

**PETITION FOR APPROVAL OF  
THE ANNUAL  
REVENUE REQUIREMENT AND  
TARIFF PROPOSAL  
FOR FY 2014-15  
UNDER SECTION 61, 62 & 64  
OF  
THE ELECTRICITY ACT 2003**

Submitted by:  
Department of Power, Arunachal Pradesh

**GENERAL HEADINGS OF PROCEEDINGS**

**BEFORE HON'BLE ARUNACHAL PRADESH STATE ELECTRICITY REGULATORY  
COMMISSION**

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

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

**IN THE MATTER OF :   Petition for Approval of Annual Revenue Requirement  
                                  (ARR) and Tariff Proposal for FY 2014-15 for The State of  
                                  Arunachal Pradesh under Sections 61, 62 and 64 of The  
                                  Electricity Act 2003**

**AND**

**IN THE MATTER OF :   The Department of Power, Vidyut Bhawan,  
THE PETITIONER                                   Itanagar, Arunachal Pradesh**

**.....Petitioner**

Department of Power, Govt. of Arunachal Pradesh (hereinafter referred to as "DOP,AP"), files petition for Approval of Annual Revenue Requirement (ARR) and Tariff Proposal for FY 2014-15 under Sections 61, 62 and 64 of The Electricity Act.

**A F F I D A V I T**

**BEFORE HON'BLE ELECTRICITY REGULATORY COMMISSION  
FOR THE STATE OF ARUNACHAL PRADESH**

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

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**IN THE MATTER OF :   Petition for Approval of Annual Revenue Requirement (ARR) and Tariff Proposal for FY 2014-15 for The State of Arunachal Pradesh under Sections 61, 62 and 64 of The Electricity Act 2003**

**AND**

**IN THE MATTER OF :   The Department of Power, Vidyut Bhawan,  
THE PETITIONER  
Itanagar, Arunachal Pradesh**

**.....Petitioner**

I \_\_\_\_\_, son of \_\_\_\_\_ (aged \_\_\_\_\_ years),  
(occupation) Government Service residing at ( \_\_\_\_\_), the  
deponent named above do hereby solemnly affirm and state on oath as under:-

1. That the deponent is the \_\_\_\_\_ of the Department of Power, Government of Arunachal Pradesh, 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 Department of Power, Government of Arunachal Pradesh 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 2014-15 for Determination of Tariff.
- b) Annexures-
- c) Petition Fee – Rs.5,00,000/-(Rupees Five Lacs only), vide DD No. \_\_\_\_\_ dated \_\_\_\_\_

**The Department of Power, Govt. of  
Arunachal Pradesh.**

## Petitioner

**Place: Itanagar**

**Dated:**

I, \_\_\_\_\_ Advocate, Itanagar, 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 ..... 2014 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 ELECTRICITY REGULATORY COMMISSION  
FOR THE STATE OF ARUNACHAL PRADESH**

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

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**IN THE MATTER OF       :**       **Petition for Approval of Annual Revenue Requirement (ARR) and Tariff Proposal for FY 2014-15 for the State of Arunachal Pradesh under Sections 61, 62 and 64 of The Electricity Act 2003.**

**AND**

**IN THE MATTER OF:       The Department of Power, Vidyut Bhawan,  
THE PETITIONER       Itanagar, Arunachal Pradesh.**

**.....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 DEPARTMENT OF POWER OF THE STATE OF ARUNACHAL PRADESH (herein after referred to as "DOP,AP") FOR FY 2014-15.

**THE DEPARTMENT OF POWER, GOVERNMENT OF ARUNACHAL PRADESH  
RESPECTFULLY SUBMITS:**

1. The Petitioner, The Department of Power, Government of Arunachal Pradesh has been allowed to function as Distribution Utility for The State of Arunachal Pradesh.
2. Pursuant to the enactment of the Electricity Act, 2003, DOP,AP 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. DOP,AP has submitted its ARR and Tariff petition for the determination of tariff for FY 2014-15 on the basis of the principles outlined in tariff regulations notified by the Arunachal Pradesh State Electricity Regulatory Commission.

4. DOP,AP prays to the Hon'ble Commission to admit the attached petition for Annual Revenue Requirement and Tariff petition for FY 2014-15 and would like to submit that:

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

1. The petition provides, inter-alia, DOP,AP'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 DOP,AP in the recent past, and certain issues impacting the performance of DOP,AP in the Licensed Area.
2. Broadly, in formulating the ARR and Tariff Petition for the FY 2014-15, the principles specified by the Arunachal Pradesh State 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, DOP,AP respectfully seeks an opportunity to present their case prior to the finalization of the Tariff Order. DOP,AP 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. DOP,AP 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 2014-15 for DOP,AP formulated in accordance with the guidelines outlined as per the regulation of Hon'ble Arunachal Pradesh Electricity Regulatory Commission relating to Distribution Licensee and the principles contained in Tariff Regulations ;
- Approve partial recovery of ARR of FY 2014-15;
- Approve the category-wise tariff charges submitted by DOP,AP to meet revenue requirement for FY 2014-15;
- Approve the tariff philosophy suggestions requested by DOP,AP;
- Condone any inadvertent delay/ omissions/ errors/ rounding off differences/ shortcomings and DOP,AP may please be permitted to add/ change/ modify/ alter the petition;

- Permit DOP,AP 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 Department of Power, Govt. of Arunachal Pradesh**

**Petitioner**

**Place: Itanagar, Arunachal Pradesh**

**Dated:**

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## LIST OF ABBREVIATIONS

Abbreviation	Description
A&G	Administration & General
ARR	Annual Revenue Requirement
ATE	Appellate Tribunal For Electricity
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
DOP,AP	Department of Power, Govt. of Arunachal Pradesh
EHT	Extra High Tension
ER	Eastern Region
FAC	Fuel Adjustment Costs
FDR	Fixed Deposits Receipts
FSTPS	Farakka Super Thermal Power Station
FY	Financial Year
GFA	Gross Fixed Assets
HP	Horse Power
HT	High Tension
APSERC	Arunachal Pradesh State Electricity Regulatory Commission
KhSTPS	Kahalgaon Thermal Power Station
KV	Kilovolt
KVA	Kilo volt Amps
kWh	Kilo Watt hour
L.T.M.D.	Low Tension Maximum Demand
LNG	Liquefied Natural Gas
LT	Low Tension
LTC	Leave Travel Concession
MU	Million Units
MVA	Million volt Amps
MW	Mega Watt

<b>Abbreviation</b>	<b>Description</b>
NHPC	National Hydroelectric Power Corporation
NTPC	National Thermal Power Station
O&M	Operation & Maintenance
PGCIL	Power Grid Corporation of India Limited
PLF	Plant Load Factor
PLR	Prime Lending Rate
R&M	Repairs and Maintenance
RoR	Rate of Return
Rs.	Rupees
S/s	Sub Station
SBI	State Bank of India
SERC	State Electricity Regulatory Commission
SPV	Special Purpose Vehicle
T&D	Transmission & Distribution
TSTPS	Talcher Super Thermal Power Station
UI	Unscheduled Interchange
UMPP	Ultra Mega Power Projects



## **1. INTRODUCTION**

### **1.1 Historical Perspective**

The Department of Power of The State of Arunachal Pradesh is responsible for power supply in the state of Arunachal Pradesh. DOP,AP receives around 50 MUs of power from Arunachal Pradesh Hydro Power Department. Apart from this, the entire power requirement for DOP,AP is met through its share from Central Sector Power generation, which is wheeled through the PGCIL network of North Eastern region and power purchases from electricity traders/ other sources. It also has small diesel generating units with annual generation of 1.6 MUs (approx.)

The total area of the State of Arunachal Pradesh is 83573 sq. kms. The State is having a population of around 13.82 lacs as per 2011 census. The State of Arunachal Pradesh is bounded by Assam in South, Bhutan in West, China in North, and Nagaland & Myanmar in East. Its Capital Itanagar is about 380 kms from Guwahati.

The present demand for Arunachal Pradesh is being met by power from various central generating stations, and power from Arunachal Pradesh Hydro Power Department. DOP,AP has about 1,81,963 consumers with an annual energy consumption of about 283.13 MUs for the FY 2012-2013. These consumers can be broadly classified into following four categories:

- Domestic (84.04 %)
- Commercial (9.31 %)
- Industrial both HT & LT (0.16 %)
- Others Public lighting, water works etc. (6.49 %)

### **1.2 APSERC Formation**

In exercise of the powers conferred by the Electricity Act 2003 the Government Of Arunachal Pradesh constituted a Electricity Regulatory Commission to be known as “Arunachal Pradesh State Electricity Regulatory Commission ” as notified on 7<sup>th</sup> May,2010.

The Hon’ble Commission is a one-member body designated to function as an autonomous authority responsible for regulation of the power sector in the State of Arunachal Pradesh. The powers and functions’ of the Hon’ble Commission are as prescribed in the Electricity Act 2003. The Head Office of the Commission presently is located at Naharlagun, Arunachal Pradesh.



The Arunachal Pradesh State Electricity Regulatory Commission started to function with effect from 2<sup>nd</sup> March, 2011 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. The Hon'ble Commission has already issued following regulations:

- i. State Advisory Committee (SAC) Notification – 2011
- ii. Conduct of Business Regulations
- iii. Redressal of Grievances and Ombudsmen Regulations – 2011
- iv. Fee Regulations-2011
- v. Grant of Intra State Trading Licence Regulations – 2011
- vi. Terms and Conditions for Determining of Tariff and Formats for Tariff Filing Regulations – 2011
- vii. Terms and Conditions for Tariff Determination From Renewable Energy Sources Regulations – 2012
- viii. Renewable Power Purchase Obligation And Its Compliance Regulations – 2012
- ix. Redressal of Grievances & Ombudsman Regulation (1st Amendment) - 2012

### **1.3 Filing of ARR and Tariff Petition for the FY 2014-15**

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

Previously electricity tariff was determined departmentally by government notification. DOP,AP has adopted the principles of Terms and Conditions for Determination of Tariff and Formats for Tariff Filing Regulations, 2011 notified on 18<sup>th</sup> November, 2011 by the Arunachal Pradesh State Electricity Regulatory Commission from the financial year 2013-14.



Accordingly, DOP,AP 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 2014-15 as the Licensee as per the Electricity Act, 2003 and Terms and Conditions for Determination of Tariff and Formats for Tariff Filing Regulations, 2011.

Further, the actual performance for FY 2011-12 & FY 2012-13 has been considered as base for computation of ARR for FY 2014-15. Further, the ARR for FY 2014-15 is also formulated accordingly.

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

### **2.1 Annual Revenue Requirement and Tariff Petition for FY 2014-15**

DOP,AP is filing the petition for the determination of Annual Revenue Requirement and Tariff Petition for the FY 2014-15 based on the past performance and expected changes in each element of cost and revenue for the ensuing year. DOP,AP has studied the past trends and taken cognisance of other internal and external developments to estimate the likely performance for FY 2014-15

### **2.2 Approaches for the Filing**

The present filing for the Annual Revenue Requirement and Tariff Petition for the FY 2014-15 is based on the principles enumerated by the Hon'ble Arunachal Pradesh State Electricity Regulatory Commission (APSERC) in the Terms and Conditions for determining of Tariff Regulations, 2011 notified by the APSERC. 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 2014-15 based on various tariff notifications in force in the area of supply of DOP,AP.

Projections of various cost components required for determination of Aggregate Revenue Requirement for FY 2014-15 along with the rationale for estimation of such cost, the philosophy adopted by DOP,AP for projecting sales, number of consumers and power purchase cost for FY 2014-15 has been covered in this section.

For the purpose of projecting the financial & technical parameters for FY 2014-15, DOP,AP has considered its actual performance during FY 2012-13 as base and has projected the figures for FY 2014-15 with supporting rationales.

This section outlines the Annual Revenue Requirement of the DOP,AP for FY 2014-15, which takes into consideration:

- i. Actual Performance in FY 2012-13;
- ii. Estimated performance in FY 2013-14;
- iii. Projection for FY 2014-15 based on the Actual performance in FY 2012-13 & Estimated performance for FY 2013-14;
- iv. Principles outlined in Tariff Regulations of APSERC;



Past trends have been taken into cognizance 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 Purchase Costs & Fuel Cost
  - 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

### **3.1 Energy Requirement**

The energy requirement of the licensee 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 DOP,AP for the FY 2014-15 is as given in the succeeding paragraphs.

#### **3.1.1 Approach for Sales Projection**

The consumer base of DOP,AP consists of mainly Domestic consumers, Commercial and Industry. Sales mix is primarily dominated by Domestic & Industrial consumers, followed by Commercial Consumers. The total consumption for Domestic consumers is approximate 31 percent and Industrial & Commercial consumers contribute around 40 percent and 9 percent respectively of total sales. Rest is contributed by other categories of consumers. Thus, the sales forecast would mainly depend on the sales expected in the Domestic, Industrial & Commercial consumer's categories.

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. 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.

It is submitted that sales forecast using the CAGR as the basis for projections is a tried and tested method and is used extensively across states and accepted by the Regulators. However, the CAGR considering the sales for last 5 years presented an abnormal trend and hence normalisation has been undertaken for such categories for forecasting sales for FY 2014-15.

### 3.1.2 Category wise Sales Forecast

Based on the methodology outlined above, the projected energy sales to various categories of consumers for FY 2014-15 are given below:

**Table 3.1: Projected Energy Sales – FY 2014-15**

Category	In MUs		
	FY 2012-13 (Actual)	FY 2013-14 (Estimated)	FY 2014-15 (Projected)
Domestic	69.45	72.92	76.57
BPL(Kutir Jyoti)	5.20	5.46	5.73
Commercial	21.27	22.33	23.45
Industrial Consumers	96.15	100.96	106.01
Public Lighting	5.52	5.80	6.09
Public Water works & Sewage	4.02	4.22	4.43
Irrigation and Agriculture	0.00	0.00	0.00
Bulk	13.51	14.19	14.90
General Purpose	22.48	23.60	24.78
Outside state	45.53	47.81	50.20
Total	283.13	297.29	312.15

### 3.1.3 Billed Demand & Number of Consumers

The actual number of consumers for the FY 2012-13, estimated for FY 2013-14 & projected numbers for FY 2014-15 are tabulated below:

**Table 3.2: No. of Consumers – FY 2014-15**

Category	FY 2012-13 (Actual)	FY 2013-14 (Estimated)	FY 2014-15 (Projected)
Domestic	133563	140241	147253
BPL(Kutir Jyoti)	19367	20336	21353
Commercial	16942	17789	18678
Industrial Consumers	286	300	315
Public Lighting	1183	1242	1304
Public Water works & Sewage	78	82	86
Irrigation and Agriculture	0	0	0
Bulk	4485	4709	4944
General Purpose	6058	6361	6679
Outside state	1	1	1
Total	181963	191061	200614





### 3.1.4 Distribution Losses

DOP,AP has achieved a reduction in distribution losses during recent years. DOP,AP submits that the system improvement works executed every year under the plan schemes have contributed to the reduction of distribution losses. However, it may also be noted that reduction of distribution losses has been low as maximum consumption is in the domestic segment with low individual consumption and spread over wide geographical area. The distribution losses in the DOP,AP distribution network have been in the range of approximately 55% to 65% in the past. For the purpose of FY 2014-15 ARR, the losses have been retained at 54.68%

### 3.1.5 Energy Requirement & Sources of Power Purchase

Accordingly, the energy requirement for DOP,AP is estimated based on the retail sales projections, grossed up by estimated loss levels. Accordingly, the energy balance expected for the FY 2014-15 is as given below:

**Table 3.3: Energy Requirement – FY2014-15**

Energy Balance	FY 2012-13 (Actual) MU's	FY 2013-14 (Estimated) MU's	FY 2014-15 (Projected) MU's
<b>ENERGY REQUIREMENT</b>			
Energy Sales within State	237.60	249.48	261.95
Sales to other distribution licensees	45.53	47.81	50.20
Total Energy Sales	283.13	297.29	312.15
Overall T & D Losses %	60.40	58.26	56.00
Overall T & D Losses (MUs)	362.42	348.27	333.40
Total Energy Requirement	645.55	645.55	645.55
<b>ENERGY AVAILABILITY</b>			
Power Purchase from CGS/UI	446.77	446.77	446.77
Hydel Generation(APHDP)	49.95	49.95	49.95
Diesel Generation(own)	1.59	1.59	1.59
Free Power	147.24	147.24	147.24
Total Energy Availability	645.55	645.55	645.55
<b>ENERGY SURPLUS/(GAP)</b>			

The energy requirement of DOP,AP is mainly met from the allocation of power from Central Generating Stations. However, for meeting the requirement at peak demand period, it has to purchase power from other sources/ open market/ power exchanges, etc.



The expected power allocation for FY 2014-15 are provided in the table below:

**Table 3.4: Details of Power Allocation – FY 2014-15**

Sr. No	Source	Installed Capacity (MW)	State Share/Allocation FY 2012-13		Estimated State Share/Allocation FY 2013-14		Projected State Share/Allocation FY 2014-15	
			In%	In MW	In%	In MW	In%	In MW
	NHPC							
1	Loktak	105	4.94	5.19	4.94	5.19	4.94	5.19
	NEEPCO							
2	Khandong	50	4.19	2.10	4.19	2.10	4.19	2.10
3	Doyang	75	6.85	5.14	6.85	5.14	6.85	5.14
4	Kopili-I	200	5.19	10.38	5.19	10.38	5.19	10.38
5	Kopili-II	25	5.99	1.50	5.99	1.50	5.99	1.50
6	Ranganadi	405	18.27	73.99	18.27	73.99	18.27	73.99
7	AGTPP (Tripura)	84	6.13	5.15	5.69	5.15	5.69	5.15
8	AGBPP (Assam)	291	5.69	16.57	6.13	16.57	6.13	16.57
	NTPC							
9	Farakka	1600	0.21	3.36	0.21	3.36	0.21	3.36
10	Kahalgaon	840	0.21	1.76	0.21	1.76	0.21	1.76
11	Talcher	1000	0.21	2.10	0.21	2.10	0.21	2.10
	TOTAL			127.24		127.24		127.24

It is requested to The Hon'ble Commission to kindly approve the power purchases as outlined below. The estimated cost for such power purchases has been discussed in section 3.3.4 of the filing.

### 3.2 Capital Expenditure & Capitalisation

#### 3.2.1 Capital Expenditure & Capitalisation of Assets

The objective of incurring the capital expenditure is to upgrade and strengthen the distribution network to meet the desirable standards of performance and provide better network reliability and sustainable performance to the consumers of DOP,AP.

The capital expenditure plan envisaged will also assist in reducing system losses. DOP,AP proposes to incur the capital expenditure of Rs. 185.00 Crores for FY 2014-15.

Summary of the proposed capital expenditure and capitalisation is outlined below:

**Table 3.5: Summary of Proposed Capital Expenditure & Capitalisation FY 2014-15**

(Rs. in Crores)

Sr. No.	Particulars	Previous year 2012-13 (Actual)	Current year 2013-14 (Estimated)	Ensuing year 2014-15 (Projected)
1	2	3	4	5
1	Opening balance	129.51	299.51	484.51
2	Add: New investments	170.00	185.00	185.00
3	Total	299.51	484.51	669.51
4	Less investment capitalized	0.00	0.00	0.00
5	Closing balance	299.51	484.51	669.51

### 3.3 Annual Revenue Requirement for DOP,AP

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

- o Power Purchase Costs
- o Transmission Charges
- o Operation and Maintenance Expenses
- o Administration & General expenses
- o Depreciation
- o Return on NFA/Equity
- o Interest charges (including interest on working capital)
- o Provision for Bad and Doubtful Debts

The above Annual Revenue Requirement is netted off for Non-Tariff Income for determining the net ARR for DOP,AP.

#### 3.3.1 Power Purchase

##### 3.3.1.1 Source of Power

DOP,AP gets 50 MUs (approx.) from Arunachal Pradesh Hydro Power Development Corporation. DOP,AP meets rest of its energy requirement from its allocation from the Central Generating Stations (CGS) and other sources. DOP,AP receives power from CGS like NEEPCO, NHPC NTPC as per allocation from time to time.

The present power purchase of DOP,AP is as listed below:

**Table 3.6: Actual & Projected Power Purchase from ISGS (FY 2012-13 to FY 2014-15)**  
MUs

S.N	Source	Actual Power Purchased FY 2012-13 (Mus)	Projected/Estimated Power to be Purchased FY 2013-14 (Mus)	Projected/Estimated Power to be Purchased FY 2014-15 (Mus)
	NHPC			
1	Loktak	27.04	27.04	27.04
	NEEPCO			
2	Khandong	6.83	6.83	6.83
3	Doyang	13.56	13.56	13.56
4	Kopili-I	33.99	33.99	33.99
5	Kopili-II	5.52	5.52	5.52
6	Ranganadi	79.29	79.29	79.29
7	AGTPP (Tripura)	37.79	37.79	37.79
8	AGBPP (Assam)	88.58	88.58	88.58
	NTPC			
9	Farakka	36.15	36.15	36.15
10	Kahalgaoon	11.93	11.93	11.93
11	Talcher	14.17	14.17	14.17
	TOTAL	354.86	354.86	354.86

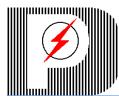
### 3.3.2 Assumption for Power Purchase Projection

The merit order dispatch principles are typically adopted when determining the power purchases from various generating stations. However, in a power deficit scenario, these principles do not play a significant role as the utilities will try and purchase all the power that is available at its disposal. Accordingly, DOP,AP has considered purchase of the entire power available from all the possible sources during FY 2014-15 to meet the demand to the extent possible.

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 DOP,AP for FY 2014-15 is proposed to be met from central generating stations and external power purchase as discussed below.

Power purchase cost for FY 2014-15, is determined on the following parameters:

- The quantum of power allocated to DOP,AP from central generating station is based on the declared allocation;
- PLF is assumed same as per FY 2012-13;
- Fixed cost, Energy charges and other charges for CGS stations have been considered with an Escalation of 5% over the previous year levels;



- Power purchase from other sources is considered at Rs. 3.88 per unit for FY 2014-15 based on the current market prices.

### 3.3.3 Power purchase from CGS Stations

DOP,AP has projected that the quantum of power purchase from CGS stations will be based on the firm & infirm allocations. The details of the computation of power purchases from CGS stations are provided in Format-4 of the formats submitted along with the filing.

### 3.3.4 External Power Purchase/ Other Sources

Based on the Energy balance and trend of energy requirement during peak demand period, it is estimated that in addition to the firm as well as infirm allocation of power from various CGS, there will be shortfall of energy to the tune of 92 MUs which is approximately 14.23 % of the total projected energy requirement for FY 2014-15. This additional energy requirement has to be met from external power purchase source/other sources in order to meet the present demand of the consumers. DOP,AP has been continuously experiencing similar shortfall of power in the past which is met through Unscheduled Interchange (UI) as there is no alternate source of power available. In FY 2012-13, DOP,AP had procured 91.91 MUs of energy through UI mechanism and the weighted average cost of this procurement was Rs. 1.99 per unit. This scenario is likely to continue in the period of FY 2014-15 also till DOP,AP gets additional allocation from CGS. For the purpose of estimation of power purchase cost, DOP,AP has considered weighted average price of Rs.3.88 per unit which is based on the current market trend. However, in the current high demand supply gap scenario across the country this weighted average price may further shoot up for FY 2014-15.

Considering the above facts, the Hon'ble Commission is requested to allow the power purchase costs as estimated by DOP,AP for FY 2014-15:

**Table 3.7: Summary of Power Purchase Expenses for FY 2014-15**

Sl. No.	Source	Purchase (MU)	Rate (Rs./ KWh)	Total Cost in Rs. Crores
1	2	3	4	5
	NHPC			
1	Loktak	27.04	4.03	11.45
	NEEPCO			
2	Khandong	6.83	2.83	2.03
3	Doyang	13.56	3.01	4.29
4	Kopili-I	33.99	1.24	4.41
5	Kopili-II	5.52	2.00	1.16
6	Ranganadi	79.29	5.49	45.72
7	AGTPP (Tripura)	37.79	3.22	12.77
8	AGBPP (Assam)	88.58	3.69	34.31
	NTPC			
9	Farakka	36.15	4.22	16.00
10	Kahalgaoon	11.93	3.78	4.74
11	Talcher	14.17	3.12	4.64
12	U.I	91.91	3.75	35.70
	TOTAL	446.77		177.23

### 3.3.5 Transmission and Other Charges

The Transmission charges are estimated based on the quantum of power proposed for wheeling for FY 2014-15 based on per unit cost actually incurred in FY 2012-13. The transmission and other charges paid for FY 2012-13 were Rs. 44.26 Crores for 594.01 MUs at DOP,AP periphery. The transmission charges for the FY year have been escalated by 5% to arrive at the transmission charges for the FY 2013-14. The estimated cost for FY 2013-14 is further escalated by 5% to project the transmission charges for the FY 2014-15. Accordingly, Transmission charges for FY 2014-15 is estimated to Rs. 48.80 for 594.01 MUs of power.

### 3.4 Operation & Maintenance Expenses

Operation & Maintenance Expenses comprises of Employee Cost, Repair & Maintenance Expenses and Administrative & General Expenses. The methodology adopted by the DOP,AP for projecting the values of these components for FY 2014-15 has been explained in following section. Table below summarises the Operation & Maintenance Expenses for FY 2014-15.

**Table 3.8: Operation & Maintenance Expenses for FY 2014-15**

(Rs. in Crores)				
Sr. No.	Particulars	FY 2012-13 (Actual)	FY 2013-14 (Estimated)	FY 2014-15 (Projected)
1	Employee Cost	143.40	159.60	170.23
2	Repair & Maintenance Expenses	26.69	25.70	26.70
3	Administration & General Expenses	1.74	1.79	2.00
	Total Operation & Maintenance Expenses	171.83	187.09	198.93

#### 3.4.1 Employee Cost

The expense head of employee cost is indication of cost of man power which includes salary and allowance, bonus, LTC & Honorarium, leave salary etc. The DOP,AP has not considered pension and terminal benefits of the employees. The DOP,AP reserves the right to approach the Hon'ble commission at the appropriate stage for the above. .

The Hon'ble Commission may consider the above facts while allowing the employee cost indicated in the table below.

**Table 3.9: Employee Cost for FY 2014-15**

(Rs. in Crores)

Sr. No.	Particulars	FY 2012-13 (Actual)	FY 2013-14 (Estimated)	FY 2014-15 (Projected)
1	Salaries & Allowances	98.77	112.31	123.18
2	Wages	39.21	41.87	41.35
3	OTA	0.02	0.02	0.05
4	Medical Treatment	0.50	0.53	0.50
5	Other Allowances (O.E.+POL+Minor Work)	4.80	4.80	5.10
6	LTC	0.10	0.07	0.05
	Total	143.40	159.60	170.23

### 3.4.2 Administrative & General Expenses

The Administration & General (A&G) expenses include computerization, communication, Travelling & Conveyance, Rent, Professional and technical fees, etc. . Table below provides A&G expenses incurred by the DOP,AP in FY 2012-13, estimated for FY 2013-14 along with the projections for FY 2014-15.

**Table 3.10: Administrative & General Expenses for FY 2014-15**

(Rs. in Crores)

Sr. No.	Particulars	FY 2012-13 (Actual)	FY 2013-14 (Estimated)	FY 2014-15 (Projected)
1	Rent, rates & taxes			
2	Telephone, postage & Telegram	0.24	0.24	0.28
3	Consultancy fees	0.08	0.08	0.10
4	Technical fees			
5	Other professional charges			
6	Conveyance & travel expenses	0.46	0.48	0.52
	Electricity & Water Charges	0.40	0.40	0.45
7	Others	0.56	0.59	0.65
	Total Administration & General Expenses	1.74	1.79	2.00

In line of above, the Hon'ble Commission is requested to allow the above mentioned A & G Expenses.

### 3.4.3 Repair and Maintenance Expenses

Repair & Maintenance (R&M) expenses include expenses on repairs and maintenance of electrical equipment's, distribution system, vehicles, furniture and fixtures, office equipment's, buildings, etc. The DOP,AP has projected Repair & Maintenance expenses for the FY 2014-15 taking into consideration actual expenses for the FY 2012-13 and estimated expenses for FY 2013-14.

Table below depicts the R&M expenses incurred by the DOP,AP in FY 2012-13, estimated for the FY 2013-14 and projected R&M Expenses for FY 2014-15.

**Table 3.11: Repair & Maintenance Expenses for FY 2014-15**

(Rs. in Crores)

Sr. No.	Particulars	FY 2012-13 (Actual)	FY 2013-14 (Estimated)	FY 2014-15 (Projected)
1	Plant and Machinery			
2	Building	1.00	0.00	1.00
3	Hydraulic works & civil works			
4	Line cable & network	22.00	22.00	22.00
5	Vehicles	3.69	3.70	3.70
6	Furniture & fixtures			
7	Operating expenses			
	<b>Total Repair &amp; Maintenance Expenses</b>	<b>26.69</b>	<b>25.70</b>	<b>26.70</b>

The Hon'ble Commission is requested to allow the R&M expenses proposed by the DOP,AP in the above table to the fullest extent in order to ensure better & timely maintenance of distribution network under the operational area of DOP,AP and subsequently, to have better consumer services and higher consumer satisfaction.

### 3.5 Gross Fixed Assets

It is submitted in absence of fixed assets register as required by the regulations; the gross fixed assets (GFA) have been built up based on available information as on 31.3.2011. The details of assets capitalized during FY 2011-12, FY 2012-13 and estimated capitalisation during FY 2013-14 are being assimilated and shall be submitted in future filings. The GFA movement is given in the table below:

**Table 3.12: Gross Fixed Assets Movement**

Financial Year	Opening Balance (Rs. Crores)	Addition during the year (Rs. Crores)	Closing Balance (Rs. Crores)
FY 2012-13	2119.16	0.00	2119.16
FY 2013-14	2119.16	0.00	2119.16
FY 2014-15	2119.16	0.00	2119.16



### 3.6 Depreciation

The DOP,AP has applied average rate of depreciation at 5.27% for FY 2014-15. The DOP,AP has applied this rate on opening GFA of FY 2014-15. The table below indicates the methodology adopted by the DOP,AP for projecting depreciation for FY 2014-15.

**Table 3.13: Depreciation for FY 2014-15**

(Rs. in Crores)

Sr. No.	Particulars	FY 2014-15 (Projected)
1	Gross Block in Beginning of the year	2119.16
2	Additions during the Year	0.00
3	Cumulative Depreciation at the Beginning of the Year	446.44
4	Average Rate of Depreciation	5.27%
5	Depreciation for the Year	111.61
6	Cumulative Depreciation at the End of the Year	558.05
7	Net Block in the Beginning of the Year	1672.72
8	Net Block in the End of the Year	1561.11

In absence of Asset register, the asset wise detail is not available. The Hon'ble Commission is requested to approve the above depreciation. The DOP,AP submits that the block wise details are being assimilated and will be made available on completion of the exercise..

### 3.7 Capital Based Return

Reasonable return on investment on the basis of the capital base return has been computed as outlined below.

**Table 3.14: Capital Base and Return**

(Rs. in Crores)

Sr. No.	Particulars	Previous Year (Actual) 2012-13	Current Year (Estimated) 2013-14	Ensuing Year (Projected) 2014-15
1	2	3	4	5
1	Gross block at beginning of the year	2119.16	2119.16	2119.16
2	Less accumulated depreciation	223.22	334.83	446.44
3	Net block at beginning of the year	1895.94	1784.33	1672.72
4	Less accumulated consumer contribution	0.00	0.00	0.00
5	Net fixed assets at beginning of the year	1895.94	1784.33	1672.72
6	Reasonable return @3% of NFA	56.88	53.53	50.18



### 3.8 Return on Equity

The DOP,AP 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 as compared to 14% offered to other business areas.

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

The DOP,AP being a Government Department, the entire capital employed till date has been funded through equity infusion by the Government of Arunachal Pradesh through Budgetary support without any external borrowings.

In a similar case where the funding has been through budgetary support of the Government (Damodar Valley Corporation vs CERC) before Hon'ble Appellate Tribunal, Damodar Valley Corporation was allowed normative debt equity of 50:50 for the purpose of tariff determination. The relevant portion of said order is reproduced below:

*“A-5. Further, the Tariff Regulations provides that in case of generating stations or transmission projects where the tariff for the period ending March 31, 2004 has not been determined by the Central Commission, Debt Equity ratio shall be as may be decided by the Commission (para 52 of the impugned order). In the past, the Commission has also dealt with determination of applicable Debt Equity Ratio in the case of Central Power Sector Undertakings (CPSUs) such as NTPC, NHPC, PGCIL etc. where the actual equity deployed in the assets created prior to formulation of Tariff Regulations, was much higher than the equity calculated considering a normative DE ratio of 70:30. These CPSUs were allowed a normative DE ratio of 50:50 for the purpose of determination of tariff, in respect of their old assets.”*

Similar approach has been adopted in the case of number of Central Government companies such as NTPC, PGCIL etc.

Accordingly the entire capital expenditure till 31.3.2011 has been considered as funded by equity.

The detailed working for equity for FY 2013-14 & FY 2014-15 has been indicating below.

**Table 3.15: Equity Detail for FY 2013-14 & FY 2014-15**

(Rs. in Crores)

Sr. No.	Particulars	FY 2010-11 (Actual)
1	Opening Equity	2119.16
2	Add: Capex for the FY (Considered as 100% Equity)	0.00
3	Closing Equity	2119.16
4	Average Equity	2119.16

For FY 2011-12, based on above precedence, the DOP,AP has considered a normative Debt Equity Ratio of 50:50 and accordingly the Opening Equity for FY 2011-12 has been considered as equivalent to 50% of Gross Fixed Assets as on 1/4/2011 which will not match with closing equity of FY 2010-11 indicated in above table. The Capital Addition in FY 2011-12, FY2012-13 & FY 2013-14 has not been considered. The details of assets created during the period are being worked out and shall be submitted in future filings.

The DOP,AP has computed the Return on Equity considering a rate of return at 14% on the Average equity for the fiscal year.

The computation methodology adopted by the DOP,AP for determination of Return on Equity for FY 2014-15 is indicated below.

**Table 3.16: Return on Equity for FY 2014-15**

(Rs. in Crores)

Sr. No.	Particulars	FY 2012-13 (Actual)	FY 2013-14 (Estimated)	FY 2014-15 (Projected)
1	Opening Equity	1059.58	1059.58	1059.58
2	Equity Addition (30% Capex for the FY )	0.00	0.00	0.00
3	Closing Equity	1059.58	1059.58	1059.58
4	Average Equity	1059.58	1059.58	1059.58
5	Rate of Return on Equity	14%	14%	14%
6	Return on Equity	148.34	148.34	148.34

### 3.9.1 Interest & Finance Charges

Based on the philosophy adopted in the above section, the DOP,AP has treated the balance 50% of Gross Fixed Asset as on 1/4/2011 as notional debt. The Capital Addition in FY 2011-12, FY2012-13 & FY 2013-14 has not been considered. The details of assets created during the period are being worked out and shall be submitted in future filings. Further, it is assumed that these notional loans will be repaid in next 10 years.

The DOP,AP has considered an Interest on loan at the rate of 14.45% which is SBI PLR as on 1<sup>st</sup> April 2013. The Interest on Loan computed on the above methodology has been indicated in the Table below.

**Table 3.17: Interest & Finance Charges for FY 2014-15**

(Rs. in Crores)

Sr. No.	Particulars	FY 2012-13 (Actual)	FY 2013-14 (Estimated)	FY 2014-15 (Projected)
1	Opening Loan	953.68	847.78	741.88
2	Loan Additions	0.00	0.00	0.00
3	Repayment	105.90	105.9	105.9
4	Closing Loan	847.78	741.88	635.98
5	Average Loan	900.73	794.83	688.93
7	Interest on Loan	132.86	114.85	99.55
8	Total Interest & Finance Charges	132.86	114.85	99.55

The Hon'ble Commission is requested to allow the above interest on loan for FY 2014-15.

It may be noted that various SERC's Tariff Regulation provides recovery of finance charges such as Guarantee Fees, Processing fees etc along with the Interest on Loan. However, till FY 2012-13, whole capital Expenditure has been funded through 100% equity as budgetary support and does not involve any external borrowings, the DOP,AP has not claimed any Finance Charges for FY 2014-15. In future, in case of funding of CAPEX through external borrowing, the DOP,AP would be claiming finance charges for those fiscal years.

### 3.9.2 Interest on Working Capital

The DOP,AP has computed the Interest on Working Capital for FY 2014-15 on normative basis. As per the APERC Tariff Regulations, for the purpose of computation of normative working and Interest on working capital, the components of working capital are as follows:

- One month's Power Purchase Cost
- One month's employee costs
- One month's Administration & General Expenses
- One month's R&M Cost
- One month Fuel cost
- Two month's receivables

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 14.45% as on 1st April 2013.

The interest on normative working capital for FY 2014-15 works out to Rs. 8.06 Crores and is given in the table below:

**Table 3.18: Information regarding Working Capital for the current and ensuing year**  
Amount (Rs. in Crores)

Sr. No.	Particulars	Current Year 2012-13 (Actual)	Current Year 2013-14 (Estimated)	Ensuing Year 2014-15 (Projected)
1	2	3	4	5
1	Fuel Cost	0.40	0.41	0.42
2	Power Purchase Cost	14.75	17.94	18.84
3	One month's employee costs	11.95	13.30	14.19
4	One month's A&G Exp.	0.15	0.15	0.17
5	One month's R&M Cost	2.22	2.14	2.23
6	Two month's receivables	18.10	18.99	19.94
	Total	47.57	52.93	55.77
	Interest on working capital	7.02	7.65	8.06

The Hon'ble Commission is kindly requested to approve the interest on working capital of Rs. 8.06 Crores on normative basis for FY 2014-15.

### 3.10 Provision for Bad and Doubtful Debts

DOP,AP has not considered any provision for bad debts. DOP,AP is preparing the records relating to the arrears and Bad & Doubtful debts and same shall be claimed in the future.

### 3.11 Non-Tariff Income

Based on the FY 2011-12 & 2012-13, it is assumed that non-tariff Income in form of meter rent, late payment charges & miscellaneous charges for the year 2014-15 will be Rs. 0.47 Crores from various categories of consumers.

### 3.12 Annual Revenue Requirement

Based on the above estimates and projections, the ARR for DOP,AP for FY 2014-15 works out as under:

**Table 3.19: ANNUAL REVENUE REQUIREMENT FOR THE YEAR 2014-15**  
(Rs. in Crores)

Sr. No.	Item of expense	Current Year 2012-13 (Actual)	Current Year 2013-14 (Estimated)	Ensuing Year 2014-15 (Projected)
1	2	3	4	5
1	Cost of power Purchase	177.04	215.27	226.03
2	Fuel Cost	4.75	4.90	5.00
3	Employee costs	143.40	159.60	170.23
4	R&M expenses	26.69	25.70	26.70
5	Administration and general expenses	1.74	1.79	2.00
6	Depreciation	111.61	111.61	111.61
7	Interest charges ( including interest on working capital)	139.87	122.50	107.61
8	Return on NFA /Equity	148.34	148.34	148.34
9	Provision for Bad Debit	0.00	0.00	0.00
10	Total revenue Requirement	753.45	789.71	797.53
11	Less: non tariff income	0.40	0.45	0.47
12	<b>Net revenue requirement (10-11)</b>	<b>753.05</b>	<b>789.26</b>	<b>797.05</b>
13	Revenue Billed	97.32	102.04	107.14
14	Revenue from surplus sale of Power	11.29	11.91	12.50
15	Gap (12-13-14)	644.44	675.32	677.41
16	Gap for	0.00	0.00	0.00
17	Total gap (15+16)	644.44	675.32	677.41
18	Revenue surplus carried over	0.00	0.00	0.00
19	Additional revenue from proposed tariff	0.00	0.00	0.00
20	Regulatory asset	0.00	0.00	0.00
21	<b>Energy sales (MU)</b>	<b>283.13</b>	<b>297.29</b>	<b>312.15</b>

### 3.13 Average Cost of Supply

Based on the above computed Net ARR of Rs. 797.05 Crores and energy sales projection of 312.15 MUs, the Average Cost to Supply works out to Rs. 25.53 per unit for FY 2014-15.

### 3.14 Revenue at Existing Tariff and Gap for FY 2014-15

The estimated revenue at Existing Tariff for FY 2014-15 for each of the consumer category including outside state sale is computed at Rs. 119.64 Crores. The average realisation rate or average revenue per unit for estimated sales of 312.15 MUs for FY 2014-15, works out to Rs.3.83.

The summary of the category-wise revenue is as shown in the table below:

**Table 3.20: Revenue at Existing Tariff – FY 2014-15**

(Rs. in Crores)

Sr. No.	Particulars	Ensuing year (Projected) FY 2014-15
<b>1</b>	<b>2</b>	<b>3</b>
1	Domestic	30.63
2	Kutir Jyoti (BPL)	1.52
3	Commercial	11.73
4	Industrial Consumers	39.92
5	Public Lighting	3.10
6	Public Water works & Sewage	2.26
7	Irrigation and Agriculture	0.00
8	Bulk Supply	5.59
9	General Purpose	12.39
10	Outside state	12.50
	<b>TOTAL</b>	<b>119.64</b>

Based on the Aggregate Revenue Requirement and net revenue from existing tariffs for FY 2014-15, the resultant GAP works out to Rs. 677.41 Crores which is depicted in the table below:

**Table 3.21: Revenue GAP at Existing Tariffs – FY 2014-15**

(Rs. in Crores)

Sr. No.	Particulars	FY 2014-15 (Proposed)
1	Revenue from Sale of Power	107.14
2	Revenue from Surplus power sales	12.50
3	Total Revenue at Existing Tariff	119.64
4	Net Annual Revenue Requirement	797.05
5	Gap	677.41
6	Previous year's surplus carried over	0.00
7	Additional Revenue at proposed Tariff	0.00
8	Net GAP	677.41

#### **4. TARIFF PROPOSAL FOR FY 2014-15**

DOP,AP in the previous sections has discussed the estimated performance for the FY 2014-15 based on the past years performances and certain assumptions explained at appropriate places to determine the Aggregate Revenue Required for FY 2014-15.



#### **4.1 Recovery of Revenue Gap for FY 2014-15**

The estimated gap in the FY 2014-15 has been computed by deducting the ARR from Revenue at Existing Tariff.

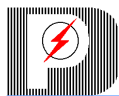
DOP,AP has projected Net ARR for FY 2014-15 at Rs.797.05 Crores and the revenue at existing tariff from projected sales and revenue from sale of surplus power compute to Rs 119.64 Crores. Thus, the resultant gap works out to Rs.677.41 Crores. Tariff is a sensitive subject having substantial impact on social, economic and financial well-being of the public at large. Accordingly, DOP,AP does not propose to increase the tariff for the FY 2014-15 as these would result in huge burden on the consumers.

#### **4.2 Proposed Tariff in FY 2014-15**

##### **4.2.1 Tariff Proposal for FY 2014-15**

The basic requirement of any Tariff proposal is that it has to be transparent and justifiable against various policy guidelines and the framework evolved by the APSERC and various SERCs. In the light of the experience gained by other utilities in implementation of the tariff orders and regulatory requirements specified under various states and policy guidelines an attempt has been made to improve upon the present tariff design. DOP,AP has not proposed any increase in tariff for various categories of consumers for FY 2014-15. Tariff proposal for individual categories is given below along with the comparison of existing and proposed energy charges.





**Table 4.1: Comparison of Existing Tariff with Proposed Tariff**

**TARIFF SCHEDULE – EXISTING & PROPOSED**

Sl. No.	Category		Existing Tarif (Rs.KWh)	Proposed Tarif (Rs.KWh)
<b>1</b>	<b>Non Commercial Consumers (Domestic)</b>			
	<b>LT</b>			
	a)	AC 50Hz,1- Phase,230 Volt nominal Voltage	4.00	4.00
	b)	AC 50Hz,3- Phase,400 Volt nominal Voltage	4.00	4.00
	<b>HT</b>			
	c)	AC 50Hz,3- Phase,11KV nominal Voltage	3.40	3.40
	d)	AC 50Hz,3- Phase,33 KV nominal Voltage	3.25	3.25
	<b>KJP &amp; BPL connection</b>			
	e)	AC 50Hz,1- Phase,230 Volt KJP & BPL connection	2.65	2.65
<b>2</b>	<b>Commercial Consumres (Non-Industrial)</b>			
	<b>LT</b>			
	a)	AC 50Hz,1- Phase,230 Volt nominal Voltage	5.00	5.00
	b)	AC 50Hz,3- Phase,400 Volt nominal Voltage	5.00	5.00
	<b>HT</b>			
	c)	AC 50Hz,3- Phase,11KV nominal Voltage	4.20	4.20
	d)	AC 50Hz,3- Phase,33 KV nominal Voltage	4.00	4.00
<b>3</b>	<b>Public Lighting and Water Supply Consumers</b>			
	<b>LT</b>			
	a)	AC 50Hz,1- Phase,230 Volt nominal Voltage	5.10	5.10
	b)	AC 50Hz,3- Phase,400 Volt nominal Voltage	5.10	5.10
	<b>HT</b>			
	c)	AC 50Hz,3- Phase,11KV nominal Voltage	4.20	4.20
	d)	AC 50Hz,3- Phase,33 KV nominal Voltage	4.00	4.00
<b>4</b>	<b>Agricultural Consumers</b>			
	<b>LT</b>			
	a)	AC 50Hz,1- Phase,230 Volt nominal Voltage	3.10	3.10
	b)	AC 50Hz,3- Phase,400 Volt nominal Voltage	3.10	3.10
	<b>HT</b>			
	c)	AC 50Hz,3- Phase,11KV nominal Voltage	2.75	2.75
	d)	AC 50Hz,3- Phase,33 KV nominal Voltage	2.65	2.65



Sl. No.	Category		Existing Tarif (Rs.KWh)	Proposed Tarif (Rs.KWh)
<b>5</b>	<b>Industrial Consumers</b>			
	<b>LT</b>			
	a)	AC 50Hz,1- Phase,230 Volt nominal Voltage	4.20	4.20
	b)	AC 50Hz,3- Phase,400 Volt nominal Voltage	4.20	4.20
	<b>HT</b>			
	c)	AC 50Hz,3- Phase,11KV nominal Voltage	3.75	3.75
	d)	AC 50Hz,3- Phase,33 KV nominal Voltage	3.40	3.40
	e)	AC 50Hz,3- Phase,132 KV nominal Voltage and above	3.25	3.25
<b>6</b>	<b>Bulk Mixed Consumers</b>			
	a)	AC 50Hz,3- Phase,11KV nominal Voltage	3.75	3.75
	b)	AC 50Hz,3- Phase,33 KV nominal Voltage	3.40	3.40
	c)	AC 50Hz,3- Phase,132 KV nominal Voltage and above	3.25	3.25
<b>7</b>	<b>Temporary Consumers</b>			
	a)	Metered Supply Rs./KWH	6.35	6.35

### 4.3 Revenue at Proposed Tariff in FY 2014-15

Based on the tariff proposed above, following is the summary of the revenue from various consumer categories at the proposed tariff rates which is being compared with the consumer category-wise revenue at existing tariff:

**Table 4.2: Revenue at Existing & Proposed Tariff – FY 2014-15**

(Rs. in Crores)

Sr. No.	Particulars	Revenue at Existing Tariff FY 2014-15	Revenue at Proposed Tariff FY 2014-15
1	2	3	4
1	Domestic	30.63	30.63
2	Kutir Jyoti (BPL)	1.52	1.52
2	Commercial	11.73	11.73
3	Industrial Consumers	39.92	39.92
4	Public Lighting	3.10	3.10
5	Public Water works & Sewage	2.26	2.26
6	Irrigation and Agriculture	0.00	0.00
7	Bulk Supply	5.59	5.59
8	General Purpose	12.39	12.39
	<b>TOTAL</b>	<b>107.14</b>	<b>107.14</b>

#### 4.3.1 Impact of Tariff on Consumers

The revenue gap and the average tariff proposed are presented in the table below:

**Table 4.3: Impact of Tariff for FY 2014-15**

Sr. No.	Particulars	Units	FY 2014-15	
			Existing	Proposed
1	ARR for FY 2014-15	Rs. Crores	797.05	797.05
2	Revenue from tariff for FY 2014-15		107.14	107.14
3	Revenue from sale of surplus power for FY 2014-15	Rs. Crores	12.50	12.50
4	<b>Total Revenue</b>		<b>119.64</b>	<b>119.64</b>
5	Gap (1 – 2 - 3 )	Rs. Crores	677.41	677.41
6	<b>Sales within State</b>		<b>261.95</b>	<b>261.95</b>
7	<b>Sale of Surplus power through Trading/UI</b>	MU's	50.20	50.20
8	<b>Total Sales</b>		<b>312.15</b>	<b>312.15</b>
9	Average Cost of Supply	Rs. per kWh	25.53	25.53
10	Average Revenue (4/8 x 10)	Rs. per kWh	3.83	3.83
11	Pure Gap (9-10)	Rs. per kWh	21.70	21.70
12	Average Hike in Tariff			0.00
13	Hike in Tariff %			0.00



It is submitted that the average tariff required to recover the gap attributable to FY 2014-15 is Rs.21.70 but keeping in view the resultant burden on the consumers, increase in tariff has not been proposed.

The Hon'ble Commission is requested that considering ARR & submission made above the proposed tariff may kindly be approved.

## **5. TARIFF SCHEDULE – FY 2014-15**

Tariff schedule approved by the Hon'ble Commission for the FY 2013-14 is given below:



**SCHEDULE – I**

**TARIFFS, 2013**

**CATEGORY – I**

**NON-COMMERCIAL CONSUMERS (DOMESTIC)**

**A) Definition:** The consumers under this category are defined as consumers using the electrical energy for domestic and non profit purpose such as lights, fans., heating devices, Televisions, VCR/VCP, Radio, Refrigerator, Air – conditioners, lift motors and all others appliances only for bonafied residential & non-residential but non-commercial use. This will also cover consumption of energy supplied for Government owned Residential and Non-Residential buildings Educational and Research Institutions. Charitable Institutions, Government owned Hospitals and Dispensaries, farm houses, Religious premises like Churches, Temples, Mosques, community halls and any other Institutions, Religious printing press (not engaged in commercial activity or private again, excluding those which are specially covered under other categories of this Tariff) or classifications as may be amended by the Commission from time to time.

System of supply & Metering Point	Tariff (Rs. / Kwh)	Minimum Charges (in Rs./month)
<b>LT</b>		
AC 50Hz, 1 - Phase, 230 Volt nominal Voltage	4.00	32 per KW
AC 50Hz, 3 - Phase, 400 Volt nominal Voltage	4.00	53 per KW
AC 50Hz, 1 - Phase, 230 Volt KJP & BPL connections	2.65	53 per connection
<b>HT</b>		
AC 50Hz, 3 - Phase, 11 KV nominal Voltage	3.40	168 per KW
AC 50Hz, 3 - Phase, 33 KV nominal Voltage	3.25	134 per KW

Note: Yard lighting, gate lighting, pumps and motors used in the same premises shall be integral part of this category.



## CATEGORY – 2

### COMMERCIAL CONSUMERS (NON – INDUSTRIAL)

**Definition:** The consumers under this category are defined as non –industrial commercial consumers such as installations of commercial places, Government undertaking, public sector undertaking, Commercial houses, markets, and optical houses. Restaurant, Bars, tailoring shops, Refreshment and tea stalls, show-cases of advertisement, Hoarding theatres, cinemas, Hotels, Lodging and Boarding, Private nursing Homes and Hospitals, religious Hospitals, private run schools and Hostels and Boarding facilities and other educational institute demanding fees, photographic studios, Battery charging units, repair workshops and Newspapers press 9 newspaper printing press only) Petrol Pumps, etc or classifications as may be amended by the Commission from time to time.

System of supply & Metering Point	Tariff (Rs. / Kwh)	Minimum Charges (in Rs./month)
<b>LT</b>		
AC 50Hz, 1 - Phase, 230 Volt nominal Voltage	5.00	32 per KW
AC 50Hz, 3 - Phase, 400 Volt nominal Voltage	5.00	53 per KW
<b>HT</b>		
AC 50Hz, 3 - Phase, 11 KV nominal Voltage	4.20	168 per KW
AC 50Hz, 3 - Phase, 33 KV nominal Voltage	4.00	134 per KW

## CATEGORY – 3

### PUBLIC LIGHTING AND WATER SUPPLY CONSUMERS

**Definition:** This category of the consumers shall be applicable to public Street lighting Systems in Municipality Towns, sub-Towns / Villages, etc. including Signal system, Ropeways on Roads and park lighting in areas of Municipality Town. Sub – town / villages. Pumps & equipments for public water supply systems and Treatment plants and associated applications shall also be covered in this category or classifications as may be amended by the Commission from time to time.





System of supply & Metering Point	Tariff (Rs. / Kwh)	Minimum Charges (in Rs./month)
<b>LT</b>		
AC 50Hz, 1 - Phase, 230 Volt nominal Voltage	5.10	32 per KW
AC 50Hz, 3 - Phase, 400 Volt nominal Voltage	5.10	53 per KW
<b>HT</b>		
AC 50Hz, 3 - Phase, 11 KV nominal Voltage	4.20	168 per KW
AC 50Hz, 3 - Phase, 33 KV nominal Voltage	4.00	134 per KW

**CATEGORY – 4**  
**AGRICULTURAL CONSUMERS**

**Definition:** The consumers in agricultural fields /firms for the purpose of (a) Pumps (b) field lighting & other applications for farmers in their irrigation and cultivation & not connected to any attached commercial or industrial installations in the agricultural field of farm or classifications as may be amended by the Commission from time to time.

System of supply & Metering Point	Tariff (Rs. / Kwh)	Minimum Charges (in Rs./month)
<b>LT</b>		
AC 50Hz, 1 - Phase, 230 Volt nominal Voltage	3.10	32 per KW
AC 50Hz, 3 - Phase, 400 Volt nominal Voltage	3.10	53 per KW
<b>HT</b>		
AC 50Hz, 3 - Phase, 11 KV nominal Voltage	2.75	168 per KW
AC 50Hz, 3 - Phase, 33 KV nominal Voltage	2.65	134 per KW

**CATEGORY – 5**  
**INDUSTRIAL CONSUMERS**

**Definition:** The Industrial consumers shall cover all Government registered Industrial power consumers which are not covered by category No.2 (supply for Commercial Purposes), such as steel fabrication, motor body builders, power handloom industry, poultry farming, pisciculture, prawn culture, floriculture in green house, mushroom production, cold storage unit of pisciculture, agriculture, horticulture and any other



type of industry where raw material is covered into finished products with the help of electrical motive power, colour photo labs. Government owned printing press and other printing press (Primarily engaged in printing for commercial gain), and government owned, public sector industries, etc or classifications as may be amended by the Commission from time to time.

**Note:** All Non-Industrial & Commercial consumers within the same complex under a single service connections shall also be treated as industrial consumers if the total distribution is integrated in the industrial complex and load on non-industrial side is below 10% of the total sanctioned load.

System of supply & Metering Point	Tariff (Rs. / Kwh)	Minimum Charges (in Rs./month)
<b>LT</b>		
AC 50Hz, 1 - Phase, 230 Volt nominal Voltage	4.20	32 per KW
AC 50Hz, 3 - Phase, 400 Volt nominal Voltage	4.20	32 per KW
<b>HT</b>		
AC 50Hz, 3 - Phase, 11 KV nominal Voltage	3.75	168 per KW
AC 50Hz, 3 - Phase, 33 KV nominal Voltage	3.40	134 per KW
AC 50Hz, 3 - Phase, 132 KV nominal Voltage & above	3.25	101 per KW

#### CATEGORY – 6

##### BULK MIXED CONSUMERS

**Applicability:** The Bulk mixed consumers are those consumers drawing bulk powers at HT voltage having a mixed load of all categories of consumers such as a village, a town, a city, a colony, or a State or Region etc. drawing power at one metering point. It will also include a University Campus, All India radio complex College complex. Defense Installations, Railway complex, Government Complexes, etc. who arranges their own distribution of power with approval of competent authority. This will not include Industrial complex which may consist mixed load category 1,2,3,& 5 or classifications as may be amended by the Commission from time to time.





System of supply & Metering Point	Tariff (Rs. / Kwh)	Minimum Charges (in Rs./month)
HT		
AC 50Hz, 3 - Phase, 11 KV nominal Voltage	3.75	168 per KW
AC 50Hz, 3 - Phase, 33 KV nominal Voltage	3.40	134 per KW
AC 50Hz, 3 - Phase, 132 KV nominal Voltage & above	3.25	101 per KW

#### CATEGORY – 7

##### TEMPORARY CONSUMERS

**Definition:** A Temporary consumers are those who would consume electricity for a limited period of time, which could be determined at its initial application itself such as:

- For marriage, puja, religious / public function / gathering, festivals and ceremonies which are of temporary nature up to a period not exceeding 90 days in case of metered supply.
- For commercial and Industrial purposes like cinemas, theatres, circus, carnivals, exhibitions, concerts etc, which are of temporary nature for private gain for a period not exceeding 30 days in case of metered supply or classifications as may be amended by the Commission from time to time.

##### Supply system:

- Single phase, 50Hz, 230 Volts.
- Three Phases, 50 Hz, 400 Volts.

**Note:** Temporary connection shall be given at HT supply only on specific agreements of supply.

##### Tariff:

##### Metered supply Rs. 6.35 per Kwh:

In case of metered supply consumer shall be given temporary connection., with energy meter by the department after receiving full advance from consumer the cost of energy estimated as per connected load for the whole period and service connection charges. On closure of the programme accounts shall be settled as per actual meter reading.



**Note:**

- a) Temporary services connection shall require prior approval from the next higher load sanctioning authority.
- b) The energy cost as per tariff above along with connection and disconnection charge will be realized in advance from the applicant before making the supply available to him.
- c) Applicant at his own expenses shall arrange the complete wiring for which temporary supply of power is required. It will also be the responsibility of the applicant to ensure that the wiring conforms to the technical & safety requirement as specified by authorities.
- d) Energy bill, based in actual consumption shall be served to the consumer at reasonable interval. The amount of each bill shall be adjusted from the amount of advance & security deposit on closure of the temporary services.



**Schedule – II**

**Miscellaneous Charges**

1. **Meter Rent:** The Energy meter and its allied instruments required for registering of energy consumed as deemed to be under the ownership of the supplier, shall attract following monthly rental charges against regular maintenance, repair and replacement.

<b>a. LT Metering:</b>	<b>Rs. Per Month</b>
i. Energy meter for AC Single phase LT supply:	16.00
ii. Energy meter for AC Three supply 400 V between phases (without CT):	26.00
iii. Energy meter for AC Three Phase supply 400 V between phases (with CT)	68.00

<b>b. HT Metering:</b>	<b>Rs. Per Month</b>
i. 11 KV system Complete Energy meter with CT/PT & other monitoring and indication requirement for AC Three phase HT supply	670.00
ii. 33 KV system	3350.00
iii. 132 KV & above	13401.00

- c. Other Charges for Meter:**
- i. Rs. 168.00 per shifting if resulted from reconstruction / modification of building and on the request of the consumer.
  - ii. Free of cost if the shifting is in the interest of the department.

**2. Replacement of the energy meter and its associated fittings and equipment:**

- i. The supplier shall replace the meters & the allied fitting & the equipments free of cost in case of scheduled replacement under normal wear & tear of ageing or technology change.
- ii. The Consumer shall bear all the necessary cost in case of temporary shifting of the meters & its associated fittings and the equipments.





- iii. The Consumers shall have to bear the cost if replacement due to negligence of the consumer or losses attributable to the negligence of the consumer.

**3. Charges for testing of Meters at the request of consumers:**

a. For AC Single Phase LT Energy Meter	Rs. 134.00
b. For energy meter without CT for AC three phase LT supply	Rs. 202.00
c. For energy meter with CT for AC three phase LT supply	Rs. 336.00
d. For energy meter AC three phase HT supply	Rs. 670.00

In case the meter fitted to the consumer premises is found to be defective from the very date of fitting, testing and replacement of meter will be done free of cost.

**4. Testing of Consumer's Installation:**

**Testing & Inspection charges of consumer's installation:-**

Should any consumer require the services of the supplier for testing and inspection & certification of the supplier's electrical installation on technical grounds following charges shall be paid in advance along with the application.

- a. 1 phase service wiring installations Rs. 202/- per installation.
- b. 3 phase service wiring installations Rs. 320/- per installation.
- c. HT Line installation 11 KV system Rs. 670/- per installation.
  - i. 33 KV & above system Rs. 1336/- per installation.

**5. Disconnection and reconnection:**

Charges towards each disconnection and reconnection as the case may be wither for punitive measures or on the request of the consumer, shall be as follows.

- a. All categories of connection Rs. 134/- per connection
- b. Disconnection only Rs. 134/- per connection

**6. Charges for new service connection or Replacement of connection wire, cut out, fuse etc. or any other works / jobs etc.**

The cost of new service connection i/c the meter and other materials & services rendered or cost of replacement of connection n wire, cut-out, fuses etc. will be borne by the consumer and shall be payable by the consumer in advance as per purchase rate of department plus 15% departmental charges. If the consumer intends to supply



the materials, then the 15% departmental charge only shall be paid in advance to the department.

**7. Re-rating of Installation & revised load sanction:**

Fees for rerating of the consumer's installation at the request of the consumer & for revised load sanction.

- i. Rs. 134/- per case for LT supply voltage systems.
- ii. Rs. 670/- per case for HT supply voltage systems.

**8. Meter Security: (interest bearing refundable)**

All consumers except under special provisions made under Govt. policy, such as under KJP or BPL household electrification, interest bearing meter security shall have to be paid against the energy meter provided. The interest rate shall be as defined in Para 4.119 of the Arunachal Pradesh Electricity Supply Code-2013.

- i. For AC single phase LT supply of connected load: Rs. 1336/-
- ii. For AC three phase LT supply of connected  
(without CT) load: Rs. 2681/-
- iii. For AC three phase LT supply CT operated Rs. 4691/-
- iv. For AC three phase HT supply, CT & PT operated Rs. 33448/-

**8. Security Deposit: (interest bearing refundable / adjustable)**

To safe guard against default by non-payment of bills against energy consumed interest bearing security deposit shall be deposited by the consumer in advance before the service is provided in accordance to the provisions of A.P. Electricity

Supply Code-2013 (KJP & BPL household connection shall not pay Security deposit as per present policy of the Govt.) The interest rate shall be as defined in Para 4.119 of the Arunachal Pradesh Electricity Supply Code-2013. A sample calculation showing Security Deposit payable per KW of connected load for new connections is given below :-



**RATES OF SECURITY DEPOSIT**  
**(As per A.P. Electricity Supply Code-2013)**

*Formula for calculating security Deposit for new connection = Load x Load  
Factor of the category in which consumer falls as per Electricity supply code x (Billing  
cycle + 30 days) x 24 hours x Current Tariff*

Sl/No.	Category of Consumers	As per A.P. Electricity Supply Code' 2013
1.	<b><u>Domestic Category:</u></b> LT 230 Volts LT 440 Volts HT 11KV HT 33 KV KJP	Rs. 1728.00 Rs. 1728.00 Rs. 1469.00 Rs. 1404.00 Nil as per Govt. Policy
2.	<b><u>Commercial Category:</u></b> LT 230 Volts LT 440 Volts HT 11KV HT 33 KV	Rs. 3600.00 Rs. 3600.00 Rs. 3024.00 Rs. 2880.00
3.	<b><u>Public Lighting:</u></b> LT 230 Volts LT 440 Volts 11KV 33 KV	Rs. 2938.00 Rs. 2938.00 Rs. 2419.00 Rs. 2304.00
4.	<b><u>Agricultural Consumers:</u></b> LT 230 Volts LT 440 Volts 11KV HT 33 KV HT	Rs. 1473.00 Rs. 1473.00 Rs. 1307.00 Rs. 1259.00
5	<b><u>Industrial Consumers:</u></b> LT 230 Volts LT 440 Volts HT 11 KV – Single shift HT 11 KV – Double shift HT 11 KV – Continuous	Rs. 3024.00 Rs. 3024.00 Rs. 2700.00 Rs. 4050.00 Rs. 5400.00
6.	<b><u>Industrial Consumers:</u></b>	





	HT 33KV – Single shift	Rs. 2448.00
	HT 33KV – Double shift	Rs. 3672.00
	HT 33KV – Continuous	Rs. 4896.00
7.	<b><u>Industrial Consumers:</u></b> <b><u>132 KV &amp; Above</u></b> Single shift Double shift Continuous	  Rs. 2340.00 Rs. 3510.00 Rs. 4680.00
8.	<b><u>Bulk Mixed Consumers:</u></b> HT 11 KV (LF-50%) HT 33 KV (LF-50%) EHT 132 KV & above (LF-50%)	 RS. 2700.00 Rs. 2448.00 Rs. 2340.00
9.	<b><u>Public Water Supply</u></b> LT (220 V & 400 V ) HT 11 KV HT 33 KV	 Rs. 2424.00 Rs. 1996.00 Rs. 1901.00

**9. Charges for Testing of Transformer Oil:**

The departmental charge for testing oil of private owned transformers for each sample of oil shall be charged Rs. 134.00 per sample test.



### Schedule – III

#### GENERAL CONDITIONS OF SUPPLY

1. **Payment:** The bill shall be paid in full inclusive of all arrears if the consumer within the last day for payment indicated on the body of the bill. However the consumer making payment in full within due date indicated on the body of the bill will be entitled to avail rebate.

**Application for Connection:** The Consumer shall apply for service connection to the nearest Assistant Engineer (Electrical) intimating details of demand, location etc.

2. **Penalty:** If payments is not received within last date for payment the bill will be treated as invalid and the amount outstanding will be carried over to the next month's bill as arrear. Interest @2% will be charged as penalty on outstanding amount each 30 days successive period or part thereof until the amount is paid in full.

**Sanctioning Authority:** Service connection shall be given only after load sanction by the competent authority as per delegation of power accorded as under.

Categories of consumers

a.

i. AE (E) up to 5 KW of connected load	1,2,3,4,5 & 7
ii. EE up to 50 KW of connected load	1,2,3,4,5 & 7
iii. SE up to 500 KW of connected load	1,2,3,4,5,6 & 7
iv. CE Full power of connected load	1,2,3,4,5,6&7

- b. Security deposit and cost of service connection shall have to be deposited in advance on receipt of technically sanctioned estimate.

3. **Rebate:** Rebate of 2.0% on the bill amount shall be available to the billed amount on current bills if the dues are cleared within due dates.
4. **Single Point Delivery:** The above tariff is based on the supply being given through a single point of delivery and metering at one voltage. Supply at other points at other voltage shall be separately metered and billed for and shall be considered as separate connection.



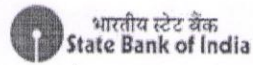


5. **Mixed Load:** Mixed domestic and commercial establishment shall be treated as commercial establishments if the load on commercial side is more than 10% of the total connected load and specific load sanction shall be made by competent authority of the supplier.
6. **Metering Point:** The metering point shall be the point of delivery of energy at the declared nominal voltage.
7. **Billing Cycle:** Normally the billing cycle shall on monthly basis.
8. **Minimum charge:** A consumer shall have to pay the minimum charge calculated on the sanctioned connected load if the energy charge amount payable is below the minimum charge in a month. The minimum charge shall not be payable when the energy bill is above the calculated minimum charge. The consumer shall continue to pay minimum charge as long as the assets are in place and not being dismantled after disconnection owing to default or after permanent disconnection.
9. **Ownership meter:** The energy meter and its allied instrument used for registration of energy data only shall deem to be the property of the supplier and the consumer shall have no right over it for ownership after the commencement of supply.  
  
All consumers getting their supply at HT but metered on LT side of the transformer shall be charged an additional 3% over the metered consumption
10. **Maintenance & Replacement of Energy meter:** the supplier shall maintain & replace the energy meter associated measuring instruments free of cost during the validity of the supply.
11. **Default:** A Consumer shall be automatically called a defaulter if he fails to clear all the outstanding & current bills accumulated for a period of 2 months. On being a defaulter, the consumer shall be liable for disconnection after adjustment of security deposit against the energy bill account. After adjustment of security deposit, if the consumer desires for reconnection the consumer shall have to clear all outstanding dues and pay fresh security deposit.
12. **Watch and Ward of Meters:** The consumers shall be responsible for the cost of repairs / replacement of CT/PTs and other connecting and transformation devices of



the service connections. The energy meter and reading or scanning devices i/c the meter box shall be as per clause 9 and 10 of this tariff notification.

13. All the bills raised within billing cycle of April month shall have the stepped-up tariff irrespective of whether a portion of the billing cycle falls within the previous month of March or not.
14. All the existing connections / agreements in force before the commencement of this tariff structure shall deem to be effected under this tariff schedule & related terms and conditions shall have precedence over the existing agreements.



BENCHMARK PRIME LENDING RATE (HISTORICAL DATA) ■

Effective Date	Interest Rate (%)
04.02.2013	14.45
27.09.2012	14.50
13.08.2011	14.75
11.07.2011	14.25
12.05.2011	14.00
25.04.2011	13.25
14.02.2011	13.00
03.01.2011	12.75
21.10.2010	12.50
17.08.2010	12.25
29.06.2009	11.75
01.01.2009	12.25
10.11.2008	13.00
12.08.2008	13.75
27.06.2008	12.75
27.02.2008	12.25
16.02.2008	12.50
09.04.2007	12.75
20.02.2007	12.25
27.12.2006	11.50
02.08.2006	11.00
01.05.2006	10.75
01.01.2004	10.25
05.05.2003	10.50
01.11.2002	10.75
01.04.2002	11.00
05.03.2001	11.50
12.08.2000	12.00
01.04.2000	11.25
01.03.1999	12.00
01.05.1998	13.00
02.04.1998	13.50
22.01.1998	14.00
01.11.1997	13.00
01.07.1997	13.50
16.04.1997	14.00
01.11.1996	14.50
06.09.1996	15.50
15.07.1996	16.00
10.11.1995	16.50
24.04.1995	15.50
15.02.1995	15.00