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

IN THE MATTER OF : Petition for Approval of Annual Revenue Requirement  
(ARR) and Tariff Proposal for FY 2013-14 for Union  
Territory of Andaman & Nicobar Islands under Sections  
61, 62 and 64 of The Electricity Act 2003

AND


IN THE MATTER OF THE :  
PETITIONER The Electricity Department, Vidyut Bhawan, Port Blair-  
744101, U.T. of Andaman & Nicobar

.....Petitioner

यमिन मुहम्मद मुरताजा - Yameen Md. Murtaza  
अतिरिक्त अभियंता / Superintending Engineer  
विद्युत विभाग / Electricity Department  
अण्डमन तथा निकोबार प्रशासन  
Andaman & Nicobar Administration



A. I. No. 3521 ... Date 27/11/12  
Name S. F. Schetty, Department  
No. Post. Blk. ....  
Purpose Agreement .....

  
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APPROVED BY: [Signature]  
DATE: 27/11/12

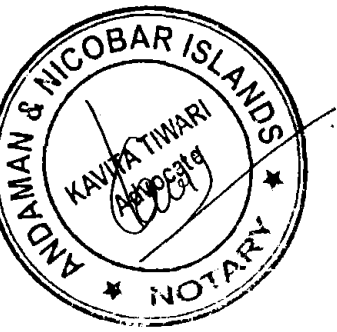
I, YameenMohd.Murtaza, son of Late M.AbdulGaffoor,(aged 60 years),(occupation) Government Service residing atAberdeen Bazar, Port Blair, Andaman & Nicobar Islands, the deponentnamed above do hereby solemnly affirm and state on oath as under:-

1. That the deponent is the Superintending Engineer of Electricity Department of Andaman & Nicobar Administration and is acquainted with the facts deposed to below.
2. I, the deponent named above do hereby verify that the contents of the accompanying petition are based on the records of the Electricity Department,Andaman & Nicobar Administration maintained in the ordinary course of business and believed by them to be true and I believe that no part of it is false and no material has been concealed there from.

Details of enclosures:

- a) Proposal for Aggregate Revenue Requirement ("ARR") for the Financial Year 2013-14 for Determination of Tariff.
- b) Petition Fee - Rs.5,29,500/- vide DD No. 44966 dated : 27.11.2012  
(The Power demand of the territory is 59 MVA and accordingly fees payable is Rs.5,00,000.00+(59 X Rs.500.00 = Rs.29,500.00) = Rs.5,29,500.00)

For The Electricity Department of A&N



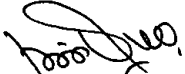
Place: Port Blair, Andaman & Nicobar,

Dated: 27<sup>th</sup> November, 2012.

Yameen Md. Murtaza  
Superintending Engineer  
Electricity Department  
अपडमान तथा निकोबार प्रशासन  
Andaman & Nicobar Administration

4352  
27/11/12

I, Krishna Rao Advocate, Shadipur, Port Blair 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 27<sup>th</sup> day of NOV.....2012 at 6:30 am /p.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.



4352  
27/11/12

Affirmed before me after the contents were read over & explained in simple ~~English~~ English

  
KAVITA TIWARI  
ADVOCATE & NOTARY  
PORT BLAIR

27/11/12



**PETITION FOR APPROVAL OF THE ANNUAL  
REVEUE REQUIREMENT AND TARIFF PROPOSAL  
FOR FY 2013-14 UNDER SECTION 61, 62 & 64 OF  
THE ELECTRICITY ACT 2003**

Submitted by:  
Electricity Department  
Andaman & Nicobar Administration  
November - 2012

**GENERAL HEADINGS OF PROCEEDINGS**

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

**FILE No:** \_\_\_\_\_

**CASE No:** \_\_\_\_\_

**IN THE MATTER OF            :**   **Petition for Approval of Annual Revenue Requirement (ARR) and Tariff Proposal for FY 2013-14 for Union Territory of Andaman & Nicobar under Sections 61, 62 and 64 of The Electricity Act 2003**

**AND**

**IN THE MATTER OF           :**   **TheElectricityDepartment, VidyutBhawan,Port Blair-744101**

**.....Petitioner**

Electricity Department of Union Territory of Andaman & Nicobar Administration (hereinafter referred to as "EDA&N"), files petition for Approval of Annual Revenue Requirement (ARR) and Tariff Proposal for FY 2013-14 under Sections 61, 62 and 64 of The Electricity Act 2003.

**AFFIDAVIT**

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

**FILE No:** \_\_\_\_\_

**CASE No:** \_\_\_\_\_

**IN THE MATTER OF** : **Petition for Approval of Annual Revenue Requirement (ARR) and Tariff Proposal for FY 2013-14 for Union Territory of Andaman & Nicobar Islands under Sections 61, 62 and 64 of The Electricity Act 2003**

**AND**

**IN THE MATTER OF** : **The Electricity Department, Vidyut Bhawan, Port Blair-744101, U.T. of Andaman & Nicobar**

**.....Petitioner**

I, Yameen Mohd. Murtaza, son of Late M. Abdul Gaffoor, (aged 60 years), (occupation) Government Service residing at Aberdeen Bazar, Port Blair, Andaman & Nicobar Islands, the deponent named above do hereby solemnly affirm and state on oath as under:-

1. That the deponent is the Superintending Engineer of Electricity Department of Andaman & Nicobar Administration and is acquainted with the facts deposed to below.
2. I, the deponent named above do hereby verify that the contents of the accompanying petition are based on the records of the Electricity Department, Andaman & Nicobar Administration maintained in the ordinary course of business and believed by them to be true and I believe that no part of it is false and no material has been concealed there from.

Details of enclosures:

- a) Proposal for Aggregate Revenue Requirement ("ARR") for the Financial Year 2013-14 for Determination of Tariff.
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(The Power demand of the territory is 59 MVA and accordingly fees payable is Rs.5,00,000.00+(59 X Rs.500.00 = Rs.29,500.00) = **Rs.5,29,500.00**)

**For The Electricity Department of A&N**

**Petitioner**

**Place:Port Blair, Andaman&Nicobar,**

**Dated: November, 2012.**

I, \_\_\_\_\_ Advocate, \_\_\_\_\_,  
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 ..... day of .....2012 at ..... a.m. /p.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.



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

FILE No: \_\_\_\_\_

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**IN THE MATTER OF**                                 **Petition for Approval of Annual Revenue Requirement (ARR) and Tariff Proposal for FY 2013-2014 for Union Territory of Andaman & Nicobar Islands under Sections 61, 62 and 64 of The Electricity Act 2003**

**AND**

**IN THE MATTER OF                                 :**  
**THE PETITIONER**   **The Electricity Department, Vidyut Bhawan, Port Blair-744101, U.T. of Andaman & Nicobar.**

**.....Petitioner**

PETITIONER, UNDER SECTIONS 61, 62 AND 64 OF THE ELECTRICITY ACT, 2003 FILES FOR INITIATION OF PROCEEDINGS BY THE HON'BLE COMMISSION FOR DECIDING ON THE MATTERS CONCERNING THE APPROVAL OF THE ANNUAL REVENUE REQUIREMENT AND TARIFF PETITION OF ELECTRICITY DEPARTMENT OF ANDAMAN & NICOBAR ADMINISTRATION (herein after referred to as "EDA&N") FOR FY 2013-14.

**THE ELECTRICITY DEPARTMENT OF ANDAMAN & NICOBAR ADMINISTRATION RESPECTFULLY SUBMITS:**

1. The Petitioner, The Electricity Department of Andaman & Nicobar Administration has been allowed to function as Distribution Utility for UT of Andaman & Nicobar.
2. Pursuant to the enactment of the Electricity Act, 2003, EDA&N is required to submit its Annual Revenue Requirement (ARR) and Tariff Petitions as per procedures outlined in section 61, 62 and 64, of EA 2003, and the governing regulations thereof.
3. EDA&N has submitted its ARR and Tariff petition for the determination of tariff for FY 2013-14 on the basis of the principles outlined in tariff regulations notified by the Joint Electricity Regulatory Commission.

4. EDA&N prays to the Hon'ble Commission to admit the attached petition for Annual Revenue Requirement and Tariff petition for FY 2013-2014 and would like to submit that:

**PRAYERS TO THE HON'BLE COMMISSION:**

1. The petition provides, inter-alia, EDA&N's approach for formulating the present petition, the broad basis for projections used, summary of the proposals being made to the Hon'ble Commission, performance of EDA&N in the recent past, and certain issues impacting the performance of EDA&N in the Licensed Area.
2. Broadly, in formulating the ARR and Tariff Petition for the FY 2013-2014, the principles specified by the Joint Electricity Regulatory Commission in the notified (Terms and Conditions of Tariff) Regulations ("Tariff Regulations") have been considered as the basis.
3. In order to align the thoughts and principles behind the ARR and Tariff Petition, EDA&N respectfully seeks an opportunity to present their case prior to the finalization of the Tariff Order. EDA&N believes that such an approach would go a long way towards providing a fair treatment to all the stakeholders and may eliminate the need for a review or clarification.
4. EDA&N may also be permitted to propose suitable changes to the ARR petition and the mechanism of meeting the revenue on further analysis, prior to the final approval by the Hon'ble Commission.

In view of the above, the petitioner respectfully prays that Hon'ble Commission may:

- Accept the Annual Revenue Requirement and Tariff petition for the FY 2013-14 for EDA&N formulated in accordance with the guidelines outlined as per the regulation of Joint Electricity Regulatory Commission relating to Distribution Licensee and the principles contained in Tariff Regulations ;
- Approve recovery of ARR of FY 2013-2014;
- Approve the category-wise tariff including fixed/ demand charges submitted by EDA&N to meet revenue requirement for FY 2013-2014;

- Approve the tariff philosophy suggestions requested by EDA&N;
- Condone any inadvertent delay/ omissions/ errors/ rounding off differences/shortcomings and EDA&N may please be permitted to add/change/ modify/ alter the petition;
- Permit EDA&N to file additional data/ information as may be necessary;
- Pass such further and other orders, as the Hon'ble Commission may deem fit and proper, keeping in view the facts and circumstances of the case.

**The Electricity Department of**

**Andaman & Nicobar administration**

**Petitioner**

**Place: Port Blair, Andaman& Nicobar Islands**

**Dated: \_\_\_\_November,2012**

## TABLE OF CONTENT

<b>1 INTRODUCTION.....</b>	<b>1</b>
1.1 Historical Perspective.....	1
1.2 Past History on Power .....	1
1.3 Power Scenario.....	2
1.4 Performance during 2011-12 .....	3
1.5 Demand of Power.....	4
1.6 Village Electrification .....	4
1.7 JERC Formation.....	5
1.8 Filing of ARR and Tariff Petition for the FY 2013-14.....	6
<b>2 OVERALL APPROACH FOR PRESENT FILING.....</b>	<b>6</b>
2.1 Annual Revenue Requirement and Tariff Petition for FY 2013-14.....	6
2.2 Approach for the Filing.....	6
<b>3. Compliance of Directives.....</b>	<b>7-14</b>
<b>4. ANNUAL FREVENUE REQUIREMENT FOR FY 2013.....</b>	<b>15</b>
4.1 Energy Requirement.....	15
4.1.1 Approach for Sales Projection.....	16
4.1.2 Category wise Sales Forecast.....	16
4.1.3 Number of Consumers.....	17
4.1.4 Distribution Losses.....	18
4.1.5 Energy Requirement & Sources of Power Purchase.....	18
4.2 Capital Expenditure & Capitalisation.....	19
4.2.1 Capital Expenditure & Capitalisation of Assets.....	19
4.3 Annual Revenue Requirement for EDA&D.....	20
4.3.1 Power Purchase.....	21
4.3.1.1 Source of Power.....	21
4.3.2 Assumption for Power Generation/Purchase Projection.....	21
4.3.3 Details Own Generation.....	22
4.3.4 Cost of Fuel.....	25
4.3.5 Transmission & Other Charges.....	25
4.4 Operation and Maintenance Expenses.....	26
4.4.1 Employee Expenses.....	26
4.4.2 Administration and General Expenses.....	27
4.4.3 Repairs & Maintenance Expenses.....	27
4.4.4 O & M Expenditure as a whole.....	28
4.5 Gross Fixed Assets.....	28
4.6 Depreciation.....	29
4.7 Capital Based Return.....	30
4.8 Interest and Financial Charges.....	30
4.8.1 Interest Capitalised.....	30
4.8.2 Interest on Working Capital .....	31
4.8.3 Interest on Security Deposit.....	32
4.9 Provision for Bad and Doubtful Debts.....	33
4.10 Return on Equity.....	33
4.11 Non-Tariff Income.....	34
4.12 Annual Revenue Requirement.....	35
4.13 Average Cost of Supply.....	35

4.14 Revenue at Existing Tariff and Gap for FY 2013-14.....	36
<b>5. TARIFF PROPOSAL FOR FY 2013-14.....</b>	<b>37</b>
5.1 Recovery of Revenue Gap for FY 2013-14.....	37
<b>6. TARIFF SCHEDULE FY 2013-14.....</b>	<b>38-43</b>
<b>6.1</b> Tariff schedule as approved in Tariff Order issued by the Hon'ble Commission on 4 <sup>th</sup> June, 2012 for the FY 2013-14.....	<b>44-49</b>

## LIST OF TABLES

Table 1.1: Power Scenario – FY 2013-14 .....	2
Table 1.2: Performance during 2011-12.....	3
Table 1.3: Demand of Power - FY 2013-14.....	4
Table 1.4: Village Electrification- FY 2013-14.....	4
Table 4.1: Projected Energy Sales - 2013-14.....	16
Table 4.2: No. of Consumers – FY 2013-14 .....	17
Table 4.3: Energy Requirement – FY2013-14.....	18
Table 4.4: Details of Power Procurement Sources – FY 2013-14.....	19
Table 4.5: Summary of Proposed Capital Expenditure & Capitalisation FY 2013-14 ..	20
Table 4.6: Power Allocation .....	21
Table 4.7: Summary of EDA&N Power Purchase Expenses for FY 2013-14.....	22
Table 4.8.1: Details of Power Stations and Generation- FY 2011.12.....	22
Table 4.8.2: Projrcted Power Generation- FY2013-14.....	24
Table 4.9: Cost of Fuel.....	25
Table 4.10: Line Data for the year- FY 2011-12.....	25
Table 4.11 Details of Transformers as on 31-03-2012.....	26
Table 4.12: O&M Expenditure – Past Trend.....	26
Table 4.13: A& G Expenditure Past Trend.....	27
Table 4.14: O&M Expenditure – FY 2013-14.....	28
Table 4.15: Gross Fixed Assets Movement .....	28
Table 4.16: Depreciation Rates as per CERC Regulation.....	29
Table 4.17: Depreciation – FY 2013-14.....	29
Table 4.18: Capital Base Return.....	30
Table 4.19: Interest Capitalised .....	31
Table 4.20: Information regarding Working Capital for the current and ensuing year .....	32
Table 4.21: Security Deposits from Consumers .....	33
Table 4.22: Return on Equity – FY 2013-14 .....	34
Table 4.23: ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14.....	35
Table 4.24: Revenue at Existing Tariff – FY 2013-14.....	36
Table 4.25: Revenue GAP at Existing Tariffs – FY 2013-14 .....	36
Table 5.1: Energy Charge – Proposed Tariff.....	39

## LIST OF ANNEXURES

## LIST OF ABBREVIATIONS

Abbreviation	Description
A&G	Administration & General
ARR	Annual Revenue Requirement
CAGR	Compound Annual Growth Rate
CD	Contract Demand
CERC	Central Electricity Regulatory Commission
CGS	Central Generating Stations
CoS	Cost of Supply
CPSU	Central Power Sector Undertakings
Crs	Crore
D/E	Debt Equity
EDA&N	Electricity Department Andaman & Nicobar Islands
FAC	Fuel Adjustment Costs
FDR	Fixed Deposits Receipts
FY	Financial Year
GFA	Gross Fixed Assets
HP	Horse Power
HT	High Tension
JERC	Joint Electricity Regulatory Commission
KV	Kilovolt
KVA	KilovoltAmps
kWh	kilo Watt hour
LT	Low Tension
LTC	Leave Travel Concession
MU	Million Units
MVA	Million VoltAmps
MW	Mega Watt
O&M	Operation & Maintenance
PLF	Plant Load Factor
PLR	Prime Lending Rate
R&M	Repairs and Maintenance
RoE	Rate of Return
Rs.	Rupees
S/s	Sub Station
SBI	State Bank of India
T&D	Transmission & Distribution
UI	Unscheduled Interchange
UT	Union Territory





## **1. INTRODUCTION**

### **1.1 Historical Perspective**

The Department of Electricity of Andaman & Nicobar Administration (“EDA&N”) is responsible for power supply in the union territory. Power requirement of EDA&N is met by own generation station and power purchase from SPCL.

Andaman & Nicobar Islands is cluster of islands scattered in the Bay of Bengal. These islands are truncated from rest of India by more than 1000 kms. The total area of the territory is 8249 sq. kms having population of 379944 as per 2011 Census provisional records & average growth rate is 6.68%. The tempo of economic development has tremendously accelerated along with all-round expansion in the areas/sectors viz. (i) Shipping Services, (ii) Civil Supplies, (iii) Education, (iv) Fisheries, (v) Tourism & Information Technology, (vi) Health, (vii) Industries, (viii) Rural Development, (ix) Social Welfare, (x) Transport, (xi) Increase in District Headquarters (xii) Central Government Department, (xiii) Public Undertaking & other offices, (xiv) Services & Utilities, (xv) Defense Establishment (xvi) Commercial Organisations/Business Center etc. Thus, these islands have reached at the take-off stage of total economical transformation. All these economic and infrastructure developments requires power as a vital input & to play a key role for achieving overall transformations.

### **1.2 Past History on Power**

Prior to independence a small steam driven reciprocating DG Generator of 100 KW Capacity was installed by the British at Ross Island in 1926. Direct current DG Set of 100 KW Capacity was installed at Port Blair during 1929. After independence two steam turbine generating sets of 550 KW each were established during 1951 in the power house at Chatham Island. The boilers were operated on wood fuel and saw dust, which were the waste product of Chatham Saw Mill and later switched over to Mangrove wood as fuel. This was the start of alternating current power supply at Port Blair.

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



**Petition for Approval of Annual Revenue Requirement & Tariff Proposal for FY 2013-2014**

The Electricity Department is operating and maintain power generation, transmission & distribution system network in these islands for providing electric power supply to general public and implements various schemes under Plan & Non Plan for augmentation of DG Generating Capacity and establishment of new power houses and T&D Systems. This department is also functioning as a Nodal Agency for implementing renewable energy programme of the Ministry of New & Renewable Energy in these islands. Presently, the department is headed by a Superintending Engineer, associated with seven EEs & around Thirty six AEs for carrying out the task of power generation, transmission & distribution to the general public including schemes under non-conventional energy sources.

**1.3 Power Scenario**

1.3.1 The salient features about development of electric power supply in these islands during last 60 years is tabulated below:

Table - 1.1

Year	Power Houses (Nos.)	Total Cap. (MW)	Gen. (MU)	Per Capita Cons. (Kwh)	Areas Electrified
1951	1	1.1	0.5	16	Port Blair
1961	1	1.1	1.6	20	Upto Garacharama
1971	10	3	4.3	27	Car Nicobar, Rangat, Mayabunder, Diglipur, Kamorta, Campbell Bay, Neil
1981	16	7.5	10.8	41	Havelock, Katchal, Baratang, Long Island, Hutbay, Nancowry
1991	32	15.7	51.9	113	Chowra, Teressa, Smith Island, Kondul, Rutland
2001	34	44	118.6	250	Pilomilo, Rutland, Little Nicobar, Bambooka, Trinket
2004	37	65.05	158	280	Safed Balu, Changua, Dering, Munak, Ponda, Trinket, Itoi
2005	42	65.05	168	280	Electrification of permanent shelter locations in Tsunami affected areas.
2006	42	66.86	183	309	
2009	43	68.46	206	458	
2010	43	81.21	228	497	
2011	43	83.71	250	492	



**Petition for Approval of Annual Revenue Requirement & Tariff Proposal for FY 2013-2014**

1.3.2 There are 43 diesel power houses at different locations in these islands having DG sets Capacity ranging from 6 KW to 5000 KW(including 20 MW IPP) and one Hydro Power Station having 5.25 MW Capacity at Kalpong North Andaman. The aggregate installed capacity is 83.71 MW as on 31.03.2012 and firm capacity of 71.27 MW.

**1.4 Performance during 2011-12**

**Table - 1.2**

1	Divisions	7 Nos.
2	No. of Employees	3154
3	Power Houses	43 Nos.
4	Installed Capacity (a) Utility 61.21 MW (b) M/s SPCL, Hyderabad(IPP) 20.00 MW	83.71
5	Generation (MU)	250.35
6	Unit Sold (MU)	198.62
7	Aggregate Peak Demand (MW)	47.00
8	T&D Losses (%)	18.03
9	HSD Oil Consumed (Including IPP) (KL)	57180
10	Lub oil Consumed (including IPP) (LT)	295617
11	Revenue Realised (Crores)	81.26
12	Average Realisation	4.09
13	Per Capita Consumption	492 Kwh
	<b><i>Transmission &amp; Distribution System</i></b>	
14	(a) HT Lines(33/11 KV)	1012 Kms.
	(b) LT Lines	3077 Kms.
	(c) Distribution Transformer	751 Nos.
	(d) Power Transformer	28 Nos.
15	Total Consumers (Nos.)	110002

1.4.1 Power supply through DG & Hydro Generating Sets is provided to population in the islands at South Andaman, Middle Andaman, Long Island, Neil Island, Havelock, Little Andaman, Car Nicobar, Katchal, and Kamorta & Campbell Bay. 100% of the villages have been electrified as on October, 2012 (last two villages electrified in 10/2012).



**Petition for Approval of Annual Revenue Requirement & Tariff Proposal for FY 2013-2014**

1.4.2 The Distribution Network has 1012Kms. of HT Lines &3077Kms. of LT Lines for providing power to 1,10,002 Consumers.The present per capita consumption is around 492 Kwh.The energy generation is around 242 MU.

**1.5 Demand of Power**

1.5.1 As per 17<sup>th</sup> Electric Power Survey of India conducted by CEA, New Delhi, the projected power requirements for A&N Islands is tabulated below:

**Table -1.3**

Categories	2008-09	2009-10	2010-11	2011-12	2012-13	2016-17	2021-22
	Actual				Forecast		
<b>Energy</b>							
Consumption (MU)	160	177	187	199	210	448	572
Requirement (MU)	209	229	241	250	265	537	665
<b>Demand</b>							
Peak Load (MW)	40	42	43	43	43	119	146
Cap. Required (MW)	68.46	74.21	81.21	83.71	83.71	169	207

**1.6 Village Electrification**

**Table -1.4**

Sl. No.	Description	No. of Villages
1	As per 2001 Census	547
2	Villages Electrified on Oct'12.	341
3	All Villages are electrified	0
4	Un-inhabited or encroached forest area	134
5	During Tsunami in December, 2004 the peripheral villages of Nicobar District washed away and the population of these villages are accommodated in the intermediate/permanent shelters which are fully electrified - thus these 72 villages not exist now.	72



## **1.7 JERC Formation**

In exercise of the powers conferred by the Electricity Act 2003 the Central Government constituted a Joint Electricity Regulatory Commission for all Union Territories to be known as "Joint Electricity Regulatory Commission for Union Territories" as notified on 2<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 Hon'ble Commission is a two-member body designated to function as an autonomous authority responsible for regulation of the power sector in the State of Goa and Union Territories of Andaman & Nicobar, Lakshadweep, Chandigarh, Daman & Diu, Dadra Nagar & Haveli and Puducherry. The powers and the functions' of the Hon'ble Commission are as prescribed in the Electricity Act 2003. The Head Office of the Commission presently is located in the district town of Gurgaon, Haryana and falls in the National Capital Region.

The Joint Electricity Regulatory Commission for the State of Goa and Union Territories started to function with effect from August 2008 with the objectives and purposes for which the Commission has been established. Presently the Hon'ble Commission is framing various regulations as mandated in the Electricity Act 2003 to facilitate its functioning. Some of the Regulations notified by the Hon'ble Commission include the following:

- JERC Conduct of Business Regulations 2009;
- JERC Establishment of Forum for Redressal of Grievances of Consumers Regulations 2009;
- JERC Appointment and Functioning of Ombudsman Regulations 2009;
- JERC Recruitment, Control and Service Conditions of Officers and Staff Regulations 2009;
- JERC Treatment of other businesses of Transmission Licensees and Distribution Licensees Regulations, 2009.
- JERC Standard of Performance Regulations, 2009.
- JERC State Advisory Committee Regulations, 2009.
- JERC Appointment of Consultants Regulation, 2009.
- JERC Open Access in Transmission and Distribution Regulations, 2009.
- JERC Terms and Conditions for Determination of Tariff Regulation, 2009.



## *Petition for Approval of Annual Revenue Requirement & Tariff Proposal for FY 2013-2014*

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### **1.8 Filing of ARR and Tariff Petition for the FY 2013-2014**

Under the provisions of Electricity Act, 2003, Licensee is required to submit its ARR and Tariff Petitions as per procedures outlined in section 61, 62 and 64 of the Act and the governing regulations of JERC thereof.

EDA&N has adopted the principles of Terms and Conditions for Determination of Tariff Regulations 2009 notified by the Joint Electricity Regulatory Commission.

Accordingly, EDA&N in the present petition is filing to the Hon'ble Commission for approval of the Annual Revenue Requirement (ARR) and Determination of Tariff for the FY 2013-14 as the Licensee as per the Electricity Act, 2003 and Determination of Tariff Regulations 2009 notified by the Joint Electricity Regulatory Commission.

Further the actual performance for FY 2011-12 and FY 2012-13(H1) has been considered as base for computation of ARR for FY 2013-14.

## **2. OVERALL APPROACH FOR PRESENT FILING**

### **2.1 Annual Revenue Requirement and Tariff Petition for FY 2013-14**

EDA&N is filing the petition for the determination of Annual Revenue Requirement and Tariff Petition for the FY 2013-14 based on the past performance and expected changes in each element of cost and revenue for the ensuing year. EDA&N has studied the past trends and taken cognisance of other internal and external developments to estimate the likely performance for FY 2013-14.

### **2.2 Approach for the Filing**

The present filing for the Annual Revenue Requirement and Tariff Petition for the FY 2013-14 is based on the principles enumerated by the Joint Electricity Regulatory Commission's (JERC) in the terms and conditions for determining of tariff, Regulations notified by the JERC. The subsequent sections provide projection for various expenses, the proposed investment plan for the year and the expected revenue projections with existing tariff for FY 2013-14 based on various tariff notifications in force in the area of supply of EDA&N.

Projections of various cost components required for determination of Aggregate Revenue Requirement for FY 2013-14 along with the rationale for estimation of such cost, the philosophy adopted by EDA&N for projecting sales, number of consumers and power generation & purchase cost for FY 2013-14 has been covered in this section.

For the purpose of projecting the financial & technical parameters for FY 2013-14, EDA&N has considered its actual performance during FY 2010-11, FY 2011-12 and FY 2012-13 (H1) as base and has projected the figures for FY 2013-14 with supporting rationales.



### **3. Compliance of Directives issued vide Tariff Order dated 4<sup>th</sup> June,2012 for the FY 2012-13**

#### **Directive 1: Filing of Review and True-up Petition for FY 2012-13:**

As per the regulation no. 8 of JERC tariff regulations 2009, the petitioner is directed to submit the Review of FY 2012-13 along with the ARR and Tariff Petition for FY 2013-14 in line with JERC regulations as modified from time to time. The Commission shall consider variations between approvals and revised estimates/pre-actuals of sale of electricity, income and expenditure for the relevant year and permit necessary adjustments/ changes in case such variations are for adequate and justifiable reasons for FY 2012-13 during Review.

After audited accounts of FY 2012-13 are made available; the Commission shall undertake similar exercise as mentioned above with reference to the final actual figures as per the audited accounts. This exercise with reference to audited accounts shall be called 'Truing Up', for which True-up petition should be submitted along with audited accounts for consideration by the Hon'ble Commission.

#### **Compliance:**

Account for the period April'12 to September'12 is under compilation. Review petition will be filed after preparation accounts for the period. Hon'ble Commission may kindly allow the same.

#### **Directive 2: Fuel and Power Purchase Cost Adjustment Formula (FPPCA):**

FPPCA formula is under finalization and will be separately notified. It is seen that in the case of A&N, majority of the generation is diesel based, making per unit cost of generation very high compared to other utilities. In view of this, the approved tariff is not covering the full cost of supply. Historically, there has been substantial gap between the actual cost of supply and revenue realized. This gap so far has been borne by the administration of A&N.

Keeping the above fact in view, the Commission is of the view that any variation is power purchase cost (including variation in cost of their own generation) should, for the time being, be borne by the utility. Further the utility is directed to propose a scheme for sharing of the increase in power purchase cost with the consumers for Commission's consideration and approval.



## *Petition for Approval of Annual Revenue Requirement & Tariff Proposal for FY 2013-2014*

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### **Compliance:**

The EDA&N is not proposing to share the increase in Power Purchase cost with the consumers during year 2012-13. This shall for the time being be borne by the EDA &N. It is submitted that the Hon'ble Commission may kindly approve the same.

### **Directive 3: Preparation of Fixed Asset Register:**

ED A&N has stated that the complete updated data of fixed assets is not available. Unless the function wise, asset wise data is updated, correct asset value and depreciation thereon cannot be ascertained.

The petitioner is directed to submit the updated fixed asset register in line with JERC regulations as modified from time to time, with next ARR & Tariff Petition.

### **Compliance:**

Hiring of consultants for preparation of fixed assets register in line with JERC regulations is under process. Records are required to be collected & compiled from various power houses spread across A&N Islands. In view of the above EDA&N prays for more time to comply with the directive.

### **Directive 4: Load forecasting study:**

The Petitioner is directed to conduct a detailed load forecasting study for short term (2-5 years), medium term (7-10 years) and long term (15-25 years) in order to understand the load requirements in their area at various periods and submits to Commission along with next tariff petition.

### **Compliance:**

The Central Electricity Authority (CEA), New Delhi under MOP, Govt. of India had conducted 18<sup>th</sup> EPS (Electric Power Survey) and submitted report containing forecast detail of A&N Islands also (Copy attached as **Annexure - I**).

### **Directive 5: Optimization of Fuel Cost**

There are 135 no. of diesel generating sets excluding 4 DG sets of M/s SPCL located in 29 islands of Andaman & Nicobar catering to their electricity needs; the capacity of diesel generating sets of ED A&N varies from 12 KW to 2500 KW. The diesel is generally received in bulk in big tankers, thereafter it is transported to various islands in drums. Obviously, there are losses in transportation, storage and handling of which no assessment is available. It is





## *Petition for Approval of Annual Revenue Requirement & Tariff Proposal for FY 2013-2014*

understood that presently there is no system through which actual fuel consumption per generating station can be ascertained for generation of one unit of energy. In fact, there should also be proper accounting of generating unit wise fuel receipts & issues.

The ED A&N is directed to evolve a system of accounting of fuel received at port, dispatched island wise, actual quantity received on the islands and actual quantity consumed island wise for generating electricity; so that actual fuel consumption per unit generation along with the variation could be worked out. Accordingly the petitioner is directed to furnish such details along with the next filing.

### **Compliance:**

As per the Directive of the Hon'ble Commission the ED, A&N has already implemented a system of accounting of power house wise fuel consumption and actual fuel consumption per unit of generation is being submitted.

### **Directive 6: Bill Payment:**

The Petitioner is directed to explore options for multiple payment points/gateways for online collection and status of existing system of bill payment be submitted within three months.

### **Compliance:**

Collection of energy bill through 10 Consumer Service Centre (CSCs) under National e-Governance Programme has already been started in Port Blair Municipal area for the benefit of domestic consumers since December' 2011. For remaining consumers the same is under process. Online process is not in place and will be implemented in the 2<sup>nd</sup> phase.

### **Directive 7: Collection of Arrears:**

The Petitioner is directed to analyze the outstanding dues, bad debts etc. & construct a data base of such consumers including the particulars like amount, aging schedule and category. The Petitioner should identify those consumers having an outstanding of Rs. 50 thousand and above for more than six months from the due date.

### **Compliance:**

Outstanding dues & unrecoverable dues are being analysed and identification of outstanding of Rs. 50,000/- and above and more than six months from the consumers will be done. Compliance will be submitted to the Hon'ble Commission after completion of the exercise.



***Petition for Approval of Annual Revenue  
Requirement & Tariff Proposal for FY 2013-2014***

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**Directive 8: Rural Electrification:**

The Petitioner is directed to submit the status of rural electrification in their area along with the detailed plan for rural electrification with the timeline proposed to achieve the complete electrification of rural area as per definition of electrification in the Rural Electrification Policy.

**Compliance:**

100% of the villages have been electrified as on October, 2012 (last two villages electrified in 10/2012.)

**Directive 9: Capital expenditure:**

The Petitioner is directed to submit the detailed statement of capital expenditure incurred and capitalization for every quarter, within 15 days in the subsequent quarter.

**Compliance:**

Statement enclosed as Annexure -II

**Directive 10: Metering of consumer installations / replacement of Non-Functional or defective Meters:**

Under Section 55 (1) of Electricity Act 2003, no licensee shall supply electricity after expiry of 2 years from the appointed date except through installation of correct meter in accordance with the regulation to be made in this behalf by the authority. Accordingly, metering is required to be done in line with CEA (installation and operation of meters) Regulations 2006 to all consumers. ED A&N is directed to submit an action plan regarding installation/replacement of meters by 30th October 2012.

**Compliance:**

100% metering has been done. Action plan is furnished below for replacement of defective meters. It is submitted that all the non-functional/ defective meters in operational area of the department shall be replaced within the schedule as provided below.

Sl. No.	Date	%
1	31/03/2013	10
2	31/03/2014	50
3	31/03/2015	40



## *Petition for Approval of Annual Revenue Requirement & Tariff Proposal for FY 2013-2014*

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### **Directive 11: Strengthening of the Consumer redressal system:**

The Commission directs the petitioner to find a way to dispose all pending application as per provision under section 43 of the Electricity Act, and relevant JERC Regulations, other than the cases pending due to lack of documentary evidence of legal heirs after the death of original owner of the premises.

The Commission also direct to follow the Standard of Performance notified by the Commission strictly and the status report are submitted for all the new/shifting connection application's pending with the reason for their pendency by more than 45 days.

The petitioner is directed to promote and give publicity to the functioning of the Consumer Grievance Redressal Forum, so that each consumer could approach to CGRF, for redressal of their grievances regarding electricity unresolved complaints/concerns.

Commission directs the petitioner to publicize the benefit to consumers, highlighting the steps and necessary documents required & to initiate the action on the following:

- Complaint against fast meters / defective meters.
- Application for Shifting of electricity connection.
- Application for New Connection.
- Complaint regarding no-supply.
- Any other complaints.

Commission further directs to prepare monthly/ quarterly schedule for visit to different Islands by officers i.e. S.D.O., Ex. En., and SE A&N to hear and settle the public grievances and complaints of Electricity at spot so that no consumer is forced to visit to the Port Blair.

### **Compliance:**

The directive of the Hon'ble Commission in this regard is being complied. Schedule for visit to different Islands by officers of the EDA&N to hear and settle the public grievances and complaints of electricity has been made & the same is being followed.



## *Petition for Approval of Annual Revenue Requirement & Tariff Proposal for FY 2013-2014*

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### **Directive 12: Demand Side Management and Energy Conservation:**

The petitioner should focus on Demand Side Management and Energy Conservation particularly in context of Peak load. ED A&N is directed to conduct a detailed study on demand side management and energy conservation for efficient use of electricity by various means. An action plan for the same shall be submitted by ED A&N to the Commission by 30<sup>th</sup> October 2012.

#### **Compliance:**

The ED, A&N has already taken initiatives in this regard. Energy Conservation schemes are being implemented. Action plan for the same will be submitted by 31.12.2012. It is submitted that Hon'ble Commission may kindly allow the same.

### **Directive 13: Exploration of Alternative sources of Electrical Energy:**

Commission observed that there is huge dependency on diesel for generating electricity, which not only increased the average cost of supply but also puts a burden on the utility's financial health. Commission has noticed that the Petitioner has taken few initiatives in this regard but the firm execution is required so as to speed up the process of their construction and achievement of commercial operation date in the given timelines. Therefore, it is inevitable for this distribution licensee to explore alternative sources of Power, and also consumer's contribution in this regard is required in terms of installation of roof top solar, wind or hybrid equipment's to reduce their load on the existing power stations of the utility.

The petitioner is directed to submit a quarterly progress report for the initiatives taken in this regard so as to speed up the process of its execution.

#### **Compliance:**

Reports of initiatives taken for renewable energy sources are attached as **Annexure - III**.

### **Directive 14: Energy Audit:**

The Petitioner is directed to get an Energy Audit conducted to assess actual technical and commercial losses. The Energy audit of generating stations is also required for an actual assessment of losses. Based on the studies, ED A&N shall propose reduction of losses in subsequent years along with the investment required for reduction of such losses and augmentation of transmission and distribution system. Effective technical and administrative measures shall be taken to reduce the commercial losses.



## *Petition for Approval of Annual Revenue Requirement & Tariff Proposal for FY 2013-2014*

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The action plan for energy audit and loss reduction measures shall be furnished to the Commission by 30<sup>th</sup> October 2012.

### **Compliance:**

The appointment of agency is under process. Energy audit is required to be done by visiting various Islands and will take time to get completed. The Hon'ble Commission may kindly allow to submit the report along with next ARR.

### **Directive 15: Management Information System:**

Commission observes that the petitioner is not maintaining the sales and revenue data in the regulatory formats specified in the JERC tariff regulations. The slab wise and category wise data is required to be maintained monthly for proper analysis of sales and revenue.

The Petitioner is directed to take steps to build credible & accurate and verifiable data base and management information system (MIS) to meet the requirements for filing ARR & Tariff Petition as per regulatory requirement of the Commission.

The ED A&N should conduct a study for a computerization of data and shall give a proposal for the same along with an action plan with target dates.

### **Compliance:**

Study for computerization is being done. Action plan and target will be submitted to the Hon'ble Commission will be submitted after completion of the study.

### **Directive 16: Annual Statement of Accounts:**

Commission observes that the department of Andaman & Nicobar is not maintaining the separate accounts for the electricity business. The Petitioner is directed to segregate the accounts pertaining to Electricity business as per the Electricity Act 2003 and get them duly audited.

### **Compliance:**

EDA&N has already compiled the Annual Accounts upto FY 2010-11 and same also been Audited. Annual Accounts for FY 2010-11 is attached. **Annexure -IV**



## *Petition for Approval of Annual Revenue Requirement & Tariff Proposal for FY 2013-2014*

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**Directive 17: Statement of Cross-Subsidy:** As per the regulation 6 of JERC tariff regulations 2009:

*(1) “Cross-subsidy for a consumer category” in the first phase (as defined in subregulation 2 below) means the difference between the average realization per unit from that category and the combined average cost of supply per unit expressed in percentage terms as a proportion of the combined average cost of supply. In the second phase (as defined in sub-regulation 2 below) means the difference between the average realization per unit from that category and the combined per unit cost of supply for that category expressed in percentage terms as a proportion of the combined cost of supply of that category.*

*(2) The Commission shall determine the tariff to progressively reflect the cost of supply of electricity and also reduce cross subsidies within a reasonable period. To this purpose, in the first phase the Commission shall determine tariff so that it progressively reflects combined average unit cost of supply in accordance with National Tariff Policy. In the second phase, the Commission shall consider moving towards the category-wise cost of supply as a basis for determination of tariff.*

As per the regulation 6 of JERC Tariff regulations 2009 for Cross subsidy, the petitioner is directed to provide the detailed statement of cross-subsidy prevailing in the Andaman & Nicobar Islands as per the present arrangements and road-map for reduction of the cross-subsidies within a reasonable period to be submitted along with the next ARR and Tariff Petition. The road map shall be decided in the public hearing for next ARR and Tariff petition in consultation with stakeholders.

**Compliance:**

The road map being notified by JERC by regulation on “Principles for determination of road map for Cross-subsidy reduction for Distribution Licensees) Regulations-2012 will be implemented in A&N Islands.

**Directive 18: Cost of Power Generation:**

Commission observes that the department of Andaman & Nicobar is not maintaining the separate accounts for their Diesel generating sets, Hydro and Solar plants. Commission directs the petitioner to provide separate details of cost of Power Purchase and final arrived tariff from the following stations/sets:

- i. Power Purchase Cost and Tariff from each Diesel Generating set.
- ii. Power Purchase Cost and Tariff from Hydro – Generating Station.
- iii. Power Purchase Cost and Tariff from Solar Power Plant.
- iv. Power Purchase Cost and Tariff from other Renewable Power Plants.

**Compliance:**

Detailed statement of cost of power purchase & generation is attached **Annexure -V**.



## **4. ANNUAL REVENUE REQUIREMENT FOR FY 2013-2014**

This section outlines the Annual Revenue Requirement of the EDA&N for FY 2013-14, which takes into consideration:

- i. Actual Performance in FY 2010-11;
- ii. Actual Performance in FY 2011-12;
- iii. Estimated Performance for FY 2012-13 based on the Actual performance for the period 01.04.2012 to 30.09.2012;
- iv. Projection for FY 2013-14 based on the Actual performance in FY 2010-11&2011-12 and estimated performance in FY2012-13;
- v. Principles outlined in Tariff Regulations of JERC.

Past trends have been taken into cognisance in case of certain elements as deemed necessary. The present section has been structured in the following manner:

- Determination of Energy Requirement
  - Sales Projections
  - Loss Trajectory
  - Energy Balance
- Proposed Capital Expenditure and capitalization
  - Scheme wise details
    - Capital Expenditure
    - Asset Capitalisation
- Determination of the Annual Revenue Requirement
  - Power Generation/Purchase Costs
  - Transmission Charges
  - Operation and Maintenance Expenses
  - Administration & General expenses
  - Depreciation
  - Interest charges (including interest on working capital)
  - Return on NFA/Equity
  - Provision for Bad and Doubtful Debts
  - Return on Equity

### **4.1 Energy Requirement**

The energy requirement of the license area is determined based on the expected sales in the area during the period under consideration and the expected distribution losses in the network. Accordingly, the energy requirement projected by the EDA&N for the FY 2013-14 is as given in the succeeding paragraphs.



## *Petition for Approval of Annual Revenue Requirement & Tariff Proposal for FY 2013-2014*

### 4.1.1 Approach for Sales Projection

The consumer base of EDA&N consists of Domestic, Commercial and Industry, consumers. Sales mix is primarily dominated by Domestic consumers, followed by Commercial consumers. The total consumption for Domestic consumers is approximate 47 percent and Commercial consumers contribute to around 27.17 percent of total sales. Thus, the sales forecast would completely depend on the sales expected in the Domestic & Commercial Category.

The sales forecast is based on the trends observed in the sales pattern of various categories over the past years, new developments on account of Government Policies, Socio economic changes, industrial growth, etc. that would affect consumption across various categories of consumers. The CAGR (%) for period of five years (FY 2011-12 over FY 2007-08) for different categories has been adopted forestimating the energy sales for the FY 2012-13 & for projecting the energy sales for FY 2013-14. Energy sales towards temporary connections has been added to commercial category as it observed that temporary connection are predominantly availed for commercial purposes. Consumption in temporary connection category in 2011-12 was 0.93 MUs. The same has been assumed for the year FY 2012-13 & FY 2013-14 as CAGR for the category reflected abnormal growth trend. In addition to this, the growth trend in number of consumers and connected load have been taken as guiding factors in arriving at the requirement of demand and energy.

### 4.1.2 Category wise Sales Forecast

Based on the methodology outlined above, the projected energy sales of various categories of consumers for FY 2013-14 are given below:

Table 4.1: Projected Energy Sales – FY 2013-2014

Category	Sales in MU's						Assumed Growth Rate for FY 2012-13 & FY 2013-14	Sales in MU's for FY 2013-14 (Estimates)
	FY 2007-08 Actuals	FY 2008-09 Actuals	FY 2009-10 Actuals	FY 2010-11 Actuals	FY 2011-12 Actuals	FY 2012-13 Estimated		
Domestic	72.16	75.49	83.96	90.2	93.98	99.08	5.42%	104.46
Commercial	39.15	42.61	49.12	52.17	54.02	57.55	6.65%	61.31
Industry	8.03	7.67	8.72	8.64	10.89	11.57	6.28%	12.30
Bulk	22.44	25.4	25.99	26.02	29.57	31.25	5.67%	33.02
Public Lighting	7.35	8.62	8.36	9.15	9.26	9.69	4.72%	10.15
Irrigation, Pumps & Agriculture	0.72	0.69	0.74	0.83	0.90	0.94	4.60%	0.98
<b>Total</b>	<b>149.85</b>	<b>160.48</b>	<b>176.9</b>	<b>187.01</b>	<b>198.62</b>	<b>210.09</b>		<b>222.23</b>





*Petition for Approval of Annual Revenue  
Requirement & Tariff Proposal for FY 2013-2014*

### 4.1.3 Number of Consumers

The forecast of number of consumers is based on the trends observed in the connections pattern of various categories over the past years, new developments on account of Government Policies, Socio economic changes, industrial growth, etc. that would affect consumption across various categories of consumers. The CAGR (%) for period of five years (FY 2011-12 over FY 2007-08) for different categories has been adopted for estimating the number of consumers for the FY 2012-13 & for projection for the FY 2013-14. However, normalization has been undertaken for certain categories where an abnormal rise or reduction has been observed Temporary Connections has been added to commercial category as it observed that temporary connection are predominantly availed for commercial purposes. The number of consumers estimated for the FY 2013-14 are tabulated below:

Table 4.2: No. of Consumers – FY 2013-14

Category	No. of Consumers							
	FY 2007-08 Actuals	FY 2008-09 Actuals	FY 2009-10 Actuals	FY 2010-11 Actuals	FY 2011-12 Actuals	FY 2012-13 Estimated	% Increase	FY 2013-14 Projected
<b>Domestic</b>	65282	67990	76479	81741	91843	98333	7.07%	105281
<b>Commercial</b>	14677	15160	15626	16131	16822	17220	2.77%	17627
<b>Industry</b>	450	451	461	457	493	502	1.85%	511
<b>Bulk</b>	40	46	44	48	55	59	6.67%	63
<b>Public Lighting</b>	346	375	434	505	552	606	9.78%	665
<b>Irrigation, Pumps &amp; Agriculture</b>	161	211	177	186	237	256	8.00%	276
<b>Total</b>	<b>81014</b>	<b>84116</b>	<b>92660</b>	<b>98070</b>	<b>110002</b>	<b>116975</b>		<b>124424</b>



#### 4.1.4 Distribution Losses

EDA&N has achieved a significant reduction in distribution losses during recent years. EDA&N submits that the system improvement works executed every year under the plan schemes have also contributed to the reduction of distribution losses. However, it may also be noted that reduction of distribution losses may not be possible beyond a certain level due to topographical conditions and technical limitation the distribution losses in the EDA&N distribution network have been in the range of approximately 19% to 20% in the past. For the purpose of FY 2013-14 ARR, the losses have been retained at 18.03 for the FY 2012-13 and FY 2013-2014 respectively.

#### 4.1.5 Energy Requirement & Sources of Power Purchase

Accordingly, the energy requirement for EDA&N is estimated based on the retail sales projections, grossed up by estimated loss levels.

According to the energy balance expected for the FY 2013-14 is as given below:

Table 4.3: Energy Requirement – FY2013-14

Energy Balance	FY 2011-12 (Actual) MU's	FY 2012-13 (Estimates) MU's	FY 2013-2014 (Projected) MU's
<b>ENERGY REQUIREMENT</b>			
<b>Energy Sales</b>			
LT Supply	198.62	210.09	222.23
HT Supply	0	0	0
<b>Total Energy Sales</b>	198.62	210.09	222.23
<b>Overall T &amp; D Losses %</b>	<b>18.03</b>	<b>18.03</b>	<b>18.03</b>
Overall T & D Losses (MUs)	43.70	46.22	48.89
<b>Total Energy Requirement</b>	<b>242.31</b>	<b>256.31</b>	<b>271.12</b>
<b>ENERGY AVAILABILITY AT PERIPHERY</b>			
<b>Power Purchase</b>	136.96	149.71	158.36
Own Generation	105.36	106.59	112.75
<b>Total Energy Availability</b>	<b>242.31</b>	<b>256.31</b>	<b>271.12</b>
<b>ENERGY SURPLUS/(GAP)</b>	<b>NIL</b>	<b>NIL</b>	<b>NIL</b>



## *Petition for Approval of Annual Revenue Requirement & Tariff Proposal for FY 2013-2014*

The energy requirement of EDA&N is mainly met from own generation and power purchase from M/s SuryaChakra Corporation Limited. There is no availability of power from Central Generating Stations or from other sources/ open market/ power exchanges, etc. Own generation accounts for around 40.08% & 43.48 % of the total power requirement for FY 2010-11 & 2011-12 respectively and power purchase accounts for around 59.20% & 56.52 of the total power requirement for 2010-11 & 2011-12 respectively and is estimated that approximately 41.59% & 58.41% of the total energy requirement for FY 2012-13 shall be met by own generation and power purchase respectively. The present scenario is likely to continue and is projected that approximately 41.59 % & 58.41 % of the total energy requirement for FY 2013-14 shall be met by own generation and power purchase respectively.

The expected power generation/procurement sources for FY 2013-14 are provided in the table below.

Table 4.4: Details of Power Procurement Sources – FY 2013-14

<b>Energy Balance</b>	<b>FY 2011-12 (Actual) MU's</b>	<b>FY 2012-13 (Estimated) MU's</b>	<b>FY 2013-2014 (Projected) MU's</b>
<b>Power Purchase</b>	136.96	149.71	158.36
<b>Own Generation</b>	105.36	106.59	112.75
<b>Total</b>	<b>242.31</b>	<b>256.31</b>	<b>271.12</b>

It is requested to Hon'ble Commission to kindly approve the power purchases as outlined below. The estimated cost for such power purchases has been discussed in subsequent sections.

## **4.2 Capital Expenditure & Capitalisation**

### **4.2.1 Capital Expenditure & Capitalisation of Assets**

EDA&N has undertaken significant capital expenditure during FY 2011-12 and has plans to implement schemes for development of infrastructure during FY 2012-13 & FY 2013-14. The infrastructure inherited by EDA&N is insufficient to cater to the present load and hence to meet the increasing demand, capital expenditure is absolutely necessary.



## *Petition for Approval of Annual Revenue Requirement & Tariff Proposal for FY 2013-2014*

The objective of incurring the capital expenditure is to continue the upgradation and strengthening of the distribution network to meet the desirable standards of performance and provide better network reliability and sustainable performance to the consumers of EDA&N.

The capital expenditure plan envisaged will also assist in reducing system losses. EDA&N proposes to incur the capital expenditure of Rs.54.15 Crores for FY 2012-13. Out of total capital expenditure of Rs. 54.15 Crores, Rs.30.00 Crores are to be capitalized during the FY-2012-13. The details of the capital expenditure schemes proposed in FY 2013-14 are outlined in Format-5.

Further, estimated capital expenditure for FY 2013-14 is Rs.140.36 Crores. Out of the total capital expenditure during the year and capital work in progress on account of ongoing schemes, EDA&N based on the progress of the works proposes to capitalise assets amounting to Rs. 35.52 Crores. The details of the schemes being capitalised are provided in ARR Format No. 6 & 7. Accordingly, the summary of the proposed capital expenditure and capitalisation is outlined below:

Table 4.5: Summary of Proposed Capital Expenditure & Capitalisation FY 2013-14

Sr. No.	Particulars	Previous year (actual) 2011-12	Current year (RE) 2012-13	Ensuing year (projections) 2013-14
1	2	3	4	5
1	Opening balance	303.23	354.87	379.02
2	Add: New investments	73.78	54.15	140.36
3	<b>Total</b>	<b>377.01</b>	<b>409.02</b>	<b>519.38</b>
4	Less investment capitalized	22.14	30.00	35.52
5	Closing balance	354.87	379.02	483.85

### 4.3 Annual Revenue Requirement for EDA&N

Based on the provisions of the Tariff Regulations, the estimate for the Annual Revenue Requirement (ARR) would consist of the following elements:

- Power Generation/Purchase Costs
- Transmission Charges
- Operation and Maintenance Expenses
- Administration & General expenses
- Depreciation



## *Petition for Approval of Annual Revenue Requirement & Tariff Proposal for FY 2013-2014*

- Interest charges (including interest on working capital)
- Return on NFA/Equity
- Provision for Bad and Doubtful Debts
- Return on Equity

The above Annual Revenue Requirement is netted off for Non-Tariff Income for determining the net ARR for EDA&N.

### **4.3.1 Power Purchase**

#### **4.3.1.1 Source of Power**

EDA&N has 43 own generating stations and meets around 50% its total energy requirement from own generation. Balance requirement of power is met from purchase from SPCL. The present power availability/allocation of EDA&N is as listed below:

Table 4.6: Power Availability

<b>Generating Station</b>	<b>Purchase of Power (MW)</b>	<b>Own generation (MW)</b>	<b>Total Availability (MW)</b>
<b>Purchase</b>			
SPCL	20		20
<b>Own Generation</b>			
Diesel		58.46	58.46
Hydro		5.25	5.25
Solar		0.00	0.00
<b>Total</b>	<b>20</b>	<b>63.71</b>	<b>83.71</b>

#### **4.3.2 Assumption for Power Generation/Purchase Projection**

The merit order dispatch principles are typically adopted when determining the power purchases from various generating stations. However, present case there is only one source of purchase of power and 100% of its generation is available to EDA&N. Accordingly, EDA&N has considered utilization /purchase of the entire power available from all the possible sources during FY 2013-14 to meet the demand to the extent possible.



**Petition for Approval of Annual Revenue Requirement & Tariff Proposal for FY 2013-2014**

Power Purchase cost is a function of the energy requirement and price of available power from the different sources for meeting the energy requirement. The energy requirement of EDA&N for FY 2013-14 is proposed to be met from own generation & power purchase from SPCL.

EDA&N has projected the quantum of power generation from own generating stations based on the units generated for the FY2010-11&2011-12. The details of the computation of power generation and purchases are provided in Format-4 of the formats submitted along with the filing.

Considering the above the Hon'ble Commission is requested to allow the power purchase costs as estimated by EDA&N for FY 2013-14:

Table 4.7: Summary of EDA&N PowerPurchase Expenses for FY 2013-14

Source	Purchase	Polled losses	Energy recd. by Licensee (MU)	FC (Rs. crores)	VC (Rs.crore)	Others (Rs. crore)	Total (Rs.crore)	Avg. cost (Rs./unit)
SPCL	158.36	0	158.36	16.38	171.51	187.89	187.89	11.86
<b>Total</b>	<b>158.36</b>	<b>0</b>	<b>158.36</b>	<b>16.38</b>	<b>171.51</b>	<b>187.89</b>	<b>187.89</b>	<b>11.86</b>

### 4.3.3 Details Own Generation

Details own Generating Stations with Installed Capacity and type of plant and station wise units generated is provided below:

Table 4.8.1: Details of Power Stations and Generation- FY- 2011-12

Sl.No.	Name of the Station	Type of plant i.e. steam TG/GT/ GTCC/ DG ro/Solar/Wind Mill/ Any Other	Installed Capacity (No, of Units X Capacity of each Unit)		Energy Source (Coal/Gas/ Naptha/LS HS/ Diesel /Hydro/ Others)	Units Generated
			(MWh)			
A	B	E	F		H	
1	Chatham	DG Set	15000	5x3000	Diesel Diesel Diesel Diesel	19.35
2	Phoenix Bay	DG Set	8000	2x1000	Diesel	26.49



**Petition for Approval of Annual Revenue Requirement & Tariff Proposal for FY 2013-2014**

				5x1200	Diesel	
3	Raj Niwas	DG Set	512	2x256	Diesel	1.67
					Diesel	
4	Secretariat	DG Set	256	1x256	Diesel	0.48
5	Niel Island	DG Set	634	2x217	Diesel	17.43
		DG Set		2x100	Diesel	
		<b>Solar</b>		1x50	<b>Solar</b>	
6	Havelock	DG Set	1330	5x266	Diesel	33.84
		<b>Solar</b>		1x50	<b>Solar</b>	
7	Rut Land	DG Set	12	1x12	Diesel	29.11
8	Baratang	DG Set	512	2x256	Diesel	7.93
9	Rangat	DG Set	10036	4x800	Diesel	24.14
				5x1000	Diesel	
				1x100	Diesel	
				1x128	Diesel	
10	Long Island	DG Set	892	3x128	Diesel	6.35
				2x65	Diesel	
11	Hanspuri	DG Set	27	1x12	Diesel	7.42
				1x15	Diesel	
12	JagannathDera	DG Set	43	1x24	Diesel	11.94
				1x18	Diesel	
13	PachimaSagar	DG Set	180	2x65	Diesel	6.52
14	Smith Island	DG Set	45	1x24	Diesel	11.96
				2x15	Diesel	
15	KHEP	<b>Hydro</b>	5250	3x1750	<b>Hydro</b>	24.64
16	Sita Nagar	DG Set	2368	3x256	Diesel	5.90
17	Hut Bay	DG Set	6650	2x256	Diesel	15.22
				3x800	Diesel	
18	Dugon Creek	DG Set	47	2x16	Diesel	7.11
				1x15	Diesel	
19	Car Nicobar	DG Set	5920	7x256	Diesel	15.65
				1x128	Diesel	
20	Kamorta	DG Set	1024	3x256	Diesel	21.66
21	Pilpillow	DG Set	56	1x24	Diesel	9.24
				1x32	Diesel	
22	Kakana	DG Set	56	1x24	Diesel	0.07
				1x32	Diesel	
23	Champion	DG Set	295	3x65	Diesel	10.25
				2x50	Diesel	
24	Katchal	DG Set	924	1x406	Diesel	13.23
25	Upper Katchal	DG Set		2x12	Diesel	



**Petition for Approval of Annual Revenue Requirement & Tariff Proposal for FY 2013-2014**

26	Mildera	DG Set		3x50	Diesel		
27	NTPC Katchal	DG Set		3x250	Diesel		
28	Bengali, Terresa	DG Set	756	3x50	Diesel	10.28	
				1x256	Diesel		
29	Miniyuk, Teressa	DG Set		1x50	Diesel		
30	Chukmachi, Teressa	DG Set		1x32	Diesel		
				1x12	Diesel		
31	Chowra	DG Set	164	4x32	Diesel	15.38	
32	Campbell Bay	DG Set	2706	3x800	Diesel	17.88	
				1x256	Diesel		
				1x50	Diesel		
33	Strait Island	DG Set	15		Diesel	25.31	
<b>Total</b>						<b>396.45</b>	

**Summary of units generated**

The Generation forecast is based on the plant availability and energy demand for the period. Accordingly generation for FY 2012-13 & FY 2013-14 is estimated.

Table 4.8.2: Projected Power Generation- FY 2013-14

Units Generated & Sent Out (MUs)							
	FY 2007-08	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14
Units Generated	88.34	79.28	94.28	99.24	109.41	110.26	116.63
Auxiliary Consumption	3.04	3.43	3.57	4.14	4.05	3.67	3.88
Sent Out	85.3	75.84	90.72	95.09	105.36	106.59	112.75





**Petition for Approval of Annual Revenue  
Requirement & Tariff Proposal for FY 2013-2014**

**4.3.4 Cost of Fuel:**

Out of total generation of 105.36 MUs in FY 2011-12, 98.07 MUs were generated from Diesel power houses and only 11.33 MUs were generated from Hydro Power Station. Hence cost of fuel (HSD and lubricants) is a major component of the cost of generation. Details of cost of fuel are provided below:

**Table 4.9**

Cost of Fuel			
Type of Fuel	FY 2011-12 (Crores)	FY 2012-13 (Crores)	FY 2013-14 (Crores)
HSD	89.96	98.65	112.00
Lubricant	2.05	2.29	2.60
Total	92.02	100.93	114.60

Cost of fuel for FY 2012-13 is estimated at the rate fuel cost for the month of September 2012. Cost of fuel for FY 2013-14 has been projected by escalating per unit cost of fuel for FY 2012-13 by 5%.

Considering the above the Hon'ble Commission is requested to allow the cost of fuel as estimated by EDA&N for FY 2013-14.

**4.3.5 Transmission and Other Charges**

There are no separate transmission charges as the transmission and distribution system is being operated & maintained by EDA&N and same is included in operation and maintenance cost. Details of Transmission & Distribution system is provided in the table below:

**Table 4.10**

Line Data for the year 2011-12	
Category	KM
<b>HT Line</b>	
33 KV	408
11KV	604
Sub Total	1012
<b>LT Line</b>	
415 KV	3077
Sub Total	3077
Total	4089



**Petition for Approval of Annual Revenue  
Requirement & Tariff Proposal for FY 2013-2014**

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**Table 4.11**

Details of Transformers as on 31.03.2012		
Category	Nos.	Capacity
Power Transformer	28	70930
Distribution Transformer	751	118666

#### 4.4 Operation and Maintenance Expenses

Operation & Maintenance expenses comprise of the following heads of expenditure viz.

- Employee Expenses
- Administration & General Expenses
- Repairs & Maintenance Expenses

O&M expenses for past few years are provided as under:

Table 4.12: O&M Expenditure - Past Trend

Year	O&M Expenses
	(Rs. Crores)
2005-2006	53.6
2006-2007	57.1
2007-2008	60.7
2008-2009	63.9
2009-2010	68.7
2010-2011	71.6
2011-2012	78.26

##### 4.4.1 Employee Expenses

The expense head of employee cost consists of salary and allowance, bonus, Leave Travel Concession (LTC) & Honorarium etc. EDA&N has projected the employee cost for FY 2013-14 taking into consideration increase in the basic salary and related other remunerations at the rate of 8.76% i.e (WPI from 2010-11 to 2011-12) over cost for the year 2011-12. It is therefore kindly requested to Hon'ble Commission to approve the employee expenses of Rs. 53.62 Crores for FY 2013-14.



#### **4.4.2 Administration and General Expenses**

A&G expenses comprise of the following broad subheads of expenditure, viz.

- Domestic Travelling Expenses
- Office Expenses
- Legal, Regulatory & Consultancy Fees
- Insurance etc

The A&G expenses of EDA&N for FY 2011-12 are Rs. 2.20 Crores. A&G expenses for the FY 2012-13 is estimated at Rs. 2.40 Crores which are escalated by 8.76% i.e (WPI from 2010-11 to 2011-12) over cost for the year 2011-12. It is therefore kindly requested to Hon'ble Commission to approve the A & G expenses of Rs. 2.61 Crores for FY 2013-14. The escalation is to absorb the normal inflationary increases in the costs.

Table 4.13: A&G Expenditure – Past Trend

Year	A&G Expenses
	(Rs. Crores)
2005-2006	1.51
2006-2007	1.6
2007-2008	1.69
2008-2009	1.71
2009-2010	1.88
2010-2011	2.02
2011-2012	2.20

#### **4.4.3 Repairs and Maintenance Expenses**

EDA&N has been undertaking various Repairs and Maintenance activities as a step towards improvement of systems, reduction in breakdowns, reduction in response time and increasing preventive maintenance. The R&M expenses for FY 2013-14 are escalated by 8.76% over estimated expenses for FY 2012-13 to capture the inflationary increases in the costs. It is requested to Hon'ble Commission to approve R&M expenses of Rs. 37.37 Crores for FY 2013-14.



***Petition for Approval of Annual Revenue  
Requirement & Tariff Proposal for FY 2013-2014***

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#### **4.4.4 O&M Expenditure as a whole**

The overall O&M Expenditure for FY 2013-14 is estimated to be about Rs. 93.60 Crores and is tabulated below:

Table 4.14: O&M Expenditure – FY 2013-14

<b>Particulars</b>	<b>FY 2013-14 Estimates (Rs. Crores)</b>
Employee Expenses	53.62
A&G Expenses	2.61
R&M Expenses	37.37
<b>O&amp;M Expenditure</b>	<b>93.60</b>

It is submitted that EDA&N is now gearing up for meeting the operational requirement of servicing existing and additional new consumers in line with the Standards of performance which the licensees have to adhere to. Hence there would be an increase in O&M expenditure to support full-fledged distribution business operations.

#### **4.5 Gross Fixed Assets**

It is submitted that value of gross fixed assets (GFA) for 2011-12 has been taken from the audited accounts for the FY 2010-11 and the same has been increased by addition of assets during the FY 2011-12 & estimated addition during FY 2012-13. Thereafter, planned additions during 2013-14 have been added and accordingly GFA has been computed for FY 2013-14. The GFA movement is given in the table below:

Table 4.15: Gross Fixed Assets Movement

<b>Financial Year</b>	<b>Opening Balance (Rs. Crores)</b>	<b>Addition during year (Rs. Crores)</b>	<b>Closing Balance (Rs. Crores)</b>
FY 2011-12	59.58	28.69	88.27
FY 2012-13	88.27	36.55	124.82
FY 2013-14	124.82	35.52	160.34



**Petition for Approval of Annual Revenue  
Requirement & Tariff Proposal for FY 2013-2014**

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#### 4.6 Depreciation

The depreciation for FY 2010-11, FY 2011-12, FY 2012-13 & FY 2013-14 are computed on the basis of rates outlined as under:

Table 4.16: Depreciation Rates

Assets	Dep. Rate
Plant & Machinery	5.28%
Buildings	3.34%
Vehicles	5.28%
Furniture	6.33%

Depreciation has been calculated at the above rates on the average assets for the FY 2013-14 accordingly, the depreciation works out to Rs. 5.50 Crores and is depicted below:

Table 4.17: Depreciation - FY 2013-14

Particulars	Opening Assets (Rs. Crores)	Addition during year (Rs. Crores)	Closing Assets (Rs. Crores)	Average Assets (Rs. Crores)	Depn Rates (%)	Depn Amount (Rs. Crores)
Plant and Machinery	61.42	16.38	77.80	69.61	5.28%	3.68
Buildings	36.09	19.14	55.23	45.66	3.34%	1.52
Vehicles	4.76	0.00	4.76	4.76	5.28%	0.25
Furniture and Fixtures	0.70	0.00	0.70	0.70	6.33%	0.04
<b>Total</b>	<b>102.96</b>	<b>35.52</b>	<b>138.48</b>	<b>120.72</b>		<b>5.50</b>



**Petition for Approval of Annual Revenue  
Requirement & Tariff Proposal for FY 2013-2014**

#### **4.7 Capital Based Return**

On the basis of JERC Regulation for determination of tariff the capital base return has been computed as outlined below:

Table 4.18: Capital Base and Return				
(Rs. in crores)				
Sr. No.	Particulars	Previous Year (Actuals)	Current Year (R.E)	Ensuing Year (Projection)
		2011-12	2012-13	2013-14
1	2	3	4	5
1	Gross block at beginning of the year	59.58	88.27	124.82
2	Less accumulated depreciation	3.77	8.76	15.01
3	Net block at beginning of the year	55.81	79.51	109.82
4	Less accumulated consumer contribution	0.00	0.00	0.00
5	Net fixed assets at beginning of the year	55.81	79.51	109.82
6	Reasonable return @3% of NFA	1.67	2.39	3.29

#### **4.8 Interest and Financial Charges**

The Interest costs have been estimated based on the following three heads:

- Interest on Debt/ Long term loans
- Interest on Working Capital
- Interest on Security Deposit

##### **4.8.1 Interest Capitalised**

The EDA&N being a Government Department, the entire capital employed till date has been funded through equity infusion by the Central Government through Budgetary support without any external borrowings. The EDA&N is now migrating to regulatory regime under the aegis of the Hon'ble Commission and will begin to function as a commercial utility under the Electricity Act, 2003. The EDA&N has therefore taken 1.4.2011 as the base date for the above change and from 1.4.2011 onwards, EDA&N will be subjected to tariff determination under the provisions of the Tariff Regulations to be issued by the Hon'ble Commission i.e. JERC.



**Petition for Approval of Annual Revenue  
Requirement & Tariff Proposal for FY 2013-2014**

On the Basis of JERC Regulation, the interest capitalization has been computed as outlined below:

(Rs. in crores)				
Sr. No.	Interest Capitalized	Previous year (actuals)	Current year (RE)	Ensuing year (projections)
1	2	3	4	5
1	WIP*	354.87	379.02	483.85
2	GFA* at the end of the year	88.27	121.05	151.58
3	WIP+GFA at the end of the year	443.14	500.07	635.43
4	Interest(excluding interest on WCL*) 11.25%	49.85	56.26	71.49
5	Interest Capitalized	0	0	0

\*WIP: Works-in-Progress; GFA: Gross Fixed Assets; WCL: Working capital loan

#### 4.8.2 Interest on Working Capital

The EDA&N has computed the Interest on Working Capital for FY 2013-14 on normative basis. As per the JERC Tariff Regulations, for the purpose of computation of normative working capital and Interest on working capital, the components of working capital are as follows:

- Power Purchase Cost
- One month's employee costs
- Administration & General expenses
- One month's R&M Cost

The rate of interest on working capital has been considered as per SBI Prime lending rate as on 1<sup>st</sup> April of the respective year, which is 14.75% as on 1<sup>st</sup> April 2012.



***Petition for Approval of Annual Revenue  
Requirement & Tariff Proposal for FY 2013-2014***

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The interest on normative working capital for FY 2013-14 works out to Rs. 6.08 Crores and is given in the table below:

Sr. No.	Particulars	Amount (in Crores Rs.)	
		Current year (RE)	Ensuing year (projections)
1	2	3	4
1	Fuel Cost	16.82	19.10
2	Power Purchase Cost	13.86	15.66
3	One month's employee costs	4.11	4.47
4	Administration & general expenses	0.20	0.22
5	One month's R&M Cost	2.86	3.11
6	<b>Total</b>	<b>37.85</b>	<b>42.56</b>
	<b>Interest on working capital</b>	<b>5.39</b>	<b>6.08</b>

The Hon'ble Commission is kindly requested to approve the interest on working capital of Rs. 6.08 Crores on normative basis for FY 2013-14.

#### **4.8.3 Interest on Security Deposit**

The Electricity Department collects deposits from consumers and contractors (as Earnest Money Deposit or security). While security deposit from consumers is taken at the time of providing the connection and has to be repaid to the consumers at the time of surrender of the connection; security deposit from contractors is adjusted subsequent to satisfactory completion of the contracted work. These deposits are in the form of Fixed Deposits Receipts (FDR)/ Bank Guarantee and in case of FDR the interest is directly paid to the consumer.

The following are the deposits held with the Electricity Department of Andaman & Nicobar Islands as on 31<sup>st</sup> March 2012.





Table 4.21: Security Deposits from Consumers

<b>Deposits held</b>	<b>Amount (Rs. Crores)</b>
Cash Deposits of Contractors as Security	0
Deposits for works to be done	0
Sums due to contractors closed accounts	0
Miscellaneous Deposits	1.34
Bank Guarantee	0
<b>Total</b>	<b>1.34</b>

#### **4.9 Provision for Bad and Doubtful Debts**

EDA&N is not proposing any provision for bad debts for Revenue from sale of power to the consumers. An exercise is being done to determine category wise bad debts and the same shall be claimed in future filings. Thus, for FY 2013-14, EDA&N has not projected provision for bad debts.

#### **4.10 Return on Equity**

EDA&N would like to submit that Distribution Business has always been perceived to be a business having a greater inherent risk than the Generation or Transmission Business due to various factors amongst which the direct interface with the retail consumers is the biggest risk. The same has been recognized by many Commissions across the country and they have proposed a higher rate of return on the equity invested in distribution business as compared to generation and transmission business. This has been demonstrated by the various Commissions by offering rate of return @16% for distribution business in their Tariff Regulations.

It may also kindly be noted that CERC in its recent Tariff Regulations of 2009 for Generation and Transmission has fixed pretax return on equity at 15.50% with an additional return of 0.50% for projects completing within specified timelines.



***Petition for Approval of Annual Revenue  
Requirement & Tariff Proposal for FY 2013-2014***

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Debt: Equity norm of 70:30 and RoE of 16% for FY 2013-14 has been considered and the return on equity calculated accordingly as given below:

Table 4.22: Return on Equity – FY 2013-14

Sr. No.	Particulars	FY 2013-14 Estimates (Rs. Crores)
1	Opening Equity Amount	25.33
2	Equity Addition during year (30% of Capitalisation)	10.66
3	Closing Equity Amount	35.99
4	Average Equity Amount	30.66
5	Rate of Return on Equity	16%
6	Return on Equity	4.91

#### **4.11 Non-Tariff Income**

Non-tariff income for the FY 2013-14 has been projected by escalating the estimated Non-tariff income of FY 2012-13 by 5%. Accordingly income from Non-tariff income for the FY 2013-14 has been calculated at be Rs. 2.10Crores.



**Petition for Approval of Annual Revenue Requirement & Tariff Proposal for FY 2013-2014**

#### 4.12 Annual Revenue Requirement

Based on the above estimates and projections, the ARR for EDA&N for FY 2013-14 works out as under:

Table 4.23: ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14					
(Rs. in crores)					
Sr. No.	Item of expense	Proposed by the Licensee	Revised by the Licensee	Approved by the Commission	Actuals as per accounts
1	2	3	4	5	6
1	Cost of fuel	114.60	-	-	-
2	Cost of power purchase	187.89	-	-	-
3	Employee costs	53.62	-	-	-
4	O&M expenses	37.37	-	-	-
5	Administration and general expenses	2.61	-	-	-
6	Depreciation	5.50	-	-	-
7	Interest charges ( including interest on working capital)	12.94	-	-	-
8	Return on NFA / Equity	0.63	-	-	-
9	Provision for Bad Debit	0.00	-	-	-
10	Total revenue requirement	415.14	-	-	-
11	Less: non tariff income	2.10	-	-	-
12	Net revenue requirement (10-11)	413.05	-	-	-
13	Revenue from tariff	108.64	-	-	-
14	Gap (12-13)	304.41	-	-	-
15	Gap for -----	0	-	-	-
16	Total gap (14+15)	304.41	-	-	-
17	Revenue surplus carried over	0	-	-	-
18	Additional revenue from proposed tariff	0.00	-	-	-
19	Regulatory asset	0	-	-	-
20	Energy sales (MU)	222.23	-	-	-

#### 4.13 Average Cost to Supply

Based on the above computed ARR of Rs. 413.05 Crores and with energy sales projection of 222.23MUs, the Average Cost to Supply works out to Rs. 18.59 per unit for FY 2013-14.



*Petition for Approval of Annual Revenue Requirement & Tariff Proposal for FY 2013-2014*

**4.14 Revenue at Existing Tariff and Gap for FY 2013-14**

The estimated revenue at Existing Tariff for FY 2013-14 for each of the consumer category is computed at Rs. 108.64Crores. The average realisation rate or average revenue per unit for estimated sales of 222.23MUs for FY 2013-14, works out to Rs. 4.89. The summary of the category-wise revenue is as shown in the table below:

Table 4.24: Revenue at Existing Tariff - FY 2013-14

Category	Units (MUs)	Revenue (Crores)
Domestic	104.46	29.16
Commercial	61.31	38.52
Industry	12.30	5.89
Bulk	33.02	30.38
Public Lighting	10.15	4.57
Irrigation, Pumps & Agriculture	0.98	0.12
<b>Total</b>	<b>222.23</b>	<b>108.64</b>

Based on the Aggregate Revenue Requirement and net revenue from existing tariffs for FY 2013-14, the resultant GAP works out to Rs.304.41Crores which is approximately 73.70% of the ARR as depicted in the table below:

Table 4.25: Revenue GAP at Existing Tariffs - FY 2013-14

Sr. No.	Particulars	FY 2013-14 Estimates (Rs. Crores)
I	Revenue from Sale of Power	108.64
1	Revenue from Demand Charges	0
2	Revenue from Energy Charges	0
3	Power Factor Rebate/ Penalty	0
4	Penal Charges	0
II	Net Annual Revenue Requirement	413.05
III	(Gap)/ Surplus (I-II)	304.41



## **5. TARIFF PROPOSAL FOR FY 2013-14**

EDA&N in the previous sections has discussed the estimated performance for the FY 2013-14 based on the past years performances and certain assumptions explained at appropriate places to determine the Aggregate Revenue Required for FY 2013-14.

### **5.1 Recovery of Revenue Gap for FY 2013-14**

The estimated gap in the FY 2013-14 has been computed by deducting the ARR from Revenue at Existing Tariff.

EDA&N has projected ARR for FY 2013-14 at Rs. 413.05 Crores and the revenue at existing tariff from projected sales compute to Rs. 108.64 Crores. Thus the resultant gap works out to Rs. 304.41 Crores. EDA&N does not propose to increase the tariff for the FY 2013-14 as these would may result in huge burden on the consumers.

It is submitted that in A&N Islands, majority of generation is diesel based, making per unit cost of generation very high compared to other utilities in the country. Recovery of such high cost of generation through tariff increase is not practicable as this would make power unaffordable to the general consumers. EDA &N being a Government Department funded by budgetary support from Central Government it proposes to absorb the increase in cost of supply and keep the tariff unchanged for the FY 2013-14.

Further EDA&N is exploring options of alternative and cheaper sources of power so as to reduce the cost of supply. Since power generated by Central Generating Stations (CGSs) is not available to EDA&N, it has to depend totally on local power generation. Till such time cost of generation of power is brought at levels comparable to other utilities in the country, recovery of the same through tariff is not feasible.

It is prayed to the Hon'ble Commission that considering the above submissions the proposal of EDA&N for keeping the tariff unchanged for the FY 2013-14 may kindly be approved.



## **6. TARIFF SCHEDULE - FY 2013-14**

### **General Conditions**

1. These tariffs shall be applicable with effect from the date Hon'ble Commission approves the tariff.
2. These tariffs shall be subject to revision and/ or Levy of surcharges as may be levied by Department from time to time as per directives of Hon'ble Commission.
3. The tariffs are exclusive of Electricity Duty, Taxes and other charges as levied by Government or other competent authorities from time to time which are payable by the consumers in addition to the charges levied as per the tariffs.
4. Unless otherwise agreed to these tariffs for power supply are applicable for supply at one point only.
5. In case any dispute arises about the applicability of any tariff for any particular class of service or as to the interpretation of any clause of these tariffs, the decision of the Hon'ble Commission shall be final and binding.
6. If energy supplied for a specific purpose under a particular tariff is used for a different purpose not contemplated in the contract for supply and / or for which higher tariff is applicable, it will be deemed as misuse and stealing / theft of energy and energy consumption bills already rendered for the service shall be revised by applying the appropriate higher tariff from the date of connection unless convincing reasons are adduced thereof for adopting a different period. The imposition of this higher tariff shall not relieve the consumer from any penalties as per the law.
7. If the consumer fails to pay the energy bill presented to him within the stipulated period, the Department shall have the right to disconnect the supply either temporarily or permanently after serving notice on such consumer.
8. Billing on all cases will be done on contracted load and meter rent will be in addition to minimum charges.



***Petition for Approval of Annual Revenue Requirement & Tariff Proposal for FY 2013-2014***

9. Unless specifically stated to the contrary, the figures of Energy Charge relate to Rupees per unit (kWh) charge for energy consumed during the month.
10. The above conditions are in General and in addition to the 'Schedule of Service and Miscellaneous Charges'. EDA&N submits to Hon'ble Commission that it would file a separate petition for approval of Schedule of Service and Miscellaneous Charges to be incorporated in the final tariff order.

The revenue from tariffs in FY 2013-14 has been estimated by applying the existing rates to the projected sales and consumer related data as per segregation provided in the ARR filing. The detailed tariff schedule is outlined below.

Table 5.1: - Energy Charge - Existing Tariff

Category	Energy Charge (Rs./Kwh)
Domestic Connection	
-0 to 100 units	2.00
-101 to 200 units	3.70
-201 units & above	5.10
Commercial	
0-200 Units	5.40
201 to 500 Units	6.50
501 units & above	7.25
Industrial	
0-500 Units	4.45
500 Units & Above	5.00
Bulk	9.20
Public Lighting	4.50
Irrigation, Pumps & Agriculture	1.25



## *Petition for Approval of Annual Revenue Requirement & Tariff Proposal for FY 2013-2014*

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### **I. Domestic connections**

- (i) Applicability: (Single delivery points) combined lighting, fan and power in Domestic premises.
- (ii) Minimum Charges: Rs. 30.00 per KVA connected Load or part thereof per month.
- (iii) Surcharge: @ 15% on delayed payments.

### **II. Commercial Connections**

- (i) Applicability: For the supply of energy for lighting , fan and upto 3HP individual motors for commercial purpose, for commercial establishments, Printing Press, Hotels, Rest Houses, Restaurants ,Hostels, Nursing Homes, Bus-stand, clubs, Auditorium, Communication, Cinema Theatre, Opera, Circus, Exhibition, All India Radio, SCI, Fisheries, Survey of India, Bakeries & Grinders & installations for private gains..
- (ii) Minimum Charges: Rs. 50.00 per KVA connected Load or part thereof per month.
- (iii) Surcharge: @ 15% on delayed payments

### **III. Industrial**

- (i) Applicability:  
For the supply of energy for lighting , fan and power to Industrial establishments & Industries such as wood based, cottage, small scales, medium scales, finishing shell based and any other establishments/organizations engaged in the manufacturing and processing goods for sale, rice mills, flour mills, workshops, Drydock, factories base repair organization, Public water works & Gem cutting units.
- (ii) Minimum Charges: (a) Rs.50.00 per H.P. connected Load or part thereof per month.  
(b) Rs.200.00 per month for Rice, Flour Millers of rural areas who are having motors upto 15 HP Capacity.
- (iii) Surcharge: @ 15% on delayed payments.





## *Petition for Approval of Annual Revenue Requirement & Tariff Proposal for FY 2013-2014*

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### **IV. Bulk**

(i) Applicability: (a) For the supply of energy through a bulk energy meter either at HT or LT supply and distribution is maintained by them.

(b) For dedicated transformer the complete cost of Tec. transmission lines of transformers sub-station, switch gear & installation, is to be borne by the consumer.

(ii) Minimum Charges: Rs.50.00 per KVA connected Load or part thereof per month.

(iii) Surcharge: @ 15% on delayed payments

### **V. Public Light:**

(i) Applicability: For the supply of energy for lighting on public road, footpath, streets & through fares in parks & markets etc. Cost of spares, materials and labour required for maintenance to be borne by respective Panchayati Raj Institutions/Local Bodies.

(ii) Minimum Charges: Rs.60.00 per KVA connected Load or part thereof per month.

(iii) Surcharge: @ 15% on delayed payments

### **VI. Irrigation, Pumping & Agriculture:**

(i) Applicability: For the supply of energy for energy for irrigation and agricultural purposes including animal husbandry.

(ii) Minimum Charges: Rs.15.00 per KVA connected Load or part thereof per month.

(iii) Surcharge: @ 15% on delayed payments.

### **VII. General Purpose**

(i) Applicability: For supply of energy to places of Worship, like Temples, Mosques, Churches, Gurudwaras, Buddhist Pongi Chung (not for residential or shopping complex only for pooja places) Public Pooja celebration and religious ceremonies. Tariff for this category is same as that of Commercial category.

(ii) Minimum Charges: Rs.50.00 per KVA connected Load or part thereof per month.

(iii) Surcharge: @ 15% on delayed payments



### **VIII. Temporary Supply**

(i) **Applicability:** The supply may be given for a period of not more than three months. For any extension a fresh connection has to be obtained on proper fresh application. The temporary connection can only be for maximum period of six months.

Rate: Three times the rate applicable to the relevant category of consumers.

**(ii) Minimum Charges:** Three times the rate applicable to the relevant category of consumers.

(iii) **Surcharge:** @ 15% on delayed payments.

**X. Power Factor** - i) The department reserves the right to refuse or discontinue to supply energy in the case of installations whose test of record power factor is less than 90% until, such time the average power factor is improved to a value not less than 90%. If the average power factor is below 90% it will be necessary to install suitable power factor correction apparatus within six months from the date of notice, failing which the department reserves the rights to discontinue power supply without prejudice to the recovery of minimum charges or continue power supply to such consumers who agree to pay the penal charges as mentioned, till such time the power factor correction apparatus is installed.

ii) Where the test of recorded average power factor of the installation is more than 75% but less than 90% penal charges at 10% of the total power supply bill shall be levied.

iii) Where the test of recorded average power factor of the installation is less than 75% penal charges at 20% of the total power supply bill shall be levied.

### **XI. Security Deposit -**

- a) Domestic and General supply Rs. 250/- per KVA connected load or part thereof.
- b) Commercial Supply Rs. 300/- per KVA connected load or part thereof.
- c) Industrial Supply Rs. 250/- per KVA connected load or part thereof.
- d) Temporary connection: - Three times the rates applicable to the relevant category of the consumers.

**XII. Reconnection Charges** - a) Single phase Rs. 25/-.

b) Three phase Rs. 50/-.

**XIII. Meter charges** -a) Single phase Rs. 5/- . Per month.

b) Three phase Rs. 10/- . Per month.



*Petition for Approval of Annual Revenue  
Requirement & Tariff Proposal for FY 2013-2014*

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**IXV. Grace Period** – The grace period of payment of Electrical Bills will be 21 days from the date of issue of the Bills.

**XV. Un-authorized & misuse of electrical energy –**

- a) In case of un-authorized load, a surcharge of 100% shall be levied on the total amount of the bill from the billing month of the date of excess connected load.
- b) In case of misuse in respect of domestic, commercial, small industries power, large industries powers, agriculture, the entire consumption shall be billed with a surcharge of 100% from the billing month of the date of misuse.
- c) Both these action will be without prejudice to any action as may be called for under the rules/ regulations.

The tariff schedule as approved in Tariff Order issued by the Hon'ble Commission on 4<sup>th</sup> June, 2012 for the FY 2012-13 is attached as Annexure-I.



**6.1 Tariff schedule as approved in Tariff Order issued by the  
Hon'ble Commission on 4<sup>th</sup> June, 2012 for the FY 2013-14**

**TARIFF SCHEDULE**

**1. DOMESTIC SUPPLY (DS)**

**APPLICABILITY**

This schedule shall apply for single delivery point including light, fan, domestic pumping sets and household appliances in the following premises:

- a) Single private house/flat.
- b) Housing colonies and multi storied flats/buildings as defined in Electricity Supply Code Regulations notified by the JERC.

**NOTES:**

- i. Where a portion of the dwelling is used for the mixed load purposes the connection shall be billed for the purpose for which the tariffs are higher.

**TARIFF**

<b>Consumption range</b>	<b>Minimum Charge per connected load or part thereof per month</b>	<b>Energy charge Rs./KWh</b>
Upto 100 units	Rs.30.00 per KVA connected	2.00
101-200	Load or part thereof per	3.70
201 & above	Month	5.10

**2. COMMERCIAL**

**APPLICABILITY**

This schedule shall apply to all consumers, using electrical energy for light, fans appliances like pumping sets, motors of rating upto 3 HP used for commercial purpose, central air conditioning plant, lift ,welding set, small lathe, electric drill, heater, battery charger, embroidery machine, printing press, ice candy, dry cleaning machines, power press, small motors in commercial establishments/ non-residential premises such as

Printing Press, Hotels, Rest Houses, Restaurants ,Hostels, Nursing Homes,



## *Petition for Approval of Annual Revenue Requirement & Tariff Proposal for FY 2013-2014*

Bus-stand, clubs, Auditorium, Communication, Cinema Theatre, Opera, Circus, Exhibition, All India Radio, SCI, Fisheries, Survey of India, Bakeries & Grinders & installations for private gains etc. Commercial supply shall also be applicable to multi consumer complex including commercial complexes as defined in the Electricity Supply Code Regulations notified by the JERC.

This schedule shall also apply to the Places of Worship, like Temples, Mosques, Churches, Gurudwaras, Buddhist Ponggi Chung (not for residential or shopping complex only for pooja places) Public Pooja celebration and religious ceremonies.

No separate circuit/connection for power load including pumping set/central air conditioning plant, lifts etc. is permitted.

### **TARIFF**

<b>Consumption range</b>	<b>Minimum Charge per connected load or part thereof per month</b>	<b>Energy Charges Rs./KWh</b>
upto 200 units	Rs.50.00 per KVA connected Load or part thereof per Month	5.40
201 to 500 units		6.50
501 units & above		7.25

### **3. INDUSTRIAL SUPPLY**

#### **APPLICABILITY**

The schedule shall apply for supply of energy for lighting , fan and power to Industrial establishments & Industries such as wood based, cottage, small scales, medium scales, finishing shell based and any other establishments/organizations engaged in the manufacturing and processing goods for sale, rice mills, flour mills, workshops, Drydock, factories base repair organization, Public water works & Gem cutting units.



*Petition for Approval of Annual Revenue  
Requirement & Tariff Proposal for FY 2013-2014*

**TARIFF**

Consumption range	Minimum Charge per connected load or part thereof per month	Energy Charges Rs./KWh
Upto 500 units	a) Rs.50.00 per H.P. connected load or part thereof.	4.45
501 & above	b) Rs.200.00 per month for Rice , Flour Millers of Rural areas who are having 15 HP capacity.	5.00

**POINT OF SUPPLY**

The above mentioned tariff is based on the supply being given through a single delivery and metering point and at a single voltage.

**4. IRRIGATION, PUMPING & AGRICULTURE**

**APPLICABILITY**

This schedule shall apply to all consumers for use of electrical energy for irrigation and agricultural purposes including animal husbandry.

**TARIFF**

Consumption range	Minimum Charge per connected load or part thereof per month	Energy Charges Rs./KWh
Upto 500 units	Rs.15.00 per KVA connected Load or part thereof per month	1.25

**POINT OF SUPPLY**

The above mentioned tariff is based on the supply being given through a single delivery and metering point and at a single voltage.



*Petition for Approval of Annual Revenue  
Requirement & Tariff Proposal for FY 2013-2014*

**5. PUBLIC LIGHTING (PL)**

**APPLICABILITY**

This tariff schedule shall apply for lighting on public road, footpath, streets & through fares in parks & markets etc. Cost of spares, materials and labour required for maintenance to be borne by respective Panchayati Raj Institutions/Local Bodies.

**TARIFF**

<b>Consumption range</b>	<b>Minimum Charge per connected load or part thereof per month</b>	<b>Energy Charges Rs./KWh</b>
Public lighting system managed by Municipal Corporation, Panchayat and Streetlights maintained/outsourced to an external agency	Rs.60.00 per KVA connected Load or part thereof per month	4.50

**6. BULK SUPPLY**

**APPLICABILITY**

This tariff schedule shall apply to general or mixed loads receiving supply of energy through a bulk energy meter either at HT or LT supply and distribution is maintained by them. For dedicated transformer the complete cost of Technical transmission lines of transformers sub-station, switch gear & installation is to be borne by the consumer.

**TARIFF**

<b>Consumption range</b>	<b>Minimum Charge per connected load or part thereof per month</b>	<b>Energy Charges Rs./KWh</b>
Bulk category	Rs.50.00 per KVA connected Load or part thereof per month	9.20



## *Petition for Approval of Annual Revenue Requirement & Tariff Proposal for FY 2013-2014*

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### **POINT OF SUPPLY**

The above mentioned tariff is based on the supply being given through a single delivery and metering point and at a single voltage.

### **7. TEMPORARY SUPPLY**

#### **APPLICABILITY**

The supply may be given for a period of not more than three months. For any extension a fresh connection has to be obtained on proper fresh application. The temporary connection can only be for maximum period of six months. Rate shall be the three times the rate applicable to the relevant category of consumers.

#### **GENERAL CONDITIONS FOR LT & HT SUPPLY**

The above mentioned LT/HT Tariffs are subjected to the following conditions, applicable to all category of consumers.

##### **1) Additional charges for exceeding contracted load/contracted maximum demand,**

If in any month the consumer exceeds his contracted load/contracted demand the portion of the load/demand in excess of the contracted load/demand will be dealt as per the provisions made in JERC(Electricity Supply Code), 2010.

This will not be applicable to the consumers who has self-declared their connected load as the provision under regulation 4.13 (2) of Supply Code Regulations, 2010 as amended from time to time.

##### **2) Power Factor Incentive**

The monthly average power factor of the plant and apparatus installed by the consumer should be maintained at better than 90% lagging. The monthly average power factor shall mean the ratio expressed as percentage of total kWh to total kVAh supplied during the month. The ratio shall be rounded up to two figures.

In case the monthly average power factor is above 95%, consumer shall get a rebate at a rate of 1% on billed energy charges for each 1% increase in monthly average power factor above 95%.





## *Petition for Approval of Annual Revenue Requirement & Tariff Proposal for FY 2013-2014*

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For example, if the average power factor in a month is 97%, then the consumer shall be given rebate of 2% on the billed energy charges for that month.

### **3) Incentive for usage of alternative (Renewable) Sources of Energy:**

A concession of Rs. 50/- (Rupees Fifty only) per month in electricity bill will be given to the consumers using solar water heater in domestic/commercial establishments on one-time verification of original invoice of its purchase and verification of the installation of equipment by the Engineer in charge of the area. The concession will be given to the consumers on the basis of the ownership of equipment; concession will be divided amongst the consumers, if they are sharing common equipment of solar water heater.

The concession of Rs. 1.00 per KWh over the units generated per month by the equipment generating energy using renewable energy including roof-top solar equipment, solar wind hybrid systems. The actual units generating will be verified from the energy meter to be installed in such systems for recording the electricity generated. The concession will be given to the consumers on the basis of the ownership of equipment; concession will be divided amongst the consumers, if they are sharing the equipment of roof-top solar or solar wind hybrid systems.

The incentive will be reviewed in next ARR and tariff order based on the reduction in the drawl of units of conventional power substituted by Renewable Power is based on the data from June-December 2012.

### **4) Late Payment Surcharge**

For the existing connections, if the payment is made after the due date (as mentioned on the bill), the consumer is liable to pay additional charges on delayed amount at the rate of 2% per month. However for disconnected consumers, additional amount at the rate of 10% per annum on the outstanding amount shall be charged.

### **5) Taxes & Duties**

The tariff does not include any tax or duty etc. on electricity energy that may be payable at any time in accordance with any law then in force. Such charges, if any, shall be payable by the consumer in addition to the tariff charges.

## FORMATS 1-28

1	ENERGY DEMAND	i
2	Information regarding AT&C LOSS OF licensee	ii
3	ENERGY BALANCE	iii
4	POWER PURCHASE COST	iv - iv (b)
5	Investment Plan (2011-12)	v - v (b)
6	Capital Base and Return	vi
7	Original Cost of Fixed Assets	vii
8	Works-in-Progress	viii
9	Interest Capitalized	viii
10	Details of loans for the year	ix
11	Information regarding restructuring of outstanding loans during the year	x
12	Value of Assets and Depreciation Charges	xi - xi (a)
13	Calculation of Advance Against Depreciation	xii
14	Repair and Maintenance Expenses	xiii
15	Total Number of Employees	xiv
16	Employee Cost for the year	xv
17	Administration and General Expenses	xvi
18	Information regarding Bad and Doubtful Debts	xvii
19	Information regarding Working Capital for the current and ensuing year	xvii
20	Information regarding Foreign Exchange Rate Variation (FERV)	xviii
21	Non Tariff Income	xviii
22	Information regarding Revenue from Other Business	xix
23	Lease Details	xix
24	Information regarding Wholesale Price Index (All Commodities)	xx
25	Information regarding amount of equity and loan	xx
26	Cash flow statement for the ensuing year (projections)	xxi
27	Abstract	xxii
28	Revenue from Existing Tariff	xxiii - xxiii ( c )

<b>FORMATS 1G to 12G</b>		
1	SUMMARY SHEET	xxiv
2	Tariff Norms for Energy / Variable charges	xxv
3	Information regarding amount of Equity & Loan	xxvi
4	Interest Capitalised	xxvi
5	Details of Loans Interest and Finance Charges for the year 2013-14	xxvii
6	Information regarding restructuring of outstanding loans during the year 2013-14	xxviii
7	Calculation of Depreciation Rate	xxix
8	Calculation of Advance against Depreciation	xxx
9	Calculation of Interest on Working Capital for Generation	xxxi
10	Information regarding Foreign Exchange Rate Variation (FERV)	xxxi
11	Details of Operation and Maintenance Expense	xxxii-xxxii(a)
12	Generation Tariff Determination, Return on Equity and Tax on Income	xxxiii

<b>Annexure and Additional Information</b>		
1	Annexure-I – 18 <sup>th</sup> Electric Power Survey Report	xxxiv-xxxiv(c)
2	Annexure – II Details of Capital Expenditure 2011-12, 2012-13 and proposed outlay 2013-14	xxxv
3	Annexure – III – Renewable Purchase Obligation (RPO)	xxxvi-xxxvi(b)
4	Annexure – IV Audited Certificate 2010-11 and Proforma Accounts 2010-11	xxxvii-xxxvii(h)
5	Annexure-V – Summary of Power Purchase cost 2011-12, 2012-13 & 2013-14.	xxxviii-xxxviii(c)
6	Additional Information –I – Plant load factor for 2011-12, 2012-13 & 2013-14.	xxxix-xxxix(b)
7	Additional Information –II – Standard of Performance (SOP)	xxxx-xxxx(d)
8	Additional Information –III – Station-wise HSD & Auxiliary Fuel Consumption for the year 2010-11 & 2011-12	xxxxi-xxxxi(a)

**ANDAMAN & NICOBAR ISLAND**  
**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14**  
**ENERGY DEMAND**  
**YEAR 2011-12**

Sr. No.	Category of Consumer***	No. of Consumers at the end of the year (Nos.)	Connected Load at the end of the Year (KW)	Demand (in MW)		Energy Sale/Demand (MUs)
				Unrestricted	Restricted	
1	2	3	4	5	6	7
1	Domestic	91843	83668	24.45	0.00	93.98
2	Commercial (NRS)	16530	48755	13.87	0.00	53.09
3	Industrial					
(a)	HT Supply	0	0	0.00	0.00	0.00
(b)	LT Supply	493	9801	3.60		10.89
(c)	Total	493	9801	3.60	0.00	10.89
4	Public Lighting	552	2856	1.05		9.26
5	Railway Traction	0	0	0.00	0.00	0.00
6	Total Metered Sales (except Agriculture) within State/UT (total: 1 to 5)	109418	145080	42.97	0.00	167.21
7	Agricultural Consumption					
(a)	Metered	237	687	0.25	0.00	0.90
(b)	Un-metered	0	0	0.00	0.00	0
(c)	Total	237	687	0.25	0.00	0.90
8	Temporary	292	0	0.00		0.93
9	LIG (Unmetered)	0	0	0.00	0.00	
10	Bulk supply	55	10300	3.78		29.57
10	<b>Total Demand/ Sale Within State/UT (6 to 9)</b>	<b>110002</b>	<b>156067</b>	<b>47.00</b>	<b>0.00</b>	<b>198.62</b>

**Information regarding AT&C LOSS OF licensee**  
**Name of State/UT Andaman & Nicobar Island**  
**Name of licensee Electricity Department, Dadra & Nagar Haveli.**

Sl. No	Particulars	Calculation	Unit	Previous Years (Actuals)	Current Year (R.E)	Ensuing Year (Projection)
				2011-12	2012-13	2013-14
1	Generation (own as well as any other connected generation net after deducting auxiliary consumption) within area of supply of DISCOM.	A	MU	105.36	106.59	112.75
2	Input energy (metered Import) received at interface points of DISCOM network.	B	MU	136.96	149.71	158.36
3	Input energy (metered Export) by the DISCOM at interface points of DISCOM network.	C	MU	0	0	0
4	Total energy available for sale within the licensed area to the consumers of the DISCOM	$D=A+B-C$	MU	242.31	256.31	271.12
5	Energy billed to metered consumers within the licensed area of the DISCOM	E	MU	198.62	210.09	222.23
6	Energy billed to un-metered consumers within the licensed area of the DISCOM	F	MU	0	0	0
7	Total energy billed	$G=E+F$	MU	198.62	210.09	222.23
8	Amount billed to consumer within the licensed area of DISCOM.	H	Rs.	82.26	100.03	108.64
9	Amount realized by the DISCOM out of the amount Billed at H#	I	Rs.	81.26	98.81	107.32
10	Collection efficiency (%) (= Revenue realized/ Amount billed)	$J=(I/H) \times 100$	%	98.8	98.8	98.8
11	Energy realized by the DISCOM	$K=J \times G$	MU	196.20	207.53	219.52
12	Distribution loss (%)	$L=\{(D-G)/D\} \times 100$	%	18.03	18.03	18.03
13	AT&C Loss (%)	$M=\{(D-K)/D\} \times 100$	%	19.03	19.03	19.03

**Electricity Department, Andaman & Nicobar Island**  
**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14**

**ENERGY BALANCE**  
**(All figures in MU)**

Sr. No.	Item	Previous Year (Actuals) 2011-12	Current Year (R.E) 2012-13	Ensuing Year (Projection) 2013-14
1	2	3	4	5
<b>A)</b>	<b>ENERGY REQUIREMENT</b>			
1	Energy sales to metered category within the State/UT	197.72	209.15	221.24
2	<b>Energy sales to Agriculture consumers</b>	0.90	0.94	0.98
3	<b>Total sales within the State/UT</b>	<b>198.62</b>	<b>210.09</b>	<b>222.23</b>
4	Sales to common pool consumers/ UI	0.00	0.00	0.00
5	Sales outside state/UT	0.00	0.00	0.00
6	Sales	0.00	0.00	0.00
	a) To electricity traders			
	b) Through PX			
7	Sales to other distribution licensees	0.00	0.00	0.00
	a) Bilateral Trade			
	b) Banking Arrangement			
8	Total sales	198.62	210.09	222.23
9	T&D losses			
i)	%	18.03	18.03	18.03
ii)	MU	43.70	46.22	48.89
10	Total energy requirement	<b>242.31</b>	<b>256.31</b>	<b>271.12</b>
<b>B)</b>	<b>ENERGY AVAILABILITY</b>			
1	Net thermal generation ( <b>Own+ IPP</b> )	230.98	243.98	257.78
2	Net hydel generation (own+shared)	11.33	12.33	13.33
3	<b>Power Purchased from</b>	0.00	0.00	0.00
	<b>a) Common Pool/UI</b>	0.00	0.00	0.00
	<b>b) Traders</b>	0.00	0.00	0.00
	<b>c) PX</b>	0.00	0.00	0.00
	<b>d) Others</b>			
4	Net power purchase (1 +2 +3)	<b>242.31</b>	<b>256.31</b>	<b>271.12</b>
5	Total energy availability	242.31	256.31	271.12

**Electricity Department, Andaman & Nicobar Island**  
**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14**  
**POWER PURCHASE COST**  
**YEAR 2011-12**

Sr. No.	Source	Capacity (MW)	Firm allocation to Licensee		Gen. (MU)	Availability / PLF (in %)	AFC (Rs. Crore)	License share (%)	Purchase (MU)	External losses (%)	Energy recd. by Licensee (MU)	VC (Ps/ Unit)	FC (Rs. crores)	VC (Rs. crore)	Others (Rs. crore)	Total (Rs. crore)
			%	MW												
1	2	4	5		6	7	8	9	10	11	12	13	14	15	16	17
I 1	SPCL	20.00	100.00	20.00	140.95	80.45	0.00	100.00	140.95	0.00	140.95	0.00	0.00	0.00	0.00	145.99
II	<b>Other Sources</b>															
2	Own-generation.															
i.	Diesel	58.46	100.00	58.46	98.07	380.79	0.00	100.00	98.07	0.00	98.07	0.00	0.00	0.00	0.00	92.02
ii.	Renewable	5.25	100.00	5.25	11.33	24.64	0.00	100.00	11.33	0.00	11.33	0.00	0.00	0.00	0.00	
4	PTC/Traders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	Others (may be specified)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	UI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
III	<b>Other Charges</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total</b>	<b>83.71</b>		<b>83.71</b>	<b>250.35</b>				<b>250.35</b>		<b>250.35</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>238.01</b>

**Note : Information may be supplied separately for the previous year, current year and ensuing year.**

**Electricity Department, Andaman & Nicobar Island**  
**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14**  
**POWER PURCHASE COST**  
**YEAR 2012-13**

Sr. No.	Source	Capacity (MW)	Firm allocation to Licensee		Gen. (MU)	Availability / PLF (in %)	AFC (Rs. Crore)	Licensee share (%)	Purchase (MU)	External losses (%)	Energy recd. by Licensee (MU)	VC (Ps / Unit)	FC (Rs. crores)	VC (Rs. crore)	Others (Rs. crore)	Total (Rs. crore)
			%	MW												
1	2	4	5		6	7	8	9	10	11	12	13	14	15	16	17
I 1	<b>SPCL</b>	20.00	100.00	20.00	152.40	86.99	0.00	100.00	152.40	0.00	152.40	0.00	0.00	0.00	0.00	166.27
II	<b>Other Sources</b>															
2	Own-generation															
i.	Diesel	58.46	100.00	58.46	101.83	386.76	0.00	100.00	101.83	0.00	101.83	0.00	0.00	0.00	0.00	100.93
ii.	Renewable	5.25	100.00	5.25	12.33	26.81	0.00	100.00	12.33	0.00	12.33	0.00	0.00	0.00	0.00	
5	PTC/Traders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	Others (may be specified)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	UI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
III	<b>Other Charges</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total</b>	<b>83.71</b>		<b>83.71</b>	<b>266.56</b>				<b>266.56</b>		<b>266.56</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>267.20</b>



**Electricity Department, Andaman & Nicobar Island**

**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14**  
**POWER PURCHASE COST**  
**YEAR 2013-14**

Sr. No.	Source	Capacity (MW)	Firm allocation to Licensee		Gen. (MU)	Availability / PLF (in %)	AFC (Rs. Crore)	Licensee share (%)	Purchase (MU)	External losses (%)	Energy recd. by Licensee (MU)	VC (Ps / Unit)	FC (Rs. crore)	VC (Rs. crore)	Others (Rs. crore)	Total (Rs. crore)
			%	MW												
1	2	4	5		6	7	8	9	10	11	12	13	14	15	16	17
I 1	SPCL	20.00	100.00	20.00	164.79	94.06	0.00	100.00	164.79	0.00	164.79	0.00	0.00	0.00	0.00	187.89
II	<b>Other Sources</b>															
2	Own-generation.															
i.	Diesel	58.46	100.00	58.46	110.11	418.21	0.00	100.00	110.11	0.00	110.11	0.00	0.00	0.00	0.00	114.60
ii.	Renewable	5.25	100.00	5.25	13.33	28.99	0.00	100.00	13.33	0.00	13.33	0.00	0.00	0.00	0.00	
3	PTC/Traders	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Others (may be specified)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	UI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
III	<b>Other Charges</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	<b>83.71</b>		<b>83.71</b>	<b>288.23</b>				<b>288.23</b>		<b>288.23</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>302.48</b>

**Note : Information may be supplied separately for the previous year, current year and ensuing year.**

Electricity Department, Andaman & Nicobar Island  
ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14  
Investment Plan (2011-12)

Rs in  
Crores

Project Details						Total capital expenditure approved (Rs. Cr.)	SOURCE OF FINANCING FOR SCHEME				
Name of scheme	Year of Start	Nature of Project (Select appropriate code from below)	Approved by the Commission* (YES/NO)	Project Start Date (DD-MM-YY)	Project Completion date (DD-MM-YY)		Equity component		Capital Subsidies / grants component	Consumer Contribution component	Actual Expenditure
							Internal Accrual (from free reserves & surplus)	Equity infused**			
1	2	3	4	5	6	7	8	9	10	11	12
Strengthening of Admn. In Electricity Department	2011-12		-	-	-	17.7	0.00	0.00	17.7	0.00	17.70
Construction/Strengthening of T&D System	2011-12		-	-	-	12.41	0.00	0.00	12.41	0.00	12.41
Augmentation of DG capacity	2011-12		-	-	-	23.92	0.00	0.00	23.92	0.00	23.92
Construction & maintenance of Civil Infrastructures	2011-12		-	-	-	5.55	0.00	0.00	5.55	0.00	5.55
Augmentation of generating Capacity in South Andaman 75 MW	2011-12		-	-	-	0.20	0.00	0.00	0.2	0.00	0.20
Development of IT	2011-12		-	-	-	14	0.00	0.00	14	0.00	14.00
Establishment of A&N Grid Connecting Port Blair to Diglipur	2011-12		-	-	-	0	0.00	0.00	0	0.00	0.00
Feasibility Study for establishment of Nuclear/ Gas based power plants	2011-12		-	-	-	0	0.00	0.00	0	0.00	0.00
<b>TOTAL</b>						<b>73.78</b>	<b>0.00</b>	<b>0.00</b>	<b>73.78</b>	<b>0.00</b>	<b>73.78</b>

Electricity Department, Andaman & Nicobar Island  
ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14  
Investment Plan (2012-13)

Rs in  
Crores

Project Details						Total capital expenditure approved (Rs. Cr.)	SOURCE OF FINANCING FOR SCHEME				
Name of scheme	Year of Start	Nature of Project (Select appropriate code from below)	Approved by the Commission* (YES/NO)	Project Start Date (DD-MM-YY)	Project Completion date (DD-MM-YY)		Equity component		Capital Subsidies / grants component	Consumer Contribution component	Actual Expenditure
							Internal Accrual (from free reserves & surplus)	Equity infused**			
1	2	3	4	5	6	7	8	9	10	11	12
Strengthening of Admn. In Electricity Department	2012-13	-	-	-	-	15.96	0.00	0.00	<b>15.96</b>	0.00	15.96
Construction/Strenthening of T&D System	2012-13	-	-	-	-	12.41	0.00	0.00	<b>12.41</b>	0.00	12.41
Augmentation of DG capacity	2012-13	-	-	-	-	13.23	0.00	0.00	<b>13.23</b>	0.00	13.23
Construction & maintenance of Civil Infrastructures	2012-13	-	-	-	-	4.14	0.00	0.00	<b>4.14</b>	0.00	4.14
Augmentation of generating Capacity in South Andaman 75 MW	2012-13	-	-	-	-	0.05	0.00	0.00	<b>0.05</b>	0.00	0.05
Development of IT	2012-13	-	-	-	-	8.21	0.00	0.00	<b>8.21</b>	0.00	8.21
Establishment of A&N Grid Connecting Port Blair to Diglipur	2012-13	-	-	-	-	0.10	0.00	0.00	<b>0.10</b>	0.00	0.10
Feasibility Study for establishment of Nuclear/ Gas based power plants						0.05			<b>0.05</b>		0.05
<b>TOTAL</b>						<b>54.15</b>	<b>0.00</b>	<b>0.00</b>	<b>54.15</b>	<b>0.00</b>	<b>54.15</b>

**Electricity Department, Andaman & Nicobar Island**  
**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14**  
**Investment Plan (2013-14)**

(Rupees in  
Crores)

Project Details						Total capital expenditure approved (Rs. Cr.)	SOURCE OF FINANCING FOR SCHEME				
Name of scheme	Year of Start	Nature of Project (Select appropriate code from below)	Approved by the Commission* (YES/NO)	Project Start Date (DD-MM-YY)	Project Completion date (DD-MM-YY)		Equity component		Capital Subsidies / grants component	Consumer Contribution component	Proposed Expenditure
							Internal Accrual (from free reserves & surplus)	Equity infused **			
1	2	3	4	5	6	7	8	9	10	11	12
Strengthening of Admn. In Electricity Department	2013-14		-	-	-	14.49	0.00	0.00	14.49	0.00	14.49
Construction/Strengthening of T&D System	2013-14		-	-	-	12.27	0.00	0.00	12.27	0.00	12.27
Augmentation of DG capacity	2013-14		-	-	-	105.64	0.00	0.00	105.64	0.00	105.64
Construction & maintenance of Civil Infrastructures for Electricity Department	2013-14		-	-	-	4.65	0.00	0.00	4.65	0.00	4.65
Development of IT in Electricity Department under National e-governance programme	2013-14		-	-	-	3.00	0.00	0.00	3.00	0.00	3.00
Establishment of Andaman Grid connecting Port Blair to Diglipur	2013-14					0.18	0.00	0.00	0.18	0.00	0.18
Addition of 75 MW generating capacity in South Andaman and encouragement of Private sector investment and IPP participation	2013-14					0.05	0.00	0.00	0.05	0.00	0.05
Feasibility study for establishment of Nuclear/ Gas based power Plants	2013-14					0.08	0.00	0.00	0.08	0.00	0.08
<b>TOTAL</b>						<b>140.36</b>	<b>0.00</b>	<b>0.00</b>	<b>140.36</b>	<b>0.00</b>	<b>140.36</b>

**Electricity Department, Andaman & Nicobar Island**  
**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14**  
**Capital Base and Return**

(Rs. in crores)

Sr. No.	Particulars	Previous Year (Actuals)	Current Year (R.E)	Ensuing Year (Projection)
		2011-12	2012-13	2013-14
1	2	3	4	5
1	Gross block at beginning of the year	59.58	88.27	124.82
2	Less accumulated depreciation	3.77	8.76	15.01
3	Net block at beginning of the year	55.81	79.51	109.82
4	Less accumulated consumer contribution	0.00	0.00	0.00
5	Net fixed assets at beginning of the year	55.81	79.51	109.82
<b>6</b>	<b>Reasonable return @3% of NFA</b>	<b>1.67</b>	<b>2.39</b>	<b>3.29</b>

Sr. No.	Particulars	WIP	Fixed Assets
1	2	3	4
1	As on 31st March of previous year (11-12)	354.87	88.27
	Add capital expenditure during current year	54.15	30.00
	Total:	409.02	118.27
	Less transferred to fixed assets	30.00	-
2	As on 31st March of current year (12-13)	379.02	118.27
	Add capital expenditure during ensuing year	140.36	35.52
	Total:	519.38	153.79
	Less transferred to fixed assets	35.52	-
3	As on 31st March of ensuing year (13-14)	483.86	153.79

Sr. No.	Particulars	Amount
1	Accumulated Depreciation	
2	As on 31st March of previous year (11-12)	3.77
3	Add: Depreciation for current year (12-13)	4.98
4	As on 31st March of current year ( 11-12)	6.25
	<b>Total:</b>	15.01
5	Consumers Contribution	0.00
6	As on 31st March of previous year	0.00
7	Addition during current year	0.00
8	As on 31st March of current year	0.00
	<b>Total Consumers Contribution (6+7+8)</b>	0.00

**Electricity Department, Andaman & Nicobar Island**  
**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14**  
**Original Cost of Fixed Assets**

**(Rs. in crores)**

Sr. No.	Assets group	Value of assets at the beginning of previous year	Addition during previous year	Closing balance at the end of previous year	Addition during the current year *	Closing balance at the end of current year	Addition during ensuing year*	Closing balance at the end of ensuing year
		2011-12	2011-12	2011-12	2012-13	2012-13	2013-14	2013-14
1	2	3	4	5	6	7	8	9
1	Thermal	59.58	28.69	88.27	36.55	124.82	35.52	160.34
2	Hydro	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Internal combustion	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Transmission	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	Distribution	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	Others	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	<b>Total</b>	<b>59.58</b>	<b>28.69</b>	<b>88.27</b>	<b>36.55</b>	<b>124.82</b>	<b>35.52</b>	<b>160.34</b>

**Electricity Department, Andaman & Nicobar Island**  
**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14**  
**Works-in-Progress**

(Rs. in crores)

Sr. No.	Particulars	Previous year (actual)	Current year (RE)	Ensuing year (projections)
		2011-12	2012-13	2013-14
1	2	3	4	5
1	Opening balance	303.23	354.87	379.02
2	Add: New investments	73.78	54.15	140.36
3	<b>Total</b>	<b>377.01</b>	<b>409.02</b>	<b>519.38</b>
4	Less investment capitalized	22.14	30.00	35.52
5	Closing balance	354.87	379.02	483.86

**Electricity Department, Andaman & Nicobar Island**  
**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14**  
**Interest Capitalized**

(Rs. in crores)

Sr.No.	Interest Capitalized	Previous year (actuals)	Current year (RE)	Ensuing year (projections)
		2011-12	2012-13	2013-14
1	2	3	4	5
1	WIP*	354.87	379.02	483.86
2	GFA* at the end of the year	88.27	124.82	160.34
3	WIP+GFA at the end of the year	443.14	503.84	644.20
4	Interest(excluding interest on WCL*) 11.25%	49.85	56.68	72.47
5	Interest Capitalized	0.00	0.00	0.00

**Electricity Department, Andaman & Nicobar Island**  
**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14**

**Details of loans for the year**

**[Information to be supplied for the previous year (actuals), current year (RE) and ensuing year (projections)]**

**(Rs. in Crores)**

Sl. No.	Particulars (source)	Opening balance	Rate of interest	Addition during the year	Repayment during the year	Closing balance	Amount of interest paid	
							Current Year (RE)	Ensuing year (projections)
1	2	3	4	5	6	7	8	9
1.	SLR Bonds	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.	Non SLR Bonds	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.	LIC	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.	REC	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5.	Commercial Banks	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.	Bills discounting	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7.	Lease rental	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8.	PFC	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9.	GPF	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10.	CSS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11.	Working capital loan	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12.	Others	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13.	<b>Total</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14.	Add Govt. loan	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	-State Govt.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	-Central Govt.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15.	<b>Total (13+14)</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16.	Less capitalization	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17.	<b>Net interest</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18.	<b>Add prior period</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19.	<b>Total interest</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20.	<b>Finance charges</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21.	<b>Total interest and finance charges</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00



**Electricity Department, Andaman & Nicobar Island**  
**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14**  
**Information regarding restructuring of outstanding loans during the year**

Sr. No.	Source of loan	Amount of original loan (Rs. in crores)	Old rate of interest	Amount already restructured	Revised rate of interest	Amount now being restructured (Rs. in crores)	New rate of interest
				(Rs. in crores)			
1	2	3	4	5	6	7	8
		0.00	0.00	0.00	0.00	0.00	0.00

**Electricity Department, Andaman & Nicobar Island**  
**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14**  
**Value of Assets and Depreciation Charges**

Sr. No.	Particulars Name of the Assets	Rate of depreciation *	Previous Year		Current Year		Ensuing Year		Accumulated depreciation
			2011-12		2012-13		2013-14		
			Assets value at the beginning of the year	Depreciation charges	Assets value at the beginning of the year	Depreciation charges	Assets value at the beginning of the year	Depreciation charges	
1	2	3	4	5	6	7	8	9	10
	<b>(i) Thermal</b>								
1	Land and land rights		0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Buildings		28.28	0.94	27.33	1.25	36.09	1.84	4.04
3	Hydraulic works		0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Other civil works		0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	Plant and machinery		25.20	2.50	44.84	3.42	61.42	4.11	10.03
6	Lines and cable network		0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	Vehicles		5.30	0.28	5.02	0.27	4.76	0.25	0.80
8	Furniture and fixtures		0.80	0.05	0.75	0.05	0.70	0.04	0.14
9	Office equipment								
10	<b>Total</b>		59.58	3.77	77.95	4.98	102.96	6.25	15.01
	<b>(ii) Hydel</b>								
1	Land and land rights		0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Buildings		0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Hydraulic works		0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Other civil works		0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	Plant and machinery		0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	Lines and cable network		0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	Vehicles		0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	Furniture and fixtures		0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	Office equipment		0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	<b>Total</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00

	<b>(iii) Internal combustion</b>								
1	Land and land rights		0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Buildings		0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Hydraulic works		0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Other civil works		0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	Plant and machinery		0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	Lines and cable network		0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	Vehicles		0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	Furniture and fixtures		0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	Office equipment		0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	<b>Total</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<b>(iv) Transmission</b>								
1	Land and land rights		0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Buildings		0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Hydraulic works		0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Other civil works		0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	Plant and machinery		0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	Lines and cable network		0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	Vehicles		0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	Furniture and fixtures		0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	Office equipment		0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	<b>Total</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<b>(v) Distribution</b>								
1	Land and land rights		0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Buildings		0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Hydraulic works		0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Other civil works		0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	Plant and machinery		0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	Lines and cable network		0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	Vehicles		0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	Furniture and fixtures		0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	Office equipment		0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	<b>Total</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<b>(vi) Others</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Grand Total (i to vi)</b>		59.58	3.77	77.95	4.98	102.96	6.25	15.01

**Note \* Depreciation rates as per CERC's Depreciation Rate Schedule (Appendix-1)**

**Electricity Department, Andaman & Nicobar Island**  
**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14**  
**Calculation of Advance Against Depreciation**

**(Rs Crores)**

<b>S. No</b>	<b>Particulars</b>	<b>Previous Year</b>	<b>Current Year</b>	<b>Ensuing Year</b>
		<b>Actual 2011-12</b>	<b>Revised 2012-13</b>	<b>Projected 2013-14</b>
1	1/10th of the Loan(s)	<b>Not Applicable</b>		
2	Repayment of the Loan(s) as considered for working out Interest on Loan			
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)			

**Electricity Department, Andaman & Nicobar Island**  
**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14**  
**Repair and Maintenance Expenses**

(Rs. in crores)

Sr. No	Particulars	Previous year (actual)	Current year (RE)	Ensuing year (Projections)
		2011-12	2012-13	2013-14
1	2	3	4	5
1	Plant & machinery	30.40	33.06	35.96
	-Plant & Apparatus	0.00	0.00	0.00
	-EHV substations	0.00	0.00	0.00
	- 33kV substation	0.00	0.00	0.00
	- 11kV substation	0.00	0.00	0.00
	- Switchgear and cable connections	0.00	0.00	0.00
	- Others	0.00	0.00	0.00
	<b>Total</b>	<b>30.40</b>	<b>33.06</b>	<b>35.96</b>
2.	Building	0.00	0.00	0.00
3.	Hydraulic works & civil works			
4.	Line cable & network	0.00	0.00	0.00
	-EHV Lines	0.00	0.00	0.00
	- 33kV lines	0.00	0.00	0.00
	- 11kV lines	0.00	0.00	0.00
	- LT lines	0.00	0.00	0.00
	- Meters and metering equipment	0.00	0.00	0.00
	- Others	1.08	1.17	1.27
	<b>Total</b>	<b>1.08</b>	<b>1.17</b>	<b>1.27</b>
5.	Vehicles	0.00	0.00	0.00
6.	Furniture & fixtures	0.00	0.00	0.00
7.	Office equipments	0.00	0.00	0.00
8.	Operating expenses	0.00	0.00	
9.	<b>Total</b>	<b>31.48</b>	<b>34.23</b>	<b>37.23</b>
10.	Add/Deduct share of others (To be specified)	0.00	0.00	0.00
11.	<b>Total expenses</b>	31.48	34.23	37.23
12.	Less capitalized	0.00	0.00	0.00
13.	<b>Net expenses</b>	31.48	34.23	37.23
14.	Add prior period *	0.00	0.00	0.00
15.	<b>Total expenses charged to revenue as R&amp;M expenses</b>	<b>31.48</b>	<b>34.23</b>	<b>37.23</b>

**Electricity Department, Andaman & Nicobar Island**  
**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14**  
**Total Number of Employees**

<b>Sr. No.</b>	<b>Particulars</b>	<b>Previous Year (actuals) 2011-12</b>	<b>Current year (RE) 2012-13</b>	<b>Ensuing year (Projections) 2013-14</b>
1	2	3	4	5
1	Number of employees as on 1st April	3154	3154	3154
2	Employees on deputation/ foreign service as on 1st April	0	0	0
3	Total number of employees (1+2)	3154	3154	3154
4	Number of employees retired/retiring during the year	0	0	0
5	Number of employees at the end of the year (4-5)	3154	3154	3154

Note: Information of Number of Employee to be submitted for Generation, Transmission and Distribution separately.

**Electricity Department, Andaman & Nicobar Island**  
**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14**  
**Employee Cost for the year**

**[Information to be supplied for the previous year (actual), current year (revised) and ensuing year (projections) separately]**

(Rs. in Crores)

Sr. No	Particulars	Previous Year (actual) 2011-12	Current year (revised) 2012-13	Ensuing year (projections) 2013-14
1	2	3	4	5
	<b>Salaries &amp; Allowances</b>			
1	Basic pay	46.50	50.58	55.01
2	Dearness pay	0.00	0.00	0.00
3	Dearness allowance	11.66	12.68	13.79
4	House rent allowance	3.85	4.19	4.56
5	Fixed medical allowance	0.00	0.00	0.00
6	Medical reimbursement charges	1.10	1.19	1.29
7	Over time payment	0.79	0.86	0.94
8	Other allowances (detailed list to be attached)	13.55	14.74	16.03
9	Generation incentive	0.00	0.00	0.00
10	Bonus	0.76	0.83	0.90
11	<b>Total</b>	<b>78.21</b>	<b>85.07</b>	<b>92.52</b>
	<b>Terminal Benefits</b>			
12	Leave encashment	0.25	0.27	0.29
13	Gratuity	0.00	0.00	0.00
14	Commutation of pension	0.00	0.00	0.00
15	Workmen compensation	0.00	0.00	0.00
16	Ex-gratia	0.00	0.00	0.00
17	<b>Total</b>	<b>0.25</b>	<b>0.27</b>	<b>0.29</b>
	<b>Pension Payments</b>			
18	Basic pension	0.00	0.00	0.00
19	Dearness pension	0.00	0.00	0.00
20	Dearness allowance	0.00	0.00	0.00
21	Any other expenses	0.00	0.00	0.00
22	<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
23	<b>Total (11+17+22)</b>	<b>78.46</b>	<b>85.34</b>	<b>92.82</b>
24	Amount capitalized	34.00	36.04	39.20
25	Net amount	44.46	49.30	53.62
26	Add prior period expenses	0.00	0.00	0.00
27	<b>Grand total</b>	<b>44.46</b>	<b>49.30</b>	<b>53.62</b>

**Electricity Department, Andaman & Nicobar Island  
ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14  
Administration and General Expenses**

(Rs. in crores)

Sr. No.	Sub-head	Previous year (actual) 2011-12	Current year (RE) 2012-13	Ensuing year (projections) 2013-14
1	2	3	4	5
1	Rent, rates & taxes	0.000	0.000	0.000
2	Insurance	0.000	0.000	0.000
3	Telephone, postage & telegrams	0.100	0.110	0.120
4	Consultancy fees	0.000	0.000	0.000
5	Technical fees	0.000	0.000	0.000
6	Other professional charges	0.000	0.000	0.000
7	Conveyance & travel expenses	0.110	0.120	0.131
8	Electricity & water charges	0.000	0.000	0.000
9	Others	1.280	1.400	1.523
10	Freight	0.000	0.000	0.000
11	Other material related expenses	0.710	0.770	0.837
12	<b>Total</b>	<b>2.200</b>	<b>2.400</b>	<b>2.610</b>
13	Add/Deduct share of others (to be specified)	0.000	0.000	0.000
14	<b>Total expenses</b>	2.200	2.400	2.610
15	Less capitalized	0.000	0.000	0.000
16	<b>Net expenses</b>	2.200	2.400	2.610
17	Add prior period*	0.000	0.000	0.000
18	<b>Total expenses charged to revenue</b>	<b>2.200</b>	<b>2.400</b>	<b>2.610</b>



**Format-18**

**Electricity Department, Andaman & Nicobar Island**  
**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14**  
**Information regarding Bad and Doubtful Debts**

<b>Sr. No.</b>	<b>Particulars</b>	<b>Amount (Rs. in crores)</b>
1	2	3
1	Amount of receivable bad and doubtful debts (audited)	0.00
2	Provision made for debts in ARR	0.00

**Format-19**

**Electricity Department, Andaman & Nicobar Island**  
**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14**  
**Information regarding Working Capital for the current and ensuing year**

<b>Sr. No.</b>	<b>Particulars</b>	<b>Amount (in Crores Rs.)</b>	
		<b>Current year (RE) 2012-13</b>	<b>Ensuing year (projections) 2013-14</b>
1	2	3	4
1	Fuel Cost	16.82	19.10
2	Power Purchase Cost	13.86	15.66
3	One month's employee costs	4.11	4.47
4	Administration & general expenses	0.20	0.22
5	One month's R&M Cost	2.86	3.11
6	<b>Total</b>	<b>37.85</b>	<b>42.56</b>
	Interest on working capital	5.39	6.08

**Electricity Department, Andaman & Nicobar Island**  
**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14**  
**Information regarding Foreign Exchange Rate Variation (FERV)**

Sr. No.	Particulars	Amount (Rs. in crores)
1	2	3
1	Amount of liability provided	Nil
2	Amount recovered	
3	Amount adjusted	

**Electricity Department, Andaman & Nicobar Island**  
**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14**  
**Non Tariff Income**

(Rs. in crores)

Sr. No.	Particulars	Previous year (actuals) 2011-12	Current year (RE) 2012-13	Ensuing year (projections) 2013-14
1	2	3	4	5
1	Meter/service rent	0.415	0.436	0.457
2	Late payment surcharge	0.000	0.000	0.000
3	Theft/pilferage of energy	0.000	0.000	0.000
4	Wheeling charges under open access	0.000	0.000	0.000
5	Interest on staff loans & advance	0.000	0.000	0.000
6	Income from trading	0.000	0.000	0.000
7	Income staff welfare activities	0.000	0.000	0.000
8	Investment & bank balances	0.000	0.000	0.000
9	Misc. Receipts/income	1.486	1.560	1.638
10	<b>Total income</b>	<b>1.900</b>	<b>1.995</b>	<b>2.095</b>
11	Add prior period income*	0.000	0.000	0.000
12	<b>Total non tariff income</b>	<b>1.900</b>	<b>1.995</b>	<b>2.095</b>

**Electricity Department, Andaman & Nicobar Island**  
**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14**  
**Information regarding Revenue from Other Business**

Sr. No.	Particulars	(Amount in Crores Rupees)		
		Previous year (actual) 2011-12	Current year (RE) 2012-13	Ensuing year (projections) 2013-14
1	2	3	4	5
1	Total revenue from other business	0.00	0.00	0.00
2	Income from other business to be considered for licensed business as per regulations	0.00	0.00	0.00

Note : To be supplied for previous year, current year and ensuing year for which licence for other business was operating.

**Electricity Department, Andaman & Nicobar Island**  
**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14**

**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
		0.00	0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.00	0.00

**Electricity Department, Andaman & Nicobar Island**  
**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14**  
**Information regarding Wholesale Price Index (All Commodities)**  
**(To be supported with documentary evidence)**

Sr. No.	Period	WPI/CPI *	Increase over previous year
1	2	3	4
1	As on April 1 of Previous Year	Nil	
2	As on April 1 of Current Year		
3	As on April 1 of ensuring Year		

\*CPI is not necessary in case the same is deleted in draft Regulations 28.3(b).

**Electricity Department, Andaman & Nicobar Island**  
**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14**  
**Information regarding amount of equity and loan**

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 previous Year	26.48	61.79	70:30
2	As on March31 of current Year	37.45	87.38	70:30
3	As on March 31 of ensuring Year	48.10	112.24	70:30

**Electricity Department, Andaman & Nicobar Island**  
**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14**  
**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	April	Budget allotment from Admin. of Andaman & Nicobar & Revenue collection.	33.01	Power Purchase, O&M, A&G, R& M	33.01
2	May	- DO -	33.01	- DO -	33.01
3	June	- DO -	33.01	- DO -	33.01
4	July	- DO -	33.01	- DO -	33.01
5	August	- DO -	33.01	- DO -	33.01
6	September	- DO -	33.01	- DO -	33.01
7	October	- DO -	33.01	- DO -	33.01
8	November	- DO -	33.01	- DO -	33.01
9	December	- DO -	33.01	- DO -	33.01
10	January	- DO -	33.01	- DO -	33.01
11	February	- DO -	33.01	- DO -	33.01
12	March	- DO -	33.01	- DO -	33.01
13	<b>Total</b>		<b>396.08</b>		<b>396.08</b>

**Electricity Department, Andaman & Nicobar Island**  
**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14**

(Rs. in crores)

Sr. No.	Item of expense	Proposed by the Licensee	Revised by the Licensee	Approved by the Commission	Actuals as per accounts
1	2	3	4	5	6
1	Cost of fuel	114.60	-	-	-
2	Cost of power purchase	187.89	-	-	-
3	Employee costs	53.62	-	-	-
4	R&M expenses	37.37	-	-	-
5	Administration and general expenses	2.61	-	-	-
6	Depreciation	5.50	-	-	-
7	Interest charges (including interest on working capital)	12.81	-	-	-
8	Return on NFA /Equity	3.29	-	-	-
9	Provision for Bad Debit	0.00	-	-	-
10	Total revenue requirement	417.68	-	-	-
11	Less: non tariff income	2.10	-	-	-
12	Net revenue requirement (11-11)	415.58	-	-	-
13	Revenue from tariff	108.64	-	-	-
14	Gap (12-13)	306.94	-	-	-
15	Gap for -----	0.00	-	-	-
16	<b>Total gap (14+15)</b>	306.94	-	-	-
17	Revenue surplus carried over	0.00	-	-	-
18	Additional revenue from proposed tariff	0.00	-	-	-
19	Regulatory asset	0.00	-	-	-
20	<b>Energy sales (MU)</b>	222.23	-	-	-

**Electricity Department, Andaman & Nicobar Island**  
**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14**

**Revenue from Existing Tariff**

**(Information to be supplied for previous year (actuals), current year (RE), ensuing year (projections))**

**2011-12**

Sr. No.	Category of consumers	No. of Consumers	Energy sales (MU)	Contacte d Max. Demand KVA	Demand Charges (Rs/KVA)	Tariff rates (p/unit)	Revenue (Rs. in crores)
1	2	3	4	5	6	7	8
<b>1</b>	Domestic	0					
a)	Up to 100 units	0.00	0.00	0.00	0.00	0.00	0.00
b)	101-200 units	0.00	0.00	0.00	0.00	0.00	0.00
c)	201 & above	0.00	0.00	0.00	0.00	0.00	0.00
d)	Other charges	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total</b>	<b>91843</b>	<b>93.98</b>	<b>0.00</b>	<b>0.00</b>	<b>2.39</b>	<b>22.44</b>
<b>2</b>	Commercial	0					
	0-200 units	0.00	0.00	0.00	0.00	0.00	0.00
	201 & above	0.00	0.00	0.00	0.00	0.00	0.00
	Other charges	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total</b>	<b>16822</b>	<b>54.02</b>	<b>0.00</b>	<b>0.00</b>	<b>5.45</b>	<b>29.42</b>
<b>3</b>	Public lighting	<b>552</b>	<b>9.26</b>	<b>0.00</b>	<b>0.00</b>	<b>3.50</b>	<b>3.24</b>
	Temporary	0.00	0.00	0.00	0.00	0.00	0.00
<b>4</b>	Industrial						
a)	HT						
b)	LT	493	10.89	0.00	0.00	3.95	4.30
	<b>Total (a+b)</b>	<b>493</b>	<b>10.89</b>	<b>0.00</b>	<b>0.00</b>	<b>3.95</b>	<b>4.30</b>
<b>5</b>	Bulk supply	55	29.57	0.00	0.00	7.70	22.77
<b>6</b>	Railway traction	0.00	0.00	0.00	0.00	0.00	0.00
<b>7</b>	Common pool/ UI	0.00	0.00	0.00	0.00	0.00	0.00
<b>8</b>	Outside state	0.00	0.00	0.00	0.00	0.00	0.00
<b>9</b>	<b>Total</b>	<b>0.00</b>	<b>29.57</b>	<b>0.00</b>	<b>0.00</b>	<b>7.70</b>	<b>22.77</b>
<b>10</b>	Agriculture consumption	237	0.90	0.00	0.00	1.00	0.09
<b>11</b>	<b>Total</b>	<b>0.00</b>	<b>198.62</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>82.26</b>
<b>12</b>	Add MMC and Other charges	0.00	0.00	0.00	0.00	0.00	0.00
	Surcharge (HT)	0.00	0.00	0.00	0.00	0.00	0.00
	PF Charges (HT)	0.00	0.00	0.00	0.00	0.00	0.00
<b>13</b>	<b>Grand Total</b>	<b>110002</b>	<b>198.62</b>	<b>0.00</b>	<b>0.00</b>	<b>4.14</b>	<b>82.26</b>
<b>14</b>	<b>Grand Total</b>	<b>82.26</b>					

**Electricity Department, Andaman & Nicobar Island**  
**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14**

**Revenue from Existing Tariff**

**(Information to be supplied for previous year (actuals), current year (RE), ensuing year (projections))**

**2012-13**

Sr. No.	Category of consumers	No. of Consumers	Energy sales (MU)	Contacted Max. Demand KVA	Demand Charges (Rs/KVA)	Tariff rates (p/unit)	Revenue (Rs. in crores)
1	2	3	4	5	6	7	8
<b>1</b>	Domestic						
a)	Up to 100 units	0.00	0.00	0.00	0.00	0.00	0.00
b)	101-200 units	0.00	0.00	0.00	0.00	0.00	0.00
c)	201 & above	0.00	0.00	0.00	0.00	0.00	0.00
d)	Other charges	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total</b>	<b>98333</b>	<b>99.08</b>	<b>0.00</b>	<b>0.00</b>	<b>2.72</b>	<b>26.99</b>
<b>2</b>	Commercial						
	0-200 units	0.00	0.00	0.00	0.00	0.00	0.00
	201 & above	0.00	0.00	0.00	0.00	0.00	0.00
	Other charges	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total</b>	<b>17220</b>	<b>57.55</b>	<b>0.00</b>	<b>0.00</b>	<b>6.15</b>	<b>35.37</b>
<b>3</b>	Public lighting	<b>606</b>	<b>9.69</b>	<b>0.00</b>	<b>0.00</b>	<b>4.33</b>	<b>4.20</b>
	Temporary	0.00	0.00	0.00	0.00	0.00	0.00
<b>4</b>	Industrial						
a)	HT						
b)	LT	502	11.57	0.00	0.00	4.65	5.38
	<b>Total (a+b)</b>	<b>502</b>	<b>11.57</b>	<b>0.00</b>	<b>0.00</b>	<b>4.65</b>	<b>5.38</b>
<b>5</b>	Bulk supply	59	31.25	0.00	0.00	8.95	27.97
<b>6</b>	Railway traction	0.00	0.00	0.00	0.00	0.00	0.00
<b>7</b>	Common pool/ UI	0.00	0.00	0.00	0.00	0.00	0.00
<b>8</b>	Outside state	0.00	0.00	0.00	0.00	0.00	0.00
<b>9</b>	<b>Total</b>	<b>0.00</b>	<b>31.25</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>27.97</b>
<b>10</b>	Agriculture consumption	256	0.94	0.00	0.00	1.21	0.11
<b>11</b>	<b>Total</b>	<b>0.00</b>	<b>210.09</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>100.03</b>
<b>12</b>	Add MMC and Other charges	0.00	0.00	0.00	0.00	0.00	0.00
	Surcharge (HT)	0.00	0.00	0.00	0.00	0.00	0.00
	PF Charges (HT)	0.00	0.00	0.00	0.00	0.00	0.00
	Diff. of Arrears & Credit)	0.00	0.00	0.00	0.00	0.00	0.00
<b>13</b>	<b>Grand Total</b>	<b>116975</b>	<b>210.09</b>	<b>0.00</b>	<b>0.00</b>	<b>4.76</b>	<b>100.03</b>
<b>14</b>	<b>Grand Total</b>	<b>100.03</b>					



**Electricity Department, Andaman & Nicobar Island**  
**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14**

**Revenue from Existing Tariff**

**(Information to be supplied for previous year (actuals), current year (RE), ensuing year (projections))**

**2013-14 (As per existing Tariff)**

Sr. No.	Category of consumers	No. of Consumers	Energy sales (MU)	Contacted Max. Demand KVA	Demand Charges (Rs/KVA)	Tariff rates (p/unit)	Revenue (Rs. in crores)
1	2	3	4	5	6	7	8
<b>1</b>	Domestic						
a)	Up to 50 units	0.00	0.00	0.00	0.00	0.00	0.00
b)	51-200 units	0.00	0.00	0.00	0.00	0.00	0.00
c)	200-400 units	0.00	0.00	0.00	0.00	0.00	0.00
d)	Above 400 units	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total</b>	<b>105281</b>	<b>104.46</b>	<b>0.00</b>	<b>0.00</b>	<b>2.79</b>	<b>29.15</b>
<b>2</b>	NRS / Commercial	0.00	0.00	0.00	0.00	0.00	0.00
	0-100 units	0.00	0.00	0.00	0.00	0.00	0.00
	above 100 units	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total</b>	<b>17627</b>	<b>61.31</b>	<b>0.00</b>	<b>0.00</b>	<b>6.28</b>	<b>38.52</b>
<b>3</b>	Public lighting	<b>665</b>	<b>10.15</b>	<b>0.00</b>	<b>0.00</b>	<b>4.50</b>	<b>4.57</b>
	Temporary	0.00	0.00	0.00	0.00	0.00	0.00
<b>4</b>	Industrial						
a)	HT						
b)	LT	511	12.30	0.00	0.00	4.79	5.89
	<b>Total (a+b)</b>	<b>511</b>	<b>12.30</b>	<b>0.00</b>	<b>0.00</b>	<b>4.79</b>	<b>5.89</b>
<b>5</b>	Bulk supply	63	33.02	0.00	0.00	9.20	30.38
<b>6</b>	Railway traction	0.00	0.00	0.00	0.00	0.00	0.00
<b>7</b>	Common pool/ UI	0.00	0.00	0.00	0.00	0.00	0.00
<b>8</b>	Outside state	0.00	0.00	0.00	0.00	0.00	0.00
<b>9</b>	<b>Total</b>						
<b>10</b>	Agriculture consumption	276	0.98	0.00	0.00	1.25	0.12
<b>11</b>	<b>Total</b>	<b>0.00</b>	<b>222.23</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>108.64</b>
<b>12</b>	Add MMC and Other charges	0.00	0.00	0.00	0.00	0.00	0.00
	Surcharge (HT)	0.00	0.00	0.00	0.00	0.00	0.00
	PF Charges (HT)	0.00	0.00	0.00	0.00	0.00	0.00
<b>13</b>	<b>Grand Total</b>	<b>124424</b>	<b>222.23</b>	<b>0.00</b>	<b>0.00</b>	<b>4.89</b>	<b>108.64</b>
<b>14</b>	<b>Grand Total</b>	<b>108.64</b>					

**Electricity Department, Andaman & Nicobar Island**  
**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14**  
**Revenue from Proposed Tariff**

**(Information to be supplied for previous year (actuals), current year (RE), ensuing year (projections))**

**2013-14 (As per proposed Tariff)**

Sr. No	Category of consumers	No. of Consumers	Energy sales (MU)	Contacte d Max. Demand KVA	Demand Charges (Rs/KV A	Tariff rates (p/unit)	Revenue (Rs. in crores)
1	2	3	4	5	6	7	8
<b>1</b>	Domestic						
a)	Up to 50 units						
b)	51-200 units						
c)	200-400 units						
d)	Above 400 units						
	<b>Total</b>						
<b>2</b>	NRS / Commercial						
	0-100 units						
	above 100 units						
	<b>Total</b>						
<b>3</b>	Public lighting						
	Temporary						
<b>4</b>	Industrial						
a)	HT						
b)	LT						
	<b>Total (a+b)</b>						
<b>5</b>	Bulk supply						
<b>6</b>	Railway traction						
<b>7</b>	Common pool/ UI						
<b>8</b>	Outside state						
<b>9</b>	<b>Total</b>						
<b>10</b>	Agriculture consumption						
<b>11</b>	<b>Total</b>						
<b>12</b>	Add MMC and Other charges						
	Surcharge (HT)						
	PF Charges (HT)						
<b>13</b>	<b>Grand Total</b>						
<b>14</b>	<b>Grand Total</b>						

Change in Tariff is not proposed

<b>SUMMARY SHEET</b>				
<b>Name of the Generating Station</b>				
<b>(Rs. in crores)</b>				
<b>Sr. No.</b>	<b>Particulars</b>	<b>Previous year (actual)</b>	<b>Current year (RE)</b>	<b>Ensuing year (projections)</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>1. Calculation of Capacity / Fixed Charges</b>				
1.1	Interest on Loan Capital (Form - 4 & 5 )			
1.2	Depreciation (Form - 7)			
1.3	Advance Against Depreciation (Form - 8 )			
1.4	Return on Equity			
1.5	Operation & Maintenance Expenses (Form - 11)			
1.6	Foreign Exchange Rate Variation (Form - 10 )			
1.7	Interest on Allowed Working Capital (Form — 9 as applicable)			
1.8	Taxes on Income			
1.9	<b>Total</b>			
<b>2. Calculation of Energy / Variable charges</b>				
2.1	Rate of Energy Charge from Primary Fuel (REC) p2			
2.2	Rate of Energy Charge from Secondary Fuel (REC)			
2.3	Rate of Energy Charge ex-bus(REC) <sup>3A,3B,3C</sup> <b>Total</b>			
3	<b>Grand Total (1+2)</b>			

Tariff Norms for Energy / Variable charges								
Name of the Generation Station:								
Special features of the plant								
a) Basic Characteristics <sup>1</sup> & Site Specific Features <sup>2</sup>								
b) Environmental Regulation related Features <sup>3</sup>								
c) Any other special features								
d) Date of Commercial Operation (COD)								
e) Type of cooling System <sup>5</sup>								
Fuel Details <sup>4</sup>				Primary Fuel	Secondary Fuel	Alternate Fuels		
Mention type of fuel								
Sr. No.	Particulars	Unit	Ref.	Derivation	Previous Year			Current year
					X-3	X-2	X-1	X
					Actual	Actual	Actual	Revised
1	2	3	4	5	6	7	8	9
1	Installed Capacity	MW			Details provided vide separate Annexure			
2	PLF	%						
3	Generation	MU	A	A				
4	Auxiliary Consumption	%	B	B				
		MU						
5	Generation (Ex-bus)	MU	C	(A - B)				
6	Station Heat Rate	Kcal/kWh	D	D				
7	Specific Oil Consumption	MI/kWh	E	E				
8	Calorific Value of Fuel Oil	Kcal/Litre	F	F				
9	Calorific Value of Coal	Kcal/Kg	G	G				
10	Overall Heat rate	Gcal	H	(A x D)				
11	Heat from Oil	Gcal	I	(A x E x F)				
12	Heat from Coal	Gcal	J	(H - I)				
13	Actual Oil consumption	KL	K	(I x 1000 / F) or (A x E)				
14	Actual Coal consumption	MT		(J x 1000 / G) / 0.992				
15	Cost of Oil per KL	Rs/KL	M	M				
16	Cost of Coal per MT (incl. LADT)	Rs/MT	N	N				
17	Total cost of Oil	₹ Million	O	(M x K / 10 <sup>6</sup> )				
18	Total cost of Coal	₹ Million	P	(N x L / 10 <sup>6</sup> )				
19	Total Fuel Cost	₹ Million	Q	(O + P)				
20	Fuel Cost/ kWh	Rs/kWh	R	(Q / C)				
The Commission may relax the norm and set trajectory								

**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14****Information regarding amount of Equity & Loan**

<b>Sr. No.</b>	<b>Period</b>	<b>Amt. of Equity (Rs. in crores)</b>	<b>Amt. of Loan (Rs. in crores)</b>	<b>Ratio of equity &amp; loan</b>
1	2	3	4	5
1	As on March 31 of previous year	Details provided in format- 25		
2	As on March 31 of current year			
3	As on March 31 of ensuing year			

**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14****Interest Capitalized****(Rs. In crores)**

<b>Sr. No.</b>	<b>Interest Capitalized</b>	<b>Previous year (actuals)</b>	<b>Current year (RE)</b>	<b>Ensuing year (projections)</b>
1	2	3	4	5
1	WIP*	Details provided in format- 9		
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			

## ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14

## Details of Loans Interest and Finance Charges for the year

(Rs. In Crores)

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

Details provided in Format -10

**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14**

**Information regarding restructuring of outstanding loans during the year**

<b>Sr. No.</b>	<b>Source of Loans</b>	<b>Amount of original loans (Rs. In crores)</b>	<b>Old rate of interest</b>	<b>Amount already restructured (Rs. In crores)</b>	<b>Revised rate of interest</b>	<b>Amount now being restructured (Rs. In crores)</b>	<b>New rate of interest</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
	Details provided in Format -11						

**Calculation of Depreciation Rate**

Name of the Generating Station									
Date of Commercial operation of the Generating Station									
Capital Cost of the Generating Station									
Additional Capitalisation									
Total Capital cost of the Generating Station									
Estimated life of the Generating Station									
Rate of Depreciation						Upto (year)		After (Year)	
(Amount in Crore Rupees)									
Sr. No	Name of the Assets <sup>1</sup>	Depreciation rates as per CERC's Depreciation Rate Schedule (Appendix-1)	Previous Year		Current Year		Ensuing Year		Accumulated depreciation Amount
			Assets value at the beginning of the year	Depreciation charges	Assets value at the beginning of the year	Depreciation charges	Assets value at the beginning of the year	Depreciation charges	
1	2	3	4	5	6	7	8	9	10
1	Land	Details provided in Format -7							
2	Building								
3	and so on								
4									
5									
6									
	<b>Total</b>								
	<b>Weighted Average Depreciation Rate (%)</b>								



**Name of the Power Station:**

**Calculation of Advance Against Depreciation**

<b>(Rs Crores)</b>						
<b>Sr. No.</b>	<b>Particulars</b>	<b>Previous Year</b>		<b>Current year</b>	<b>Ensuing Year</b>	
		<b>X-2</b>	<b>X-1</b>	<b>X</b>	<b>X+1</b>	<b>X+2</b>
		<b>Actual</b>	<b>Actual</b>	<b>Revised</b>	<b>Projected</b>	<b>Projected</b>
1	1/10th of the Loan(s)					
2	Repayment of the Loan(s) as considered for working out Interest on Loan	Not applicable as there is no loan repayment				
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)					

**Name of the Power Station:****Calculation of interest on Working Capital for generation****(Rs. In Crores)**

Sr. No.	Particulars	Previous Year			Current year	Ensuing Year
		X-3	X-2	X-1	X	X+1
		Actual	Actual	Actual	Revised	Projected
1	2	3	4	5	6	7
	<b>Cost of Coal / Lignite</b>					
1	Cost of Coal / Lignite <sup>1</sup>	Being an integrated utility working capital requirement is calculated for all the functions and provided in Format -19				
2	Cost of Secondary Fuel Oil <sup>1</sup>					
3	Fuel Cost					
4	Liquid Fuel Stock <sup>2</sup>					
5	O&M expenses					
6	Maintenance spares					
7	Receivables					
8	Total working capital					
9	Rate of interest on working capital					
10	Interest on working capital					

**ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2013-14****Information regarding Foreign Exchange Rate Variation (FERV)**

Sr. No.	Particulars	Amount (Rs. In Crores)
1	2	3
1	Amount of Liability provided	
2	Amount recovered	
3	Amount adjusted	

Name of the Power Station:

Details of Operation and Maintenance Expense

Sr. No.	Particulars	Previous Year			Current year	Ensuing Year
		X-3	X-2	X-1	X	X+1
		Actual	Actual	Actual	Revised	Projected
1	2	3	4	5	6	7
(A)	<b>Breakup of O&amp;M expenses</b>	Separate power stationwise details are not maintained.Consolidated Operation & Maintenance expenses is provided in Format- 14				
1	Consumption of Stores and Spares					
2	Repair and Maintenance					
3	Insurance					
4	Security					
5	Administrative Expenses					
	- Rent					
	- Electricity Charges					
	- Travelling and conveyance					
	- Telephone, telex and postage					
	- Advertising					
	- Entertainment					
	- Others (Specify items)					
	Sub-Total (Administrative Expenses)					
6	Employee Cost					
	a) Salaries, wages and allowances					
	i. Basic pay					
	ii. Dearness pay					
	iii. Dearness allowance					
	iv. House rent allowance					
	v. Fixed medical allowance					
	vi. Medical reimbursement charges					
	vii. Over time payment					
	viii. Other allowances (detailed list to be attached)					
	ix. Generation incentive					
	x. Bonus					
	b) Staff welfare Expenses / Terminal Benefits					
	i. Leave encashment					
	ii. Gratuity					
	iii. Commutation of pension					
	iv. Workman compensation					
	v. Ex-gratia					
	<b>Total</b>					

Sr. No.	Particulars	Previous Year			Current year	Ensuing Year
		X-3	X-2	X-1	X	X+1
		Actual	Actual	Actual	Revised	Projected
1	2	3	4	5	6	7
	c) Productivity linked incentive					
	d) Pension Payments					
	i. Basic pension					
	ii. Dearness pension					
	iii. Dearness allowance					
	iv. Any other expenses					
	<b>Total</b>					
	<b>Total Employee Cost (a+b+c=4)</b>					
7	Corporate/ Head office expenses allocation					
8	Total (1 to 7)					
	LESS: Recovered, if any					
	<b>Net Expenses</b>					
<b>(B)</b>	<b>Breakup of corporate expenses (Aggregate)</b>					
	- Employee expenses					
	- Repair and maintenance					
	- Training and Recruitment					
	- Communication					
	- Travelling					
	- Security					
	- Rent					
	- Others					
	<b>Total</b>					
<b>(C)</b>	<b>Details of number of Employees</b>					
	i. Executives					
	ii. Non-Executives					
	iii. Skilled					
	iv. Non-Skilled					
	<b>Total</b>					

Name of the Generating Station:

Date of Commercial operation of the Generating Station:

**Annual Revenue Requirement for the year 2013-14**  
**Generation Tariff Determination, Return on Equity and Tax on Income**

(Rs. in Crore)							
Sr. No.	Particulars	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
1	Gross Generation (MU)	EDA&N is operating as an integrated utility and separate generation tariff is not proposed					
2	Auxiliary Consumption (MU)						
3	Net Generation (MU)						
4	Capacity Charges						
	a) Interest on Loan Capital						
	b) Depreciation						
	c) Advance Against Depreciation						
	d) O&M Expenses						
	e) Interest on Working Capital						
	f) Foreign exchange Rate Variation						
	g) Return on Equity						
	h) Taxes						
5	Energy/ Variable Charges*						
6	Total Expenses (4+ 5)						
7	Cost per Unit (3 / 6)						



भारत सरकार  
GOVERNMENT OF INDIA  
विद्युत मंत्रालय  
MINISTRY OF POWER  
केन्द्रीय विद्युत प्राधिकरण  
CENTRAL ELECTRICITY AUTHORITY (आई एस ओ : 9001-2008)  
सेवा भवन, रामाकृष्णापुरम  
SEWA BHAWAN, R.K. PURAM  
नई दिल्ली - 110 066  
NEW DELHI - 1100660

SPEED POST



No.CEA/PLG/DMLF/18EPS/2010/594

Dated: 21.03.2011

**Shri Eappan ,**  
**Assistant Engineer (Planning)**  
**Andaman & Nicobar Administration**  
**Office of the Superintending Engineer**  
**Electricity Department**  
**Port Blair – 744 101**  
**No.03192- 234718, 232685, 232404**  
**Fax No. 03192-233365**  
**Email: [aaelectricitypl\\_pb@yahoo.com](mailto:aaelectricitypl_pb@yahoo.com)**

**Subject: 18<sup>th</sup> Electric Power Survey Report of the country - reg.**

**Sir,**

The preliminary forecast of Andaman & Nicobar has been prepared based on the input data furnished by Nodal Agency of Andaman & Nicobar. The forecast broadly covers the aspirations of Andaman & Nicobar. Accordingly, T&D losses and load factor have been taken. A copy of the forecast is enclosed herewith for your reference. It is requested to communicate the observations/comments (if any) at the earliest.

Encls: As Above

Yours faithfully,

(S. Biswas)  
Director (DMLF)  
Telefax No. 011-26102119  
Mobile No.9968680450  
e-mail: [cedmfcea@indiatimes.com](mailto:cedmfcea@indiatimes.com)

FORECAST OF ENERGY CONSUMPTION  
18 TH EPS ELECTRIC POWER SURVEY  
STATE: A & N  
CATEGORY : SUMMARY

S.N.	CATEGORY	ACTUAL																	
		2003-04			2004-05			2005-06			2006-07			2007-08			2008-09		
		Urban	Rural	Total	Urban	Rural	Total	Urban	Rural	Total	Urban	Rural	Total	Urban	Rural	Total	Urban	Rural	Total
1	Domestic	36.62	18.86	55.48	37.32	19.22	56.54	38.62	19.89	58.51	42.55	21.92	64.47	47.63	24.53	72.16	49.82	25.66	75.48
2	Commercial & Misc.	18.43	7.90	26.33	19.21	8.23	27.44	20.12	8.62	28.74	23.33	10.00	33.33	26.47	11.34	37.81	28.87	12.37	41.24
3	Public Lighting	4.07	1.43	5.50	4.36	1.53	5.89	4.69	1.65	6.34	5.62	1.98	7.60	5.44	1.91	7.35	6.38	2.24	8.62
4	Public Water Works	0.72	0.08	0.80	0.76	0.08	0.84	0.79	0.09	0.88	0.83	0.10	0.93	0.88	0.09	0.97	0.92	0.10	1.02
5	Irrigation & Dewatering	0.00	0.45	0.45	0.00	0.50	0.50	0.00	0.57	0.57	0.00	0.59	0.59	0.00	0.72	0.72	0.00	0.69	0.69
6	L.T. Industries	3.49	0.87	4.36	3.73	0.93	4.66	3.66	0.92	4.58	4.90	1.23	6.13	6.42	1.61	8.03	6.14	1.54	7.68
7	NON INDUSTRIAL / BULK SUPPLY	19.23	0.19	19.42	19.46	0.20	19.66	16.97	0.17	17.14	24.26	0.25	24.51	23.53	0.24	23.77	26.49	0.27	26.76
8	<b>TOTAL CONSUM. - Mkwh</b>	<b>82.56</b>	<b>29.78</b>	<b>112.34</b>	<b>84.84</b>	<b>30.69</b>	<b>115.53</b>	<b>84.85</b>	<b>31.91</b>	<b>116.76</b>	<b>101.49</b>	<b>36.06</b>	<b>137.56</b>	<b>110.37</b>	<b>40.44</b>	<b>150.81</b>	<b>118.62</b>	<b>42.87</b>	<b>161.49</b>
9	T & D Losses - Mkwh	27.44	13.90	41.34	27.16	11.31	38.47	26.15	11.61	37.76	29.51	11.55	41.05	31.63	23.42	55.05	32.38	21.13	53.51
10	T & D Losses as % of E.R.	25.00	31.81	26.90	24.25	26.94	25.20	23.50	26.67	24.44	22.75	24.26	22.99	22.00	36.67	26.74	21.25	36.17	25.00
11	<b>Energy Requirement - Mkwh</b>	<b>110.00</b>	<b>43.68</b>	<b>153.68</b>	<b>112.00</b>	<b>42.00</b>	<b>154.00</b>	<b>111.00</b>	<b>43.52</b>	<b>154.52</b>	<b>131.00</b>	<b>47.61</b>	<b>178.61</b>	<b>142.00</b>	<b>63.86</b>	<b>205.86</b>	<b>151.00</b>	<b>64.00</b>	<b>215.00</b>
12	Annual Load Factor in %	58.00	46.73	53.70	56.00	45.79	52.52	52.00	42.61	49.47	55.00	43.48	51.62	56.00	56.12	57.33	56.00	51.05	56.67
13	<b>Peak Load - MW</b>	<b>22.00</b>	<b>10.67</b>	<b>32.67</b>	<b>23.00</b>	<b>10.47</b>	<b>33.47</b>	<b>24.00</b>	<b>11.66</b>	<b>35.66</b>	<b>27.00</b>	<b>12.50</b>	<b>39.50</b>	<b>28.00</b>	<b>12.99</b>	<b>40.99</b>	<b>29.00</b>	<b>14.31</b>	<b>43.31</b>

S.N.	ESTIMATED																				
	PROV.									ESTIMATED											
	2009-10			2010-11			2011-12			2012-13			2013-14			2014-15			2015-16		
Urban	Rural	Total	Urban	Rural	Total	Urban	Rural	Total	Urban	Rural	Total	Urban	Rural	Total	Urban	Rural	Total	Urban	Rural	Total	
1	55.41	28.55	83.96	59.40	30.60	90.00	64.87	33.07	97.94	70.83	35.74	106.57	77.33	38.65	115.98	84.41	41.78	126.19	92.17	45.19	137.36
2	33.21	14.23	47.44	36.86	15.80	52.66	39.48	16.75	56.23	42.29	17.76	60.05	45.28	18.84	64.12	48.50	19.98	68.48	51.95	21.19	73.14
3	6.19	2.17	8.36	6.68	2.35	9.03	7.22	2.53	9.75	7.79	2.74	10.53	8.42	2.95	11.37	9.09	3.19	12.28	9.82	3.45	13.27
4	0.96	0.11	1.07	1.01	0.12	1.13	1.06	0.12	1.18	1.12	0.12	1.24	1.17	0.13	1.30	1.23	0.14	1.37	1.29	0.15	1.44
5	0.00	0.75	0.75	0.00	0.82	0.82	0.00	0.89	0.89	0.00	0.97	0.97	0.00	1.06	1.06	0.00	1.15	1.15	0.00	1.26	1.26
6	6.98	1.74	8.72	7.81	1.96	9.77	8.44	2.11	10.55	9.11	2.28	11.39	9.84	2.46	12.30	10.63	2.66	13.29	11.48	2.87	14.35
7	27.40	0.28	27.68	29.05	0.29	29.34	30.21	0.30	30.51	31.42	0.32	31.74	32.67	0.33	33.00	33.98	0.34	34.32	35.34	0.36	35.70
8	130.15	47.83	177.98	140.81	51.93	192.74	151.28	55.78	207.06	162.56	59.93	222.49	174.71	64.43	239.14	187.84	69.25	257.09	202.05	74.46	276.51
9	33.85	23.17	57.02	34.19	25.07	59.26	35.72	25.22	60.94	37.44	25.07	62.51	39.29	25.57	64.86	40.16	25.75	65.91	41.95	26.54	68.49
10	20.50	32.64	24.25	19.75	32.56	23.50	19.25	31.14	22.75	18.75	29.49	22.00	18.25	28.41	21.25	17.75	27.11	20.50	17.25	26.28	19.75
11	164.00	71.00	235.00	175.00	77.00	252.00	187.00	81.00	268.00	200.00	85.00	285.00	214.00	90.00	304.00	228.00	95.00	323.00	244.00	101.00	345.00
12	59.50	57.89	59.00	60.00	58.60	59.50	61.00	57.79	60.00	62.00	57.08	60.50	63.00	57.08	61.00	64.00	57.08	61.50	65.00	54.90	62.00
13	31.00	14.00	45.00	33.00	15.00	48.00	35.00	16.00	51.00	37.00	17.00	54.00	39.00	18.00	57.00	41.00	19.00	60.00	43.00	21.00	64.00



S.N.	2016-17			2017-18			2018-19			2019-20			2020-21			2021-22			Growth	
	Urban	Rural	Total	Urban	Rural	Total	Urban	Rural	Total	Urban	Rural	Total	Urban	Rural	Total	Urban	Rural	Total	Actual (03-04)-(09-10)	Estimate (09-10)-(21-22)
1	100.63	48.87	149.50	109.85	52.82	162.67	119.94	57.12	177.06	130.93	61.75	192.68	142.97	66.79	209.76	156.07	72.21	228.28	7.15	8.69
2	55.64	22.47	78.11	59.59	23.83	83.42	63.83	25.27	89.10	68.37	26.80	95.17	73.23	28.41	101.64	78.44	30.14	108.58	10.31	7.14
3	10.60	3.73	14.33	11.45	4.02	15.47	12.37	4.34	16.71	13.36	4.69	18.05	14.42	5.07	19.49	15.58	5.47	21.05	7.23	8.00
4	1.36	0.15	1.51	1.43	0.15	1.58	1.50	0.16	1.66	1.57	0.18	1.75	1.65	0.18	1.83	1.73	0.20	1.93	5.00	5.00
5	0.00	1.37	1.37	0.00	1.49	1.49	0.00	1.63	1.63	0.00	1.78	1.78	0.00	1.94	1.94	0.00	2.11	2.11	8.89	9.00
6	12.40	3.10	15.50	13.39	3.35	16.74	14.46	3.62	18.08	15.62	3.90	19.52	16.87	4.21	21.08	18.22	4.55	22.77	12.25	8.33
7	36.75	0.38	37.13	38.22	0.39	38.61	39.75	0.40	40.15	41.34	0.42	41.76	43.00	0.43	43.43	44.72	0.45	45.17	6.08	4.17
8	217.38	80.06	297.44	233.93	86.06	319.99	251.85	92.55	344.40	271.19	99.51	370.70	292.14	107.04	399.18	314.76	115.13	429.89	7.97	7.63
9	43.62	25.94	69.56	45.07	25.94	71.01	47.15	25.45	72.60	48.81	25.49	74.30	50.86	24.96	75.82	52.24	24.87	77.11		
10	16.75	24.47	41.22	16.25	23.16	39.41	15.75	21.57	37.32	15.25	20.39	35.64	14.75	18.91	33.66	14.25	17.77	51.43		
11	261.00	106.00	367.00	279.00	112.00	391.00	299.00	118.00	417.00	320.00	125.00	445.00	343.00	132.00	475.00	367.00	140.00	507.00	7.34	6.62
12	66.00	55.00	121.00	67.00	55.59	122.59	68.00	53.88	121.88	69.00	54.88	123.88	70.00	53.82	123.82	71.00	53.27	126.27		
13	45.00	22.00	67.00	48.00	23.00	71.00	50.00	25.00	75.00	53.00	26.00	79.00	56.00	28.00	84.00	59.00	30.00	99.00	5.48	5.85

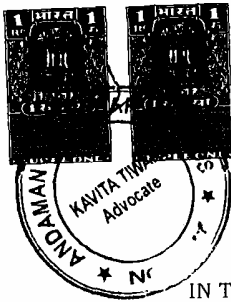
**DETAILS OF CAPITAL EXPENDITURE 2011-12(ACTUAL) , 2012-13 (ESTIMATED)  
& PROPOSED OUTLAY 2013-14 (Rs. in lakhs)**

<b>Sch. No.</b>	<b>Name of scheme</b>	<b>Expenditure (Actual) 2011-12</b>	<b>Expenditure (Estimated) 2012-13</b>	<b>Proposed Outlay 2013-14</b>
1.	Strengthening of Admn. & infrastructures in Electricity Department	1770.12	1596.00	1449.00
2.	Construction/ Strengthening of T&D system in A&N Islands	1241.71	1241.00	1227.00
3.	Augmentation of generating capacity in A&N Islands	2392.05	1323.00	10564.00
4.	Construction & Maintenance of Civil Infrastructures for Electricity Department	554.16	414.00	465.00
5.	Development of IT in Electricity Department under National e-Governance programme	1400.00	821.00	300.00
6.	Establishment of Andaman grid connecting Port Blair to Diglipur	0.00	10.00	18.00
7.	Addition of 75 MW generating capacity in South Andaman and encouragement of private sector investment and IPP participation	20.00	5.00	5.00
8.	Feasibility study for establishment of Nuclear/Gas based power plants	0.00	5.00	8.00
	<b>Total</b>	<b>7378.04</b>	<b>5415.00</b>	<b>14036.00</b>

**BEFORE THE JOINT ELECTRICITY REGULATORY COMMISSION**  
**FOR THE STATE OF GOA AND UNION TERRITORIES**  
**AT GURGAON**

Petition No. : 61/ 2012 (Suo-moto)

IN THE MATTER OF : **COMPLIANCE OF JOINT ELECTRICITY REGULATORY COMMISSION FOR THE STATE OF GOA AND UTS (PROCUREMENT OF RENEWABLE ENERGY) REGULATIONS 2010 REGARDING RENEWABLE PURCHASE OBLIGATION (RPO).**



AND

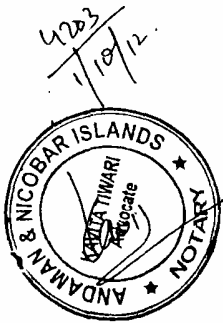
IN THE MATTER OF : **SECRETARY (POWER)**  
**UT OF ANDAMAN & NICOBAR.**

The Secretary (Power),  
A & N Administration  
Electricity Department, A & N Islands ..... **Respondent**

**AFFIDAVIT OF RESPONDENT**

Most Respectfully Sheweth:

1. The Joint Electricity Regulatory Commission (JERC) vide order dated 31.07.2012 has directed to submit Status report and Road Map in the above matter by 28.09.2012.
2. The status report in respect of UT of Andaman & Nicobar Islands is detailed below :
  - i. Most of the issues related to establishment of 5MW SPV plant at Garacharma Hill, South Andaman has been settled. M/s NTPC has already completed the preliminary work like soil testing, contour survey, fencing etc. The mounting structure has been received at site and 2MW SPV panel is under shipment. The installation and commissioning of the above plant is expected to complete by the end of 2012.



- ii. The LOA is issued to M/s Suryachakra Green Fuels Pvt. Ltd., for installation and commissioning of 2MW Biomass based power plant on DBFOT pattern under PPA. The DPR submitted by the firm has been scrutinized and requested to re-submit a fresh DPR immediately after certain modification. The firm has agreed to submit the same within one month. The project will complete within next two years.
- iii. The 1MW SPV project at Middle Andaman awaits clearance from Forest Department for felling of trees from the allotted revenue land of about 2 Hectare. A letter dtd. 26<sup>th</sup> July 2012 from Department of Environment & Forests, Port Blair send to the Member Secretary, Central Empowered Committee (CEC), New Delhi for approval for felling of 59 Nos. of naturally grown trees standing in the allotted revenue land at Nimbutala in North and Middle Andaman District for establishment of 1MW Solar Power Plant. The same is awaited. The project can be processed further only after removal of trees, though the preliminary work like contour survey and fencing are completed.
- iv. A small hydro project (3 X 1.75 MW) namely Kalpong Hydel project is operational since September, 2001 and caters to Power need of North Andaman normally and exports power to Middle Andaman during rainy days when the Dam overflows.
- v. MNRE has approved two more micro Hydel project over Kalpong down stream (500Kw) and Korang Nallah (200 Kw). The SFC for the above has also been obtained and are under further process. NHPC have been requested to take up the work on nomination basis but their reply is still awaited.
- vi. DPRs for 05 more Micro Hydel Projects sent to MNRE for approval. MNRE has advised to get the same vetted by CEA.



*Tiwari*

vii. All the 06 Nos 50 Mtr. wind monitoring stations have been closed on completion of data collection for two consecutive years as per the advice of Center for Wind Energy Technology (C-WET), Chennai. Only one wind monitoring station at IRBN complex is in progress. C-WET officials have assured to visit A&N Islands shortly to finalize installation of 250 KW Wind Generator at Hog Point, Car Nicobar and there after DPR for the same shall be prepared by C-WET.

viii. The draft RFP for three cluster of roof top SPV power plant in big govt. buildings and SPV power plant in 16 different islands has been prepared and sent for approval of competent authority and will be uploaded in official web site of administration for submission of proposal by 1<sup>st</sup> week of October '2012.

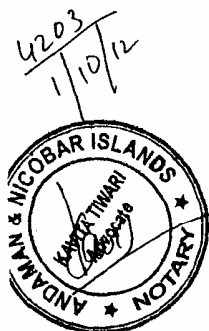
3. The total energy consumption & procurement from renewable sources vis-à-vis defined minimum percentage as per the JERC Regulations-14/2010 (Procurement of Renewable Energy) are detailed below:

Year	Minimum quantum of purchase (In %) from renewable energy sources (in kWh)					
	Total		Solar		Non-Solar(Hydro)	
	Target	Achieved	Target	Achieved	Target	Achieved
2010-11	1%	4.10%	0.25%	0.00%	0.75%	4.10%
2011-12	2%	4.55%	0.30%	0.00%	1.70%	4.55%
2012-13	3%	*	0.40%	*	2.60%	

\* - The 5MW SPV plant is expected to be commissioned at Garacharma, Port Blair by end of 2012 and the expected generation for the 1st year is 6.941 MU which shall account for 2.52% of the Total Generation. Thereby the target quantum of RPO (Solar) including carry forward RPO will be achieved in the FY 2013-14.

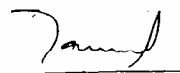
### Affidavit

I, Yameen Mohd. Murtaza, S/o, Late M.Abdul Gafoor, aged 59 years, working as Superintending Engineer, Electricity Department, A&N Administration, Port Blair, is authorized to file this reply, on behalf of the A&N Administration.

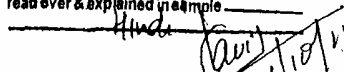


At Port Blair

Dated: / /2012

  
For Respondent

Affirmed before me after the contents were read over & explained in simple

  
KAVITA TIWARI  
ADVOCATE & NOTARY  
PORT BLAIR



Annexure - IV

भारतीय लेखा तथा लेखा – परिक्षा विभाग  
**INDIAN AUDIT AND ACCOUNTS DEPARTMENT**  
प्रधान निदेशक लेखा परीक्षा का कार्यालय (केन्द्रीय) कोलकाता  
**OFFICE OF THE PRINCIPAL DIRECTOR OF AUDIT (CENTRAL) KOLKATA**  
शाखा : केन्द्र शासित प्रदेश अण्डमान निकोबार द्वीप समूह  
**Branch : Union Territory of Andaman and Nicobar Islands**

पत्र सं.:

Letter No. ....

दिनांक.

Date .....

**AUDIT CERTIFICATE**

I have examined the Pro forma Accounts of the Electricity Department under the Superintending Engineer, Electricity Department (ANI), Port Blair for the year 2010-11 and Balance Sheet as on 31.03.2011

I have obtained all the information and explanation that I have required and subject to the observation made in the appended Inspection Report, I certify that these accounts are properly drawn up so as to exhibit a true and fair view of the state of affairs of the Superintending Engineer, Electricity Department (ANI), Port Blair.

**DIRECTOR (ANI)**

अण्डमान निकोबार द्वीप समूह, एस. पी. / 1, साअथ प्वाइंट, पोर्ट ब्लेयर – 744106

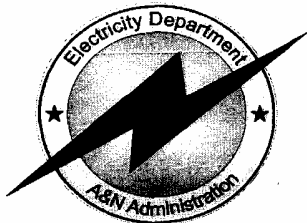
Andaman & Nicobar Islands, SP/1, South Point, Port Blair - 744106

टेलीफोन सं. : 03192 - 227195 तथा 228542

Telephone No. : 03192 - 227195 & 228542

फैक्स : 03192 - 227437

Fax : 03192 - 227437



**ANDAMAN AND NICOBAR ADMINISTRATION  
ELECTRICITY DEPARTMENT**

**PROFORMA ACCOUNTS  
FOR THE YEAR 2010-11**

<b>INCOME AND EXPENDITURE STATEMENT OF ELECTRICITY DEPARTMENT</b>				
<b>2009-10</b>	<b>Item no.</b>	<b>Particulars of expenditure</b>	<b>2010-11 subtotal</b>	<b>2010-11 grand total</b>
	<b>A</b>	<b>OIL POWER GENERATION</b>		
	<b>I</b>	<b>RUNNING OPERATION</b>		
734,918,172	a	H.S.D oil consumed	760,760,097	
12,612,212	b	Lub oil consumed	9,624,312	
-	c	Fresh water consumed	-	
1,136,262,159	d	Purchase of power	1,278,350,552	
<b>1,883,792,542</b>		<b>Total of AI (a to d)</b>	<b>2,048,734,961</b>	
183,409,736	e	Station supplies & Misc. Exp.	209,628,496	
151,338,000	f	Proportionate salaries, allowances, pension & house rent of PH staff	178,908,750	
2,483,250	g	Wages & Gratuity of labours	-	
<b>337,230,986</b>		<b>Total of AI (e to g)</b>	<b>388,537,246</b>	
<b>2,221,023,528</b>		<b>Total of AI (a to g)</b>		<b>2,437,272,207</b>
	<b>II</b>	<b>REPAIR AND MAINTENANCE</b>		
50,446,000	a	Proportionate salaries, allowances, pension & house rent of PH staff	59,636,250	
827,750	b	Wages & Gratuity of labours	-	
61,136,579	c	Station supplies & Misc. Exp.	69,876,165	
<b>112,410,329</b>		<b>Total of All</b>		<b>129,512,415</b>
	<b>III</b>	<b>DEPRECIATION</b>		
15,290,193	a	Steam & oil generation	14,801,979	
1,943,749	b	Building	2,560,083	
<b>17,233,942</b>		<b>Total of AIII</b>		<b>17,362,062</b>
<b>23,435,492</b>	<b>IV</b>	<b>PROPORTIONATE GENERAL &amp; ADMINISTRATIVE EXP.</b>		<b>26,070,045</b>
<b>2,374,103,290</b>		<b>TOTAL C/F</b>		<b>2,610,216,729</b>



<b>INCOME AND EXPENDITURE STATEMENT OF ELECTRICITY DEPARTMENT</b>				
<b>2009-10</b>	<b>Item no.</b>	<b>Particulars of expenditure</b>	<b>2010-11 subtotal</b>	<b>2010-11 grand total</b>
<b>2,374,103,290</b>			<b>B/F</b>	<b>2,610,216,729</b>
	<b>B</b>	<b>TRANSMISSION &amp; DISTRIBUTION</b>		
138,396,600	a	Proportionate salaries, allowances, pension & house rent of T & D staff	117,405,000	
3,771,900	b	Wages & Gratuity of labours	-	
11,336,420	c	Misc. Expenditure	9,889,809	
23,435,492	d	Proportionate General & Administrative Expenditure	26,070,045	
4,635,239	e	Depreciation	4,579,485	
<b>181,575,651</b>		<b>Total of B (a to e)</b>		<b>157,944,339</b>
	<b>C</b>	<b>CONSUMER SERVICE</b>		
15,377,400	a	Proportionate salaries, allowances, pension & house rent of staff	13,045,000	
419,100	b	Wages & Gratuity of labours	-	
1,259,602	c	Misc. Store	1,098,868	
<b>17,056,102</b>		<b>Total of C</b>		<b>14,143,868</b>
<b>449,004,645</b>	<b>D</b>	<b>INTEREST ON MEAN CAPITAL</b>		<b>494,419,110</b>
<b>4,725</b>	<b>E</b>	<b>AUDIT FEES</b>		<b>4,725</b>
<b>325,494</b>	<b>F</b>	<b>DEPRECIATION ON T&amp;P</b>		<b>309,219</b>
	<b>G</b>	<b>DEPRECIATION ON FURNITURE &amp; FIXTURES</b>		<b>259,648</b>
259,648		<b>VEHICLES</b>		<b>1,757,973</b>
<b>3,022,847,384</b>				<b>3,279,055,611</b>

FOR THE YEAR ENDED 31st MARCH 2011				
2009-10	Item no.	Particulars of Income	2010-11	2010-11
			Sub-Total	Grand Total
	<b>A I</b>	<b>NET REVENUE BY SALE OF ENERGY</b>		
716,471,710	i	Actual Realised	801,178,065	
80,897,392	ii	Less Previous Dues Realised	102,994,587	
52,619,137	iii	Add Outstanding for the Year	31,316,222	
<b>688,193,455</b>		<b>Total of A I</b>	<b>729,499,700</b>	
	<b>II</b>	<b>PUBLIC LIGHT</b>		
26,804,368	i	Actual Realised	29,359,800	
8,807,407	ii	Less Previous Dues Realised	9,697,557	
10,304,568	iii	Add Outstanding for the Year	11,464,381	
<b>28,301,529</b>		<b>Total II</b>	<b>31,126,624</b>	
<b>716,494,984</b>		<b>Total by Sale of Energy A ( I + II )</b>		<b>760,626,324</b>
	<b>B</b>	<b>MISC. REVENUE FROM CONSUMER</b>		
	<b>a</b>	<b>METER RENT</b>		
4,213,526	i	Actual Realised	4,489,923	
685,890	ii	Less Previous Dues Realised	737,279	
209,474	iii	Add Outstanding for the Year	197,592	
		Less arrear adjustment		
<b>3,737,110</b>		<b>Total</b>		<b>3,950,236</b>
	<b>C</b>	<b>NEW SERVICE CONNECTION</b>		
85,174	i	Actual Realised	187,332	
434	ii	Less Previous Dues Realised	152	
-	iii	Add Outstanding for the Year	-	
<b>84,740</b>		<b>Total</b>		<b>187,180</b>
	<b>D</b>	<b>ESTIMATES, RC FEES etc.</b>		
10,271,483	i	Actual Realised	12,707,872	
631,073	ii	Less Previous Dues Realised	780,085	
-	iii	Add Outstanding for the Year	-	
<b>9,640,410</b>		<b>Total</b>		<b>11,927,787</b>
<b>729,957,244</b>		<b>TOTAL C/F</b>		<b>776,691,527</b>

FOR THE YEAR ENDED 31st MARCH 2011			
729,957,244		B/F	776,691,527
	E	Miscellaneous & others	
2,073,191	i	Actual Realised	1,766,729
-	ii	Less Previous Dues Realised	-
-	iii	Add Outstanding for the Year	-
2,073,191		Total	1,766,729
19,706	F	SALE OF WASTE OIL	30,702
385,650	G	NRSE	235,774
	H	SALE OF SOLAR ENERGY	
	I	SALE OF SOLAR LANTERN	
	J	SALE OF UNSERVICEABLE ITEMS	
	K	ESTIMATE FOR SHIFTING OF LINES	
	L	HIRE CHARGES OF VEHICLES	
	M	SALE OF TENDER FORMS	
2,290,411,593		Net Loss (i.e Expenditure over Income )	2,500,330,879
3,022,847,384			3,279,055,611

**Balance Sheet as on 31st March, 2011**

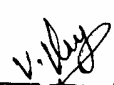
2009-10	Item no.	LIABILITIES	2010-11 sub total	2010-11 grand total
	I	<b>CAPITAL ACCOUNT</b>		
	A	<b>GOVT. CAPITAL ACCOUNT</b>		
3,522,651,060	i	Opening Balance	3,874,460,060	
351,809,000	ii	Add Drawal	396,370,000	
<b>3,874,460,060</b>		<b>Total of A</b>	<b>4,270,830,060</b>	
	B	<b>CURRENT ACCOUNT</b>		
13,537,681,259	i	Opening Balance	14,853,784,805	
1,625,151,000	ii	Add Drawal	2,501,800,000	
449,004,645	iii	Add Interest on Capital	494,419,110	
<b>15,611,836,904</b>		<b>Total</b>	<b>17,850,003,915</b>	
758,052,099		Less Remittance	849,592,902	
<b>14,853,784,805</b>		<b>Total of B</b>	<b>17,000,411,013</b>	
	C	<b>Losses</b>		
-	i	Up to Previous Year		
-	ii	Add During the Year		
-		<b>Total of C</b>	-	
<b>18,728,244,865</b>		<b>TOTAL A+B-C</b>		<b>21,271,241,073</b>
		<b>DEPRECIATION FUND</b>		
-		Depreciation upto previous year		<b>0</b>
<b>106,202,060</b>	II A	<b>SUSPENSE ACCOUNT</b>		<b>96,275,033</b>
	B	<b>CURRENT LIABILITY &amp; PROVISION</b>		
	a	Security Deposit		
	i	Staff Security Deposit		
13,178,554	ii	Consumer Security Deposit	13,391,294	
<b>13,178,554</b>		<b>Total</b>		<b>13,391,294</b>
<b>482,247</b>	b	Undisbursed Salaries		<b>386,502</b>
	III	<b>SUNDRY CREDITORS TO OPEN ACCOUNT</b>		
-	i	Bulk Power Purchased	-	
2,795,585,918	ii	DGS & D Purchased	3,068,703,316	
321,729,937	iii	Other Sundry Creditors	443,535,594	
<b>3,117,315,855</b>		<b>Total</b>		<b>3,512,238,910</b>
	IV	<b>ACCOUNT PAYABLE</b>		
2,840,705	i	Salaries & Wages Payable	5,086,088	
36,484,631	ii	Pension	40,780,720	
<b>39,325,336</b>		<b>Total</b>		<b>45,866,808</b>
	V	<b>OTHER CURRENT ACCOUNT LIABILITY</b>		
<b>228,365</b>		Audit Fees		<b>233,090</b>
<b>22,004,977,281</b>		<b>GRAND TOTAL</b>		<b>24,939,632,710</b>


**Balance Sheet as on 31st March, 2011**

2009-10	Item no.	LIABILITIES	2010-11 sub total	2010-11 grand total
	I	<b>CAPITAL ACCOUNT</b>		
	A	<b>GOVT. CAPITAL ACCOUNT</b>		
3,522,651,060	i	Opening Balance	3,874,460,060	
351,809,000	ii	Add Drawal	396,370,000	
<b>3,874,460,060</b>		<b>Total of A</b>	<b>4,270,830,060</b>	
	B	<b>CURRENT ACCOUNT</b>		
13,537,681,259	i	Opening Balance	14,853,784,805	
1,625,151,000	ii	Add Drawal	2,501,800,000	
449,004,645	iii	Add Interest on Capital	494,419,110	
<b>15,611,836,904</b>		<b>Total</b>	<b>17,850,003,915</b>	
758,052,099		Less Remittance	849,592,902	
<b>14,853,784,805</b>		<b>Total of B</b>	<b>17,000,411,013</b>	
	C	<b>Losses</b>		
-	i	Up to Previous Year		
-	ii	Add During the Year		
-		<b>Total of C</b>	-	
<b>18,728,244,865</b>		<b>TOTAL A+B-C</b>		<b>21,271,241,073</b>
		<b>DEPRECIATION FUND</b>		
-		Depreciation upto previous year		<b>0</b>
<b>106,202,060</b>	II A	<b>SUSPENSE ACCOUNT</b>		<b>96,275,033</b>
	B	<b>CURRENT LIABILITY &amp; PROVISION</b>		
	a	Security Deposit		
	i	Staff Security Deposit		
13,178,554	ii	Consumer Security Deposit	13,391,294	
<b>13,178,554</b>		<b>Total</b>		<b>13,391,294</b>
<b>482,247</b>	b	Undisbursed Salaries		<b>386,502</b>
	III	<b>SUNDRY CREDITORS TO OPEN ACCOUNT</b>		
-	i	Bulk Power Purchased	-	
2,795,585,918	ii	DGS & D Purchased	3,068,703,316	
321,729,937	iii	Other Sundry Creditors	443,535,594	
<b>3,117,315,855</b>		<b>Total</b>		<b>3,512,238,910</b>
	IV	<b>ACCOUNT PAYABLE</b>		
2,840,705	i	Salaries & Wages Payable	5,086,088	
36,484,631	ii	Pension	40,780,720	
<b>39,325,336</b>		<b>Total</b>		<b>45,866,808</b>
	V	<b>OTHER CURRENT ACCOUNT LIABILITY</b>		
<b>228,365</b>		Audit Fees		<b>233,090</b>
<b>22,004,977,281</b>		<b>GRAND TOTAL</b>		<b>24,939,632,710</b>

**Balance Sheet as on 31st March, 2011**

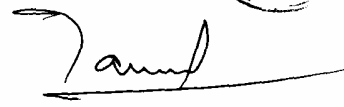
		B/F	
			3,482,625,936
	<b>H</b>	<b>STORES CAPITAL IN HAND</b>	
106,202,060	i	Suspense Stores	96,275,033
159,638,717	ii	Capital Stores 4801(P)	145,159,999
<b>265,840,777</b>		<b>Total of I G</b>	<b>241,435,032</b>
	<b>I</b>	<b>OPERATIVE STORE IN HAND</b>	
190,590,079	i	Material in Store	200,378,313
51,797,003	ii	Cost of Fuel Balance	69,392,053
<b>242,387,082</b>		<b>Total</b>	<b>269,770,366</b>
	<b>II</b>	<b>SUNDRY DEBTORS</b>	
690,629	i	By Sale of Energy	43,668,824
-	ii	Due to Deposit Work	1,308,195
14,271,884	iii	Due from other Departments	14,271,884
<b>14,962,513</b>		<b>Total</b>	<b>59,248,903</b>
	<b>III</b>	<b>BALANCE WITH BANK &amp; POST</b>	
		<b>OFFICE SAVING ACCOUNT</b>	
13,178,554	i	Consumer Security Deposit	13,391,294
	ii	Staff Security Deposit	-
<b>13,178,554</b>		<b>Total</b>	<b>13,391,294</b>
	<b>IV</b>	<b>CASH IN HAND</b>	
3,000	i	Permanent Imprest	3,000
482,247	ii	Undisbursed Salaries & Allowances	386,502
3,776,757	iii	Revenue Receipt under Remittance	4,140,052
<b>4,262,004</b>		<b>Total</b>	<b>4,529,554</b>
		<b>Losses</b>	
<b>16,077,889,153</b>		<b>Upto Previous Year</b>	<b>18,368,300,746</b>
<b>2,290,411,593</b>		<b>Add During the year</b>	<b>2,500,330,879</b>
			<b>20,868,631,625</b>
<b>22,004,977,282</b>		<b>GRAND TOTAL</b>	<b>24,939,632,710</b>

  
**सहायक लेखा अधिकारी**  
**Assistant Accounts Officer**  
 विद्युत विभाग / Electricity Department  
 पोर्ट ब्लेयर / Port Blair.

  
**लेखा अधिकारी / Accounts Officer**  
**विद्युत विभाग / Electricity Department**  
 पोर्ट ब्लेयर / Port Blair

Amirul Teuac



  
**अधीक्षक अभियंता / Superintending Engineer**  
**विद्युत विभाग / Electricity Department**  
 पोर्ट ब्लेयर / Port Blair

## Summary of power purchase cost

(Rs. In Crores)

	2011-12		2012-13		2013-14	
	Cost of Fuel	Power Purchase	Cost of Fuel	Power Purchase	Cost of Fuel	Power Purchase
IPP		145.99		166.27		187.89
Own Generation	92.02		100.93		114.60	
IPP	2011-12		2012-13		2013-14	
Fixed Charge	174152663		155992436		163792058	
(+) IT Amount	3854615		0		0	
(+) HSD	1259385848		1476371864		1676220941	
(+) LUB Oil	26870550		34214091		38845482	
(-) Rebate	4353817	1459909859	3899811	1662678580		1878858480
Units Purchased		136956240		149711953		158362852
Per unit cost		10.66		11.11		11.86

## Summary of Power Purchase Cost including Own Generation for FY 2011-12

SL. No.	Source	Gross Generation (MU's)	Auxillary Consumption	Net Energy available/sent out (MU)	Heat Rate (Kcal/Kwh)	Calorific Value (Kcal)	Density (Kg/m3)	Total Oil consumption(KL)	Rate/KL	HSD Cost (Rs. Crores)	Cons(g m)/unit	Density (Kg/m3)	Total Lub consumption(LT)	Cost(per LT.)	Lube Oil Cost (Rs. Crores)	Total Amount (Rs. Crores)	Rs./K Wh
1	2	3	4	5						6					7	8	9
1	IPP- SPCL	140.95	3.9920	136.96	2010.00	10246.43	0.82	33718.57	38345.17	129.29	1.1	0.8894	174323.16	169.22	2.95	132.24	9.38
2	Chatham	25.42	1.3385	24.08	2010.00	10246.43	0.82	6081.20	38345.17	23.32	1.1	0.8894	31439.48	169.22	0.53	23.85	9.38
3	Phoneix Bay	18.56	0.4444	18.12	2010.00	10246.43	0.82	4440.90	38345.17	17.03	1.1	0.8894	22959.19	169.22	0.39	17.42	9.38
4	Raj Niwas	0.07	0.0000	0.07	2010.00	10246.43	0.82	17.90	38345.17	0.07	1.1	0.8894	92.56	169.22	0.00	0.07	9.38
5	Secretarait	0.01	0.0000	0.01	2010.00	10246.43	0.82	2.56	38345.17	0.01	1.1	0.8894	13.25	169.22	0.00	0.01	9.38
6	Neil Island	0.97	0.0267	0.94	2010.00	10246.43	0.82	231.64	38345.17	0.89	1.1	0.8894	1197.57	169.22	0.02	0.91	9.38
7	Havelock	3.94	0.0093	3.93	2010.00	10246.43	0.82	943.24	38345.17	3.62	1.1	0.8894	4876.50	169.22	0.08	3.70	9.38
8	Rutland	0.03	0.0012	0.03	2010.00	10246.43	0.82	7.32	38345.17	0.03	1.1	0.8894	37.84	169.22	0.00	0.03	9.38
9	Baratang	0.36	0.0030	0.35	2010.00	10246.43	0.82	85.06	38345.17	0.33	1.1	0.8894	439.77	169.22	0.01	0.33	9.38
10	Rangat	21.22	1.0417	20.18	2010.00	10246.43	0.82	5076.10	38345.17	19.46	1.1	0.8894	26243.14	169.22	0.44	19.91	9.38
11	Long Island	0.50	0.0423	0.45	2010.00	10246.43	0.82	118.72	38345.17	0.46	1.1	0.8894	613.75	169.22	0.01	0.47	9.38
12	Strait Island	0.03	0.0000	0.03	2010.00	10246.43	0.82	7.96	38345.17	0.03	1.1	0.8894	41.14	169.22	0.00	0.03	9.38
13	Hanspuri	0.02	0.0026	0.01	2010.00	10246.43	0.82	4.20	38345.17	0.02	1.1	0.8894	21.71	169.22	0.00	0.02	9.38
14	Jagannath Dera	0.04	0.0027	0.04	2010.00	10246.43	0.82	10.76	38345.17	0.04	1.1	0.8894	55.61	169.22	0.00	0.04	9.38
15	Paschim Sagar	0.10	0.0036	0.10	2010.00	10246.43	0.82	24.60	38345.17	0.09	1.1	0.8894	127.17	169.22	0.00	0.10	9.38
16	Smith Island	0.05	0.0017	0.05	2010.00	10246.43	0.82	11.28	38345.17	0.04	1.1	0.8894	58.32	169.22	0.00	0.04	9.38
17	Sita Nagar	1.22	0.0168	1.21	2010.00	10246.43	0.82	292.54	38345.17	1.12	1.1	0.8894	1512.44	169.22	0.03	1.15	9.38
18	KHEP**	11.33	0.1739	11.16	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0	0.00	0.00	0.00
19	Hutbay	8.86	0.3642	8.50	2010.00	10246.43	0.82	2120.64	38345.17	8.13	1.1	0.8894	10963.60	169.22	0.19	8.32	9.38
20	Dugong Creek	0.03	0.0005	0.03	2010.00	10246.43	0.82	7.00	38345.17	0.03	1.1	0.8894	36.20	169.22	0.00	0.03	9.38
21	Car Nicobar	8.12	0.4212	7.70	2010.00	10246.43	0.82	1942.13	38345.17	7.45	1.1	0.8894	10040.72	169.22	0.17	7.62	9.38
22	Kamorta	1.94	0.0082	1.93	2010.00	10246.43	0.82	464.78	38345.17	1.78	1.1	0.8894	2402.87	169.22	0.04	1.82	9.38
23	Pillpillow	0.05	0.0007	0.04	2010.00	10246.43	0.82	10.85	38345.17	0.04	1.1	0.8894	56.07	169.22	0.00	0.04	9.38
24	Kakana	0.04	0.0011	0.04	2010.00	10246.43	0.82	10.63	38345.17	0.04	1.1	0.8894	54.93	169.22	0.00	0.04	9.38
25	Champion	0.26	0.0055	0.26	2010.00	10246.43	0.82	63.37	38345.17	0.24	1.1	0.8894	327.63	169.22	0.01	0.25	9.38
26	Katchal	1.07	0.0216	1.05	2010.00	10246.43	0.82	256.14	38345.17	0.98	1.1	0.8894	1324.21	169.22	0.02	1.00	9.38
27	Teressa	0.68	0.0113	0.67	2010.00	10246.43	0.82	162.90	38345.17	0.62	1.1	0.8894	842.17	169.22	0.01	0.64	9.38
28	Chowra	0.22	0.0081	0.21	2010.00	10246.43	0.82	52.87	38345.17	0.20	1.1	0.8894	273.32	169.22	0.00	0.21	9.38
29	Campbell Bay	4.24	0.0961	4.14	2010.00	10246.43	0.82	1013.99	38345.17	3.89	1.1	0.8894	5242.25	169.22	0.09	3.98	9.38
	<b>Total</b>	<b>250.35</b>	<b>8.0389</b>	<b>242.31</b>				<b>57179.83</b>		<b>219.26</b>			<b>295616.59</b>		<b>5.00</b>	<b>224.26</b>	



**Summary of Power Purchase Cost including Own Generation for FY 2012-13**

SL. No.	Source	Gross Generation (MU's)	Auxillary Consumption	Net Energy available /sent out (MU)	Heat Rate	Calorific Value	Density (Kg/m3 )	Total Oil consumption(KL)	Rate/KL	HSD Cost (Rs. Crores)	Con s(g m)/unit	Density (Kg/m3)	Total Lub consumption(LT)	Cost(p er LT.)	Lube Oil Cost (Rs. Crores)	Total Amount (Rs. Crores)	Rs./K Wh
1	2	3	4	5						6					7	8	9
1	IPP- SPCL	152.40	4.31	148.09	2010.00	10267.66	0.82	36184.19	40801.57	147.64	1.1	0.8894	188486.62	181.52	3.42	151.06	9.91
2	Chatham	25.40	1.29	24.11	2010.00	10267.66	0.82	6030.70	40801.57	24.61	1.1	0.8894	31414.44	181.52	0.57	25.18	9.91
3	Phoneix Bay	20.04	0.46	19.58	2010.00	10267.66	0.82	4758.08	40801.57	19.41	1.1	0.8894	24785.25	181.52	0.45	19.86	9.91
4	Raj Niwas	0.08	0.00	0.08	2010.00	10267.66	0.82	18.99	40801.57	0.08	1.1	0.8894	98.94	181.52	0.00	0.08	9.91
5	Secretarait	0.01	0.00	0.01	2010.00	10267.66	0.82	2.37	40801.57	0.01	1.1	0.8894	12.37	181.52	0.00	0.01	9.91
6	Neil Island	0.93	0.03	0.90	2010.00	10267.66	0.82	220.81	40801.57	0.90	1.1	0.8894	1150.21	181.52	0.02	0.92	9.91
7	Havelock	4.14	0.01	4.13	2010.00	10267.66	0.82	982.96	40801.57	4.01	1.1	0.8894	5120.31	181.52	0.09	4.10	9.91
8	Rutland	0.03	0.00	0.03	2010.00	10267.66	0.82	7.12	40801.57	0.03	1.1	0.8894	37.10	181.52	0.00	0.03	9.91
9	Baratang	0.21	0.00	0.21	2010.00	10267.66	0.82	49.86	40801.57	0.20	1.1	0.8894	259.73	181.52	0.00	0.21	9.91
10	Rangat	22.51	0.51	22.00	2010.00	10267.66	0.82	5344.53	40801.57	21.81	1.1	0.8894	27840.12	181.52	0.51	22.31	9.91
11	Long Island	0.37	0.03	0.34	2010.00	10267.66	0.82	87.85	40801.57	0.36	1.1	0.8894	457.61	181.52	0.01	0.37	9.91
12	Strail Island	0.03	0.00	0.03	2010.00	10267.66	0.82	7.12	40801.57	0.03	1.1	0.8894	37.10	181.52	0.00	0.03	9.91
13	Hanspuri	0.02	0.00	0.02	2010.00	10267.66	0.82	4.75	40801.57	0.02	1.1	0.8894	24.74	181.52	0.00	0.02	9.91
14	Jagannath Dera	0.04	0.00	0.04	2010.00	10267.66	0.82	9.50	40801.57	0.04	1.1	0.8894	49.47	181.52	0.00	0.04	9.91
15	Paschim Sagar	0.08	0.00	0.08	2010.00	10267.66	0.82	18.99	40801.57	0.08	1.1	0.8894	98.94	181.52	0.00	0.08	9.91
16	Smith Island	0.05	0.00	0.05	2010.00	10267.66	0.82	11.87	40801.57	0.05	1.1	0.8894	61.84	181.52	0.00	0.05	9.91
17	Sita Nagar	0.56	0.01	0.55	2010.00	10267.66	0.82	132.96	40801.57	0.54	1.1	0.8894	692.60	181.52	0.01	0.56	9.91
18	KHEP**	12.33	0.19	12.14	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0	0.00	0.00	0.00
19	Hutbay	9.58	0.40	9.18	2010.00	10267.66	0.82	2274.57	40801.57	9.28	1.1	0.8894	11848.44	181.52	0.22	9.50	9.91
20	Dugong Creek	0.03	0.00	0.03	2010.00	10267.66	0.82	7.12	40801.57	0.03	1.1	0.8894	37.10	181.52	0.00	0.03	9.91
21	Car Nicobar	8.70	0.47	8.23	2010.00	10267.66	0.82	2065.63	40801.57	8.43	1.1	0.8894	10760.06	181.52	0.20	8.62	9.91
22	Kamorta	2.00	0.01	1.99	2010.00	10267.66	0.82	474.86	40801.57	1.94	1.1	0.8894	2473.58	181.52	0.04	1.98	9.91
23	Pillpillow	0.06	0.00	0.06	2010.00	10267.66	0.82	14.25	40801.57	0.06	1.1	0.8894	74.21	181.52	0.00	0.06	9.91
24	Kakana	0.06	0.00	0.06	2010.00	10267.66	0.82	14.25	40801.57	0.06	1.1	0.8894	74.21	181.52	0.00	0.06	9.91
25	Champion	0.27	0.01	0.26	2010.00	10267.66	0.82	64.11	40801.57	0.26	1.1	0.8894	333.93	181.52	0.01	0.27	9.91
26	Katchal	1.13	0.02	1.11	2010.00	10267.66	0.82	268.29	40801.57	1.09	1.1	0.8894	1397.57	181.52	0.03	1.12	9.91
27	Teressa	0.72	0.02	0.70	2010.00	10267.66	0.82	170.95	40801.57	0.70	1.1	0.8894	890.49	181.52	0.02	0.71	9.91
28	Chowra	0.24	0.01	0.23	2010.00	10267.66	0.82	56.98	40801.57	0.23	1.1	0.8894	296.83	181.52	0.01	0.24	9.91
29	Campbell Bay	4.54	0.10	4.44	2010.00	10267.66	0.82	1077.93	40801.57	4.40	1.1	0.8894	5615.02	181.52	0.10	4.50	9.91
	<b>Total</b>	<b>266.56</b>	<b>7.88</b>	<b>258.68</b>				<b>60361.59</b>		<b>246.28</b>			<b>314428.82</b>		<b>5.71</b>	<b>251.99</b>	

**Summary of Power Purchase Cost including Own Generation for FY 2013-14**

SL. No.	Source	Gross Generation (MU's)	Auxillary Consumption	Net Energy available/sent out (MU)	Heat Rate	Calorific Value	Density (Kg/m3)	Total Oil consumption(KL)	Rate/KL	HSD Cost (Rs. Crores)	Co ns( gm )/u nit	Density (Kg/m3)	Total Lub consumption(LT)	Cost(per LT.)	Lube Oil Cost (Rs. Crores)	Total Amount (Rs. Crores)	Rs./K Wh
1	2	3	4	5						6					7	8	9
1	IPP- SPCL	164.79	4.66	160.13	2010.00	10267.66	0.82	39125.97	42841.65	167.62	1.1	0.8894	203810.58	190.596	3.88	171.51	10.41
2	Chatham	27.47	1.39	26.07	2010.00	10267.66	0.82	6520.99	42841.65	27.94	1.1	0.8894	33968.43	190.596	0.65	28.58	10.41
3	Phoneix Bay	21.67	0.50	21.17	2010.00	10267.66	0.82	5144.91	42841.65	22.04	1.1	0.8894	26800.29	190.596	0.51	22.55	10.41
4	Raj Niwas	0.09	0.00	0.09	2010.00	10267.66	0.82	20.54	42841.65	0.09	1.1	0.8894	106.99	190.596	0.00	0.09	10.41
5	Secretarait	0.01	0.00	0.01	2010.00	10267.66	0.82	2.57	42841.65	0.01	1.1	0.8894	13.37	190.596	0.00	0.01	10.41
6	Neil Island	1.01	0.03	0.97	2010.00	10267.66	0.82	238.76	42841.65	1.02	1.1	0.8894	1243.73	190.596	0.02	1.05	10.41
7	Havelock	4.48	0.01	4.47	2010.00	10267.66	0.82	1062.87	42841.65	4.55	1.1	0.8894	5536.59	190.596	0.11	4.66	10.41
8	Rutland	0.03	0.00	0.03	2010.00	10267.66	0.82	7.70	42841.65	0.03	1.1	0.8894	40.12	190.596	0.00	0.03	10.41
9	Baratang	0.23	0.00	0.23	2010.00	10267.66	0.82	53.91	42841.65	0.23	1.1	0.8894	280.84	190.596	0.01	0.24	10.41
10	Rangat	24.34	0.55	23.79	2010.00	10267.66	0.82	5779.04	42841.65	24.76	1.1	0.8894	30103.52	190.596	0.57	25.33	10.41
11	Long Island	0.40	0.03	0.37	2010.00	10267.66	0.82	94.99	42841.65	0.41	1.1	0.8894	494.82	190.596	0.01	0.42	10.41
12	Strail Island	0.03	0.00	0.03	2010.00	10267.66	0.82	7.70	42841.65	0.03	1.1	0.8894	40.12	190.596	0.00	0.03	10.41
13	Hanspuri	0.02	0.00	0.02	2010.00	10267.66	0.82	5.13	42841.65	0.02	1.1	0.8894	26.75	190.596	0.00	0.02	10.41
14	Jagannath Dera	0.04	0.00	0.04	2010.00	10267.66	0.82	10.27	42841.65	0.04	1.1	0.8894	53.49	190.596	0.00	0.05	10.41
15	Paschim Sagar	0.09	0.00	0.09	2010.00	10267.66	0.82	20.54	42841.65	0.09	1.1	0.8894	106.99	190.596	0.00	0.09	10.41
16	Smith Island	0.05	0.00	0.05	2010.00	10267.66	0.82	12.84	42841.65	0.05	1.1	0.8894	66.87	190.596	0.00	0.06	10.41
17	Sita Nagar	0.61	0.01	0.59	2010.00	10267.66	0.82	143.77	42841.65	0.62	1.1	0.8894	748.91	190.596	0.01	0.63	10.41
18	KHEP**	13.33	0.21	13.13	0.00	0	0.00	0.00	0.00	0.00	0	0	0.00	0	0.00	0.00	0.00
19	Hutbay	10.36	0.43	9.93	2010.00	10267.66	0.82	2459.49	42841.65	10.54	1.1	0.8894	12811.72	190.596	0.24	10.78	10.41
20	Dugong Creek	0.03	0.00	0.03	2010.00	10267.66	0.82	7.70	42841.65	0.03	1.1	0.8894	40.12	190.596	0.00	0.03	10.41
21	Car Nicobar	9.41	0.51	8.90	2010.00	10267.66	0.82	2233.57	42841.65	9.57	1.1	0.8894	11634.86	190.596	0.22	9.79	10.41
22	Kamorta	2.16	0.01	2.15	2010.00	10267.66	0.82	513.46	42841.65	2.20	1.1	0.8894	2674.68	190.596	0.05	2.25	10.41
23	Pillpillow	0.06	0.00	0.06	2010.00	10267.66	0.82	15.40	42841.65	0.07	1.1	0.8894	80.24	190.596	0.00	0.07	10.41
24	Kakana	0.06	0.00	0.06	2010.00	10267.66	0.82	15.40	42841.65	0.07	1.1	0.8894	80.24	190.596	0.00	0.07	10.41
25	Champion	0.29	0.01	0.28	2010.00	10267.66	0.82	69.32	42841.65	0.30	1.1	0.8894	361.08	190.596	0.01	0.30	10.41
26	Katchal	1.22	0.02	1.20	2010.00	10267.66	0.82	290.11	42841.65	1.24	1.1	0.8894	1511.19	190.596	0.03	1.27	10.41
27	Teressa	0.78	0.02	0.76	2010.00	10267.66	0.82	184.85	42841.65	0.79	1.1	0.8894	962.88	190.596	0.02	0.81	10.41
28	Chowra	0.26	0.01	0.25	2010.00	10267.66	0.82	61.62	42841.65	0.26	1.1	0.8894	320.96	190.596	0.01	0.27	10.41
29	Campbell Bay	4.91	0.11	4.80	2010.00	10267.66	0.82	1165.56	42841.65	4.99	1.1	0.8894	6071.52	190.596	0.12	5.11	10.41
	<b>Total</b>	<b>288.23</b>	<b>8.52</b>	<b>279.71</b>				<b>65268.99</b>		<b>279.62</b>			<b>339991.89</b>		<b>6.48</b>	<b>286.10</b>	

## Plant Load Factor of the Power House for 2011-12

SL. No.	Name of the Power House	Total Capacity MW	Total Capacity KW	Gross Generation (KWh)	Auxillary Consumption KW	Plant Load Factor
1	2	3	4	5	6	7
1	IPP- SPCL	20	20000	140948200	3991960	80.45
2	Chatham	15	15000	25420250	1338480	19.35
3	Phoneix Bay	8	8000	18563550	444400	26.49
4	Raj Niwas	0.512	512	74840	0	1.67
5	Secretarait	0.256	256	10710	0	0.48
6	Neil Island	0.634	634	968292	26689	17.43
7	Havelock	1.33	1330	3942875	9261	33.84
8	Rutland	0.012	12	30596	1163	29.11
9	Baratang	0.512	512	355572	2994	7.93
10	Rangat	10.036	10036	21218768	1041656	24.14
11	Long Island	0.892	892	496245	42264	6.35
12	Strait Island	0.015	15	33260	0	25.31
13	Hanspuri	0.027	27	17551	2593	7.42
14	Jagannath Dera	0.043	43	44966	2730	11.94
15	Paschim Sagar	0.18	180	102823	3640	6.52
16	Smith Island	0.045	45	47156	1710	11.96
17	Sita Nagar	2.368	2368	1222876	16816	5.90
18	KHEP**	5.25	5250	11334000	173868	24.64
19	Hutbay	6.65	6650	8864572	364152	15.22
20	Dugong Creek	0.047	47	29273	511	7.11
21	Car Nicobar	5.92	5920	8118378	421249	15.65
22	Kamorta	1.024	1024	1942826	8232	21.66
23	Pillpillow	0.056	56	45335	746	9.24
24	Kakana	0.056	56	44417	1056	9.05
25	Champion	0.295	295	264906	5460	10.25
26	Katchal	0.924	924	1070682	21625	13.23
27	Teressa	0.756	756	680934	11330	10.28
28	Chowra	0.164	164	220995	8140	15.38
29	Campbell Bay	2.706	2706	4238600	96142	17.88
	<b>Total</b>	<b>83.71</b>	<b>83710</b>	<b>250353448</b>	<b>8038867</b>	<b>485.88</b>

**Plant Load Factor of the Power House for 2012-13**

SL. No.	Source	Total Capacity MW	Total Capacity KW	Gross Generation (MU's)	Auxillary Consumption	Plant Load Factor
1	2	3	4	5	6	7
1	IPP- SPCL	20	20000	152400000	4310000	86.99
2	Chatham	15	15000	25400000	1290000	19.33
3	Phoneix Bay	8	8000	20040000	460000	28.60
4	Raj Niwas	0.512	512	80000	0	1.78
5	Secretarait	0.256	256	10000	0	0.45
6	Neil Island	0.634	634	930000	30000	16.75
7	Havelock	1.33	1330	4140000	10000	35.53
8	Rutland	0.012	12	30000	0	28.54
9	Baratang	0.512	512	210000	0	4.68
10	Rangat	10.036	10036	22510000	510000	25.60
11	Long Island	0.892	892	370000	30000	4.74
12	Strail Island	0.015	15	30000	0	22.83
13	Hanspuri	0.027	27	20000	0	8.46
14	Jagannath Dera	0.043	43	40000	0	10.62
15	Paschim Sagar	0.18	180	80000	0	5.07
16	Smith Island	0.045	45	50000	0	12.68
17	Sita Nagar	2.368	2368	560000	10000	2.70
18	KHEP**	5.25	5250	12330000	190000	26.81
19	Hutbay	6.65	6650	9580000	400000	16.45
20	Dugong Creek	0.047	47	30000	0	7.29
21	Car Nicobar	5.92	5920	8700000	470000	16.78
22	Kamorta	1.024	1024	2000000	10000	22.30
23	Pillpillow	0.056	56	60000	0	12.23
24	Kakana	0.056	56	60000	0	12.23
25	Champion	0.295	295	270000	10000	10.45
26	Katchal	0.924	924	1130000	20000	13.96
27	Teressa	0.756	756	720000	20000	10.87
28	Chowra	0.164	164	240000	10000	16.71
29	Campbell Bay	2.706	2706	4540000	100000	19.15
	<b>TOTAL</b>	<b>83.71</b>	<b>83710</b>	<b>266560000</b>	<b>7880000</b>	<b>500.56</b>

**Plant Load Factor of the Power House for 2013-14**

SL. No.	Source	Total Capacity MW	Total Capacity KW	Gross Generation (MU's)	Auxillary Consumption	Plant Load Factor
1	2	3	4	5	6	7
1	IPP- SPCL	20	20000	164790120	4660403	94.06
2	Chatham	15	15000	27465020	1394877	20.90
3	Phoneix Bay	8	8000	21669252	497398	30.92
4	Raj Niwas	0.512	512	86504	0	1.93
5	Secretarait	0.256	256	10813	0	0.48
6	Neil Island	0.634	634	1005609	32439	18.11
7	Havelock	1.33	1330	4476582	10813	38.42
8	Rutland	0.012	12	32439	0	30.86
9	Baratang	0.512	512	227073	0	5.06
10	Rangat	10.036	10036	24340063	551463	27.69
11	Long Island	0.892	892	400081	32439	5.12
12	Strail Island	0.015	15	32439	0	24.69
13	Hanspuri	0.027	27	21626	0	9.14
14	Jagannath Dera	0.043	43	43252	0	11.48
15	Paschim Sagar	0.18	180	86504	0	5.49
16	Smith Island	0.045	45	54065	0	13.72
17	Sita Nagar	2.368	2368	605528	10813	2.92
18	KHEP**	5.25	5250	13332429	205447	28.99
19	Hutbay	6.65	6650	10358854	432520	17.78
20	Dugong Creek	0.047	47	32439	0	7.88
21	Car Nicobar	5.92	5920	9407310	508211	18.14
22	Kamorta	1.024	1024	2162600	10813	24.11
23	Pillpillow	0.056	56	64878	0	13.23
24	Kakana	0.056	56	64878	0	13.23
25	Champion	0.295	295	291951	10813	11.30
26	Katchal	0.924	924	1221869	21626	15.10
27	Teressa	0.756	756	778536	21626	11.76
28	Chowra	0.164	164	259512	10813	18.06
29	Campbell Bay	2.706	2706	4909102	108130	20.71
	<b>TOTAL</b>	<b>83.710</b>	<b>83710</b>	<b>288231328</b>	<b>8520644</b>	<b>541.25</b>

**BEFORE THE JOINT ELECTRICITY REGULATORY COMMISSION**  
**FOR THE STATE OF GOA AND UNION TERRITORIES**  
**AT GURGAON**

Petition No. : 75 / 2012 (Suo-moto)

IN THE MATTER OF : **STANDARD OF PERFORMANCE (SOP) NON-SUBMISSION OF MONTHLY / QUARTERLY AND ANNUAL REPORT.**



AND



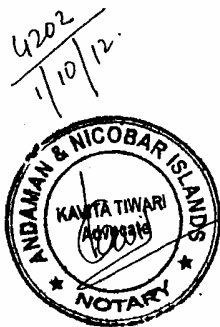
IN THE MATTER OF : **SECRETARY (POWER)  
UT OF ANDAMAN & NICOBAR.**

The Secretary (Power),  
A & N Administration  
Electricity Department, A & N Islands ..... Respondent

**AFFIDAVIT OF RESPONDENT**

Most Respectfully Sheweth:

1. The Joint Electricity Regulatory Commission (JERC) vide order dated 21.06.2012 has directed to submit detailed report, Action Plan, Road Map and status on Standard of Performance as per the JERC Regulation- 6/2009 by 31.07.2012.
2. It was submitted at the hearing on 31.07.2012 that the Electricity Department, A&N Islands is a small government department under A&N Administration and despite of all logistical constraints the department is meeting its obligation to supply electricity to all the consumers even in the remotest part of all the inhabited islands.
3. Further it was requested that A&N ED may kindly be exempted from the applicability of JERC Regulation-06/2009 on Standard of Performance (SOP) considering the geographical spread and remoteness of the area of operation. It was also submitted that a separate petition shall be filled with the request to get exempted under 8<sup>th</sup> proviso of section 14 of the Electricity Act, 2003.



*Tand*

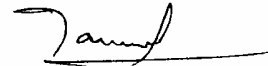
4. The JERC vide its order dated 31.07.2012 rejected the request for above exemption. The Hon'ble Commission observed that "However, faced with geographical constraints, logistics problem, the respondent is allowed to submit the parameters, which they deem fit is achievable by them along with road map to achieve the same for consideration of the Commission." Further the Hon'ble Commission directed to file status report and road map and scheduled the next hearing on 10.10.2012.

5. The status report & Road map is enclosed as Annexure- A

Hon'ble Commission may kindly accept the request and accede to the same.

### **Affidavit**

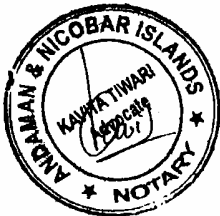
I, Yameen Mohd. Murtaza, S/o, Late M.Abdul Gafoor, aged 59 years, working as Superintending Engineer, Electricity Department, A&N Administration, Port Blair, is authorized to file this reply, on behalf of the A&N Administration.



For Respondent

At Port Blair

Dated: 1 / 10 / 2012



4202  
1/10/12

Affirmed before me after the contents were read over & explained in simple

\_\_\_\_\_

KAVITA TIWARI  
ADVOCATE & NOTARY  
PORT BLAIR

1/10/12

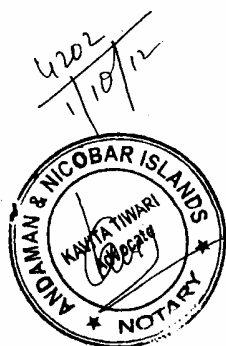
Annexure -A

STATUS REPORT & ROAD MAP

The Electricity Department, A&N Islands has been praying before the Hon'ble Commission for exemption from the applicability of SOP due to the various constraints detailed in Annexure-B.

Road Map for implementation of SOP:

1. It is proposed to implement the SOP in the entire stretch of the Islands of Andaman & Nicobar in three phases :
  - i. 1<sup>st</sup> phase - In the municipal area of Port Blair from 01.01.2013.
  - ii. 2<sup>nd</sup> phase - In the complete main Island of South Andaman from 01.01.2014. (as indicated in the map at Exhibit -1)
  - iii. 3<sup>rd</sup> phase - In entire Andaman Islands comprising of main Island of South, Middle & North Andaman including Baratang Island from 01.06.2015. (as indicated in the map at Exhibit - 2)
  - iv. The Nicobar group of Islands and other remote small Islands of Andaman group may kindly be exempted from the applicability of SOP.
  
2. It is submitted that the Maximum Time Limit for restoration of power supply and other parameters as prescribed in Schedule -I & II of the JERC Regulation-06/2009 on Standard of Performance (SOP) can be implemented in it's present form with certain relaxations as mentioned below which may be considered and allowed by the Hon,ble Commission:-
  
3.
  - (i) The complaints received after 2200 hrs. by the licensee will be attended next morning. However, preventive safety measures will be taken immediately on receipt of complaint.
  
  - (ii) The relaxation is sought till such time the department is equipped with required infrastructure and manpower to ensure rendering & meeting the service standards prescribed in the SOP.



Contd..P/2.



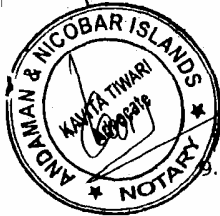
// 2 //

4. The Electricity Department A& N Administration has kept a provision to interconnected the three major Island of Andaman group viz. South, Middle & North Andaman by a proposed "Andaman Grid", 300 km Transmission line (110/132 KV).The PGCIL has been requested to carry out the feasibility study of this project and the Andaman grid is expected to be commissioned in next three years of the submission of feasibility report by PGCIL. This scheme will enable to have a common grid, which will be connecting the three major islands catering to the demand of 90% of the total number of electric consumers in the UT of A&N islands.
  
5. The Electricity Department has started collection of electric bills, lodging of consumer complaints and issue of new connection forms through "Common Service Centers" (CSCs) in the municipal area of Port Blair which is working satisfactorily but still not web based. The bill collection is from 0800 Hrs. to 2000 Hrs. on all week days & 0800 Hrs. to 1300 Hrs. on Sundays. This facility will very soon be interconnected through a common web and will be extended in complete South Andaman Island in the 1<sup>st</sup> phase and Middle & North Andaman Islands in 2<sup>nd</sup> phase within next three months & rest of the Islands subsequently.

**Annexure - B**

**Constraints of the Electricity Department, A&N Islands**

1. The Andaman & Nicobar group of Islands consist of 572 Islands, Islets and rocks in the Bay of Bengal, scattered over a distance of about 750 Km. in the form of a chain, with the northern tip being in the vicinity of Myanmar and southern tip being close to Indonesia. The capital of the Territory Port Blair, is about 1200 Km. from mainland cities of Chennai & Kolkata.
2. 100% Dependence on supply of fuel, spares and other materials from Mainland.
3. Most of the DG Sets of higher capacity are imported engines and thus any emergency spares has to be arranged from outside India, which forces the department to exercise load shedding. Sometimes service personnel's are required to be called from other countries to attend certain breakdowns.
4. Transportation of fuel and other materials to distant islands from Port Blair is through sea route and totally dependent on steamers/ship. The sailing of these ships are subject to weather conditions. Many a times due to cyclone, the UT Administrations is even unable to transport the essential commodity such as food grains.
5. The availability of passenger / cargo ship is very much limited and pertains the department is forced to curtail the power supply powers in isolated islands due shortage of HSD for due to non availability of ships.
6. Non availability of skilled hand and proper maintain staff. In case of emergency deputing of skilled staff takes much longer time to reach the site due to erratic sailing schedule of passenger ships in isolated islands.
7. Some of the inhabited islands have a small Power House ranging from 5 to 10 KW for meeting obligation of the department for 15 to 20 families only.
8. Almost entire UT of Andaman & Nicobar Islands falls under Rural category and some of the areas are declared as tribal zone where the movement of general public are even restricted. Prior permission (Tribal Pass) requires to be obtained from appropriate authority to enter such zones.
9. Above all the major constraint is shortage of high level Technical & Managerial staff.



**D Fuel Consumption and Auxilliary Fuel Consumption in respect of Diesel Generating stations separately for each stations for the year 2010-11.**

Sl. No.	Particulars	Total Installed capacity			Power House wise installed capacity	No. of Running Hours	HSD Consumption	Auxilliary HSD Consumption
		DG size	Qty.	Total				
		KW	Nos.	MW				
1	2	3	4	5	6	7	8	9
1	IPP	5000	4	20.000	20.000	8760	34001071	994512
2	Chatham	2500	5	15.000	15.000	8760	5581718	355664
3	Phoneix Bay	1000	2	2.000	8.000	8760	4757551	116878
		1200	5	6.000				
4	Raj Niwas	256	2	0.512	0.512	2176	40220	0
5	Secretarait	256	1	0.256	0.256	2743	3982	0
6	Neil Island	128	3	0.384	0.634	7952	388530	9731
		100	2	0.200				
		50	1	0.050				
7	Havelock	256	5	1.280	1.330	8134	1137581	3065
		50	1	0.050				
8	RutLand	12	1	0.012	0.012	372	1085	0
9	Baratang	256	1	0.256	0.512	1991	108252	1266
		256	1	0.256				
10	Rangat	800	4	3.200	10.036	8760	5728594	304949
		1000	5	5.000				
		248	7	1.736				
		100	1	0.100				
11	Long Island	128	4	0.512	0.892	8760	178255	12600
		65	2	0.130				
		50	5	0.250				
12	Strait Island	15	1	0.015	0.015	1447	4091	0
13	Hanspuri	12	1	0.012	0.027	2175	5868	848
		15	1	0.015				
14	Jagannath Dera	24	1	0.024	0.043	4200	22162	663
		18.75	1	0.019				
15	Paschim Sagar	65	2	0.130	0.180	4360	52087	1569
		50	1	0.050				
16	Smith Island	21	1	0.021	0.045	3950	19451	764
		12	2	0.024				
17	Sita Nagar	256	3	0.768	2.368	3483	144480	851
		800	2	1.600				
18	KHEP **	1750	3	5.250	5.250	7378		
19	Hutbay	250	1	0.250	6.650	8760	2258604	89857
		800	3	2.400				
		1000	4	4.000				
20	Dugong Creek	16	2	0.032	0.047	4186	12897	212
		15	1	0.015				
21	Car Nicobar	256	7	1.792	5.920	8760	2039311	106577
		128	1	0.128				
		1000	4	4.000				
22	Kamorta	256	4	1.024	1.024	8452	611135	2859
23	Pillpillow	24	1	0.024	0.056	2415	24427	583
		32	1	0.032				
24	Kakana	24	1	0.024	0.056	2685	25128	633
		32	1	0.032				
25	Champion	65	3	0.195	0.295	8760	99385	2661
		50	2	0.100				
26	Katchal	250	3	0.750	0.924	8760	348911	10031
		50	3	0.150				
		12	2	0.024				
27	Teressa	50	4	0.200	0.756	8760	225388	4342
		256	2	0.512				
		32	1	0.032				
		12	1	0.012				
28	Chowra	50	2	0.100	0.164	5104	74450	1635
		32	2	0.064				
29	Campbell Bay	800	3	2.4	2.706	8760	1273755	31433
		256	1	0.256				
		50	1	0.05				
<b>Grand Total</b>			<b>142</b>	<b>83.710</b>	<b>83.710</b>	<b>8760</b>	<b>59168369</b>	<b>2054182</b>

**Fuel Consumption and Auxilliary Fuel Consumption in respect of Diesel Generating stations separately for each stations for the year 2011-12.**

Sl. No.	Particulars	Total Installed capacity			Power House wise installed capacity	No.of Running Hours	HSD Consumption	Auxilliary HSD Consumption
		DG size	Qty.	Total				
		KW	Nos.	MW				
		3	4	5	6	7	8	9
1	IPP	5000	4	20.000	20.000	7344	34001071	793674
2	Chatham	2500	5	15.000	15.000	7344	5630041	285889
3	Phoneix Bay	1000	2	2.000	8.000	7344	4324827	100496
		1200	5	6.000				
4	Raj Niwas	256	2	0.512	0.512	1389	29840	0
5	Secretarait	256	1	0.256	0.256	4553	3275	0
6	Neil Island	128	3	0.384	0.634	7312	295680	8629
		100	2	0.200				
		50	1	0.050				
7	Havelock	256	5	1.280	1.330	7340	1007448	2454
		50	1	0.050				
8	RutLand	12	1	0.012	0.012	2928	8575	321
9	Baratang	256	1	0.256	0.512	4730	94360	755
		256	1	0.256				
10	Rangat	800	4	3.200	10.036	6575	4921729	240737
		1000	5	5.000				
		248	7	1.736				
		100	1	0.100				
11	Long Island	128	4	0.512	0.892	7343	145370	13269
		65	2	0.130				
		50	5	0.250				
12	Strait Island	15	1	0.015	0.015	4180	8528	0
13	Hanspuri	12	1	0.012	0.027	1814	4947	787
		15	1	0.015				
14	Jagannath Dera	24	1	0.024	0.043	3642	18166	1251
		18.75	1	0.019				
15	Paschim Sagar	65	2	0.130	0.180	4351	42828	1781
		50	1	0.050				
16	Smith Island	21	1	0.021	0.045	3413	15737	605
		12	2	0.024				
17	Sita Nagar	256	3	0.768	2.368	3280	176065	2551
		800	2	1.600				
18	KHEP **	1750	3	5.250	5.250	6411		0
19	Hutbay	250	1	0.250	6.650	6988	2073285	86437
		800	3	2.400				
		1000	4	4.000				
20	Dugong Creek	16	2	0.032	0.047	3672	11442	197
		15	1	0.015				
21	Car Nicobar	256	7	1.792	5.920	7344	1875275	100693
		128	1	0.128				
		1000	4	4.000				
22	Kamorta	256	4	1.024	1.024	6536	464561	2015
23	Pillpillow	24	1	0.024	0.056	1863	15163	250
		32	1	0.032				
24	Kakana	24	1	0.024	0.056	1679	15135	377
		32	1	0.032				
25	Champion	65	3	0.195	0.295	3852	80150	1723
		50	2	0.100				
26	Katchal	250	3	0.750	0.924	6473	266415	5608
		50	3	0.150				
		12	2	0.024				
27	Teressa	50	4	0.200	0.756	7344	195719	3184
		256	2	0.512				
		32	1	0.032				
		12	1	0.012				
28	Chowra	50	2	0.100	0.164	4083	66182	2366
		32	2	0.064				
29	Campbell Bay	800	3	2.4	2.706	7612	1040205	23627
		256	1	0.256				
		50	1	0.05				
<b>Grand Total</b>			<b>142</b>	<b>83.710</b>	<b>83.710</b>		<b>56832019</b>	<b>1679677</b>