

Actual Data for FY10-11

In reference to  
Aggregate Revenue Requirement &  
Tariff Petition for FY 2011-12 (Petition no. 33/2011)

Submitted to

Joint Electricity Regulatory Commission  
Gurgaon

By

ELECTRICITY DEPARTMENT OF DAMAN & DIU  
DAMAN

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## **1 Actual data for FY10-11**

Electricity Department of Daman & Diu is submitting additional information in support of Petition no. 33/2011 indicating the actual numbers for the Aggregate Revenue Requirement (ARR) of EDDD for the FY 10-11 as against the revised estimates (submitted along with the ARR petition for FY 11-12).

## 2 Energy Sales

1. The actual number of consumers in various categories is summarized in table below:

**Table 1: Category wise number of Consumers**

Consumers	FY10-11	FY 10-11
	Revised Estimate	Actual
Domestic	44,662.0	44,862.00
Commercial	9,157.0	9,040.00
Agriculture	1,639.0	1,658.00
LT Industry	3,478.0	3,589.00
HT/EHT Industry	834.0	811.00
Public Lighting	193.0	182.00
Public Water Works	80.0	77.00
<b>Total number of consumers</b>	<b>60,043.0</b>	<b>60,219.0</b>

2. The category wise actual energy sales for FY10-11 is summarized in the table below:

**Table 2: Category wise Energy Sales (MU) for FY 10-11**

Sales (MUs)	FY10-11	FY 10-11
	Revised Estimate	Actual
Domestic	61.9	62.2
LIG/ Kutir Jyoti	0.1	0.1
Commercial	28.7	29.3
Agriculture	2.5	2.6
LT Industry	140.4	151.0
HT/EHT Industry	1347.8	1381.8
Public Lighting	4.6	4.4
Public Water Works	0.9	0.9
<b>Total Sales</b>	<b>1586.8</b>	<b>1632.95</b>

### 3 T&D Loss Reduction

Based on the actual energy sales and power purchase, the EDDD would like to submit the revised T&D loss for the year FY10-11 to the Hon'ble commission.

**Table 3: T&D Losses**

T&D Losses	FY10-11	FY 10-11
	Revised Estimate	Actual
T&D Losses (%)	11.00%	10.87%

### 4 Energy Requirement of the System

The EDDD would like to submit the revised energy requirement of the system to the Hon'ble commission. The Energy requirement has been summarized in the table below:

**Table 4: Energy Requirement of the System**

Energy Requirement	FY10-11	FY 10-11
(Million Units)	Revised Estimate	Actual
Energy Sales within State	1,587	1,632.95
T&D Losses %	196	199.21
T&D Losses	11.00%	10.87%
<b>Energy Requirement at the Periphery</b>	1,783	1,832.16
Energy Availability	1,950	1,992.60
<b>Energy Surplus / (Gap)</b>	167	160.4

### 5 Energy Availability

#### 1. Power Purchase

Electricity Department of Daman & Diu would like to submit the revised Power purchase quantum for FY10-11 to the Hon'ble commission. The actual power purchased as against the revised estimates during FY 10-11 is summarized below:

**Table 5: Power Purchase**

Source (MUs)	FY10-11	FY 10-11
	Revised Estimate	Actual
<b>NTPC Stations</b>		
KSTPP	398	396

Source (MUs)	FY10-11	FY 10-11
	Revised Estimate	Actual
VSTPP-I	105	108
VSTPP-II	79	82
VSTPP- III	95	101
KAWAS	203	225
JGPP	222	232
NTPC Bhilai Unit-I & II	790	779
Sipat	88	90
<b>Subtotal</b>	<b>1979</b>	<b>2012</b>
<b>Eastern Region</b>		
FSTPP		-
TSTPP		0
KHSTPP-II	10	11
<b>Subtotal</b>	<b>10</b>	<b>11</b>
<b>NPCIL</b>		
N.P.C.		
KAPPS	8	14
TAPP 3&4	62	76
<b>Subtotal</b>	<b>70</b>	<b>90</b>
<b>Power purchase from Other Sources</b>		
Power purchase from Indian E. Exchange		1
UI	12	17
<b>Subtotal</b>	<b>12</b>	<b>19</b>
<b>Gross Power Purchase</b>	<b>2072</b>	<b>2115</b>
External Losses	121	122
<b>Power Purchase available at the Periphery</b>	<b>1950</b>	<b>1992.60</b>

The Petitioner submits to the Commission to approve the Power Purchase level estimated in table above.

### 5.1 Energy Requirement & Availability

1. Based on the actual data collected, Electricity department of daman & Diu would like to submit the revised energy balance numbers to the Hon'ble commission.

**Table 6: Energy Balance**

Energy Balance	FY10-11	FY 10-11
(in Million Units)	Revised Estimate	Actual
Energy Sales	1587	1632.95
Add: Losses	196	199.21
<b>T&amp;D Losses</b>	<b>11.00%</b>	<b>10.87%</b>
Energy Required at Periphery	1783	1832.16
Energy Available	1950	1992.60
<b>Surplus/ (Deficit) Power</b>	<b>167</b>	<b>160.4</b>

## 5.2 Power Purchase Cost

1. The revised numbers for the power purchase cost from various sources for FY 10-11 is summarized in Table below:

**Table 7: Power Purchase Cost for FY 10-11 (in Rs. Crore)**

Particulars (Rs. Crs)	Units	Fixed Cost	Variable Cost	FPA charges	Other Charges	Total Power Purchase Cost
<b>NTPC Stations</b>						
KSTPP	395.7	10.5	18.7	14.9	5.6	49.7
VSTPP-I	107.5	3.4	8.1	8.0	3.9	23.5
VSTPP-II	81.7	4.1	6.0	5.8	2.4	18.4
VSTPP- III	101.4	7.8	9.6	5.0	2.5	24.9
KAWAS	225.3	12	23.2	31.7	3.1	69.9
JGPP	231.9	17.5	24.3	30.2	3.2	75.1
NTPC Bhilai Unit-I & II	778.7	113.7	119.9	1.3	-2.3	232.5
Sipat	90.2	7.5	6.1	1.8	1.1	16.5
<b>Subtotal</b>	<b>2012.5</b>	<b>176.5</b>	<b>215.9</b>	<b>98.7</b>	<b>19.5</b>	<b>510.52</b>
<b>Eastern Region</b>						
FSTPP	-	0.00	-	-		(0.07)
KHSTPP-II	10.97	1.2	1.38	0.82	0.30	3.69
<b>Subtotal</b>	<b>11</b>	<b>1.20</b>	<b>1.38</b>	<b>0.82</b>	<b>0.25</b>	<b>3.64</b>
<b>N.P.C.</b>						
KAPPS	14.33	0	2.66	0.05	0.00	2.70
TAPP 3&4	75.67	20.72	0.00	0.00	0.25	20.97

Particulars (Rs. Crs)	Units	Fixed Cost	Variable Cost	FPA charges	Other Charges	Total Power Purchase Cost
<b>Subtotal</b>	<b>90.00</b>	<b>20.72</b>	<b>2.66</b>	<b>0.05</b>	<b>0.25</b>	<b>23.67</b>
<b>Power Purchase Cost from Other Sources</b>			0.05			0.05
Power purchase from Indian E. Exchange	1.20		0.18			0.18
UI	17.30		9.85			9.85
<b>Subtotal</b>	<b>18.50</b>		<b>10.03</b>			<b>10.08</b>
<b>Gross Power Purchase Cost</b>	<b>2114.7</b>	<b>198.42</b>	<b>229.97</b>	<b>99.57</b>		<b>547.92</b>
Transmission Charges	<b>122</b>	33.38				33.38
Other Charges		3.95				3.95
<b>Power Purchase available at the Periphery</b>	<b>1992.60</b>					<b>585.25</b>

### 5.3 Transmission and Other Charges

1. Electricity department of Daman & Diu would like to submit the revised numbers for FY10-11 to the commission.

**Table 8: Total Power Purchase Cost for FY 10-11 (in Rs. Crore)**

Particulars (Rs. Crs)	Revised Estimate FY 10-11	Actual FY 10-11
Transmission Charges	36.46	33.38
Other Charges	0.52	3.95

## 6 Operation & Maintenance Costs

1. Operation and Maintenance expenses comprise of the following heads:
  - **Employees Expenses** which includes the wages, pension and other remunerations paid to the workforce;
  - **Repair and Maintenance (R&M) Expenses**, which include all expenditure incurred on the maintenance and upkeep of assets; and



- **Administrative and General Expenses**, which include all expenditure incurred in operating a business such as rent, salaries, telephone charges, etc.
2. The electricity department of Daman & Diu would like to submit the actual O&M for FY10-11 to the Hon'ble commission. The operation and maintenance expense is summarized in table below:

Table 9 : Operation &amp; Maintenance Expense (Rs. Crore)

Year	O&M Expense
	<b>Actual</b>
FY 10-11	11.18

### 6.1 Employee Expense

1. The actual employee cost for the FY10-11 is summarized in table below:

Table 10: Employee Expense

Employee Cost (Rs. Crore)	FY 10-11 (Revised Estimate)	FY 10-11 (Actual)
<b>Salaries &amp; Allowances</b>		
Basic Pay	2.66	2.30
Dearness Pay	0.69	0.59
Dearness Allowance	1.36	1.20
House Rent Allowance	0.28	0.25
Medical reimbursement charges	0.00	0.00
Transport allowance	0.29	0.25
L.T.C.	0.0	0.00
Children Education All.	0.04	0.04
Family Planning Allow.	0.01	0.01
Bonus	0.09	0.05
<b>Total</b>	<b>5.43</b>	<b>4.71</b>

## 6.2 Repairs & Maintenance Expense

1. The actual Repair & Maintenance Expense for FY10-11 is summarized in table below:

**Table 11: Repairs & Maintenance Expense**

Particular (Rs. Crs)	FY 10-11	
	Revised Estimate	Actual
R&M Expense	5.97	6.20

## 6.3 Total Operation and Maintenance Expense

Based on the actual employee, R&M and A&G expense, the total O&M expenditure for FY 10-11 is summarized in table below. The Hon'ble Commission is requested to approve the total O&M expense as projected by Electricity Department of Daman & Diu.

**Table 12: Total O&M Expense**

O&M Expenditure (Rs. Crs)	FY 10-11	
	Revised Estimate	Actual
Employee Cost	5.43	4.71
R&M Cost	5.97	6.20
A&G Expenditure	2.00	0.28
<b>Total O&amp;M Expenditure</b>	<b>13.39</b>	<b>11.18</b>

## 7 Capital Expenditure Plan

1. A summary of the proposed and approved capital expenditure for the past three years is summarized below:

**Table 13: Proposed and Approved Capital Expenditure**

Annual Capital Expenditure Plan	FY 10-11	FY 10-11
(Rs. Cr)	Revised Estimate	Actual
Proposed funds for Capex	90.65	90.65
Approved funds for Capex	21.53	19.1
<b>Disallowance in Capex</b>	<b>69.12</b>	<b>71.55</b>

2. Details of actual Capitalization for FY 10-11 and FY 11-12 is summarized in Table below:

**Table 14: Capital Expenditure & Capitalization for FY 10-11**

Capital Expenditure & Capitalization	FY 10-11	FY 10-11
(Rs. Crore)	Revised Estimate	Actual
Capital Expenditure	21.53	19.1
Asset Capitalization	8.61	11.15
Capital Work in Progress	10.98	10.98

## 8 Gross Fixed Assets

1. EDDD would like to submit the actual Details of GFA for FY10-11 to the Hon'ble Commission. The opening and Closing GFA and capitalization has been summarized in table below:

**Table 15: Opening and Closing GFA**

Particulars (Rs. Crs)	Opening GFA	Additions during the Year	Closing GFA
FY 2010-11 (Estimated)	277.37	19.59	296.95
FY 2010-11 (Actual)	277.37	11.55	288.92

## 9 Depreciation

- The Table below summarizes the actual asset-wise depreciation considered claimed by EDDD:

**Table 16: Depreciation**

Particulars (Rs. Crs)	FY 10-11	FY 10-11
	Revised Estimate	Actual
Opening GFA	277.37	277.37
Additions	19.59	11.55
<b>Closing GFA</b>	<b>296.95</b>	<b>288.92</b>
Average GFA	287.16	283.15
Depreciation Amount	14.32	14.11
Average Depreciation Rate	4.8%	4.9%

## 10 Interest & Financial Costs

### 10.1 Interest on Working Capital Borrowings

- Table below summarizes the actual interest on working capital -paid by EDDD for FY 10-11:

**Table 17: Interest on Working Capital**

Interest on Working Capital	FY 10-11	FY 10-11
Rs Crore	Revised Estimate	Actual
One Month Power Purchase Cost	46.38	48.77
One Month Employee Cost	1.12	0.93
One Month R&M Cost		
One Month A&G Cost		
<b>Total Working Capital requirement</b>	<b>41.83</b>	<b>49.70</b>
Rate of Interest on Working Capital	12.25%	12.25%
<b>Total Interest on Working Capital</b>	<b>5.12</b>	<b>6.09</b>

## 11 Provision for Bad & Doubtful Debts

1. As per the JERC (Terms and Conditions for Determination of Tariff) Regulations, 2009, EDDD has considered provision for Bad and Doubtful Debts as 1% of the total actual receivables in the revenue requirement for FY 10-11.
2. EDDD requests the Hon'ble Commission to approve the provision for bad & doubtful debts as summarized in the Table below:

**Table 18: Provision for Bad & Doubtful debts**

Provision for Bad & Doubtful Debts (Rs. Crs)	FY 10-11	FY 10-11
	Revised Estimate	Actual
Annual Revenue Requirement	586.75	631.37
Provision for Bad & Doubtful Debts as % of Receivables	1.00%	1.00%
<b>Provision for Bad &amp; Doubtful Debts</b>	<b>5.87</b>	<b>6.31</b>

## 12 Non-Tariff & Other Income

1. Details of the non-tariff income is provided in table below:

**Table 19: Non-tariff Income**

Particulars	FY 10-11	FY 10-11
Rs Crores	Revised Estimate	Actual
Non-tariff Income	8.96	8.65

### 13 Aggregate Revenue Requirement

1. **Error! Reference source not found.** below summarizes the EDDD's actual Aggregate Revenue Requirement for FY10-11.

**Table 20: Aggregate Revenue Requirement**

<b>Annual Revenue Requirement</b>	<b>FY 10-11</b>	<b>FY 10-11</b>
<b>(Rs. Cr)</b>	<b>Revised Estimate</b>	<b>Actual</b>
Power Purchase Cost	556.56	585.25
Previous power purchase (arrears) **	-	17.08
Employee Cost	5.43	4.71
R&M Cost	5.97	6.20
A&G Expenditure	2.00	0.28
Depreciation	14.32	14.11
Interest Cost on Long-term Capital Loans	-	-
Interest on Working Capital Loans	5.58	6.09
Return on Equity	-	-
Provision for Bad Debt	5.87	6.31
Less:		
Non-Tariff Income	8.96	8.65
<b>Annual Revenue Requirement</b>	<b>586.76</b>	<b>631.37</b>

\*\* EDDD would like to bring into the notice of Hon'ble Commission that the EDDD has received bills from the generating stations (CGS) for the previous year arrears and which EDDD also paid to them. EDDD requests the Commission to allow all the arrears paid to the generating stations in the ARR for FY 11-12. Further, Hon'ble Commission should also make some provision for the arrears payment in the FY 11-12 at the time of determination of ARR for FY 11-12.

### 14 Revenue at Existing Tariff

1. The table below summarizes the revenue from sale of power at existing tariff for FY 10-11.

**Table 21: Revenue from Sale of Power at Existing Tariff (Rs. Crore)**

Revenue @ Existing Tariff	FY 10-11	FY 10-11
(Rs Crore)	Revised Estimate	Actual
Domestic	6.5	10.1
LIG/ Kutir Jyoti	0.0	0.0
Commercial	5.1	9.4
Agriculture	0.1	0.3
LT Industry	44.9	41.2
HT/EHT Industry	350.4	478.4
Public Lighting	0.4	5.3
Public Water Works	0.2	2.2
Temp. Supply		0.3
<b>Total Revenue from Consumers</b>	<b>407.7</b>	<b>547.39</b>
Revenue from surplus Power	47.8	46.36
<b>Total Revenue</b>	<b>455.5</b>	<b>593.75</b>

## 15 Coverage of Revenue Gap

- Table below summarises the net actual revenue gap of Rs. 33.04 Crs as against the revised estimate (submitted along with the ARR for FY 11-12) of Rs. 12.26 Crs for FY 10-11.

**Table 22: Revenue Gap**

Annual Revenue Requirement	FY 10-11	FY 10-11
Rs Crore	Revised Estimate	Actual
<b>Total ARR</b>	<b>586.75</b>	<b>631.37</b>
Revenue @ Existing Tariff	523.43	547.39
Revenue from Surplus Power Sale	51.07	46.36
<b>Total Revenue</b>	<b>574.49</b>	<b>593.75</b>
<b>Revenue (Gap)/Surplus</b>	<b>(12.26)</b>	<b>(37.62)</b>

## **16 Prayer**

1. EDDD requests the Hon'ble Commission to:

- Accept the actual data for the FY10-11;
- Consider the actual data for FY 10-11 at the time of determination of ARR for FY 11-12;
- Make appropriate adjustment in the proposed retails tariff for FY 11-12, which shall also account for the revenue gap of FY 10-11;
- 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.