



## **TARIFF ORDER**

Determination of Transmission Tariff for FY 2017-18

**Petition No. 223/2017**

For

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

19<sup>th</sup> April 2017

संयुक्त विद्युत विनियामक आयोग (गोवा राज्य और संघ शासित प्रदेशों के लिए)

**JOINT ELECTRICITY REGULATORY COMMISSION**

For the State of Goa and Union Territories,

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

**QUORUM**

Sh. M. K. Goel (Chairperson)  
Smt. Neerja Mathur (Member)

**Petition No. 223/2017**

In the matter of

**Approval of Aggregate Revenue Requirements (ARR) and Determination of Transmission Tariff for the FY 2017-18.**

And in the matter of

Electricity Department, UT of Dadra and Nagar Haveli (Transmission Division).....**Petitioner**

**ORDER**

**Dated: 19<sup>th</sup> April 2017**

- a. This Order is passed in respect of the Petition filed by the Electricity Department, UT of Dadra and Nagar Haveli (Transmission Division) for approval of Aggregate Revenue Requirements (ARR) and Determination of Transmission Tariff for the FY 2017-18.
- b. After receiving the Petition, the Commission scrutinised its contents and requisitioned further information/clarifications on the data gaps observed in the Petition to take a prudent view of the Petition. The Commission also held a Technical Validation Session to determine its sufficiency. Further, comments/objections/suggestions were invited from the public/stakeholders. A Public hearing was held and the stakeholders/Public were heard. The schedule of activities performed in the course of this quasi-judicial process is given below:

<b>Particulars</b>	<b>Details</b>
Date of Admission	27 <sup>th</sup> December 2016
Technical Validation Session	10 <sup>th</sup> March 2017
Public Hearing	08 <sup>th</sup> February 2017

- c. The approved Transmission Tariff for the FY 2017-18, as detailed in the Chapter "Transmission Tariff for the FY 2017-18" shall come in force from 1<sup>st</sup> April 2017 and shall remain valid till further Orders of the Commission.

- d. The licensee shall publish the revised transmission tariff and the salient features of tariff within one week in three daily newspapers in the respective local languages of the region, besides English, having wide circulation in their respective areas of supply.
- e. Ordered as above, read with the attached document giving detailed reasons, grounds and conditions.

-Sd-  
**नीरजा माथुर**  
**(सदस्य)**

-Sd-  
**एम. के. गोयल**  
**(अध्यक्ष)**

संयुक्त विद्युत विनियामक आयोग  
(गोवा और केंद्र शासित प्रदेशों के लिए)

स्थान : गुडगाँव

दिनांक: 19 अप्रैल 2017

(Certified Copy)  
**कीर्ति तिवारी, सचिव**

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*Transmission Tariff for FY 18*

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## List of Abbreviations

<b>Abbreviation</b>		<b>Full Form</b>
A&G	:	Administration & General
Act	:	The Electricity Act, 2003
ARR	:	Aggregate Revenue Requirement
CAGR	:	Compound Annualized Growth rate
Capex	:	Capital Expenditure
CEA	:	Central Electricity Authority
CERC	:	Central Electricity Regulatory Commission
CGS	:	Central Generating Station
COD	:	Commercial Operation Date
Commission/JERC	:	Joint Electricity Regulatory Commission for the state of Goa and Union Territories
CKt. Km	:	Circuit Kilometer
DISCOM	:	Electricity Department of UT- Dadra and Nagar Haveli
CPSU	:	Central Public Sector Undertaking
EA 2003	:	The Electricity Act, 2003
FC	:	Fixed Charges
FY	:	Financial Year
GFA	:	Gross Fixed Assets
HT	:	High Tension
KVA	:	Kilo Volt Ampere
KWh	:	Kilo Watt Hour
LPS	:	Late Payment Surcharge
LT	:	Low Tension
MU	:	Million Unit
MW	:	Mega Watt
MYT	:	Multi Year Tariff
NFA	:	Net Fixed Assets
O&M	:	Operation & Maintenance
PGCIL	:	Power Grid Corporation of India Ltd.
PLF	:	Plant Load Factor
REC	:	Renewable Energy Certificate
RoE	:	Return on Equity
R&M	:	Repair & Maintenance
SLDC	:	State Load Dispatch Centre
SBI PLR/SBAR	:	SBI Prime Lending Rate/State Bank Advance Rate
T&D	:	Transmission & Distribution
VC	:	Variable Charges

## Chapter 1. Introduction

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### 1.1. About JERC

In exercise of the powers conferred by Section 83 of the Electricity Act 2003, the Central Government constituted a two member (including Chairperson) Joint Electricity Regulatory Commission for all Union Territories except Delhi to be known as “Joint Electricity Regulatory Commission for Union Territories” with headquarters at Delhi as notified vide notification no. 23/52/2003 – R&R dated 02<sup>nd</sup> 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” as notified on 30<sup>th</sup> May 2008. The Joint Electricity Regulatory Commission for the State of Goa and Union Territories (Andaman & Nicobar Islands, Chandigarh, Dadra and Nagar Haveli, Daman & Diu, Lakshadweep and Puducherry) started functioning with effect from September 2008. The office of the Commission is located in Gurgaon, Haryana.

### 1.2. About Electricity Department – Union Territory of Dadra and Nagar Haveli (Transmission Division)

The Dadra and Nagar Haveli Electricity Reforms Transfer Scheme 2013 was notified by the Administration of Dadra and Nagar Haveli (DNH) vide notification no. 1-1(594) ELE/2013/697 Dated 07<sup>th</sup> March 2013. Further, the Administration notified the effective date as 01<sup>st</sup> April 2013 vide notification no. 1-1(656)/ELE/2012/700 Dated 08<sup>th</sup> March 2013 for the purpose of implementing the Dadra and Nagar Haveli Electricity Reforms Transfer Scheme 2013.

As per the Clause 4(1) of the notified transfer scheme:

*“Subject to the provision of this scheme on and with effect from such date as may be notified by the Administration as effective date of transfer:*

*(a) The functions of Distribution and associated divisions of department as set out in Schedule A shall stand out and vested with DNH Power Distribution Corporation Limited without any further act or things to be done by the Administration or the Company or any other person.”*

As per the Schedule ‘B’ of the notified Transfer Scheme, the Assets of 66/11 kV and below have been transferred to DNHPDCL.

Further, as per para at serial no. 8:

***“(8) The functions, duties, personnel, assets, liabilities and proceedings as set out in schedule ‘C’ shall not be transferred to the company and vest with the Electricity Department.”***



Further, as per Schedule 'C':

*"Unless otherwise specified by the Administration, the assets, liabilities, personnel and proceedings in relation to following shall not be transferred to the Company:*

1. *Function of generation of electricity except non-conventional source of energy.*
2. ***Functions of transmission of electricity.***
3. *Functions of policy making, Planning and Coordination.*
4. *Functions which are not transferred to the Company under this scheme."*

Accordingly, the Electricity Department of Dadra and Nagar Haveli (herein referred to as ED-DNH) has been entrusted the function of transmission of electricity in its licensee area. The transmission system of ED-DNH comprises a total of 36.88 km. Double Circuit transmission line at 220 kV voltage level, as on 31<sup>st</sup> March, 2016.

The details of operational transmission infrastructure, as on 31<sup>st</sup> March, 2016 are as below:

**Table 1.1: Operating Transmission Infrastructure of DNH Transmission Division**

S. No.	Particulars	UOM	Capacity
1.	Power evacuation points		
1.1.	400/220 kV Ambheti- Vapi substation of Power Grid {3X315} MVA	MVA	945
1.2.	400/220 kV Kala substation of Power Grid {2X315} MVA	MVA	630
	<b>Total capacity at 400/220 kV</b>	<b>MVA</b>	<b>1,575</b>
2.	220 kV switching stations at Sayli & Kharadpada	No.	02
3.	220 kV double circuit transmission line	Ckt. Km	36.88
4.	Sub-station capacity		
4.1.	220/66 kV Kharadpada sub-station {2X100 + 2X160} MVA	MVA	520
4.2.	220/66 kV Khadoli sub-station {3X160} MVA	MVA	480
	<b>Total capacity at 220/66 kV</b>	<b>MVA</b>	<b>1,000</b>

### 1.3. Electricity Regulatory Process in ED - DNH (Transmission Division)

The ED-DNH had in earlier years submitted the Petition for determination of Aggregate Revenue Requirements and Transmission Tariff before the Commission and the following Transmission Tariff Orders were issued in respect thereof:

**Table 1.2: Details of Tariff and related Petitions submitted by the Petitioner so far & Orders issued by the JERC**

Sr. No.	For FY	Filing date	Date of Tariff Order
1.	FY 2015-16	02 <sup>nd</sup> December 2014	30 <sup>th</sup> March 2015
2.	FY 2016-17	25 <sup>th</sup> January 2016	31 <sup>st</sup> March 2016

#### 1.4.Filing and Admission of the Present Petition

The present Petition was filed vide letter no. DNH/ELE/Trans/2016/19/266 dated 01<sup>st</sup> December 2016, which was received by the Commission on 13<sup>th</sup> December 2016, admitted on 27<sup>th</sup> December 2016 and numbered as Petition No. 223/2017.

#### 1.5.Interaction with the Petitioner

The Order has referred at numerous places to various actions taken by the “Commission.” It may be mentioned for the sake of clarity that the term “Commission,” except for the hearing and Orders, denotes the Secretariat of the Commission responsible for carrying out the technical due diligence and validation of data of the Petitions filed by the utilities, obtaining and analysing information/clarifications received from the utilities, and submitting relevant issues for consideration of the Commission.

The Commission’s staff held discussions with the Petitioner, obtained information/clarifications wherever required, and carried out technical validation of the information provided by the Petitioner. The Commission’s staff interacted regularly with the Petitioner to seek clarifications and justification on various issues essential for analysis of the Tariff Petition and conducted a Technical Validation Session (TVS) with the Petitioner during which discrepancies in the Tariff Petition were pointed out and additional information sought by the Commission was submitted. Relevant dates, including the dates of correspondence and interaction with the Petitioner are as follows:

**Table 1.3: List of interactions with the Petitioner**

S.No.	Date	Subject
1.	27 <sup>th</sup> December 2016	Admission of the Petition
2.	27 <sup>th</sup> December 2016	Data gaps forwarded by the Commission
3.	10 <sup>th</sup> March 2017	Technical Validation Session
4.	03 <sup>rd</sup> April 2017	Response to the data gaps submitted by the Petitioner

#### 1.6.Public Hearing process

The Commission directed the Petitioner to publish a Summary of the Tariff Petition in an abridged form to ensure meaningful public participation.

Public notices were published by the Petitioner as follows for inviting objections/ suggestions from stakeholders on the Tariff Petition, which have been taken into consideration for finalization of the Tariff Petition:

**Table 1.4: Details of Public Notices published by the Petitioner**

Sr. No.	Date	Name of newspaper	Place of circulation
1	21 <sup>st</sup> December 2016	Janadesh (Hindi)	Silvassa
2	21 <sup>st</sup> December 2016	UT Today (English)	Silvassa

The Petitioner also uploaded the Petition on its website <http://www.dnhpdcl.in/>. Interested stakeholders were requested to file their objections/ suggestions on the Petition to the Commission with a copy to the Petitioner on or before 30<sup>th</sup> January 2017. Copy of the Public Notices published by the Petitioner are attached as **Annexure 1** to this Order.

The Commission also published Public Notices 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 on 08<sup>th</sup> February 2017 from 10 AM onwards at President Hall, Yatri Niwas, Silvassa:

**Table 1.5: Details of Public Notices published by the Commission**

S.No.	Date	Name of Newspaper	Edition
1.	13 <sup>th</sup> January 2017	Gujarat Samachar (Gujarati)	Surat
2.	13 <sup>th</sup> January 2017	Indian Express (English)	Mumbai
3.	13 <sup>th</sup> January 2017	Navbharat Times (Hindi)	Mumbai
4.	05 <sup>th</sup> February 2017	Gujarat Samachar (Gujarati)	Surat
5.	05 <sup>th</sup> February 2017	Indian Express (English)	Mumbai
6.	05 <sup>th</sup> February 2017	Navbharat Times (Hindi)	Mumbai

Copy of the Public Notice published by the Commission is attached as **Annexure 2** to this Order.

Public Hearing was conducted on 08<sup>th</sup> February 2017 at Silvassa, along with the Public Hearing for the Petition of DNH Power Distribution Corporation Limited, wherein many Stakeholders had participated. **However, the Commission did not receive any written or verbal comments from the Public/ Stakeholders in respect of this Petition.**

## 1.7.Organisation of the Order

This Order is organised into the following chapters:

- ❖ **Chapter 1:** Introduction covering brief description of the Petitioner, respondent and the regulatory process undertaken by the Commission.
- ❖ **Chapter 2:** Approval of various Transmission ARR components for the FY 2017-18.
- ❖ **Chapter 3:** Transmission Tariff for the FY 2017-18.
- ❖ **Chapter 4:** Directives.

## Chapter 2. Approval of various Transmission ARR components for the FY 2017-18

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### 2.1. Applicable provisions of the JERC Tariff Regulations, 2009

The approval of various Transmission ARR components for the FY 2017-18 is to be carried out as per Regulation 20 of the JERC (Terms and Conditions for Determination of Tariff) Regulations, 2009 (herein referred to as the JERC Tariff Regulations, 2009):

#### ***“20. Cost of Transmission***

*While determining the cost of transmission for use of transmission network of each transmission licensee, the Commission shall be guided, as far as feasible, by the principles and methodologies specified by CERC as amended from time to time for determination of tariff applicable to transmission licensee.”*

Accordingly, the fixed charges of the transmission ARR for the FY 2017-18 have been categorised into the following:

- O&M Expenses
  - Employee Cost
  - Administrative and General Expenses
  - Repair and Maintenance Expenses
- Depreciation
- Interest and Finance Charges
- Return on Equity
- Interest on Working Capital

### 2.2. Approval of the Commission for the ARR Components

#### 2.2.1. Transmission Losses

##### **Petitioner’s submission:**

The transmission loss has been stated to be 0.29% for the FY 2015-16 based on the Energy Audit Report submitted by the Petitioner.

##### **Commission’s analysis:**

The Commission has analysed the Energy Audit Report submitted by DNH Power Distribution Corporation Limited which covers the losses in the network of the Petitioner also. The Commission observes that the Petitioner has submitted the losses in its network

at 0.29%, which is essentially the transformation loss at 220/66 kV as per the Energy Audit Report, however, the Petitioner has not considered the 220 kV line loss which is at 0.047%. Thus, the total system loss is 0.337%.

The Commission is of the view that this loss level of 0.337% is reasonably justified for the limited transmission system of DNH.

The Commission directs the Petitioner to continue monitoring of these losses and report the same to the Commission along with the Annual Petition for the FY 2018-19.

## 2.2.2. Operation and Maintenance Expenses

### **Petitioner's submission:**

Actual six monthly **employee expenses** for the FY 2016-17 are considered for estimating and forecasting the employee expenses for the FY 2016-17 and FY 2017-18 respectively.

Further, as the cost data related to leave salary contribution and pension of the employee is not maintained and included in the employee cost, it is requested to allow claim of these expenses at an appropriate time when the respective cost items become payable.

Accordingly, the employee expenses for FY 2017-18 has been estimated by considering a Wholesale Price Index (WPI) escalation of 5.11% over the estimated employee cost for the FY 2016-17 of Rs 1.34 crore to arrive at the employee expense of Rs 1.41 crore for the FY 2017-18.

Also, the actual **Administrative and General (A&G) expenses** for the FY 2015-16 was Rs. 0.103 crore. The A&G expense has been estimated at Rs. 0.109 crore for the FY 2016-17 and projected at Rs. 0.114 crore for the FY 2017-18.

The actual **Repair and Maintenance (R&M) expenses** for the FY 2015-16 was Rs. 2.09 crore. The revised estimates of R&M expenses for the FY 2016-17 of Rs. 3.63 crore is based on the WPI index and CPI index and the R&M expense for the FY 2017-18 has been projected at Rs. 4.58 crore.

Total O&M expenses submitted by the Petitioner are as per the Table below:

**Table 2.1: O&M Expenses submitted by the Petitioner (Rs crore)**

Particulars	FY 2015-16	FY 2016-17	FY 2017-18
	Actual	Revised Estimates	Projected
Employee Expenses	1.28	1.34	1.41
R&M Expenses	2.09	3.63	4.58
A&G Expenses	0.103	0.109	0.114
<b>Total O&amp;M Expenses</b>	<b>3.47</b>	<b>5.08</b>	<b>6.10</b>

**Commission's analysis:**

As per Regulation 27 (2) of the JERC Tariff Regulations, 2009,

*"While determining the O&M expenses for transmission functions within the State, the Commission shall be guided, as far as feasible by the principles and methodology specified by CERC on the matter, as amended from time to time".*

Further, as per regulation 29 (4) (b) of the CERC Tariff Regulations 2014,

*"(b) The total allowable operation and maintenance expenses for the transmission system shall be calculated by multiplying the number of bays and kms of line length with the applicable norms for the operation and maintenance expenses per bay and per km respectively."*

Thus, the CERC Regulations specify that O&M expenses shall be determined as per the norms based on "Rs. Lakh/bay" and "Rs. Lakh/ckt-KM".

The Commission had earlier, at the time of processing of the previous Tariff Orders, requested for the information pertaining to number of bays of the substation and the length of lines in Ckt. Kms, but this information has not been made available. Also the audited annual accounts for the FY 2013-14, FY 2014-15 and FY 2015-16 have not submitted to the Commission by the Petitioner.

While now the Petitioner has submitted that there are 29 numbers of total bays and the total length of the transmission lines as on 31<sup>st</sup> March, 2016 was 36.88 DC Kilometres (DC Kms), however the infrastructure capitalized during the FY 2016-17 is missing and hence the information is incomplete and also not audited.

In view of the above, the Commission cannot apply CERC norms for the computation of O&M expenses for the FY 2017-18.

The Commission has thus placed its reliance on the following proviso of the Regulation 27 (2) of the JERC Tariff Regulations, 2009:

*"Provided further that the Commission may, if it considers it just, practical and proper considering the size of the total transmission system of, and the quantum of electricity handled by, an integrated utility, treat its transmission system as an integral part of its distribution system itself."*

As the size of the network maintained by the Petitioner is very small, the Commission considers it appropriate to treat the transmission network as integral part of the distribution system and apply the provisions of O&M (applicable to distribution business as per JERC Tariff Regulations 2009) to the Petitioner.

Accordingly, the Commission has considered the Regulation 27 (3) (b) of the JERC Tariff Regulations 2009

(b) Base O&M expenses as above shall be adjusted according to variation in the rate of WPI per annum to determine the O&M expenses for subsequent year, where WPI is the Wholesale Price Index on April 1 of the relevant year;

In the data gaps, the Commission has asked the Petitioner to submit the audited annual accounts of the FY 2014-15 and FY 2015-16 to validate its claim w.r.t O&M and other expenses. The Petitioner has submitted that the accounts of the transmission business are being maintained separately and the accounts are audited by the Comptroller and Auditor General (CAG), Rajkot.

Therefore, in absence of baseline information, the Commission considers it appropriate to allow O&M expenses for the FY 2017-18 based on Employee cost, R&M expenses and A&G expenses approved by the Commission for the FY 2016-17 (as considered in the Order dated 31<sup>st</sup> March 2016) with average inflationary increase of Wholesale Price Index (WPI). The determination of average WPI has been provided as given in the Table below:

**Table 2.2: Increase in Wholesale Price Index (WPI)<sup>1</sup>**

Month	FY 2015-16	FY 2016-17
April	176.4	177.8
May	178.0	180.2
June	179.1	182.9
July	177.6	184.2
August	176.5	183.3
September	176.5	183.2
October	176.9	183.6
November	177.5	183.5
December	176.8	183.3
January	175.4	184.6
February	174.1	185.5
March	175.3	185.5
Average	176.7	183.1
Average Increase	3.7%	

In the Order dated 31<sup>st</sup> March 2016, the Commission has approved the employee expenses, A&G Expenses and R&M Expenses at Rs 1.16 crore, Rs 0.18 crore and Rs. 1.51 crore respectively for the FY 2016-17.

<sup>1</sup> As per the information maintained by Office of the Economic Adviser, Govt. of India, Ministry of Commerce & Industry, Department of Industrial Policy & Promotion (DIPP) <http://eaindustry.nic.in/home.asp>

Considering the base O&M expense for FY 2016-17 and WPI inflation as mentioned in Table 2.1 above, the Commission has computed the O&M expenses for the FY 2017-18 as shown in the Table below:

**Table 2.3: Computation of O&M Expenses for the FY 2017-18 (Rs crore)**

Particulars	Approved for the FY 2016-17	WPI Inflation	Now approved by the Commission for the FY 2017-18
Employee Expenses	1.16	3.7%	1.20
A&G Expenses	0.18	3.7%	0.19
R&M Expenses	1.51	3.7%	1.57
<b>Total</b>	<b>2.85</b>		<b>2.96</b>

Thus, the O&M expenses for the FY 2017-18 as submitted by the Petitioner and approved by the Commission are shown in the Table below:

**Table 2.4: O&M Expenses approved by the Commission for the FY 2017-18 (Rs crore)**

Particulars	Petitioner's submission	Approved by the Commission
Employee Expenses	1.41	1.20
A&G Expenses	0.11	0.19
R&M Expenses	4.58	1.57
<b>Total</b>	<b>6.10</b>	<b>2.96</b>

**Therefore, the Commission approves the O&M expenses of Rs 2.96 crore for the FY 2017-18.**

### 2.2.3. Capital Expenditure

#### **Petitioner's submission:**

The capital expenditure is undertaken 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.

Considering the increasing demand from HT & LT consumers, it is submitted that significant capital expenditure for the system augmentation and strengthening has to be undertaken. System augmentation would not only help in handling the increased load but also ensure better quality of supply and network reliability to the consumers.

It is further submitted that each year an Annual Plan for the capital investment for new schemes and continuing schemes (expenditure planned to incur in the ensuing year) is drafted.



The details of the same are given below:

### A. Ongoing Schemes

The ongoing schemes have been given in the Table below:

**Table 2.5: Details of Ongoing Schemes (Rs crore)**

Sr. No.	Name of Scheme	Total Estimated amount	Cumulative Expenditure till FY 2014-15	Proposed Expenditure		
				FY 2015-16	FY 2016-17	FY 2017-18
1	Interconnectivity 220KV Transmission line from 400/220 KV Kala substation to 220/66KV Khadoli substation.	32.96	18.27	14.69	0.00	0.00
2	Interconnectivity 220KV Transmission line from 400/220 KV Kala substation to 220/66KV Kharadpada substation.	49.74	19.48	19.22	11.04	0.00
3	Augmentation of 220/66kV Khadoli Sub-station from 2x160 MVA to 3x160 MVA capacities.	18.72	11.48	1.00	6.24	0.00
4	Establishment of 220/66 KV, 2x160 MVA Sub-Station at Waghchipa with associated transmission line.	67.45	-	10.55	5.00	20.00
<b>Total</b>		<b>168.87</b>	<b>49.23</b>	<b>45.46</b>	<b>22.28</b>	<b>20.00</b>

### B. New Schemes

The new schemes have been given in the Table below:

**Table 2.6: Details of New Schemes (Rs crore)**

Sr. No.	Name of Scheme	Total Estimated amount	Proposed Expenditure in FY 2017-18
1	Establishment of 220/66 KV, 2x100 MVA Sub-Station at Sayali with associated 66 KV transmission line.	44.97	13.25
<b>Total</b>		<b>44.97</b>	<b>13.25</b>

The total capital expenditure estimated for the FY 2016-17 is Rs. 22.28 crore and the total capital expenditure proposed for the FY 2017-18 is Rs. 33.25 crore. The Petitioner incurred Rs. 45.46 crore towards capital expenditure during the FY 2015-16. Further, Rs. 51.68 crore was capitalized during the year towards the scheme "Interconnectivity 220KV Transmission line from 400/220 KV Kala substation to 220/66KV Khadoli substation" and "Augmentation of 220/66kV Khadoli Sub-station from 2x160 MVA to 3x160 MVA capacities". Further, it is proposed that during the FY 2016-17, the scheme, "Interconnectivity 220KV Transmission line from proposed 400/220 KV Kala substation to 220/66KV Kharadpada substation" amounting to Rs. 49.74 crore shall be capitalised.

**Commission's analysis:**

The Petitioner has proposed capital investment for inter connecting 220 KV transmission lines, augmentation of the existing 220/66 KV substations and establishment of a new 220/66 KV substation. In view of the growing demand for power in the UT of Dadra and Nagar Haveli, it is appropriate to construct new substations, augment existing substation capacity and construct inter-connected lines to meet the demand without any constraints in the power supply.

The scheme for "Interconnectivity 220KV Transmission line from 400/220 KV Kala substation to 220/66KV Khadoli substation" for Rs. 32.96 crore was capitalized in FY 2015-16.

The Commission observes that the augmentation of 220/66kV Khadoli Sub-station from 2x160 MVA to 3x160 MVA capacity was proposed to be capitalized in FY 2015-16 itself as per the Petition submitted last year. However, in the current Petition, the Petitioner has deferred more than 1/3 of capital expenditure of this scheme from FY 2015-16 to FY 2016-17. Accordingly, the Commission finds it appropriate to consider the capitalization of this scheme in the current year only, instead of FY 2015-16 as considered by the Petitioner.

During the Technical Validation Session, it was communicated by the Petitioner that the works of "Interconnectivity 220KV Transmission line from 400/220 KV Kala substation to 220/66KV Kharadpada substation" are expected to be capitalized by FY 2016-17 which is in line with previous year's submission of the Petitioner.

In the new transmission capital works, the Petitioner has submitted the proposal to CEA for establishment of 220/66 KV, 2x100 MVA Sub- Station at Sayali with associated 66 KV transmission line. However, the Petitioner has submitted the expected capital expenditure of Rs. 13.25 crore in FY 2017-18, which may again be the pre project activity expense, subject to capitalisation after achieving COD of the project.

Further, the Petitioner has proposed a capitalization of Rs 6.34 crore in the FY 2017-18. As, the ongoing schemes are not projected to be commissioned in the FY 2017-18, the Commission has considered Nil capitalization in the FY 2017-18.

**The Commission observes that the Petitioner has neither submitted the audited accounts nor provided any documentary proof for the assets being "put to use".**

In the absence of any documentary proof, the Commission has considered the annual proposed capital expenditure as per the Petitioner's submission

In line with discussions in the foregoing paragraphs, the Commission has approved the revised capitalisation as given in the Table below:

**Table 2.7: Capital expenditure and capitalization approved by the Commission up to FY 2017-18 (Rs. crore)**

Particulars	Submitted by the Petitioner			Approved by the Commission		
	FY 2015-16	FY 2016-17	FY 2017-18	FY 2015-16	FY 2016-17	FY 2017-18
Capital Expenditure	45.46	22.28	33.25	45.46	22.28	33.25
Capitalization	51.68	49.74	6.34	32.96	68.46	0

#### 2.2.4. Gross Fixed Assets

##### Petitioner's submission:

The Opening Gross Fixed Assets (GFA) for the FY 2015-16 was Rs. 140.26 crore and the asset addition during the FY 2015-16 was Rs. 51.68 crore. Thus the closing GFA of FY 2015-16 was Rs. 191.94 crore. A further addition of Rs. 49.74 crore is proposed during the FY 2016-17 and Rs. 6.34 crore during the FY 2017-18.

The GFA as submitted by the Petitioner is shown in the Table below:

**Table 2.8: GFA submitted by the Petitioner for the FY 2017-18 (Rs crore)**

Particulars	Opening GFA	Additions during the Year	Closing GFA
FY 2015-16 (Actual)	140.26	51.68	191.94
FY 2016-17 (Revised Estimate)	191.94	49.74	241.68
FY 2017-18 (Projected)	241.68	6.34	248.02

##### Commission's analysis:

The Commission observes that the Petitioner has not submitted the audited annual accounts for the FY 2013-14, FY 2014-15 and FY 2015-16. **In the absence of audited annual accounts, the Commission provisionally considers the opening GFA of Rs.121.26 crore for the FY 2014-15 (as furnished by the Petitioner in its submission at the time of consideration of FY 2015-16 Tariff Petition).** Further, the Commission has considered the capitalization of Rs 19.00 crore for the FY 2014-15 as approved in the last Tariff Order.

Considering the capitalization from FY 2015-16 onwards as approved above, the year wise opening GFA, capitalisation and closing GFA is given in the Table below:

**Table 2.9: GFA approved by the Commission for the FY 2017-18 (Rs crore)**

S. No.	Particulars	Opening GFA	Additions during year	Closing GFA
1	FY 2014-15	121.26	19.00	140.26
2	FY 2015-16	140.26	32.96	173.22
3	FY 2016-17	173.22	68.46	241.68
4	FY 2017-18	241.68	0	241.68

## 2.2.5. Depreciation

### Petitioner's submission:

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 FY 2017-18 is determined by applying depreciation rates notified in the Central Electricity Regulatory Commission (Terms & Conditions of Tariff) Regulations, 2014 on the average of opening and closing Gross Fixed Assets during the year projected for FY 2017-18.

The depreciation as submitted by the Petitioner is shown in the Table below:

**Table 2.10: Depreciation submitted by the Petitioner for the FY 2017-18 (Rs crore)**

Particulars	FY 2015-16	FY 2016-17	FY 2017-18
	Actual	Revised Estimate	Projected
Opening GFA	140.26	191.94	241.68
Additions	51.68	49.74	6.34
<b>Closing GFA</b>	<b>191.94</b>	<b>241.68</b>	<b>248.02</b>
Average GFA	166.10	216.81	244.85
<b>Depreciation Amount</b>	<b>8.45</b>	<b>11.13</b>	<b>12.61</b>
<i>Average Depreciation Rate</i>	<i>4.40%</i>	<i>4.60%</i>	<i>5.08%</i>

### Commission's analysis:

In the absence of the audited annual accounts of the previous years, the Commission considered the value of opening GFA, additions to GFA and closing GFA as approved in the preceding paragraphs.

As per Regulation 26 (iv) of the JERC Tariff Regulations 2009,

*"(iv) Depreciation for generation and transmission assets shall be calculated annually as per straight-line method over the useful life of the asset at the rate of depreciation specified by the Central Electricity Regulatory Commission from time to time."*

As per the Regulation 27 of the CERC Tariff Regulations 2014

*".....(2) The value base for the purpose of depreciation shall be the capital cost of the asset admitted by the Commission. In case of multiple units of a generating station or multiple elements of transmission system, weighted average life for the generating station of the transmission system shall be applied. Depreciation shall be chargeable from the first year of commercial operation. In case of commercial operation of the asset for part of the year, depreciation shall be charged on pro rata basis. (3) The salvage value of the asset shall be considered as 10% and depreciation shall be allowed up to maximum of 90% of the capital cost of the asset:*

.....

(4) Land other than the land held under lease and the land for reservoir in case of hydro generating station shall not be a depreciable asset and its cost shall be excluded from the capital cost while computing depreciable value of the asset.

(5) Depreciation shall be calculated annually based on Straight Line Method and at rates specified in Appendix-II to these regulations for the assets of the generating station and transmission system:

Provided that the remaining depreciable value as on 31st March of the year closing after a period of 12 years from the effective date of commercial operation of the station shall be spread over the balance useful life of the assets."

The Petitioner has provided asset class wise break-up in response to the data gaps. Accordingly, the Commission finds it appropriate to compute asset wise depreciation as per the provisions of CERC Tariff Regulations.

Accordingly, the Commission has determined the depreciation as given in the Table below:

**Table 2.11: Computation of Depreciation for FY 2017-18 (Rs crore)**

Sr. No	Particulars	Dep Rate (%)	FY 2017-18					
			Opening	Addition	Deletion	Closing	Average	Dep
1	Plant & Machinery	5.28%	234.05	-	-	234.05	234.05	12.36
2	Buildings	3.34%	2.42	-	-	2.42	2.42	0.08
3	Vehicles	9.50%	-	-	-	-	-	-
4	Furniture and Fixtures	6.33%	-	-	-	-	-	-
5	Computers and Others	6.33%	-	-	-	-	-	-
6	Land	0.00%	5.21	-	-	5.21	5.21	-
7	<b>Total</b>		<b>241.68</b>	<b>-</b>	<b>-</b>	<b>241.68</b>	<b>241.68</b>	<b>12.44</b>

Thus, the depreciation for the FY 2017-18 as submitted by the Petitioner and approved by the Commission is shown in the Table below:

**Table 2.12: Depreciation approved by the Commission for the FY 2017-18 (Rs crore)**

Particulars	Petitioner's submission	Approved by the Commission
Depreciation	12.61	12.44

**Therefore, the Commission approves the depreciation of Rs 12.44 crore for the FY 2017-18.**

## 2.2.6. Interest on Loan

### **Petitioner's submission:**

Assets capitalized during the FY 2017-18 have been considered based on the normative debt-equity ratio of 70:30 as per the JERC 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 normative debt on the assets created after FY 2013-14 is considered and the Interest rate of 14.45% has been considered for long-term loans which is similar to the prevailing SBI Prime Lending Rate as on 1<sup>st</sup> April 2017.

The interest on loan is submitted in the Table below:

**Table 2.13: Interest on Loan submitted by the Petitioner for the FY 2017-18 (Rs crore)**

Interest on Long-term Loans	FY 2015-16	FY 2016-17	FY 2017-18
	Actual	Revised Estimate	Projected
Opening Loan	8.24	35.97	59.66
Addition in Loan (70% of Asset Capitalization)	36.18	34.82	4.44
Repayment of Loan (equal to depreciation)	8.45	11.13	12.61
<b>Closing Loan Amount</b>	<b>35.97</b>	<b>59.66</b>	<b>51.49</b>
Average Loan	22.10	47.81	55.57
Interest Rate on Loan	14.45%	14.45%	14.45%
<b>Total Interest Cost on Long-term Loans</b>	<b>3.19</b>	<b>6.91</b>	<b>8.03</b>

#### **Commission’s analysis:**

Regulation 23 (1) of JERC Tariff Regulations, 2009 specifies that

*“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”.*

In the absence of audited annual accounts, the Commission has provisionally considered the opening loan of Rs. 1.07 crore for FY 2014-15 (as furnished by the Petitioner in its submission at the time of consideration of FY 2015-16 Tariff Petition). Further, as per Regulation 23(1) of the JERC Tariff Regulations, 2009, the Commission has considered the normative loan at 70% corresponding to the capitalization approved in preceding paragraphs.

Further, the Commission has considered the repayment, equivalent to the depreciation allowed during the year. Further, the Commission has considered the weighted average interest rate (as per SBI PLR)<sup>2</sup> of 14.75% for the FY 2014-15, 14.29% for FY 2015-16, 14.05% for FY 2016-17. For the FY 2017-18, the SBI PLR has been considered at 14% as per the Regulations.

<sup>2</sup> <https://www.sbi.co.in/portal/web/interest-rates/benchmark-prime-lending-rate-historical-data>

The Commission has computed the interest on loans as given in the Table below:

**Table 2.14: Computation of Interest on Loan for FY 2017-18 (Rs crore)**

Sr.	Particulars	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
1	Opening loan	1.07	7.79	22.91	60.20
2	Loan addition during year	13.30	23.07	47.92	-
3	Loan repayment	6.58	7.95	10.63	12.44
4	<b>Closing loan</b>	<b>7.79</b>	<b>22.91</b>	<b>60.20</b>	<b>47.76</b>
5	<b>Average loan during year</b>	<b>4.43</b>	<b>15.35</b>	<b>41.55</b>	<b>53.98</b>
6	applicable interest rate (SBI PLR)	14.75%	14.29%	14.05%	14.00%
7	<b>Interest on long term loans</b>	<b>0.65</b>	<b>2.19</b>	<b>5.84</b>	<b>7.56</b>

Thus, the interest on loan for the FY 2017-18 as submitted by the Petitioner and approved by the Commission is shown in the Table below:

**Table 2.15: Interest on Loan approved by the Commission for the FY 2017-18 (Rs crore)**

Particulars	Petitioner's submission	Approved by the Commission
Interest on Loan	8.03	7.56

**Therefore, the Commission approves the Interest on loan of Rs 7.56 crore for the FY 2017-18.**

### 2.2.7. Return on Equity

#### **Petitioner's submission:**

As per the JERC Tariff Regulations, 2009, the Petitioner is entitled for a Return on Equity (RoE). However, the Rate of return has not been specified in the Regulations issued by the 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 @ 15.50% with an additional return of 0.50% for projects completing before a specified timeline.

A normative debt-equity ratio of 70:30 is considered on the assets capitalized during the FY 2017-18 as per the JERC 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, a normative equity on the assets created after FY 2013-14 is considered and claimed the RoE of 15.50% for FY 2017-18 in this Petition.

The Return on Equity as submitted by the Petitioner is shown in the Table below:

**Table 2.16: Return on Equity submitted by the Petitioner for the FY 2017-18 (Rs crore)**

Particulars	FY 2015-16	FY 2016-17	FY 2017-18
	Actual	Revised Estimate	Projected
Opening Equity	6.18	21.69	36.61
Addition in Equity	15.50	14.92	1.90
<b>Closing Equity Amount</b>	<b>21.69</b>	<b>36.61</b>	<b>38.51</b>
Average Equity Amount	13.94	29.15	37.56
Rate of Return on Equity	15.50%	15.50%	15.50%
<b>Return on Equity</b>	<b>2.16</b>	<b>4.52</b>	<b>5.82</b>

**Commission's analysis:**

Regulation 24(1) of the JERC Tariff Regulations, 2009 specifies:

*"return on equity shall be computed on the paid up equity capital determined in accordance with Regulation 23 and shall be guided by the CERC Regulations, 2014 as amended by CERC from time to time".*

Regulation 23 (1) of the JERC tariff Regulations, 2009 specifies:

*"for the purpose of determination of tariff, debt equity ratio in case of existing and ongoing as well as new projects commencing after the date of notification of these regulations shall be 70:30".*

As per the CERC Regulations 2014, Return on Equity shall be considered at 15.50% for transmission business.

In the absence of audited annual accounts, the Commission has provisionally considered the opening equity of Rs. 0.48 crore for the FY 2014-15 (as furnished by the Petitioner in its submission at the time of consideration of FY 2015-16 Tariff Petition). Further, as per Regulation 23(1) of the JERC Tariff Regulations, 2009, the Commission has considered the normative equity addition of 30% corresponding to the capitalization approved in the preceding paragraphs and has computed the Return on Equity as below:

**Table 2.17: Computation of Return on Equity for FY 2017-18 (Rs crore)**

Sr.	Particulars	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
1	Opening equity	0.48	6.18	16.07	36.61
2	Equity addition during year	5.70	9.89	20.54	-
3	Closing Equity	<b>6.18</b>	<b>16.07</b>	<b>36.61</b>	<b>36.61</b>
4	<b>Average equity during year</b>	<b>3.33</b>	<b>11.12</b>	<b>26.34</b>	<b>36.61</b>
5	Rate of Return on Equity	15.50%	15.50%	15.50%	15.50%
6	<b>Return on Equity</b>	<b>0.52</b>	<b>1.72</b>	<b>4.08</b>	<b>5.67</b>



Thus, the Return on Equity for the FY 2017-18 as submitted by the Petitioner and approved by the Commission is shown in the Table below:

**Table 2.18: Return on Equity approved by the Commission for the FY 2017-18 (Rs crore)**

Particulars	Petitioner's submission	Approved by the Commission
Return on Equity	5.82	5.67

**Therefore, the Commission approves the Return on Equity of Rs 5.67 crore for the FY 2017-18.**

## 2.2.8. Interest on Working Capital

### **Petitioner's submission:**

The Interest on Working Capital for FY 2017-18 has been computed on normative basis as per the JERC Tariff Regulations, 2009 considering the rate of interest of 14.45% and 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.

### **Commission's analysis:**

Regulation 29(2) of the JERC Tariff Regulations, 2009 specifies

*"for transmission business, the working capital shall be as per CERC norms".*

While Regulation 28 (c) of CERC Regulations, 2019 specifies:

### **"28. Interest on Working Capital**

*(1) Working capital shall cover: .....*

*(c) Hydro generating station including pumped storage hydroelectric generating station and transmission system including communication system:*

- (i) Receivables equivalent to two months of fixed cost;*
- (ii) Maintenance spares @ 15% of operation and maintenance expenses specified in regulation 29; and*
- (iii) Operation and maintenance expenses for one month;*

*.....*

*(2) Rate of interest on working capital shall be considered as the bank rate as on 1.4.2014 or as on 1st April of the year during the tariff period 2014-15 to 2018-19 in which the generating station or a unit thereof or the transmission system including communication system or element thereof, as the case may be, is declared under commercial operation, whichever is later.*

As per JERC Tariff Regulations, 2009, the Commission considered the interest rates (as per SBI PLR) as on 1<sup>st</sup> April of each year for the computation of applicable interest on Working Capital.

The Commission has computed the interest on Working Capital as given in the Table below:

**Table 2.19: Computation of interest on Working Capital for FY 2017-18 (Rs crore)**

Sr.	Particulars	FY 2017-18
1	Receivables equivalent to 02 months of fixed cost	2.42
2	Maintenance spares @ 15% of O&M expenses	0.44
3	O&M expenses for 01 month	0.25
<b>4</b>	<b>Total working capital requirement</b>	<b>3.11</b>
5	Rate of interest on working capital	14.00%
<b>6</b>	<b>Total interest on working capital</b>	<b>0.43</b>

Thus, the Interest on Working Capital for the FY 2017-18 as submitted by the Petitioner and approved by the Commission is shown in the Table below:

**Table 2.20: Interest on Working Capital approved by the Commission for the FY 2017-18 (Rs crore)**

Particulars	Petitioner's submission	Approved by the Commission
Interest on Working Capital	1.01	<b>0.43</b>

**Therefore, the Commission approves the Interest on Working Capital of Rs 0.43 crore for the FY 2017-18.**

## 2.2.9. Non-Tariff Income

### **Petitioner's submission:**

O&M works of the 220 kV bays of PGCIL is in progress and the revenue earned from this work has been included in the Non-Tariff income. The actual Non-Tariff income earned in the FY 2015-16 was Rs. 0.04 crore and for estimating the Non-Tariff income for FY 2017-18, an increase of 5% p.a. has been considered over the estimated non-tariff income of FY 2016-17.

### **Commission's analysis:**

Non-Tariff income is uncontrollable in nature and hence, the Commission has considered its estimation in line with the Petitioner's submission of annual 5% increase as shown in the Table below:

**Table 2.21: Non-Tariff Income computed for FY 2017-18 (Rs crore)**

Sr.	Particulars	FY 2015-16	FY 2016-17	FY 2017-18
1	Non-Tariff Income	0.04	0.05	0.05

Thus, the Non-Tariff income for the FY 2017-18 as submitted by the Petitioner and approved by the Commission is shown in the Table below:

**Table 2.22: Non-Tariff Income approved by the Commission for the FY 2017-18 (Rs crore)**

Particulars	Petitioner's submission	Approved by the Commission
Non-Tariff income	0.05	0.05

**Therefore, the Commission approves the Non-Tariff income of Rs 0.05 crore for the FY 2017-18.**

#### 2.2.10. Aggregate Revenue Requirement (ARR)

##### **Petitioner's submission:**

Aggregate Revenue Requirement of Rs. 33.52 crore has been projected for the FY 2017-18.

##### **Commission's analysis:**

Based on the detailed analysis of all the expenditure heads of the ARR in the preceding sections, the Commission approves the ARR of 2017-18 at Rs 28.94 crore as given in the following Table:

**Table 2.23: ARR approved by the Commission for the FY 2017-18 (Rs crore)**

Sr.	Particulars	Submitted by the Petitioner	Approved by the Commission
1	O&M Expenses	6.10	2.96
2	Depreciation	12.61	12.44
3	Interest & finance charges	8.03	7.56
4	Interest on working capital	1.01	0.43
5	Return on Equity	5.82	5.67
<b>6</b>	<b>Gross ARR</b>	<b>33.57</b>	<b>29.06</b>
7	Less: Non- Tariff Income	0.05	0.05
<b>8</b>	<b>Net ARR</b>	<b>33.52</b>	<b>29.01</b>

## Chapter 3. Transmission Tariff for the FY 2017-18

### 3.1. Transmission System loading for the FY 2017-18

#### Petitioner Submission:

The projected power availability for transmission from the central sector against allocated quota during FY 2017-18 is shown in the Table below:

**Table 3.1: Power Allocation (in MW) from central sector to DNH in FY 2017-18**

Particulars	Weightage average infirm power allocation	Weightage average firm power allocation	Weightage average total power allocation
KSTPP	53.95	-	53.95
KSTPS -3	20.76	2.20	22.96
VSTPP-I	39.22	5.00	44.22
VSTPP-II	29.64	4.00	33.64
VSTPP- III	29.64	6.00	35.64
VSTPP- IV	41.51	5.55	47.06
KAWAS	56.24	25.00	81.24
GGPP	56.75	2.00	58.75
Sipat – I	82.19	9.00	91.19
Sipat – II	28.17	4.00	32.17
KHSTPP – II	3.50	0.00	3.50
Mauda I (MSTPS)	41.51	5.55	47.06
VSTPP-V	20.76	5.55	26.31
NPCIL – KAPS	14.90	2.00	16.90
NPCIL - TAPP 3&4	36.52	7.00	43.52
<b>Sub-Total</b>	<b>555.25</b>	<b>82.85</b>	<b>638.10</b>
NSPCL Bhilai		100.00	100.00
RGPPL		38.00	38.00
EMCO Energy Ltd. (GMR Group)		200.00	200.00
<b>Grand Total</b>	<b>555.25</b>	<b>420.85</b>	<b>976.10</b>

On the basis of the power availability as above, the energy availability from the Central Sector projects and others is projected during the FY 2017-18 as per the Table below:

**Table 3.2: Projected Capacity & Energy Availability submitted by the Petitioner for the FY 2017-18**

S. No.	Particulars	UOM	Capacity
1.	Capacity	MW	976.10
2.	Energy Availability	MU	6767.96

**Commission’s analysis:**

The Commission has considered the firm allocation and allocation from the unallocated quota from the above stations, except Kahalgaon STPS-II and RGPPL, as per the notification of the Western Region Power Committee vide WRPC/Comml-I/6/Alloc/2017/1111 dated 30<sup>th</sup> January 2017. Further, the allocation of Kahalgaon STPS-II has been taken as per notification of the Western Region Power Committee.

DHPDCL in its current Petition has submitted that

*“It is expected that DNHPDCL will not be getting any power from Ratnagiri during the FY 2017-18 and therefore no power purchase from the plant has been considered.”*

Keeping in view of the above submission of DNHPDCL, the Commission has not considered the availability from RGGPL.

Accordingly, the capacity from the allocations available to DNHPDCL as per the allocation orders as referred above is shown in the Table below:

**Table 3.3: Capacity contracted by DNHPDCL as approved by the Commission for the FY 2017-18 (in MW)**

Allocation to Licensee including Firm, Specific and Unallocated (MW)			
Source	(0000 Hrs to 1800 Hrs and 2200 Hrs to 2400 Hrs)	(1800 Hrs to 2200 Hrs)	Weighted Average Allocation (in MW)
<b>NPCIL</b>			
KAPS	16.24	20.18	16.90
TAPS	41.91	51.57	43.52
<b>NTPC &amp; Other Stations</b>			
Sipat-I	87.83	109.64	91.47
Sipat-II	31.06	38.55	32.31
KSTPS 3	22.11	27.61	23.03
KSTPP 1&2	52.28	63.99	54.23
VSTPP-V	25.46	30.96	26.38
VSTPP-II	32.46	40.34	33.77
VSTPP- III	34.46	42.34	35.77
VSTPP- IV	45.36	56.38	47.20
EMCO-GMR	200.00	200.00	200.00
VSTPP-I	42.66	53.08	44.40
NSPCL - Bhilai	100.00	100.00	100.00
JGPP	58.74	58.81	58.75
KAWAS	81.23	81.29	81.24
MAUDA-II	30.58	37.85	31.79
KHSTPP-II	3.00	3.00	3.00
MAUDA-I	45.36	56.38	47.20
<b>Grand Total</b>	<b>950.74</b>	<b>1071.97</b>	<b>970.95</b>

**Therefore, the Commission approves the projected contracted capacity from the Central Generating Stations as 970.95 MW for the FY 2017-18.**

### 3.2.Computation of Transmission Charges

#### Petitioner's submission:

The transmission system capacity is the contracted capacity made available to the beneficiary during the given period. The present capacity of Kharadpada substation is 509.60 MW and the present capacity of Khadoli substation is 470.40 MW.

The Petitioner has projected the contracted transmission capacity of the system as under:

**Table 3.4: Proposed transmission capacity up to FY 2017-18**

S. No.	Particulars	FY 2016-17	FY 2017-18
1.	Transmission capacity (MW)	980	980

Based upon the projected transmission capacity, the Petitioner has determined transmission tariff as per the Table below:

**Table 3.5: Proposed Transmission Tariff for FY 2017-18**

S. No.	Particulars	Units	FY 2017-18
1.	Aggregate Revenue Requirement	Rs. crores	33.52
2.	Available Transmission Capacity	MW	980
3.	Energy required at periphery	MU	6767.96
4.	Long/Medium Term Open Access Transmission charges	(Rs./MW/Month)	28,504.01
5.	Short Term Open Access Transmission charges	(Rs./MW/hour)	39.59
6.	Transmission Charges	Rs./ Unit	0.05

#### Commission's analysis:

Calculation of power transmission charges is based only on the allocation/ contracted capacity from various sources that is transmitted by the transmission system to the beneficiary (DNHPDCL).

The Commission has approved the transmission capacity of 970.95 MW (section 3.1 above) and computed the transmission charges for the FY 2017-18 as per the Table below:

**Table 3.6: Approved Transmission Tariff for FY 2017-18**

S. No.	Particulars	Units	FY 2017-18
1	Aggregate Revenue Requirement	Rs. crores	29.01
2	Transmission Capacity availability	MW	970.95
4	Long/Medium Term Transmission Charges	Rs./ MW/ Day	818.59
5	Short Term Open Access Charges	Rs./ MW/ Day	204.65

**The Commission approves the billing of Aggregate Revenue Requirement (ARR) of Rs. 29.01 crore to the DNHPDCL in FY 2017-18 in twelve equal monthly installments.**

As per Regulation 16 (i) (iii) of the JERC for the State of Goa and UTs (Open Access in Transmission and Distribution) Regulations, 2009

*“(iii) 25% of the charges collected from the short-term open access users shall be retained by the open access providers (electrical lines) and the balance 75% shall be adjusted towards reduction in the charges payable by the long term open access users (electrical lines).”*

**Accordingly, the Commission directs the Petitioner to refund 75% of the charges collected from the short term open access consumers to DNHPDCL in the subsequent month’s bill.**

## Chapter 4. Directives

*Over the years, the Commission has issued various directives to the Petitioner for necessary action at its end. It has been observed that the Petitioner is not fully complying with most of the directives issued by the Commission. In order to strengthen the effective monitoring and ensure timely implementation of all the directives in true spirit, the Commission hereby directs that the Petitioner shall now compulsorily submit:*

- *The detailed action plan for compliance of all the directives within 1 month of the issuance of this Order.*
- *The quarterly progress report as per the detailed action plan for all the directives issued in the subsequent sections within 10 days of the end of each quarter of the calendar year.*

While examining the compliance note and supporting documents submitted by the Petitioner in the present Petition, it is observed that some of the directives issued in the previous Tariff Orders have not been fully complied with by the Petitioner.

The Commission is of the view that substantial time has already been given to the utility for compliance with these directions. Thus, the Commission hereby directs the utility to comply with the directions mentioned below in the given timeframe, failing which the Commission shall be constrained to take appropriate action under Section 142 of the Electricity Act 2003 and various other provisions of the Act, and Regulations framed by JERC.

### 4.1.Submission of audited annual accounts along with the True-up Petitions for the FY 2014-15 onwards

**Originally issued in Tariff Order dated 30<sup>th</sup> March 2015 and carried forward to the Tariff Order dated 31<sup>st</sup> March 2016**

*The Petitioner is directed to submit the Transmission True up Petition of FY 2014-15 along with annual audited accounts of FY 2013-14 & FY 2014-15 with the ARR Tariff Petition of FY 2017-18.*

**Petitioner's response in present Tariff Petition**

*The accounts of the transmission business are being maintained separately and the accounts are audited by the Comptroller and Auditor General (CAG), Rajkot.*

**Commission's response**

*The Commission observes that the Petitioner is yet to submit the True-up Petition of FY 2014-15 along with audited accounts for the FY 2013-14 and FY 2014-15. The Commission reiterates its direction to submit the True-up Petition for the FY 2014-15.*

*Further, the Commission directs the Petitioner to submit the True-up Petitions for the FY 2015-16 and FY 2016-17 along with the Annual Performance Review of FY 2017-18 and the ARR and Transmission Tariff Petition for the FY 2018-19. In case of further non-compliance, the*



Commission shall be constrained to take appropriate action against the Petitioner in terms of the applicable Regulations.

## 4.2. Functioning of SLDC

**Originally issued in Tariff Order dated 30<sup>th</sup> March 2015 and carried forward to the Tariff Order dated 31<sup>st</sup> March 2016**

The Petitioner has submitted that the SLDC is already operational and an Assistant Engineer of the DNHPDCL has been appointed as the nodal officer of the SLDC. The scheduling of power is being done on a day to day basis.

However, as per the provisions of Grid Code Regulations 2010:

**“(3)(a) Establishment of SLDC:** The State Government of Goa and the Appropriate Governments in respect of Union Territories of Andaman & Nicobar Islands, Chandigarh, Dadra & Nagar Haveli, Daman & Diu, Lakshadweep and Puducherry shall establish a centre to be known as the State Load Despatch Centre (SLDC) in the State of Goa and in the Union Territories. The State Load Despatch Centre shall be operated by a Government company or any Authority or Corporation established or constituted by or under any State Act, as may be notified by Appropriate Government. Until a Government company or any authority or corporation is notified by the Appropriate Government, **the State Transmission Utility shall operate the State Load Despatch Centre.**

**b) Functions of SLDC:** State Load Despatch Centre shall discharge the functions as stipulated under Sections 32 (2) and 33 of the Act.

**(c) Manning of SLDC:**

**i)** SLDC shall be manned by qualified and experienced Engineers who are well acquainted with State Transmission System and grid operation.

**ii)** Periodical Training shall be imparted to the personnel of the State Load Despatch Centre to update their skills in order to enable them to discharge their functions stipulated under Section 32 (2) & 33 of the Act”

In presence of provisions of Electricity Act 2003 and already laid down sector specific guidelines, the operations of SLDC should not be entrusted with the distribution company (DNHPDCL).

So, the Commission observes that the compliance of relevant directive, issued in Transmission Tariff Order FY 15-16 is still due. Hence, the Commission takes this on a serious note and again directs to the Petitioner to comply the following points:

- ✓ To establish an independent SLDC for DNH.
- ✓ To segregate the accounts of SLDC business and transmission business.
- ✓ Filing separate ARR Petitions for SLDC and transmission business compulsorily from FY 17-18 onwards.

The compliance status report of above directive should be submitted to Commission within next six month of issuance of this order.

**Petitioner's response in the present Tariff Petition**

*An independent SLDC has been established and an Assistant Engineer of the DNHPDCL has been appointed as the nodal officer of the SLDC. The scheduling of power is being done on a day to day basis.*

*Presently the accounts of the SLDC have not been segregated and the SLDC is operational under the DNHPDCL. Once the accounts of the SLDC are segregated the ARR and Tariff Petition of the SLDC shall be filed separately.*

**Commission's response**

*The Commission has noted that the Petitioner has not complied with this directive as per the intent and spirit of the Act and Regulations framed thereunder. The Commission reiterates that in presence of provisions of Electricity Act 2003 and already laid down sector specific guidelines, the operations of SLDC should not be entrusted with the distribution company (DNHPDCL).*

*So, the Commission observes that the compliance of relevant directive, issued in Transmission Tariff Order FY 2015-16 is still due. Hence, the Commission takes this seriously note and again directs to the Petitioner to comply with the following points:*

- ✓ To establish an independent SLDC for DNH.*
- ✓ To segregate the accounts of SLDC business and transmission business.*
- ✓ To file separate ARR Petitions for SLDC and transmission business compulsorily from FY 2018-19 onwards.*

*Till the operational and financial segregation of SLDC is complete, the Commission directs the Petitioner to undertake necessary actions to take over operations of the SLDC from DNHPDCL within the next 3 months and report the compliance to the Commission.*

**4.3.Submission of feasibility study of transmission ring main system**

**Originally issued in Tariff Order dated 31<sup>st</sup> March 2016**

*The Petitioner is directed to submit a feasibility study report for installation of ring main system along with other reliability improvement provisions in order to increase transmission network reliability.*

**Petitioner's response in present Tariff Petition**

*The work of preparing feasibility study report for installation of ring main system along with other reliability improvement provisions in order to increase transmission network reliability has been given to PGCIL. The draft report has been submitted by PGCIL and same shall be finalized within two months.*

**Commission's response**

*The Commission has noted the compliance and directs the Petitioner to submit the final report before 30<sup>th</sup> June 2017.*

#### 4.4.Submission of O&M allocation methodology

<b>Originally issued in Tariff Order dated 31<sup>st</sup> March 2016</b>
<i>The Petitioner is directed to submit basis of O&amp;M allocation between transmission &amp; distribution function (if any). The submission of organization structure and designation hierarchy is also desired, in order to reconcile the O&amp;M expense allocation.</i>
<b>Petitioner's response in present Tariff Petition</b>
<i>The O&amp;M allocation methodology shall be submitted shortly to the Commission.</i>
<b>Commission's response</b>
<i>The Commission observes that the Petitioner is yet to submit the allocation methodology. While DNHPDCL has provided audited accounts to validate their O&amp;M costs, the Petitioner is yet to submit the audited accounts for their licensed business. The Commission directs the Petitioner to submit the audited accounts for the previous years along with the next tariff filing. In case of further non-compliance, the Commission will be constrained to take appropriate action against the Petitioner.</i>

#### 4.5.DNH Transmission Infrastructure data

<b>Originally issued in Tariff Order dated 31<sup>st</sup> March 2016</b>
<i>The Petitioner is directed to submit the number of transformers with ratings, transmission bays, transformation capacity (MVA) and transmission circuit-Km details with the ARR Tariff Petition of FY 2017-18.</i>
<b>Petitioner's response in present Tariff Petition</b>
<i>The key assets of ED-DNH include the transmission lines and sub-stations. There are 29 numbers of total bays. The total length of the transmission lines as on 31<sup>st</sup> March, 2016 was 36.88 DC Kilo meters (DC Kms). The transformation capacity of the ED-DNH transmission system is 2X100 MVA and 5X160 MVA transformers totalling 1000 MVA.</i>
<b>Commission's response</b>
<i>The Commission has noted the submission of the Petitioner. However, as the previous and current Tariff Petitions is not as per the provisions of JERC Tariff Regulations 2009 and CERC Tariff Regulations 2014, the Commission directs the Petitioner to submit the next Tariff Petition considering the norms of O&amp;M Expenses applicable to the Transmission Business as specified in the CERC Tariff Regulations 2014 along with other applicable provisions.</i>

#### 4.6.DNH Transmission Availability data

<b>Originally issued in Tariff Order dated 31<sup>st</sup> March 2016</b>
<i>The Petitioner is directed to submit the transmission line and system availability data of FY 2014-15 and FY 2015-16 with the ARR Tariff Petition of FY 2017-18.</i>
<b>Petitioner's response in present Tariff Petition</b>
<i>The ED-DNH would like to submit that the availability of the transmission line and system of the ED-DNH (transmission) was more than 98% during FY 2014-15 and FY 2015-16.</i>
<b>Commission's response</b>
<i>The Commission has noted the submission of the Petitioner. The Commission observes that while the Petitioner is maintaining high system availability, the same is not substantiated by the documentary evidence. The Commission directs the Petitioner to compute the Transmission System availability factor for the month as well as year, in percent computed in accordance with Appendix III of the CERC (Terms and Conditions of Tariff) Regulations, 2014 from this year onwards and submit the monthly computations for the information of the Commission. The Petitioner shall also make the updated information available on their website.</i>

Annexure 1: Public Notices published by the Petitioner

SEPT 2016 - WEDNESDAY

पेटेब, तमाय प्रतिवागीओ ने माध्यमिक विद्यालयो...  
दादरा युवकामनाओ पत्र आपी भेल संसोधनो...  
विवाज अने जीवन मां रमत ने सुविधाओ ने आ...  
उअतर आगण वधारवा अने वधारवा माटे तमाय...  
रभोली महत्व आपता ज़ावायुं हुतु प्रथम विवागीय सद्य...  
40 मुं डे, अथा प्रतिवागीओ ने आपवानुं आवासन अ...  
लेवल भेलदिली पूरक आ हुतु आ अनसर मुषिक तथा व्यङ्गित...  
10 नी आयोजन मां भाग लेवानो सहायक शिक्षा निर्देशक...  
शक श्री ज़ावायु हुतु अ भदल सोनो परिचय वी शु...  
का ना आभार व्यक्त कयी हतो. सेवानिवृत्त सहायक शिक्ष...  
आयुं मुअ्य अतिथी ना निर्देशक श्री रमेशीत...  
बी 24 मां उपस्थित शिक्षा मोहल, रभोली जी...  
बायोशित निर्देशक श्री सेजु पंचायत सदस्य श्री...  
डेटा पूर्व पी.कुरीवाडवा ओ बंधनभन डी.पटेल, ज...  
धरा ना धनारोहज करी भेल भूशाल नरतभाउ टोडेल, वि...  
आधिकारी ने प्रजवलित करी विद्यालयो ना आश...  
अतिथी रमोत्सवनुं शुवारण शिक तथा प्रतिब...  
ने अन्य करवायां आयु हुतु विद्याधीओ तथा भेल...  
धीओ ने रमोत्सव ने संभोधाता श्री लोच उपस्थित रथा हु...  
स्वागत कुरीवाडवा ओ कलू के, प्रदेश आ वर्ष...  
स्ता. आ ना माध्यमिक तथा उअतर विवाज ना जेन सतर

4 पर 2016-17 माटे बाँडेन टेन्डर नोटिस पर ना धनीये  
दादरा अने नगर हवेली U.T.,  
विभाग संवेरी  
तपोनी अने आरोग्य सेवाओ  
Tel.No.0260-2642910, 2640615, 2630102  
ईमेल आंकडी: svbchsi@gmail.com

जेल/पी & डी/2016-17/ 563  
रवनासा  
दिनांक: 14/12/2016  
जिं टेन्डर आमंत्रण

उअवेन मां भावना पुशदा माटे मे मुकुंवरसं / अधिक / सहायसं तसुधी  
dnhtenders.gov.in/nicrop/arr पर सीटी टेन्डर पर बाह्यना राष्ट्रपति दानी उपर  
एवेवी, सिल्वसा.

बिगत	अंदाजित किमत	टेन्डर खुल्लांनी ठेवैली तारीख	उअवेमी (अपेनरनेन मनी टिपोशिट)	जिं टेन्डर आंकडी नो.
नाशक उडेलनी परीदी	₹.9.97 Lacs	04.01.2017	₹.25,000/-	2016 UTDNH 676_1
पाइपी हावेसिंध उडेलनी परीदी	₹.8.72 Lacs	04.01.2017	₹.22,000/-	2016 UTDNH 677_1
प्योनी परीदी	₹.39.28 Lacs	05.01.2017	₹.98,200/-	2016 UTDNH 680_1

मिशन माटे ठेवैला तारीख अने समय सुपी http://dnhtenders.gov.in/nicrop पर रिलिज्कोनिक हुंमंठमां मिड बांध छे. शारीक अंदाजपत्रां मां टेन्डरिका बिज अने किमत लिख कुठे पत्र सजाओना आवरो नाहीं.

AD /स्पी: पांत्त अथवा नीवे सवी करार-नी अपिसामां कथा अथवा मुज टेन्डर डी वे भुं कौठिओ कौके ता कौठिपु टपाव विबंन माटे जवाबदातर सोवी कौठिओ.

EMD अने टेन्डर डी गेटे ड्यारा आगण कौठिओ नही उअर डी मात्र सिल्वसा अजवापान भासना कौठिपु राष्ट्रपितु अथवा हवेली 2 नं नं/पे यी वे/ वी नासुं बंड रचयुषमां हवीकरवामां आवरो.

MO सवी अंनार तसुंठमां सिल्वसा पर अजवापान पी स्वीडर कौठिपु यालिअ गीमार/ ली नासुं वेनार डिमांड ग्राइड / बंनो वेक AR अंड कैंट्री रचयुषमां स्वीकारे.

मां थोधी कौठिअर लु विलतो भाटे आनवाडन टेन्डर परचमवचार जं भेव पर मां बायोडी माटे प्रिडिअ पएनी करवानी कुर छे. मोभाईल नो. : + 91-7878007972 मां [अने] PMP-NIC अने +91- नं 1800 3070 2232, वेबसाईट: www.dnhtenders.gov.in.

व.पी/ए/१८/५५६/२०१६  
१५/१२/२०१६

Administration of  
Dadra & Nagar Haveli, (U.T),  
Electricity Department,  
Transmission Division, Vidhyut Bhavan, Near. Secretariat,  
Silvassa

PUBLIC NOTICE

Disclosure pursuant to the ARR Petition filed before the Joint Electricity Regulatory Commission (JERC) for determination of tariff for the year 2017-18

BACK GROUND INFORMATION: Electricity Department, Transmission Division has filed ARR Petition and Tariff Proposal before the Joint Electricity Regulatory Commission (JERC) under Section 62, 63 and 64 of the Electricity Act, 2003 for determination of Aggregate Revenue Requirement and Tariff for the year 2017-18 in accordance with the JERC (Conduct Business) Regulations 2009 and JERC (Terms and Conditions for Determination of Tariff) Regulations 2009. Salient features of the proposed ARR are as under:

2. Revised Estimates for FY 2016-17 and Aggregate Revenue Requirement (ARR) projected for FY 2017-18 are given below:

S. No.	Item of expense	(Rs. Crore)	
		FY2016-17 (Revised Estimates)	FY2017-18 (Projected)
1.	Employee Cost	1.34	1.41
2.	R&M Cost	3.63	4.58
3.	A&G Expenditure	0.109	0.114
4.	Depreciation	11.13	12.61
5.	Interest on Long-term Loans	6.91	8.03
6.	Interest on Working Capital	0.86	1.01
7.	Return on NFA/Equity	4.52	5.82
8.	Less: Non-Tariff Income	0.05	0.05
9.	Net Revenue Requirement	28.45	33.52

3. The proposed transmission tariff for the FY 2017-18 in Rs. /MW /Day is summarized below:

Tariff Determination		FY 17-18
Aggregate revenue requirement (Rs. cr.)		33.52
Transmission Capacity (MW)		980
Energy Required at periphery		6767.96
Long/Medium Term Open Access Transmission charges (Rs./MW/Month)		2830401
Short Term Open Access Transmission charges (Rs./MW/h)		39.50

4. Copies of the filings and application referred at para - 1 above are available in the office of the Executive Engineer, Electricity Department, Transmission Division, Silvassa.

5. Interested parties may inspect/peruse the said ARR and tariff proposals and take note thereof during office hours at the office.

6. Copies of the above documents can also be obtained from the above office on payment of Rs. 100/- for each set.

7. Objections/suggestions, if any on the ARR and tariff proposal filed by Electricity Department, Transmission Division, together with supporting material may be filed with the Secretary, Joint Electricity Regulatory Commission (JERC), 2<sup>nd</sup> Floor, HSIIDC Complex, Vanijya Nikun Complex, Udyog Vihar, Phase-V, Gurgaon (Haryana) in six copies in person or through registered post. The objections/suggestions should also be marked to the Electricity Department, Transmission Division.

8. The Objections/suggestions as above should be filed in six copies and carry full name and postal address of the person sending the objections and should be supported by an affidavit duly attested. If the objection is filed on behalf of any organization or any class of consumers, same should be mentioned. It may also be specifically mentioned if the person putting in objections/comments also wants to be heard in person.

9. The Joint Electricity Regulatory Commission (JERC), after perusing the written objection received in response to this notice may invite such objector as it considers appropriate for a hearing on the specified dates which will be notified by the Commission in due course.

No. DNH/EELE/TRANS/2016/19/ 276  
Dated: 15/12/2016.

Executive Engineer (Trans),  
NO. 2010001/55.712.011

## Annexure 2: Public Notices published by the Commission for intimation of Public Hearing

### संयुक्त विद्युत विनियामक आयोग

(गोवा तथा संघ शासित क्षेत्रों के लिए)

दूसरी मंजिल, एचएसआईआईडीसी ऑफिस काम्प्लेक्स,  
खाण्डव निकांज काम्प्लेक्स,

उद्योग विहार, फेजा- V, गुडगांव (गुरुग्राम) (हरियाणा)

दूरभाष: 0124-2342851, 2342852, फैक्स: 0124-2342853

ई मेल: secy-jerc@nic.in, वेबसाइट: www.jercnts.gov.in

### सार्वजनिक सूचना

13.01.2017 को प्रकाशित सार्वजनिक सूचना के अनुसरण में संघ शासित क्षेत्र दादरा तथा नगर हवेली के हितधारकों (स्टेकहोल्डर्स) को एतद्वारा सूचित किया जाता है कि (1) विद्युत अधिनियम, 2003 की धारा 61, 62 तथा 64 के अधीन डिस्ट्रीब्यूशन, ट्रांसमिशन पावर डिस्ट्रीब्यूशन कॉरपोरेशन लि. डिस्ट्रीब्यूशन के लिए वित्त वर्ष 2017-18 हेतु एआरआर तथा टैरिफ प्रस्ताव की स्वीकृति के लिए याचिका तथा (2) विद्युत अधिनियम, 2003 की धारा 61, 62 तथा 64 के अधीन वित्त वर्ष 2017-18 के लिए ट्रांसमिशन, विद्युत विभाग (ट्रांसमिशन डिवीजन), संघशासित क्षेत्र दादरा तथा नगर हवेली के एआरआर तथा टैरिफ प्रस्ताव की स्वीकृति हेतु याचिका की सुनवाई 08.02.2017 को निर्धारित है। दोनों याचिकाएं क्रमशः याचिका क्र. 226/2017 तथा 223/2017 के रूप में प्रविष्ट की गई हैं तथा आयोग की वेबसाइट [www.jercnts.gov.in](http://www.jercnts.gov.in) पर उपलब्ध हैं।

आयोग द्वारा उपरोक्त याचिकाओं पर सार्वजनिक सुनवाई का आयोजन अधोलिखित कार्यक्रमानुसार किया जाएगा:

तिथि/वार	समय	स्थान
08 फरवरी, 2017 (बुधवार)	पूर्वा 10.00 बजे से	प्रेसीडेन्ट हॉल, यात्री निवास, सिलवासा

हस्ता/-

(कीर्ति तिवारी)

सचिव

डीएवीपी 34124/11/0019/1617