOR THE
STATE OF GOA & UNION TERRITORIES**

File No. _____

Case No. _____



IN THE MATTER OF: Filing of Aggregate Revenue Requirement (ARR) for the FY 2015-16 for Electricity Department, Transmission Division, Union Territory of Dadra and Nagar Haveli under Section 61, 62 and 64 of the Electricity Act, 2003

AND

IN THE MATTER OF Electricity Department, Transmission Division, Union Territory of Dadra and Nagar Haveli (hereinafter referred to as "ED-DNH" or "The Petitioner" or "The Department")

..... Petitioner

I, Shri Harshadbhai Mohanbhai Patel, son of Shri Mohanbhai Premabhai Patel (aged 51 years), (occupation) Government Service residing at Samarvarni, Silvassa the deponent named above do hereby solemnly affirm and state on oath as under:

1. That the deponent is the Executive Engineer (Transmission), Electricity Department, Dadra and Nagar Haveli who is authorized as per the order of the Administration of Dadra & Nagar Haveli Order No.459, dated 13.10.2014 and is acquainted with the facts deposed as below.
2. I, the deponent name above do hereby verify that the contents of the accompanying petition are based on the records of the Electricity Department, Transmission Division, Union Territory of Dadra and Nagar Haveli maintained in the ordinary course of business and believed them to be true and I believe that no part of it is false and no material facts have been concealed there from.

Details of enclosures:

Proposal for Aggregate Revenue Requirement ("ARR") for the FY 2015-16 for determination of tariff.

Petition fee - Rs. 15,00,000/- vide DD. No. _____ dated _____

For the Electricity Department, Transmission Division, Union Territory of Dadra and Nagar

कार्यपालक अभियंता (प्रसारण)
Executive Engineer (Trans.)
विद्युत विभाग
Electricity Department
दादरा एवं नगर हवेली
Dadra & Nagar Haveli
सिलवासा/Silvassa

Haveli

Petitioner

Place: Dadra & Nagar Haveli, Silvassa

I, Shri S. T. Chauhan Advocate, Silvassa, do hereby declare that the person making this affidavit is known to me through the perusal of records and I am satisfied that he is the same person alleging to be deponent himself.

Advocate

Solemnly affirmed before me on this 26th day of November 2014 at - p.m/a.m by the deponent who has been identified by the aforesaid Advocate. I have satisfied myself by examining the deponent that he understood the contents of the affidavit which has been read over and explained to him. He has also been explained about section 193 of Indian Penal Code that whoever intentionally gives false evidence in any of the proceedings of the Commission or fabricates evidence for purpose of being used in any of the proceedings shall be liable for punishment as per law.

Book No.: 2
Page No.: 41
Serial No.: 512
Date.: 26/11/2014
Certificate of Practice
Valid till : 23/7/2017

Behu
Silvassa

S. T. Chauhan
Notary, Valsad District,
Yogi Smriti, Mullawadi,
Valsad-396 001,
Gujarat - INDIA.

Solemnly affirmed before me
by Shri he. n. Patel
who has been identified by Shri he. n. Patel
whom I know Personally

BEFORE THE JOINT ELECTRICITY REGULATORY COMMISSION
FOR THE STATE OF GOA & UNION TERRITORIES

Filing No.....

Case No.....

IN THE MATTER OF: Filing of Aggregate Revenue Requirement (ARR) for the
FY 15-16 for Electricity Department, Transmission
Division, Union Territory of Dadra and Nagar Haveli
under Section 61, 62 and 64 of the Electricity Act, 2003

AND

IN THE MATTER OF Electricity Department, Transmission Division, UT of
Dadra and Nagar Haveli
(hereinafter referred to as "ED-DNH" or "The Petitioner"
or "The Department")
..... Petitioner

The Applicant respectfully submits as under: -

1. Electricity Department, Transmission Division is a statutory body engaged in the transmission of electricity in the Union Territory of Dadra & Nagar Haveli. Consequent to the enactment of the Electricity Act, 2003 (hereinafter referred to as the "Act"), the process of approval of proposed tariffs is vested with the State Commission. Based on the provisions of Section 61, 62 and 64 of the Act, Electricity Department, Transmission Division is filing the current Petition, in order to meet its financial requirements.
2. This is a Petition indicating the Aggregate Revenue Requirement (ARR) of Electricity Department, Transmission Division and Tariff Proposal of Electricity Department, Transmission Division for the FY 15-16 (Financial Year 2015-16).

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ACRONYM	DEFINITION
A&G Expenses	Administrative & General Expenses
CEA	Central Electricity Authority
CERC	Central Electricity Regulatory Commission
CPP	Captive Power Plant
Ckt. Km / ckm	Circuit Kilometres
Discom	Distribution Company
EA 2003	Electricity Act 2003
G,T and D	Generation, Transmission and Distribution
IPPs	Independent Power Producers
IDC	Interest During Construction
MU	Million Units
MYT	Multi-Year Tariff
ND	Normal Development
PE	Power Evacuation
O&M	Operations and Maintenance
R&M Expenses	Repair & Maintenance Expenses
RoE	Return on equity
T&D	Transmission and Distribution
GFA	Gross Fixed Assets
R&M	Renovation & Modernisation
S/S	Sub Station
O&M	Operation & Maintenance
PGCIL	Power Grid Corporation of India Limited

Notes:

In this Petition:

All currency figures used in this Petition, unless specifically stated otherwise, are in Rs Crore and Million Units.

This petition contains the Main Text of the Petition, Formats and Annexure (Volume II)

Chapter 1: Introduction

1 Electricity Department, Transmission Division Profile

The power sector has grown significantly since 1950s, in terms of capacity of its generation and transmission & distribution (T&D) assets. Presently the sector and its business arrangements are in transition from a monopolistic government control system to market driven competition. Electricity Act 2003 (EA 2003) provides for consolidation of laws relating to generation, transmission, distribution, trading & use of electricity and for taking measures to restructuring the power sector, promoting competition, protecting customer interests and ensuring viability of the sector. Amongst other steps like open access etc, EA 2003 mandated unbundling of State Electricity Boards (SEB) into generation, transmission and distribution businesses.

The share of power generated by Central Sector Stations is transmitted to load centers in the UT of Dadra and Nagar Haveli through an extensive network of 400KV, 220KV, and 132KV, transmission lines and substations. The major functions of ED-DNH are:

1. Ensure reliable supply energy to DNHPDCL which in turn supplies power to the end consumers across the state
2. Development of transmission network to meet the growing needs of the DNHPDCL
3. Provide short term open access depending upon the margins in the existing facilities.

2 Tariffs Regulations

ED-DNH's tariffs are governed by JERC (Terms and Conditions for Determination of Tariff) Regulations, 2009. The regulations provide a framework for calculating tariffs on a cost-plus basis and allow the licensee to recover operational expenses including depreciation, interest on working capital and debt, and return on equity amongst others.

3 Contents of this Petition

The present Tariff Petition is being submitted in compliance with the provisions of JERC (Terms and Conditions for Determination of Tariff) Regulations, 2009. This Petition covers the basis, assumptions and projections of individual elements constituting the determination of Aggregate Revenue Requirement of the ED-DNH for the FY 2015-16.

Chapter 2: About the Electricity Department, Transmission Division

1 Existing Transmission System of Electricity Department, Transmission Division

Key assets of ED-DNH include the transmission lines and sub-stations. The total length of the transmission assets as on March 31, 2014 was 278.90 Circuit Kilo meters (Ckt Kms). The EHV lines in Ckt km existing at end of FY 2013-14 and their growth are shown in the table below:

Table 1: Status of Transmission Assets - Ckt kms

ASSETS	UNITS	FY 2013-14
EHT		
220 KV lines	Ckt kms	9.90

The details of existing substations of the ED-DNH are as given below:

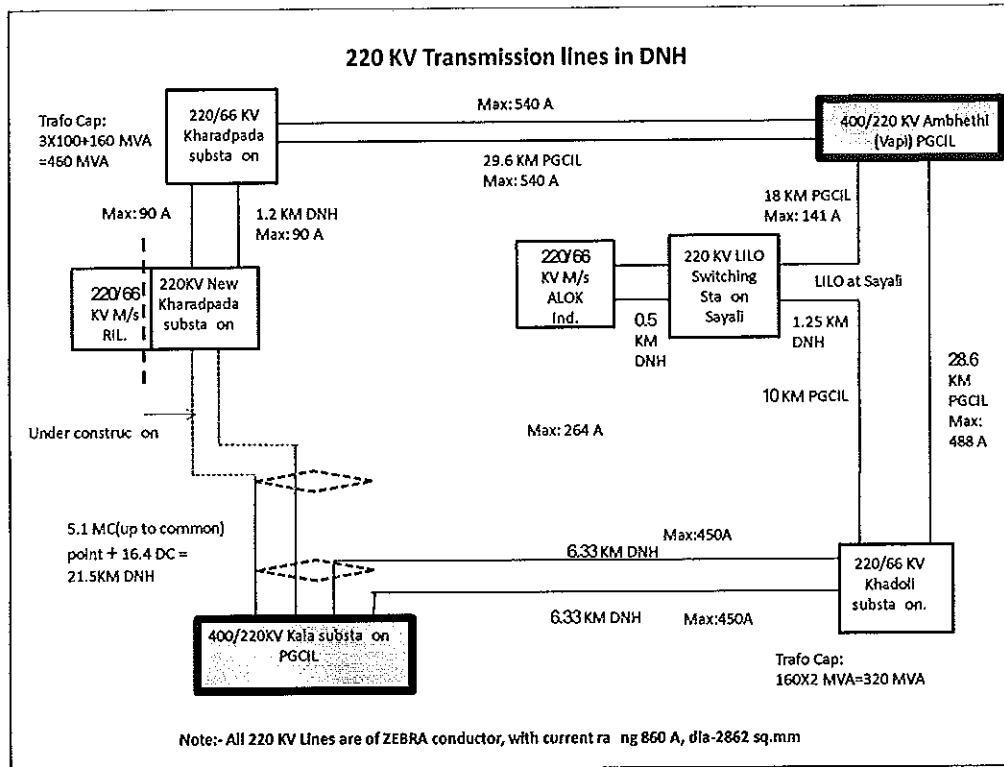
Table 2: Details of existing Substations

SR. NO.	SUB-STATION	CAPACITY	TOTAL
1	400 KV Ambheti-Vapi Sub-Station (CTU-PowerGrid)	3 x 315 MVA	945 MVA
2	400 KV Kala Sub-Station (CTU-Power Grid)	2 x 315 MVA	630 MVA
3	220 KV Kharadpada Sub-Station	3 x 100 + 1 x 160 MVA	460 MVA
4	220 KV Khadoli Sub-Station	2 x 160 MVA	320 MVA
5	220KV Switching Stations at Sayli and Kharadpada	02 Nos	
	TOTAL Capacity (220KV Level)		780 MVA

The present the transmission system of ED-DNH consists of 9.90 circuit km of 220 kV double circuit (D/C) lines.

At present, the UT of Dadra & Nagar Haveli gets power from 400/220 kV PGCIL Vapi and 400/220 kV Kala substation of PGCIL.

Figure 1: 220kV Transmission Lines in DNH



2 Loading Projections ED-DNH during FY 2015-16

The objective of this section is to project the availability of power to transmit through ED-DNH transmission system. Based on the energy availability and transmission through the ED-DNH system to DNHPDCL, transmission charges are to be arrived at.

2.1 Power & Energy availability from Central Sector Generation

Present and future power availability from Central sector against allocated quota during the FY 2015-16 are given below-

Table 3: CGS - Central Generation Capacity during FY 2015-16

Name of the plant	Weighted average Infirm allocation	Weighted Average Firm allocation	Weighted average total allocation
KSTPP	53.99	-	53.99
KSTPS -3	20.77	2.20	22.97
VSTPP-I	39.25	5.00	44.25
VSTPP-II	29.66	4.00	33.66
VSTPP- III	29.66	6.00	35.66
VSTPP- IV	41.52	5.55	47.07
KAWAS	56.24	25.00	81.24
GGPP	56.75	2.00	58.75
Sipat - I	82.24	9.00	91.24
Sipat - II	28.19	4.00	32.19
KHSTPP - II	3.50	3.50	3.50
Mauda I (MSTPS)	41.53	5.55	47.08
VSTPS-V	-	-	3.24
NPCIL - KAPS	10.80	2.00	12.80
NPCIL - TAPP 3&4	36.52	7.00	43.52
Total	530.61	80.80	611.15
NSPCL Bhilai		100.00	100.00
RGPPL		38.00	38.00
EMCO Energy Ltd. (GMR Group)		200.00	200.00

On the basis of above power availability , projection of energy availability from central sector plants during the FY 2015-16 has been worked out and given below:-

Table 4: CGS - Projected Capacity and Energy Availability

S. No.	Particulars	2015-16
1	Total Capacity in MW	949.15
2	Energy Availability in MU	5845.27

Chapter 3: Annual Revenue Requirement for FY 2015-16

Electricity Department, Transmission Division is submitting its ARR and Tariff petition for the determination of tariff for FY 15-16 broadly on the basis of the principles outlined in Tariff Regulations notified by JERC. Electricity Department, Transmission Division has considered the past trends and taken cognizance of other internal and external developments to estimate the likely performance for FY 15-16.

The following sections explain in detail the basis and forecasts of the following elements for FY 15-16:

- a. Determination of Aggregate Revenue Requirement (ARR) by forecasting the following costs, other income & returns:
 - i. Employee Cost
 - ii. Repairs & Maintenance Cost
 - iii. Admin & General Cost
 - iv. Capital Investment Plan
 - v. Interest Cost
 - vi. Interest on Working Capital
 - vii. Depreciation
 - viii. Return on Equity
 - ix. Non-Tariff Income

- b. Tariff proposal for FY 15-16 to meet the Aggregate Revenue Requirement.

1 Operation & Maintenance Costs

Operation and Maintenance expenses comprise of the following heads:

- **Employees Expenses** which includes the salaries, dearness allowances, dearness pay, other allowances and retirement benefits paid to the staff;

- **Repair and Maintenance (R&M) Expenses**, which include all expenditure incurred on the maintenance and upkeep of transmission and distribution assets; and
- **Administrative and General Expenses**, which include all expenditure incurred in operating a business such as telephone charges, regulatory and consultancy fees such as energy auditing and chartered accountant fees, conveyance and travel expenses, water charges etc.

The total O&M expense for FY 13-14 was Rs. 2.41. The methodology adopted by Electricity Department, Transmission Division for projecting the values of each component of the O&M expense for FY 15-16 has been explained in following section.

1.1 Employee Expense

The Employee expense estimated by the Petitioner comprise of all costs related to employees like basic salary, dearness allowances, medical cost, leave travel allowances, honorarium, etc. But the Petitioner does not maintain cost related to leave salary contribution and pension of the employee in the employee cost. Therefore, the Petitioner will claim these expenses relating to the employee cost at an appropriate time when the respective cost items become payable.

Electricity Department, Transmission Division has considered the actual six monthly employee expenses for FY 14-15 for forecasting the employee expenses for FY 14-15 and the FY 15-16.

Based on the various expense head related to employee booked during six months of FY 14-15, Electricity Department, Transmission Division has estimated the total employee cost for full year of FY 14-15. Employee expenses for FY 15-16 is estimated based on the variation in the rate of WPI Index per annum published by the Office of Economic Adviser, Government of India.

For projecting the employee cost for FY 15-16, the Petitioner has considered an 7.43% escalation over the estimated employee cost for FY 14-15. The employee cost for FY 15-16 is summarized in table below:

Table 5: Projected Employee Expense for FY 15-16 (Rs. Crore)

Particular	FY 13-14 Actual	FY 14-15 Revised Estimate	FY 15-16 Projected
Employee Expenses	1.04	1.20	1.29

Electricity Department, Transmission Division would like to pray to the Hon'ble Commission that salaries/employee cost increase should be considered as uncontrollable factor specially factors like DA/Basic hike through Government. Therefore, Electricity Department, Transmission Division requests the Hon'ble Commission to approve the employee costs as projected in the foregoing table by the Petitioner.

1.2 Repairs & Maintenance Expense

Repairs and maintenance expense comprise of expenses incurred by the Petitioner with regard to maintenance and upkeep of the transmission and distribution system. Adequate R&M activities help in reduction of transmission and distribution losses and breakdowns in the system.

The actual R&M expense for FY 13-14 for Electricity Department, Transmission Division was Rs. 1.20 Crore. The revised estimate of R&M expense for FY 14-15 has been estimated at Rs. 1.84 Crore.

Based on WPI index, the R&M expense for FY15-16 has been estimated at Rs. 1.97 Crore.

The R&M cost for FY 14-15 is summarized in the Table below:

Table 6: Projected Repairs & Maintenance Expense for FY 15-16 (Rs. Crore)

Particular	FY 13-14	FY 14-15	FY 15-16
	Actual	Revised Estimate	Projected
R&M Expenses	1.20	1.84	1.97

Electricity Department, Transmission Division requests the Commission to approve the R&M expense without any disallowances as the same is necessary for proper maintenance and strengthening of the system and quality of supply in the region in order to ensure consumer satisfaction.

1.3 Administration & General Expense

Administrative and General (A&G) expense comprise of various sub-heads including the following:

- Telephone, postage & telegrams charges;
- Travel and conveyance expenses;
- Consultancy and regulatory fees; and
- Consumer indexing fee

The actual A&G expense for FY 13-14 was Rs. 0.16 Crore. Further, Electricity Department, Transmission Division has estimated the A&G expense of Rs. 0.17 Crore for FY 14-15.

For FY 15-16 the A&G expenses has been projected at Rs. 0.19 Crore in consideration of the above expenses.

The A&G cost for FY 15-16 is summarized in the Table below:

Table 7: Projected A&G Expenses for FY 15-16 (Rs. Crore)

Particular	FY 13-14	FY 14-15	FY 15-16
	Actual	Revised Estimate	Projected
A&G Expenses	0.16	0.17	0.19

Electricity Department, Transmission Division, therefore, requests the Hon'ble Commission to approve the A&G expenses projected for the FY 2015-16.

1.4 Total Operation and Maintenance Expense

Based on the employee, R&M and A&G expenses projected above, the total O&M expenditure for FY 15-16 is summarized in table below. The Hon'ble Commission is requested to approve the total O&M expense as projected by Electricity Department, Transmission Division.

Table 8: Total O&M Expense for FY 15-16 (Rs. Crore)

Particular	FY 13-14	FY 14-15	FY 15-16
	Actual	Revised Estimate	Projected
Employee Expenses	1.04	1.20	1.29
R&M Expenses	1.20	1.84	1.97
A&G Expenses	0.16	0.17	0.19
Total O&M Expenses	2.41	3.21	3.44

2 Capital Expenditure Plan

ED-DNH has undertaken the capital expenditure for the following purpose:

- I. Laying of new transmission lines
- II. Strengthening of the existing transmission network to cope up with the growing demand and connectivity to the new areas under development.

Further, considering the increasing demand from HT & LT consumers, ED-DNH would be required to undertake significant capital expenditure for system augmentation and strengthening. System augmentation would not only help ED-DNH in handling increased load but would also ensure better quality of supply and network reliability to the consumers.

ED-DNH each year drafts an Annual Plan for the capital investment for new schemes and continuing schemes which it plans to incur in the ensuing year. The details of the same has been given below:

A. Ongoing Schemes

The ongoing schemes have been given in the table below:

Table 9: Ongoing Schemes

Sr.No.	Name of Scheme	Total Estimated amount (Lakh)	Proposed Expenditure in Lakh.	
			2014-15	2015-16
1	Interconnectivity 220KV Transmission line from 400/220 KV Kala substation to 220/66KV Khadoli substation.	3296.00	900.00	2056.00
2	Interconnectivity 220KV Transmission line from proposed 400/220 KV Kala substation to 220/66KV Kharadpada substation.	3973.00	1500.00	2175.00
3	Augmentation of 220/66kV Khadoli Sub-station from 2x160 MVA to 3x160 MVA capacities.	1446.00	798.00	0.00
4	Augmentation of 220/66kV Kharadpada Sub-station from 4x100 MVA to 2x100+2x160 MVA capacities.	1900.00	1900.00	0.00
Total		10615.00	5098.00	4231.00

B. New Schemes

The new schemes have been given in the table below:

Table 10: New Schemes

Sr.No.	Name of Scheme	Total Estimated amount (Lakh)	Proposed Expenditure in Lakh.
			2015-16
1	Establishment of 220/66 KV, 2x160 MVA Sub-Station at Waghchipa with associated transmission line.	6754.00	675.00

Sr.No.	Name of Scheme	Total Estimated amount (Lakh)	Proposed Expenditure in Lakh. 2015-16
2	Establishment of 220/66 KV, 2x100 MVA Sub-Station at Sayali with associated 66 KV transmission line.	4409.00	150.00
	Total	11163.00	825.00

The total capital expenditure estimated for the FY 204-15 is Rs. 50.98 Crore and the total capital expenditure proposed for the FY 2015-16 Rs. 50.56 Crore. The ED-DNH incurred Rs. 11.06 Crore towards capital expenditure during the FY 2013-14 out of which Rs. 1.61 Crore was capitalized during the year. The capitalization of new schemes has been considered at 40% of the planned capital expenditure in the same year while the balance 60% has been capitalized in subsequent year. A summary of the capital expenditure and capitalization for FY 15-16 is summarized in Table below:

Table 11: Capital Expenditure & Capitalization for FY 14-15 (Rs. Crore)

Capital Expenditure & Capitalization (Rs. Crore)	FY 13-14	FY 14-15	FY 15-16
	Actual	Revised Estimate	Projected
Capital Expenditure	11.09	50.98	50.56
Asset Capitalization	1.61	26.08	40.85
Capital Work in Progress (closing)	9.48	34.38	44.09

3 Gross Fixed Assets

The Opening Gross Fixed Assets (GFA) for FY 13-14 was Rs. 119.65 Crore and the asset addition during the FY 2013-14 was Rs. 1.61 Crore. Thus the closing GFA of FY 2013-14 was Rs. 121.26 Crore. ED-DNH has further proposed an addition of Rs. 26.08 Crore during FY 14-15 and Rs. 40.85 during FY 2015-16.

A summary of the Opening and Closing GFA and capitalization has been summarized in table below:

Table 12: Opening and Closing GFA in FY 15-16 (in Rs. Crore)

Particulars	Opening GFA	Additions during the Year	Closing GFA
FY 2013-14 (Actual)	119.65	1.61	121.26
FY 2014-15 (Revised Estimate)	121.26	26.08	147.34
FY 2015-16 (Projected)	147.34	40.85	188.19

4 Depreciation

Depreciation is charged on the basis of straight-line method, on the Gross Fixed Assets in use at the beginning of the year and addition in assets during the financial year. The depreciation is based on the original cost of the Gross Fixed Assets.

Depreciation for the for FY 15-16 is determined by applying category-wise assets depreciation rates notified in the Central Electricity Regulatory Commission (Terms & Conditions of Tariff) Regulations, 2014 on the opening balance of Gross Fixed assets and average of the addition during the year projected for FY 15-16. The Table below summarizes the asset-wise depreciation considered computed by ED-DNH:

Table 13: Depreciation (in Rs. Crore)

Particulars	FY 13-14	FY 14-15	FY 15-16
Rs. Crore	Actual	Revised Estimate	Projected
Opening GFA	119.65	121.26	147.34
Additions	1.61	26.08	40.85
Closing GFA	121.26	147.34	188.19
Average GFA	120.45	134.30	167.77
Depreciation Amount	6.27	6.77	8.54
Average Depreciation Rate	5.17%	4.59%	4.54%

5 Interest & Financial Costs

5.1 Interest on Long-term / Capital Loans

Assets capitalized during FY 15-16 have been considered based on normative debt-equity ratio of 70:30 as per the JERC (Terms and Conditions for Determination of Tariff) Regulations, 2009. As per the regulations, "For the purpose of determination of tariff, debt-equity ratio in case of existing, ongoing as well as new projects commencing after the date of notification of these Regulations shall be 70:30."

Hence, the ED-DNH has considered normative debt on the assets created after FY 2012-13. The Interest rate of 14.45% has been considered for computation of interest cost for long-term loans which is similar to the prevailing SBI Prime Lending Rate. Details of the loan amounts and interest cost computed for FY 15-16 is summarized in Table below:

Table 14: Total Interest on Long-term Loans

Interest on Long-term Loans Rs Crore	FY 13-14 Actual	FY 14-15 Revised Estimate	FY 15-16 Projected
Opening Loan	0.00	1.07	18.36
Addition in Loan (70% of Asset Capitalization)	1.13	18.26	28.60
Repayment of Loan (10% of Opening Balance)	0.06	0.97	2.35
Closing Loan Amount	1.07	18.36	44.61
Average Loan	0.54	9.72	31.48
Interest Rate on Loan	14.45%	14.45%	14.45%
Total Interest Cost on Long-term Loans	0.08	1.40	4.55

Therefore, ED-DNH requests the Hon'ble Commission to approve the interest cost on long-term loans as projected above.

5.2 Interest on Working Capital Borrowings

ED-DNH has computed the Interest on Working Capital for FY 15-16 based on normative basis as per the JERC (Terms and Conditions for Determination of Tariff) Regulations, 2009.

The working capital requirement for FY 15-16 has been computed considering the following parameters:

- a. Receivables equivalent to two months of fixed cost;
- b. Maintenance spares @ 15% of operation and maintenance expenses; and
- c. Operation and maintenance expenses for one month.

A rate of interest of 14.45% has been considered for FY 15-16 on the working capital requirement, being the SBI Prime Lending Rate.

The normative interest on working capital for FY 15-16 considering the above methodology is summarized in the Table below:

Table 15: Interest on Working Capital for FY 15-16

Interest on Working Capital	FY 13-14	FY 14-15	FY 15-16
Rs Crore	Actual	Revised Estimate	Projected
Receivables equivalent to two months of fixed cost	1.51	2.07	3.22
Maintenance spares @15% of operation and maintenance expenses	0.36	0.48	0.52
Operation and maintenance expenses for one month	0.20	0.27	0.29
Total Working Capital requirement	2.07	2.82	4.02
Rate of Interest on Working Capital	14.45%	14.45%	14.45%
Total Interest on Working Capital	0.30	0.41	0.58

Therefore, ED-DNH requests the Hon'ble Commission to approve the interest cost on working capital as projected above.

6 Return on Equity

As per the JERC (Terms and Conditions for Determination of Tariff) Regulations, 2009, ED-DNH is entitled for a Return on Equity (RoE). However, the Rate of return has not been specified in the Regulations issued by JERC.

As per the Central Electricity Regulatory Commission (Terms & Conditions of Tariff) Regulations, 2014, Generation and Transmission utilities are entitled for a pre-tax Return on Equity of 15.50% with an additional return of 0.50% for projects completing before a specified timeline.

Assets capitalized during FY 15-16 have been considered based on normative debt-equity ratio of 70:30 as per the JERC (Terms and Conditions for Determination of Tariff) Regulations, 2009. As per the regulations, "For the purpose of determination of tariff, debt-equity ratio in case of existing, ongoing as well as new projects commencing after the date of notification of these Regulations shall be 70:30."

Hence, the ED-DNH has considered normative equity on the assets created after FY 2012-13. ED-DNH has claimed RoE of 15.50% for FY 15-16 in this Petition.

The details of the same have been given in the Table below:

Table 16: Return on Equity for FY 15-16

Return Rs Crore	FY 13-14 Actual	FY 14-15 Revised Estimate	FY 15-16 Projected
Opening Equity	0.00	0.48	8.31
Addition in Equity	0.48	7.82	12.26
Closing Equity Amount	0.48	8.31	20.56
Average Equity Amount	0.24	4.40	14.43
Rate of Return on Equity	15.50%	15.50%	15.50%
Return on Equity	0.04	0.68	2.24

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7 Non-Tariff & Other Income

The ED-DNH is doing the O&M work of the 220 kV bays of PGCIL. The revenue earned by the ED-DNH for doing the O&M work has been included in the non tariff income.

The actual non tariff income earned by the ED-DNH for the FY 2013-14 was Rs. 0.03 Crore. For estimating the non-tariff income for FY 15-16, an increase of 5% p.a. has been considered over the estimated non-tariff income of FY 14-15 (revised estimate).

Details of the year wise non-tariff income is provided in the Table below:

Table 17: Non-tariff Income for FY 15-16

Particulars	FY 13-14	FY 14-15	FY 15-16
Rs Crore	Actual	Revised Estimate	Projected
Non-tariff Income	0.03	0.03	0.04

8 Aggregate Revenue Requirement

The following Table summarizes ED-DNH's Aggregate Revenue Requirement for FY 15-16.

Aggregate Revenue Requirement for FY 15-16 is estimated to be Rs 19.31 Crore.

Table 18: Aggregate Revenue Requirement for FY 15-16

Annual Revenue Requirement	FY 13-14	FY 14-15	FY 15-16
	Actual	Revised Estimate	Projected
O&M Expense	2.41	3.21	3.44
Depreciation	6.27	6.77	8.54
Interest Cost on Long-term Capital Loans	0.08	1.40	4.55

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Annual Revenue Requirement	FY 13-14	FY 14-15	FY 15-16
	Actual	Revised Estimate	Projected
Interest on Working Capital Loans	0.30	0.41	0.58
Return on Equity	0.04	0.68	2.24
Gross Annual Revenue Requirement	9.09	12.47	19.35
Less:			
Non-Tariff Income	0.03	0.03	0.04
Net Annual Revenue Requirement	9.06	12.43	19.31

Aggregate Revenue Requirement (ARR) is the amount required by ED-DNH to discharge its functions efficiently. It also allows the utility to earn a reasonable amount of return. It consists of a number of cost elements as elaborated in the table below. The justification for each of these expenses has duly been elaborated in the relevant chapters of this report.

ED-DNH proposes to meet with the revenue requirements through the following modes of recoveries;

- Appropriate transmission cost to be recovered through Transmission Charges from Long Term Open Access consumers in terms of charges per unit or monthly fixed charges.
- Usage based charges for short term open access consumers

Chapter 4: Tariff Determination

ED-DNH considers power tariff as a sensitive subject having substantial impact on social, economic and financial well being of the State as well as the viability and growth of power sector. The transmission tariff has been determined based upon the energy transmitted through the system, aggregate revenue requirement.

1 Determination of the transmission capacity of the system

The transmission system capacity is the contracted capacity made available to the beneficiary during the given period. For FY 2015-16 additional capacity of 2280 MW has been considered as system augmentation is going on and the capacity of the existing 220/66 kV substations at Kharadpada and Khadoli will get augmented by March 2015. The present capacity of Kharadpada substation is 400 MW and by March 2015 it will be augmented to 480 MW. Similarly the present capacity of Khadoli substation is 320 MW and by March 2015 it will be augmented to 520 MW. The contracted transmission capacity of the system is as under:

Table 19: Transmission Capacity of the Transmission system

Tariff Determination	FY 2014-15	FY 2015-16
Transmission Capacity (MW)	935	1215

2 Tariff Determination

Based upon the projected capacity of the transmission capacity, the tariff in terms of Rs per MW per Month is determined as follows:

Table 20: Determination of Transmission Tariff (Rs. /MW/Month)

Tariff Determination	FY 2014-15	FY 2015-16
Aggregate revenue requirement (Rs. cr.)	12.43	19.31

Tariff Determination	FY 2014-15	FY 2015-16
Transmission Capacity (MW)	935	1215
Transmission charges (Rs./MW/Month)	11,080.71	13,245.09

The tariff in terms of Rs. per unit has been computed by considering the energy estimated to be received by the DNHPDCL during the FY 2015-16 from various generating stations. The computation of the same has been given in the table below:

Table 21: Determination of Transmission Tariff (Rs./unit)

Tariff Determination	FY 2014-15	FY 2015-16
Aggregate revenue requirement (Rs. cr.)	12.43	19.31
Energy required at periphery (MUs)	5434.45	5802.14
Transmission charges (Rs./unit)	0.02	0.03

Prayer

1. ED-DNH requests the Honorable Commission to:
 - Admit and approve the Aggregate Revenue Requirement of FY 15-16 as submitted herewith.
 - Make the proposed Transmission Tariffs applicable from April 1, 2015.
 - Condone any inadvertent omissions/ errors/ shortcomings and permit the Petitioner to add/ change/ modify/ alter this filing and make further submissions as may be required at a future date.
 - Submit necessary additional information required by the Commission during the processing of this petition.
 - And pass such other and further orders as are deemed fit and proper in the facts and circumstances of the case.

BY THE APPLICANT THROUGH



PETITIONER
Electricity Department, Transmission Division
UT of Dadra and Nagar Haveli

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Dated:

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Electricity Department of Dadra & Nagar Haveli
ANNUAL REVENUE REQUIREMENT FOR THE YEAR FY 15-16
Capital Base and Return

(all figures in Crore)

Sr.No.	Category of Consumer	Energy Sale (MUs)		
		Current year FY 13-14 (Actual)	Ensuing year FY 14-15 (RE)	Ensuing Year FY 15-16 (Projections)
1	2	3	4	5
1	Gross block at beginning of the year	119.65	121.26	147.34
2	Less accumulated depreciation	6.27	6.77	8.54
3	Net block at beginning of the year	113.38	114.49	138.80
4	Less accumulated consumer contribution	0.00	0.00	0.00
5	Net fixed assets at beginning of the year	113.38	114.49	138.80
6	Reasonable return @3% of NFA	3.40	3.43	4.16

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Electricity Department of Dadra & Nagar Haveli
ANNUAL REVENUE REQUIREMENT FOR THE YEAR FY 14-15
Original Cost of Fixed Assets

		(Rs. Crores)						
Sr.No.	Particulars Name of the Assets	Value of assets at the beginning of previous year	Addition during FY2013-14	Closing balance at the end of FY2013-14	Addition during the FY2014-15	Closing balance at the end of FY 2014-15	Addition during FY 2015-16	Closing balance at the end of FY 2015-16
1	2	3	4	5	6	7	8	9
1	Plant & Machinery	112.02	1.61	113.63	26.08	139.71	40.85	180.57
2	Buildings	2.42	0.00	2.42	0.00	2.42	0.00	2.42
3	Vehicles	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Furniture & Fixtures	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	Computers & Others	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	Land	5.21	0.00	5.21	0.00	5.21	0.00	5.21
7	Total	119.65	1.61	121.26	26.08	147.34	40.85	188.19

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Electricity Department of Dadra & Nagar Haveli
ANNUAL REVENUE REQUIREMENT FOR THE YEAR FY 15-16
Works-in-Progress

(Rs. in crores)

Sr.No.	Particulars	Current year FY 13-14 (Actual)	Ensuing year FY 14-15 (RE)	Ensuing Year FY 15-16 (Projections)
1	2	3.	4	5
1	Opening balance	0.00	9.48	34.38
2	Add: New investments	11.09	50.98	50.56
3	Total	11.09	60.46	84.94
4	Less investment capitalized	1.61	26.08	40.85
5	Closing balance	9.48	34.38	44.09

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Electricity Department of Dadra & Nagar Haveli
ANNUAL REVENUE REQUIREMENT FOR THE YEAR FY 15-16
Interest Capitalized

(Rs. in crores)

Sr.No.	Particulars	Current year FY 13-14 (Actual)	Ensuing year FY 14-15 (RE)	Ensuing Year FY 15-16 (Projections)
1	2	3	4	5
1	WIP*	NA		
2	GFA* at the end of the year			
3	WIP+GFA at the end of the year			
4	Interest(excluding interest on WCL*)			
5	Interest Capitalized			

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Electricity Department of Dadra & Nagar Haveli
ANNUAL REVENUE REQUIREMENT FOR THE YEAR FY 15-16
Details of loans for the year

Sr.No.	Particulars (Source)	Opening Balance	Rate of Interest	Addition during the year	Repayment during the year	Amount of interest paid		
						Closing Balance	Current year	Ensuing year
1	SLR Bonds							
2	Non SLR Bonds							
3	LIC							
4	REC							
5	Commercial Banks							
6	Bills discounting							
7	Lease rental							
8	PFC							
9	GPF							
10	CSS							
11	Working capital loan							
12	Others							
13	Total							
	Add Govt. loan							
	-State Govt.							
	-Central Govt.							
14	Total							
15	Total (13+14)							
16	Less capitalization							
17	Net interest							
18	Add prior period							
19	Total interest							
20	Finance charges							
21	Total interest and finance charges							

N/A

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Electricity Department of Dadra & Nagar Haveli
ANNUAL REVENUE REQUIREMENT FOR THE YEAR FY 15-16
Information regarding restructuring of outstanding loans during the year

(Rs. Crores)

Sr.No.	Source of Loan	Amount of original loan (Rs. in crores)	Old rate of interest	Amount already restructured (Rs. in crores)	Revised rate of interest	Amount now being restructured (Rs. in crores)	New rate of interest
1	2	3	6	7	8	9	10

N/A

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Electricity Department of Dadra & Nagar Haveli
ANNUAL REVENUE REQUIREMENT FOR THE YEAR FY 15-16
Value of Assets and Depreciation Charges

(Rs. Crore)

Sr.No.	Particulars Name of the Assets	Rate of depreciation on*	Previous Year		Current Year		Ensuing Year	
			Assets value at the FY2013-14	Depreciation charges	Assets value at the FY2014-15	Depreciation charges	Assets value at the FY2015-16	Depreciation charges
1	Plant & Machinery	5.28%	112.02	5.96	113.63	6.69	139.71	8.46
2	Buildings	3.34%	2.42	0.23	2.42	0.08	2.42	0.08
3	Vehicles	9.50%	0.00	0.00	0.00	0.00	0.00	0.00
4	Furniture & Fixtures	6.33%	0.00	0.01	0.00	0.00	0.00	0.00
5	Computers & Others	6.33%	0.00	0.07	0.00	0.00	0.00	0.00
6	Land	0.00%	5.21	0.00	5.21	0.00	5.21	0.00
7	Total		119.65	6.27	121.26	6.77	147.34	8.54

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Electricity Department of Dadra & Nagar Haveli
ANNUAL REVENUE REQUIREMENT FOR THE YEAR FY 15-16
 Calculation of Advance Against Depreciation

(Rs. in crores)

Sr.No.	Particulars	Current year FY 13-14 (Actual)	Ensuing year FY 14-15 (RE)	Ensuing Year FY 15-16 (Projections)
1	2	3	4	5
1	1/10th of the Loan(s)			
2	Repayment of the Loan(s) as considered for working out Interest on Loan		NA	
3	Minimum of the Above			
4	Less: Depreciation during the year			
	A			
5	Cumulative Repayment of the Loan(s) as considered for working out Interest on Loan			
6	Less: Cumulative Depreciation			
	B			
7	Advance Against Depreciation (minimum of A or B)			

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Electricity Department of Dadra & Nagar Haveli
ANNUAL REVENUE REQUIREMENT FOR THE YEAR FY 15-16
Repair and Maintenance Expenses

(Rs. in crores)

Sr.No.	Particulars	Current year FY 13-14 (Actual)	Ensuing year FY 14-15 (RE)	Ensuing Year FY 15-16 (Projections)
1	2	3	4	5
1	Plant & machinery			
	-Plant & Apparatus			
	-EHV substations			
	- 33kV substation			
	- 11kV substation			
	- Switchgear and cable connections			
	- Others			
	Total			
2	Building			
3	Hydraulic works & civil works			
4	Line cable & network			
	-EHV Lines			
	- 33kV lines			
	- 11kV lines			
	- LT Lines			
	- Meters and metering equipment			
	- Others			
	Total			
5	Vehicles			
6	Furniture & fixtures			
7	Office equipments			
8	Operating expenses			
9	Total			
10	Add/Deduct share of others (To be specified)			
11	Total expenses			
12	Less capitalized			
13	Net expenses			
14	Add prior period *			
15	Total expenses charged to revenue as R&M expenses	1.20	1.84	1.97

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Electricity Department of Dadra & Nagar Haveli
ANNUAL REVENUE REQUIREMENT FOR THE YEAR FY 15-16
Total Number of Employees

(Rs. in crores)

Sr.No.	Particulars	Current year FY 13-14 (Actual)	Ensuing year FY 14-15 (RE)	Ensuing Year FY 15-16 (Projections)
1	2	3	4	5
1	Number of employees as on 1st April	29	29	29
2	Employees on deputation/ foreign service as on 1st April	0	0	0
3	Total number of employees (1+2)	29	29	29
4	Number of employees retired/retiring during the year	0	0	0
5	Number of employees added	0	0	0
6	Number of employees at the end of the year (4-5)	29	29	29

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Electricity Department of Dadra & Nagar Haveli
ANNUAL REVENUE REQUIREMENT FOR THE YEAR FY 15-16
Employee Cost

(Rs. in crores)

Sr.No.	Particulars	Current year FY 13-14 (Actual)	Ensuing year FY 14-15 (RE)	Ensuing Year FY 15-16 (Projections)
		Total		Total
1	2	3	4	5
1	Basic Pay	0.539	0.618	0.664
2	Bonus	0.006	0.007	0.008
3	Children Education Allowances	0.008	0.009	0.010
4	Dearness Allowances	0.329	0.377	0.405
5	Grade Pay	0.094	0.107	0.115
6	HELPER ALLOWANCE	0.000	0.000	0.000
7	House Rent Allowances	0.020	0.023	0.024
8	Leave Encashment	0.010	0.011	0.012
9	Medical Expenses	0.001	0.001	0.001
10	Retirement Benefits	0.006	0.007	0.007
11	Transport Allowance	0.030	0.034	0.036
12	Travelling Exp (Employees)	0.002	0.003	0.003
13	Tution Fees	0.000	0.000	0.000
14	Washing Allowances	0.000	0.000	0.000
15	Total	1.04	1.20	1.29

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Electricity Department of Dadra & Nagar Haveli
ANNUAL REVENUE REQUIREMENT FOR THE YEAR FY 15-16
Administration and General Expenses

(Rs. in crores)

Sr.No.	Particulars	Current year FY 13-14 (Actual)	Ensuing year FY 14-15 (RE)	Ensuing Year FY 15-16 (Projections)
1	2	3	4	5
1	Advertisement Expenses	0.01	0.01	0.01
2	Annual License fee	0.06	0.06	0.06
3	Books & Periodicals	0.00	0.00	0.00
4	BSNL Lease Lines	0.01	0.01	0.01
5	Car Hire Charges	0.01	0.01	0.01
6	Collection & Meter Reading Expenses	0.00	0.00	0.00
7	Digital Signature & Online Tendering Expenses	0.00	0.00	0.00
8	Inspection Expenses	0.00	0.00	0.00
9	Lighting Decoration	0.00	0.00	0.00
10	Membership Fees	0.00	0.00	0.00
11	Miscellaneous Expenses	0.00	0.00	0.00
12	News Paper Expenses	0.00	0.00	0.00
13	Postage Expenses	0.00	0.00	0.00
14	Professional Charges	0.06	0.06	0.06
15	Stationery & Printing	0.01	0.01	0.01
16	Telephone Expenses	0.00	0.00	0.00
17	Tonner Refilling & Repair	0.00	0.00	0.00
18	Transporation & Loading	0.00	0.00	0.00
19	Wearing Apparells	0.00	0.00	0.00
20	Xerox Charges	0.00	0.00	0.00
21	Grand Total	0.16	0.17	0.19

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Electricity Department of Dadra & Nagar Haveli
ANNUAL REVENUE REQUIREMENT FOR THE YEAR FY 15-16
Information regarding Bad and Doubtful Debts

Sr.No.	Particulars	Current year FY 13-14 (Actual)	Ensuing year FY 14-16 (RE)	Ensuing Year FY 15- 16 (Projections)
1	2		3	4
1	Provision made for debts in ARR	0.00	0.00	0.00

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Electricity Department of Dadra & Nagar Haveli
ANNUAL REVENUE REQUIREMENT FOR THE YEAR FY 15-16
 Information regarding Working Capital for the current and ensuing year

Sr.No.	Particulars	Amount (in Crores Rs.)		
		Current year FY 13-14 (Actual)	Ensuing year FY 14-15 (RE)	Ensuing Year FY 15-16 (Projections)
1	2		3	4
1	Receivables equivalent to two months of fixed cost	1.51	2.07	3.22
2	Maintenance spares @15% of operation and maintenance expenses	0.36	0.48	0.52
3	Operation and maintenance expenses for one month	0.20	0.27	0.29
4	Total working Capital requirement	2.07	2.82	4.02

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Electricity Department of Dadra & Nagar Haveli
ANNUAL REVENUE REQUIREMENT FOR THE YEAR FY 15-16
Information regarding Foreign Exchange Rate Variation (FERV)

(Rs. in crores)

Sr.No.	Particulars	Current year FY 13-14 (Actual)	Ensuing year FY 14-15 (RE)	Ensuing Year FY 15-16 (Projections)
1	2	3	4	5
1	Amount of liability provided			
2	Amount recovered		N/A	
3	Amount adjusted			

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Electricity Department of Dadra & Nagar Haveli
ANNUAL REVENUE REQUIREMENT FOR THE YEAR FY 15-16
Non Tariff Income

(Rs. in crores)

Sr.No.	Particulars	Current year FY 13-14 (Actual)	Ensuing year FY 14-15 (RE)	Ensuing Year FY 15-16 (Projections)
1	2	3	4	5
1	House Rent Recovery	0.00	0.00	0.00
2	Interest Income	0.00	0.00	0.00
3	Discount received	0.00	0.00	0.00
4	Tender Fees	0.00	0.00	0.00
5	O&M of PGCIL assets	0.03	0.03	0.04
6	Total non tariff income	0.03	0.03	0.04

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Electricity Department of Dadra & Nagar Haveli
ANNUAL REVENUE REQUIREMENT FOR THE YEAR FY 15-16
Information regarding Revenue from Other Business

(Rs. in crores)

Sr.No.	Particulars	Current year FY 13-14 (Actual)	Ensuing year FY 14-15 (RE)	Ensuing Year FY 15-16 (Projections)
1	2	3	4	5
1	Total revenue from other business			
2	Income from other business to be considered for licensed business as per regulations		<i>Not Applicable</i>	

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Electricity Department of Dadra & Nagar Haveli
ANNUAL REVENUE REQUIREMENT FOR THE YEAR FY 15-16
Lease Details

Sr.No.	Name of Lesser	Gross Assets (Rs.in crores)	Lease entered on	Lease Rentals	Primary period ended/ ending by	Secondary period ending by
1	2	3	4	5	6	7
Not Applicable						

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Electricity Department of Dadra & Nagar Haveli
ANNUAL REVENUE REQUIREMENT FOR THE YEAR FY 15-16
Information regarding amount of equity and loan

(Rs. in crores)

Sr.No.	Period	Amount of equity (Rs. In crore)	Amount of loan (Rs. In crore)	Ratio of equity & loan
1	2	3	4	5
1	As on March 31 of FY 2014 (Actual)	0.00	0.00	0.0
2	As on March 31 of FY 2015 (RE)	0.48	1.07	0.5
3	As on March 31 of FY 2016 (Proj)	8.31	18.36	0.5

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Electricity Department of Dadra & Nagar Haveli
ANNUAL REVENUE REQUIREMENT FOR THE YEAR FY 15-16
Cash flow statement for the ensuing year (projections)

(Rs. in crores)

Sr.No.	Month	Sources of receipt	Amount	Particulars of payment	Amount
1	2	3	4	5	6
1	Apr				
2	May				
3	Jun				
4	Jul				
5	Aug				
6	Sep				
7	Oct				
8	Nov				
9	Dec				
10	Jan				
11	Feb				
12	Mar				
13	Total				

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Electricity Department of Dadra & Nagar Haveli
ANNUAL REVENUE REQUIREMENT FOR THE YEAR FY 2015-16

(Rs. In crores)

Sr.No.	Particular	Current year FY 13-14 (Actual)	Ensuing year FY 14-15 (RE)	Ensuing Year FY 15-16 (Projections)
1	2	3	4	
1	Cost of fuel	0.00	0.00	0.00
2	Cost of power purchase	0.00	0.00	0.00
3	Employee costs	1.04	1.20	1.29
4	R&M expenses	1.20	1.84	1.97
5	Administration and General expenses	0.16	0.17	0.19
6	Depreciation	6.27	6.77	8.54
7	Interest charges	0.08	1.40	4.55
8	Interest on Working Capital Loans	0.30	0.41	0.58
9	Return on NFA / Equity	0.04	0.68	2.24
9	Total revenue requirement	9.09	12.47	19.35
10	Less: non tariff income	0.03	0.03	0.04
11	Net revenue requirement (10-11)	9.06	12.43	19.31

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