

PETITION FOR APPROVAL

OF

AGGREGATE REVENUE REQUIREMENT

AND

RETAIL TARIFF FOR FY 2017-18

UNDER SECTION 62 & 64

OF

THE ELECTRICITY ACT 2003

Submitted by:
Department of Power, Arunachal Pradesh

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

FILE No: _____

Petition No: _____

IN THE MATTER OF : Petition for Approval of Aggregate Revenue Requirement (ARR) and Retail Tariff Proposal for FY 2017-18 under Sections 62 and 64 of The Electricity Act 2003

AND

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

..... Petitioner

Petition under section 64 of the Electricity Act 2003 for determination of Aggregate Revenue Requirement (ARR) and approval and Retail Tariff in respect of Arunachal Pradesh Department of Power (herein after called "APDoP") for FY 2017-18.

The petitioner most respectfully submits as follows;

1. The Petitioner, APDoP, is a government department functions under the Ministry of Power Electrical, Government of Arunachal Pradesh, is the sole electricity distribution utility for the entire State of Arunachal Pradesh.
2. The petitioner, being a government department, is a deemed distribution licensee as per Section 14, proviso 3 of the Electricity Act 2003.
3. As per Section 64 of the Electricity Act 2003 read with 'Terms and Conditions for Determining of Tariff and Formats for Filing Regulation 2011' and 'Multi Year Tariff Regulation 2013' notified by Arunachal Pradesh State Electricity Regulatory Commission(herein after called "Hon'ble Commission"), the licensee has to file petition for determination ARR and Retail Tariff every year.
4. The petitioner though has to file petition under Multi Year Tariff Format, but because of non availability of sufficient data, the petitioner is filing for single year tariff.
5. The petitioner, being government department, is unable to function like incorporated company in the matter of profit making business plan, audits, accounts etc. Hence, data/information as required by MYT regulation is not available, as a result, petition for

single year i.e. for FY 2017-18 is hereby filed for necessary action of Hon'ble Commission as deemed fit.

Petitioner,
For Department of Power
Government of Arunachal Pradesh,
Itanagar

श. 254
12/07/2017



अरुणाचल प्रदेश ARUNACHAL PRADESH

00AA 617441

AFFIDAVIT


I, Sri Kennedy Bapur, Son of Sri Jobet Bapur, age about 42 years, resident of Itanagar do hereby solemnly affirm and state as follows:-

1. I am working as Draughtsman under Department of Power, Arunachal Pradesh and I am petitioner in the above matter and is duly authorized to make this affidavit by competent authority of the Department.
2. The statement made in the petition is best on the information received from the official records of the department maintained in the ordinary course of business and believed to be true to best of my knowledge.


Deponent

Verification:

I, Sri Kennedy Bapur, do hereby verify that the facts mentioned in the para 1 and 2 above are correct to the best of my knowledge and no part of it is false or no material has been concealed.


12/07/17
Executive Magistrate
Itanagar Capital Complex
Itanagar (A.P.)


Deponent

TABLE OF CONTENTS

| SECTIONS | TOPICS | PAGE NO. |
|----------|---|----------|
| | Submission by Petitioner | i |
| | Affidavit | iii |
| | Table of Contents | iv |
| | Chapter-I :: Introduction | |
| 1.1 | History | 1 |
| 1.2 | Source of Electrical Power | 1 |
| 1.3 | Necessity for Filing of Tariff Petition | 2 |
| 1.4 | Procedure Adopted in Preparation of this Tariff Petition | 2 |
| | Chapter-II :: Estimation of Annual Revenue Requirement | |
| 2.1 | Power Purchase Cost | 4 |
| 2.2 | Capital Cost | 9 |
| 2.3 | Operation and Maintenance Cost | 10 |
| 2.4 | Interest on loan | 11 |
| 2.5 | Return on Equity | 11 |
| 2.6 | Interest on working Capital | 11 |
| 2.7 | Depreciation | 11 |
| 2.8 | Income Tax | 11 |
| 2.9 | Bad and doubtful debt | 12 |
| 2.10 | Fuel cost | 12 |
| 2.11 | Aggregate Revenue Requirement | 12 |
| | Chapter-III :: Annual Income | |
| 3.1 | Annual Income | 13 |
| 3.2 | Energy sale within State | 13 |
| 3.3 | Non Tariff Income | 14 |
| 3.4 | Income from energy sale through Energy Exchange | 15 |
| 3.5 | Income from energy sale through Deviation Export | 15 |
| 3.6 | Total Annual Income | 16 |
| | Chapter-IV :: Revenue Gap | |
| 4.1 | Aggregate Revenue Requirement and Revenue Gap | 17 |
| 4.2 | Revenue Gap and its recovery. | 17 |
| | Chapter-V :: Schedules | |
| 5.1 | Schedule – I :: Category wise Tarff Schedule | 18 |
| 5.2 | Schedule – II :: Miscellaneous Charges | 22 |
| 5.3 | Schedule – III :: General Conditions of Supply | 24 |
| | Chapter-VI :: Prayer | 26 |



CHAPTER - I :: INTRODUCTION

1.1 History

The Arunachal Pradesh Department of Power (APDoP), a government department, functioning under the Government of Arunachal Pradesh is responsible for supply of electricity in the entire Arunachal Pradesh and is only distribution utility in Arunachal Pradesh. And hence APDoP is deemed distribution licensee as per Section 14, provision 3 of The Electricity Act, 2003. The APDoP was created in 1992 separating from the Arunachal Pradesh Public Works Department. That time, the entire power management including generations, transmissions and distributions was responsibility of the APDoP. In the year 2004, a hydropower development department (DHPD) was created by bifurcating from the APDoP and thereby separating the generation from the purview of APDoP. The APDoP has 2, 18, 897 consumers with an annual energy consumption of about 346.94 MUs for the FY 2015-16. Further there is an agency under state government called Arunachal Pradesh Energy Development Agency (APEDA) which deals with Non Conventional Energy in the state.

1.2 Source of Electrical Power

The APDoP utilises Electrical Power from three different sources

1.2.1 Power from Diesel Generating (DG) Sets:- APDoP has DG sets of different capacities installed at different locations with total installed capacity of about 19.5 MW. These DG sets are kept as standby and used as and when required. Further, APDoP is on the way to phasing out the DG Sets slowly due to its high generation cost. Since these sets are owned by APDoP, the power generated from it will not be included in the power purchase cost. The Expenditure on DG sets shall be included in the Fuel, Operation and Maintenance Cost.

1.2.2 Power from DHPD:- APDoP receives about 58.62 MU annually from DHPD at the rate of Rs. 2.46 per unit. Hence, APDoP shall purchase power from DHPD costing at about Rs. 12.25 Cr.

1.2.3 Power from Central Sector Allocation: - The remaining power requirement is met by Power allocation from central Sector. Central Sector allocation and energy purchased in FY 2015-16 is given in the table 1.1. This allocation is likely to remain same for the next year as no new project is coming up in next year. Hence, central sector allocation has been kept same for previous year, current year and ensuing year.



Table 1.1 :: Central Sector Allocation for the FY 2015-16

| S.L No | Station | Capacity (MW) | Firm allocation to Arunachal Pradesh | | Actual Utilised (MU) |
|----------|----------------------|---------------|--------------------------------------|---------------|----------------------|
| | | | in % | in MW | |
| 1 | <u>NHPC</u> | | | | |
| | a) LOKTOK | 105 | 4.94 | 5.19 | 25.65 |
| | <u>NEEPCO</u> | | | | |
| | a) RHEP | 405 | 6.462 | 26.17 | 85.44 |
| | b) Free Power | | 12 | 48.60 | 157.84 |
| | c) KOPILI-I | 200 | 5.191 | 10.38 | 34.97 |
| 2 | d) KOPILI-II | 25 | 5.992 | 1.50 | 5.65 |
| | e) Khandong | 50 | 4.194 | 2.10 | 7.16 |
| | f) AGBPP | 291 | 5.694 | 16.57 | 98.60 |
| | g) AGTPP | 84 | 6.132 | 5.15 | 38.14 |
| | h) AGTPP-II | 46 | 8.875 | 4.08 | 15.66 |
| | i) DOYANG | 75 | 6.852 | 5.14 | 10.60 |
| | <u>NTPC</u> | | | | |
| 3 | a) FARAKKA | 1600 | 0.19 | 3.04 | 20.27 |
| | b) KAHALGAON | 840 | 0.19 | 1.60 | 11.44 |
| | c) TALCHAR | 1000 | 0.14 | 1.40 | 14.54 |
| 4 | <u>OTPC</u> | | | | |
| | a) PALLATNA | 363.3 | 3.03 | 11.01 | 103.82 |
| | Total | | | 141.92 | 629.78 |

1.3 Necessity for Filing of Tariff petition

The Electricity Act 2003, section 62 and 64 provides for determination of tariff by appropriate commission on application by licensee. The Arunachal Pradesh State Electricity Regulatory Commission (APSERC) notified tariff regulations (terms and condition) 2011 and Multi Year Tariff Regulation 2013 which provides for filing tariff petition before 30th November every year. In pursuance of these legal provisions, APDoP is filling this tariff petition. However, because of non availability of sufficient data/information APDoP is not filing for Multi Year Tariff this year. Hon'ble commission is requested to condone it for this year. Next year APDoP shall try in multi year tariff format.

1.4 Procedure Adopted in preparation of this Tariff Petition

While preparing the tariff petition and annual revenue requirement, the APDoP adopted the principle, guidelines and procedure prescribed by Hon'ble APSERC in the Tariff Regulation(Terms and Conditions) 2011 and Multi Year Tariff Regulation 2013. They



are as follows:

1.4.1 Estimation of Aggregate Revenue Requirement

Following components shall comprise for calculation of Aggregate Revenue Requirement:

- a) Power Purchase Cost
- b) Fuel Cost
- c) Capital Cost
- d) Operation and maintenance cost
- e) Interest on loan
- f) Return on equity
- g) Working capital
- h) Interest on working capital
- i) Depreciation
- j) Income tax
- k) Provision for bad or doubtful debt.

1.4.2 Estimation of Annual Income.

- a) Estimation of category wise energy sale and corresponding revenue at existing tariff.
- b) Estimation of income from deviation export(UI)
- c) Estimation of income from Sale of surplus power through Power Exchange.
- d) Non tariff income.

1.4.3 Determination of Revenue Gap

Difference in amount between estimated Annual Revenue Requirement and Estimated Annual Income is Revenue Gap for that year.

1.4.4 Revised Tariff Proposal

To cover the revenue gap revised tariff is proposed for approval of Hon'ble Commission.



CHAPTER-II :: ESTIMATION OF AGGREGATE REVENUE REQUIREMENT

2.1 Power Purchase Cost

APDoP buys power from DHPD as well as Central Sector Generation Station. The Power purchased during FY 2015-16 shown in the following table 2.1. The power purchase cost for current year and ensuing year is estimated considering various factors like energy sale projection, likely distribution losses, surplus energy sale during high hydro, deviation import during peak hours, total energy requirement etc.

Table 2.1 :: Power Purchase Cost during FY 2015-16

| SL. No | Source | Energy received (MU) | Power Purchase Cost (Crore) | PGCIL, NERLDC & Other Charges(Crore) | Total Power Purchase Cost (Crore) | Unit Cost (Rs./ KWH) |
|--------|----------------------|----------------------|-----------------------------|--------------------------------------|-----------------------------------|----------------------|
| 1 | <u>NHPC</u> | | | | | |
| | a) LOKTOK | 25.65 | 8.93 | 1.13 | 10.07 | 3.93 |
| | <u>NEEPCO</u> | | | | | |
| | a) RHEP | 85.44 | 23.56 | 3.78 | 27.34 | 3.2 |
| | b) Free Power | 157.84 | 0.00 | 6.98 | 6.98 | 0.44 |
| | c) KOPILI-I | 34.97 | 3.30 | 1.55 | 4.85 | 1.39 |
| 2 | d) KOPILI-II | 5.65 | 1.88 | 0.25 | 2.13 | 3.76 |
| | e) Khandong | 7.16 | 1.38 | 0.32 | 1.70 | 2.37 |
| | f) AGBPP | 98.60 | 32.35 | 4.36 | 36.72 | 3.72 |
| | g) AGTPP | 38.14 | 11.52 | 1.69 | 13.21 | 3.46 |
| | h) AGTPP-II | 15.66 | 4.95 | 0.69 | 5.64 | 3.6 |
| | i) DOYANG | 10.60 | 4.97 | 0.47 | 5.44 | 5.13 |
| | <u>NTPC</u> | | - | | | |
| 3 | a) FARAKKA | 20.27 | 6.01 | 0.90 | 6.90 | 3.4 |
| | b) KAHALGAON | 11.44 | 5.01 | 0.51 | 5.52 | 4.83 |
| | c) TALCHAR | 14.54 | 4.93 | 0.64 | 5.58 | 3.83 |
| | <u>TPCL</u> | | | | | |
| 4 | a) PALLATNA | 103.82 | 29.66 | 4.59 | 34.26 | 3.3 |
| 5 | Deviation Import | 127.29 | 26.94 | 5.63 | 32.57 | 2.56 |
| 6 | DHPD | 58.62 | 14.42 | | 14.42 | 2.46 |
| | Total | 815.69 | 179.82 | 33.50 | 213.31 | 2.62 |

2.1.1 Energy Sale within the state

The category wise energy sale within the state in previous year, estimated in current year and projected in ensuing year is shown in the table 2.2. The increase in number of consumers for current year and ensuing year has been made after analysing past trends.



Table 2.2 ::Category wise number of consumers energy sale projection

| S.L No | Category of Consumers | | Previous Year 2015-16 (Actual) | | Current Year 2016-17 (Estimated) | | Ensuing Year 2017-18 (Projected) | |
|----------|---|----------------------|--------------------------------|------------------|----------------------------------|------------------|----------------------------------|------------------|
| | | | No of Consumers | Energy Sale (MU) | No of Consumers | Energy Sale (MU) | No of Consumers | Energy Sale (MU) |
| 1 | Non Commercial Consumers (Domestic) | | | | | | | |
| | LT | | | | | | | |
| | a) | 1-Phase, 230 Volt | 137716 | 97.86 | 144602 | 102.75 | 151832 | 107.89 |
| | b) | 3-Phase, 400 Volt | 2258 | 17.26 | 2371 | 18.12 | 2490 | 19.03 |
| | HT | | | | | | | |
| | c) | 3-Phase, 11KV | 34 | 1.67 | 36 | 1.75 | 38 | 1.84 |
| | d) | 3-Phase, 33KV | | | | | | |
| | e) | KJP & BPL connection | 54088 | 21.80 | 56792 | 22.89 | 59632 | 24.03 |
| 2 | Commercial Consumers (Non-Industrial) | | | | | | | |
| | LT | | | | | | | |
| | a) | 1-Phase, 230 Volt | 20889 | 19.60 | 21933 | 20.58 | 23030 | 21.61 |
| | b) | 3-Phase, 400 Volt | 1500 | 14.91 | 1575 | 15.66 | 1654 | 16.44 |
| | HT | | | | | | | |
| | c) | 3-Phase, 11KV | 95 | 4.18 | 100 | 4.39 | 105 | 4.61 |
| | d) | 3-Phase, 33KV | 15 | 0.31 | 16 | 0.32 | 17 | 0.34 |
| 3 | Public Lighting and Water Supply Consumers | | | | | | | |
| | LT | | | | | | | |
| | a) | 1-Phase, 230 Volt | 1506 | 4.95 | 1581 | 5.20 | 1660 | 5.46 |
| | b) | 3-Phase, 400 Volt | 170 | 2.34 | 179 | 2.46 | 188 | 2.58 |
| | HT | | | | | | | |
| | c) | 3-Phase, 11KV | 23 | 4.39 | 24 | 4.61 | 25 | 4.84 |
| | d) | 3-Phase, 33KV | 4 | 0.21 | 4 | 0.22 | 4 | 0.23 |
| 4 | Agricultural Consumers | | | | | | | |
| | LT | | | | | | | |
| | a) | 1-Phase, 230 Volt | 2 | 0.01 | 4 | 0.01 | 6 | 0.01 |
| | b) | 3-Phase, 400 Volt | 14 | 0.01 | 26 | 0.01 | 38 | 0.01 |
| | HT | | | | | | | |
| | c) | 3-Phase, 11KV | | | | | | |
| | d) | 3-Phase, 33KV | | | | | | |
| 5 | Industrial Consumers | | | | | | | |
| | LT | | | | | | | |
| | a) | 1-Phase, 230 Volt | 82 | 0.49 | 86 | 0.52 | 90 | 0.55 |
| | b) | 3-Phase, 400 Volt | 187 | 2.85 | 196 | 2.99 | 206 | 3.14 |
| | HT | | | | | | | |
| | c) | 3-Phase, 11KV | 24 | 1.48 | 25 | 1.56 | 26 | 1.64 |
| | d) | 3-Phase, 33KV | 18 | 16.74 | 19 | 17.58 | 20 | 18.46 |
| | e) | 3-Phase, 132 KV | 3 | 75.46 | 3 | 79.24 | 3 | 83.20 |
| 6 | Bulk Mixed Consumers | | | | | | | |



| | | | | | | | | |
|----------|---------------------------|-----------------|--------|--------|--------|--------|--------|--------|
| | a) | 3-Phase, 11KV | 135 | 18.22 | 142 | 19.14 | 149 | 20.10 |
| | b) | 3-Phase, 33KV | 17 | 5.36 | 18 | 5.63 | 19 | 5.91 |
| | c) | 3-Phase, 132 KV | 1 | 36.56 | 1 | 38.39 | 1 | 40.31 |
| 7 | Temporary Consumer | | | | | | | |
| | a) | LT/HT | 116 | 0.22 | 122 | 0.23 | 128 | 0 |
| | | G Total:- | 218897 | 346.90 | 229855 | 364.25 | 241361 | 382.23 |

2.1.2 Deviation Import/(UI Import)

During peak hour APDoP has to resort for deviation import/ unscheduled interchange (import). The deviation import received during previous year i.e. 2015-16 and estimated deviation import during current Year and ensuing year is given table 2.3.

Table 2.3 :: Projection of Deviation Import

| SL. No. | Month | Per unit cost (Rs./ kWh) | Previous Year 2015-16 (Actual) | | Current Year 2016-17 (Estimated) | | Ensuing Year 2017-18 (Projected) | |
|-----------|--------------|--------------------------|--------------------------------|--------------------------------------|----------------------------------|--------------------------------------|----------------------------------|--------------------------------------|
| | | | Quantum of Energy (MU) | Cost of Energy Purchase (Rs. Crores) | Quantum of Energy (MU) | Cost of Energy Purchase (Rs. Crores) | Quantum of Energy (MU) | Cost of Energy Purchase (Rs. Crores) |
| 1 | 2 | 4 | 3 | 5 | 6 | 7 | 8 | 9 |
| 1 | April | 2.70 | 13.21 | 3.57 | 10.37 | 2.81 | 8.30 | 2.24 |
| 2 | May | 2.46 | 15.57 | 3.83 | 12.23 | 3.01 | 9.78 | 2.41 |
| 3 | June | 2.00 | 3.53 | 0.71 | 2.77 | 0.56 | 2.22 | 0.44 |
| 4 | July | 2.14 | 3.57 | 0.76 | 2.81 | 0.60 | 2.25 | 0.48 |
| 5 | August | 2.44 | 1.33 | 0.33 | 1.04 | 0.26 | 0.84 | 0.20 |
| 6 | September | 3.49 | 6.95 | 2.43 | 5.46 | 1.90 | 4.37 | 1.52 |
| 7 | October | 2.91 | 8.38 | 2.44 | 6.59 | 1.92 | 5.27 | 1.54 |
| 8 | November | 2.96 | 11.27 | 3.33 | 8.86 | 2.62 | 7.08 | 2.10 |
| 9 | December | 2.91 | 14.07 | 4.10 | 11.05 | 3.22 | 8.84 | 2.58 |
| 10 | January | 2.37 | 16.44 | 3.89 | 12.91 | 3.06 | 10.33 | 2.45 |
| 11 | February | 2.11 | 15.41 | 3.26 | 12.11 | 2.56 | 9.69 | 2.05 |
| 12 | March | 2.23 | 17.56 | 3.92 | 13.79 | 3.08 | 11.03 | 2.46 |
| 13 | Total | 2.56 | 127.29 | 32.57 | 100.00 | 25.59 | 80.00 | 20.47 |

2.1.2 Distribution Loss and AT&C Loss

Due to scattered load over vast geographical area, the distribution loss is comparatively high in Arunachal Pradesh. The distribution loss and AT&C Loss in previous year, estimated in current year and projected in ensuing year is shown in the table 2.4 below.



Table 2.4 :: AT &C loss projection.

| S.L No. | Particulars | Calculation | Unit | Previous Year 2015-16 (Actual) | Current Year 2016-17 (Estimated) | Ensuing Year 2017-18 (Projected) |
|---------|---|----------------------------|-----------|--------------------------------|----------------------------------|----------------------------------|
| 1 | Generation (own as well as any other connected generation net after deducting auxiliary consumption) within area of supply of DISCOM. | A | MU | 58.94 | 64.77 | 71.18 |
| 2 | Input energy (metered Import) received at interface points of DISCOM network. | B | MU | 757.07 | 729.77 | 709.77 |
| 3 | Input energy (metered Export) by the DISCOM at interface point of DISCOM network. | C | MU | 80.70 | 96.20 | 114.92 |
| 4 | Total energy available for sale within the licensed area to the consumers of the DISCOM | D=A+B-C | MU | 735.31 | 698.34 | 666.03 |
| 5 | Energy billed to metered consumers within the licensed area of the DISCOM | E | MU | 346.90 | 364.25 | 382.23 |
| 6 | Energy billed to unmetered consumers within the licensed area of the DISCOM | F | MU | | | |
| 7 | Total energy billed | G=E+F | MU | 346.90 | 364.25 | 382.23 |
| 8 | Amount billed to consumer within the licensed area of DISCOM | H | Rs. Crore | 131.01 | 137.56 | 144.44 |
| 9 | Amount realized by the DISCOM out of the amount Billed at H# | I | Rs. Crore | 117.35 | 125.50 | 132.50 |
| 10 | Collection efficiency (%) (= Revenue realized/ Amount billed) | $J=(I/H) \times 100$ | % | 89.57 | 91.23 | 91.73 |
| 11 | Energy realized by the DISCOM | K=JXG | MU | 310.73 | 332.32 | 350.64 |
| 12 | Distribution Loss (%) | $L=\{(D-G)/D\} \times 100$ | % | 52.82 | 47.84 | 42.61 |
| 13 | AT & C Loss (%) | $M=\{(D-K)/D\} \times 100$ | | 57.74 | 52.41 | 47.35 |

Though the Honourable Commission set the AT&C Loss at 40% for FY 2016-17 but due to slow progress of R-APDRP scheme (DDUGJY), the set target could not be achieved.

2.1.4 Total Energy Requirement:-

Total Energy available during previous year i.e. 2015-16 and estimated energy requirement during current year and ensuing year including energy from DHPD and Diesel Generating Sets is given following table 2.5.



Table 2.5 :: Energy Requirement

MU

| S.L No. | Item | Previous Year 2015-16 (Actual) | Current Year 2016-17 (Estimated) | Ensuing Year 2017-18 (Projected) |
|----------|------------------------------------|--------------------------------|----------------------------------|----------------------------------|
| A | ENERGY REQUIREMENT | | | |
| 1 | Energy sales within the State | 346.90 | 364.25 | 382.23 |
| 2 | Sales outside State (Bilateral+UI) | 80.70 | 96.20 | 114.92 |
| 3 | TOTAL SALES | 427.59 | 460.45 | 497.15 |
| 4 | Distribution Losses | | | |
| I) | MU | 388.42 | 334.09 | 283.80 |
| II) | % | 52.82 | 47.84 | 42.61 |
| 5 | Total energy requirement (3+4) | 816.01 | 794.55 | 780.96 |
| B | ENERGY AVAILABILITY | | | |
| 1 | Power Purchase from | | | |
| | a) DHPD | 58.62 | 64.48 | 70.93 |
| | b) Central Stations | 471.94 | 471.94 | 471.94 |
| | c) Deviation Import(UI) | 127.29 | 100.00 | 80.00 |
| 2 | Net Power Purchase (a+b+c) | 657.86 | 636.42 | 622.87 |
| 3 | Free Power from RHEP, NEEPCO | 157.84 | 157.84 | 157.84 |
| 4 | From D G Set | 0.32 | 0.29 | 0.25 |
| 5 | Total energy availability | 816.01 | 794.55 | 780.96 |



Now, considering all the power sources and expected sales and losses, the power purchase for previous year, power purchase projection for current and ensuing year is given in the table 2.6.

Table 2.6 :: Power Purchase Cost projection

| Rs. In Crores | | | | | | | | |
|---------------|--------------------|---------------------|--------------------------------|---------------------|----------------------------------|---------------------|----------------------------------|---------------------|
| SL. No | Source | Unit Cost (Rs./KWH) | Previous Year 2015-16 (Actual) | | Current Year 2016-17 (Estimated) | | Ensuing Year 2017-18 (Projected) | |
| | | | Energy received (MU) | Power Purchase Cost | Energy received (MU) | Power Purchase Cost | Energy received (MU) | Power Purchase Cost |
| 1 | NHPC | | | | | | | |
| | a) LOKTOK | 3.93 | 25.65 | 10.07 | 25.65 | 10.07 | 25.65 | 10.07 |
| | NEEPCO | | | | | | | |
| | a) RHEP | 3.20 | 85.44 | 27.34 | 85.44 | 27.34 | 85.44 | 27.34 |
| | b) KOPILI-I | 1.39 | 34.97 | 4.85 | 34.97 | 4.85 | 34.97 | 4.85 |
| 2 | c) KOPILI-II | 3.76 | 5.65 | 2.13 | 5.65 | 2.13 | 5.65 | 2.13 |
| | d) Khandong | 2.37 | 7.16 | 1.70 | 7.16 | 1.70 | 7.16 | 1.70 |
| | e) AGBPP | 3.72 | 98.60 | 36.72 | 98.60 | 36.72 | 98.60 | 36.72 |
| | f) AGTPP | 3.46 | 38.14 | 13.21 | 38.14 | 13.21 | 38.14 | 13.21 |
| | g) AGTPP-II | 3.60 | 15.66 | 5.64 | 15.66 | 5.64 | 15.66 | 5.64 |
| | h) DOYANG | 5.13 | 10.60 | 5.44 | 10.60 | 5.44 | 10.60 | 5.44 |
| | NTPC | | | | | | | |
| 3 | a) FARAKKA | 3.40 | 20.27 | 6.90 | 20.27 | 6.90 | 20.27 | 6.90 |
| | b) KAHALGAON | 4.83 | 11.44 | 5.52 | 11.44 | 5.52 | 11.44 | 5.52 |
| | c) TALCHAR | 3.83 | 14.54 | 5.58 | 14.54 | 5.58 | 14.54 | 5.58 |
| | TPCL | | | | | | | |
| 4 | a) PALLATNA | 3.30 | 103.82 | 34.26 | 103.82 | 34.26 | 103.82 | 34.26 |
| 5 | Deviation Import | 2.56 | 127.29 | 32.57 | 100.00 | 25.60 | 80.00 | 20.48 |
| 6 | DHPD | 2.46 | 58.62 | 14.42 | 64.48 | 15.86 | 70.93 | 17.45 |
| | Total | | 657.86 | 206.33 | 636.42 | 200.80 | 622.87 | 197.27 |
| 7 | Free Power(RHEP) | 0.44 | 157.84 | 6.98 | 157.84 | 5.92 | 157.84 | 5.92 |
| | Grand Total | | 815.69 | 213.31 | 794.26 | 206.72 | 780.71 | 203.19 |

2.2 Capital Cost

All Projects/Schemes undertaken by APDoP are sponsored by the State Government or Central Government. As per clause 91.2(v) of Multi Year Tariff Regulation 2013, APDoP shall not claim this as Expenditure for the purpose of ARR.



2.3 Operation and Maintenance Cost

Operation and maintenance cost consists of following three components

2.3.1 Employee Cost.

Total number of employees including Casual, Work Charged and Regular employees in APDoP at present is 8934. This number is unlikely to increase as there has been no creation of new posts. The details of number of employees are given in table 2.7.

Table 2.7 :: Total numbers of Employees in APDoP

| Sl. No | Particulars | Previous Year 2015-16 (Actual) | Current Year 2016-17 (Estimated) | Ensuing Year 2017-18 (Projected) |
|--------|--|--------------------------------------|--|--|
| 1 | Number of employees as on 1st April | 8934 | 8934 | 8934 |
| 2 | Number of employees on deputation/ foreign service as on 1st April | 0 | 0 | 0 |
| 3 | Total Number of employees (1+2) | 8934 | 8934 | 8934 |
| 4 | Number of employees retired/ retiring during the year | 0 | 0 | 0 |
| 5 | Number of employees at the end of the year (3-4) | 8934 | 8934 | 8934 |

The employees cost for previous year, estimate for current year, projection for ensuing year is given in the table 2.8. Cost shown for these employees includes salary and other admissible allowances.

Table 2.8 :: Employees Cost

| Rs in Crore | | | | |
|-------------|------------------------------------|--------------------------------------|--|--|
| Sl No. | Particulars | Previous Year 2015-16 (Actual) | Current Year 2016-17 (Estimated) | Ensuing Year 2017-18 (Projected) |
| 1 | SALARIES & ALLOWANCES of Employees | 183.20 | 190.50 | 197.50 |

2.3.2 Repair and Maintenance Cost

Repair and maintenance cost of assets of APDoP for previous year, current year and ensuing year is shown in the table 2.9.



Table 2.9 :: Repair Maintenance Cost

| SI No. | Particulars | Rs. in Crore | | |
|--------|-----------------------|--------------------------------------|--|--|
| | | Previous Year 2015-16 (Actual) | Current Year 2016-17 (Estimated) | Ensuing Year 2017-18 (Projected) |
| 1 | Maintenance of Assets | 22.10 | 23.10 | 25.50 |

2.3.3 Administrative and General Expense

The Administrative and General Expense for previous year, estimate for current year, projection for ensuing year is given in the table 2.10.

Table 2.10 :: Administrative and General Expense

| SL No. | Particulars | Rs. in Crore | | |
|--------|-------------------------------------|-----------------------------------|--|--|
| | | Previous Year 2015-16 (Actual) | Current Year 2016-17 (Estimated) | Ensuing Year 2017-18 (Projected) |
| 1 | Administration and General Expenses | 1.05 | 1.10 | 1.15 |

2.4 Interest on Loan

APDoP being a Government Department is not allowed to take loan; hence interest on loan does not arise. Therefore, expenses on interest on loan may be considered as Nil and APDoP shall not claim any for purpose of ARR.

2.5 Return on equity

APDoP being a Government Department, all funding comes from Government as grant. Hence, there is no loan as well as equity, as a result return on equity may also be considered as Nil.

2.6 Interest on working Capital

Working capital for APDoP used to be provided by Government of AP as grant as and when required, hence, loan for as well as interest on working capital may also be considered as Nil.

2.7 Depreciation

All Assets under the control of APDoP are created from grant of Government of Arunachal Pradesh. Therefore APDoP shall not claim any depreciation as ARR.

2.8 Income Tax

Income Tax is not applicable in case of APDoP, being Government Department.



2.9 Bad and doubtful debt

APDoP has not considered any provision for bad or doubtful debt.

2.10 Fuel Cost

Fuel cost for running DG set for the previous year i.e. 2015-16 was Rs. 4.50 Cr. It is estimated that for current year and ensuing year the cost will be 4.68 Cr. and 4.87 Cr. respectively by nominally increasing 4% annually.

2.11 Aggregate Revenue Requirement

Considering all the aspects depicted above the aggregate revenue requirements of APDoP for previous year, estimate for current year, projection for ensuing year is summarised in the table 2.11.

Table 2.11 :: Annual Revenue Requirement

| Sl No. | Particulars | Previous Year 2015-16 (Actual) | Current Year 2016-17 (Estimated) | Ensuing Year 2017-18 (Projected) |
|--------|---------------------------|--------------------------------|----------------------------------|----------------------------------|
| | | (Actual) | (Estimated) | (Projected) |
| 1 | 2 | 3 | 4 | 5 |
| 1 | Cost of Power Purchase | 213.31 | 206.72 | 203.19 |
| 2 | Fuel Cost | 4.50 | 4.68 | 4.87 |
| 3 | Employee costs | 183.2 | 190.5 | 197.5 |
| 4 | O&M expenses | 22.1 | 23.1 | 25.5 |
| 5 | Adm. & Gen. Expenses | 1.05 | 1.1 | 1.15 |
| 6 | Depreciation | 0 | 0 | 0 |
| 7 | Interest charges | 0 | 0 | 0 |
| 8 | Return on equity | 0 | 0 | 0 |
| 9 | Income Tax | 0 | 0 | 0 |
| 10 | Total revenue requirement | 424.16 | 426.10 | 432.20 |



CHAPTER – III :: ANNUAL INCOME

3.1 Annual Income

APDoP earns income from different sources, like electricity energy charge from consumers within the state, meter rent, late payment surcharge, sale outside state through deviation export, energy exchange etc.

3.2 Energy Sale within State

Energy sale to the category wise retail consumers within the state for previous year, estimate for current year and projection for ensuing year at the existing tariff rate is shown in the table 3.1.

Table 3.1 :: Category wise energy sale within the State at existing tariff

| Sl. No. | Category | | Existing Tariff Rate (Rs per Kwh) | Previous Year 2015-16 (Actual) | | Current Year 2016-17 (Estimated) | | Ensuing Year 2017-18 (Projected) | |
|---------|---|-------------------|-----------------------------------|--------------------------------|----------------------|----------------------------------|----------------------|----------------------------------|----------------------|
| | | | | Sale in (MU) | Amount (Rs in Crore) | Sale in (MU) | Amount (Rs in Crore) | Sale in (MU) | Amount (Rs in Crore) |
| 1 | Non Commercial Consumers (Domestic) | | | | | | | | |
| | LT | | | | | | | | |
| | a) | 1-Phase, 230 Volt | 4.00 | 97.86 | 39.14 | 102.75 | 41.10 | 107.89 | 43.16 |
| | b) | 3-Phase, 400 Volt | 4.00 | 17.26 | 6.90 | 18.12 | 7.25 | 19.03 | 7.61 |
| | HT | | | | | | | | |
| | c) | 3-Phase, 11KV | 3.40 | 1.67 | 0.57 | 1.75 | 0.60 | 1.84 | 0.63 |
| | d) | 3-Phase, 33KV | 3.25 | | | | | | |
| e) | KJP & BPL connection | 2.65 | 21.80 | 5.78 | 22.89 | 6.07 | 24.03 | 6.37 | |
| 2 | Commercial Consumers (Non-Industrial) | | | | | | | | |
| | LT | | | | | | | | |
| | a) | 1-Phase, 230 Volt | 5.00 | 19.60 | 9.80 | 20.58 | 10.29 | 21.61 | 10.81 |
| | b) | 3-Phase, 400 Volt | 5.00 | 14.91 | 7.46 | 15.66 | 7.83 | 16.44 | 8.22 |
| | HT | | | | | | | | |
| | c) | 3-Phase, 11KV | 4.20 | 4.18 | 1.76 | 4.39 | 1.84 | 4.61 | 1.94 |
| d) | 3-Phase, 33KV | 4.00 | 0.31 | 0.12 | 0.32 | 0.13 | 0.34 | 0.14 | |
| 3 | Public Lighting and Water Supply Consumers | | | | | | | | |
| | LT | | | | | | | | |
| | a) | 1-Phase, 230 Volt | 5.10 | 4.95 | 2.52 | 5.20 | 2.65 | 5.46 | 2.78 |
| | b) | 3-Phase, 400 Volt | 5.10 | 2.34 | 1.19 | 2.46 | 1.25 | 2.58 | 1.32 |
| | HT | | | | | | | | |
| c) | 3-Phase, 11KV | 4.20 | 4.39 | 1.84 | 4.61 | 1.94 | 4.84 | 2.03 | |
| d) | 3-Phase, 33KV | 4.00 | 0.21 | 0.08 | 0.22 | 0.09 | 0.23 | 0.09 | |



| | | | | | | | | | |
|----------|-------------------------------|-------------------|------|---------------|---------------|---------------|---------------|---------------|---------------|
| 4 | Agricultural Consumers | | | | | | | | |
| | LT | | | | | | | | |
| | a) | 1-Phase, 230 Volt | 3.10 | 0.01 | | 0.01 | | 0.01 | |
| | b) | 3-Phase, 400 Volt | 3.10 | 0.01 | 0.00 | 0.01 | 0.00 | 0.01 | 0.00 |
| | HT | | | | | | | | |
| | c) | 3-Phase, 11KV | 2.75 | | | | | | |
| | d) | 3-Phase, 33KV | 2.65 | | | | | | |
| 5 | Industrial Consumers | | | | | | | | |
| | LT | | | | | | | | |
| | a) | 1-Phase, 230 Volt | 4.30 | 0.49 | 0.21 | 0.52 | 0.22 | 0.55 | 0.24 |
| | b) | 3-Phase, 400 Volt | 4.30 | 2.85 | 1.23 | 2.99 | 1.29 | 3.14 | 1.35 |
| | HT | | | | | | | | |
| | c) | 3-Phase, 11KV | 3.85 | 1.48 | 0.57 | 1.56 | 0.60 | 1.64 | 0.63 |
| | d) | 3-Phase, 33KV | 3.50 | 16.74 | 5.86 | 17.58 | 6.15 | 18.46 | 6.46 |
| | e) | 3-Phase, 132 KV | 3.35 | 75.46 | 25.28 | 79.24 | 26.55 | 83.20 | 27.87 |
| 6 | Bulk Mixed Consumers | | | | | | | | |
| | a) | 3-Phase, 11KV | 3.75 | 18.22 | 6.83 | 19.14 | 7.18 | 20.10 | 7.54 |
| | b) | 3-Phase, 33KV | 3.40 | 5.36 | 1.82 | 5.63 | 1.91 | 5.91 | 2.01 |
| | c) | 3-Phase, 132 KV | 3.25 | 36.56 | 11.88 | 38.39 | 12.48 | 40.31 | 13.10 |
| 7 | Temporary Consumer | | | | | | | | |
| | a) | LT/HT | 6.35 | 0.22 | 0.14 | 0.23 | 0.15 | 0.00 | 0.00 |
| | | G Total:- | | 346.90 | 131.00 | 364.25 | 137.56 | 382.23 | 144.29 |

3.2 Non tariff income

APDoP also earns certain amounts from energy meter rent from consumers and also from penalty charge who pays the revenue bill after due date. Meter rent and late payment surcharge is tabulated for previous year, estimate for current year and projection for ensuing year in the table 3.2.

Table 3.2 :: Non Tariff Income

| (Rs. In Crores) | | | | |
|-----------------|------------------------|-----------------------------------|--------------------------------------|--------------------------------------|
| SL No. | Source | Previous Year 2015-16 (Actual) | Current Year 2016- 17 (Estimated) | Ensuing Year 2017- 18 (Projected) |
| 1 | Meter/ Service rent | 2.59 | 2.73 | 2.85 |
| 2 | Late payment surcharge | 0.53 | 0.60 | 0.70 |
| 4 | Misc. receipts | -- | -- | -- |
| 5 | Misc. charges | -- | -- | -- |
| 8 | Income from trading | -- | -- | -- |
| 12 | Total Income | 3.12 | 3.33 | 3.64 |



3.4 Income from energy sale through Energy exchange

During high hydro season APDoP has surplus power. This surplus power is sold through energy exchange. The sale proceeds for previous year, estimate for current year and projection for ensuing year is shown in the table 3.4.

Table 3.4 :: Income from energy sale through Energy exchange

| SL. No. | Month | Per unit cost (Rs./kWh) | Previous Year 2015-16 (Actual) | | Current Year 2016-17 (Estimated) | | Ensuing Year 2017-18 (Projected) | |
|---------|-----------|-------------------------|--------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| | | | Quantum of Energy Sold (MU) | Cost of Energy Sale (Rs. Crores) | Quantum of Energy Sale (MU) | Cost of Energy Sale (Rs. Crores) | Quantum of Energy Sale (MU) | Cost of Energy Sale (Rs. Crores) |
| 1 | 2 | 4 | 3 | 5 | 5 | | | |
| 1 | April | | | | | | | |
| 2 | May | | | | | | | |
| 3 | June | 1.90 | 7.80 | 1.49 | 9.55 | 1.82 | 11.69 | 2.23 |
| 4 | July | 2.07 | 14.33 | 2.97 | 17.54 | 3.63 | 21.46 | 4.45 |
| 5 | August | 2.32 | 21.44 | 4.97 | 26.24 | 6.09 | 32.12 | 7.45 |
| 6 | September | 3.30 | 16.39 | 5.40 | 20.06 | 6.61 | 24.56 | 8.09 |
| 7 | October | | | | | | | |
| 8 | November | | | | | | | |
| 9 | December | | | | | | | |
| 10 | January | | | | | | | |
| 11 | February | | | | | | | |
| 12 | March | | | | | | | |
| 13 | Total | | 59.96 | 14.83 | 73.40 | 18.15 | 89.84 | 22.22 |

3.5 Income from energy sale through deviation export

During off peak hour of APDoP, the surplus power exported through unscheduled interchange. The unscheduled interchange for previous year, estimate for current year and projection for ensuing year is shown in the table 3.5.

Table 3.5 :: Income from energy sale through deviation export



| SL. No. | Month | Per unit cost (Rs./Kwh) | Previous Year 2015-16 (Actual) | | Current Year 2016-17 (Estimated) | | Ensuing Year 2017-18 (Projected) | |
|---------|--------------|-------------------------|--------------------------------|--------------------------------|----------------------------------|--------------------------------|----------------------------------|--------------------------------|
| | | | Quantum of Energy (MU) | Cost of Energy (Rs. In Crores) | Quantum of Energy (MU) | Cost of Energy (Rs. In Crores) | Quantum of Energy (MU) | Cost of Energy (Rs. In Crores) |
| 1 | April | 0.37 | 0.87 | 0.03 | 0.96 | 0.04 | 1.05 | 0.04 |
| 2 | May | 0.54 | 0.55 | 0.03 | 0.61 | 0.03 | 0.67 | 0.04 |
| 3 | June | 1.68 | 7.94 | 1.33 | 8.73 | 1.47 | 9.61 | 1.61 |
| 4 | July | 1.75 | 5.29 | 0.93 | 5.82 | 1.02 | 6.40 | 1.12 |
| 5 | August | 1.97 | 4.34 | 0.86 | 4.78 | 0.94 | 5.26 | 1.03 |
| 6 | September | 1.29 | 1.23 | 0.16 | 1.35 | 0.17 | 1.48 | 0.19 |
| 7 | October | 3.62 | 0.05 | 0.02 | 0.05 | 0.02 | 0.06 | 0.02 |
| 8 | November | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9 | December | -2.25 | 0.07 | -0.01 | 0.07 | -0.02 | 0.08 | -0.02 |
| 10 | January | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | February | 1.76 | 0.40 | 0.07 | 0.44 | 0.08 | 0.48 | 0.09 |
| 12 | March | | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Total | 10.72 | 20.73 | 3.41 | 22.81 | 3.75 | 25.09 | 4.12 |

3.6 Total Annual Income

Total annual income of APDoP from the various is projected for ensuing year 2017-18, estimated for current year and actual of previous year is tabulated in the following table 3.6.

Table 3.6 :: Total Annual Income

| S.L No. | Source | (Rs. In Crores) | | |
|----------|------------------------------|--------------------------------|----------------------------------|----------------------------------|
| | | Previous Year 2015-16 (Actual) | Current Year 2016-17 (Estimated) | Ensuing Year 2017-18 (Projected) |
| 1 | 2 | 3 | 4 | 5 |
| 1 | Non tariff income | 3.12 | 3.33 | 3.57 |
| 2 | Revenue from existing tariff | 131.00 | 137.56 | 144.29 |
| 3 | Sale through Energy Exchange | 14.83 | 18.15 | 22.22 |
| 4 | Deviation export | 3.41 | 3.75 | 4.12 |
| 3 | Total Income | 152.36 | 162.79 | 174.20 |



CHAPTER – IV::REVENUE GAP

4.1 Aggregate Revenue Requirement and Revenue Gap

From chapter II and chapter III, annual revenue requirement, income and revenue gap is tabulated in the table 4.1.

Table 4.1 :: Aggregate Revenue Requirement, Income and Revenue Gap

| (Rs. In Crore) | | | | |
|----------------|----------------------------------|--------------------------------|----------------------------------|----------------------------------|
| S.L No. | Particulars | Previous Year 2015-16 (Actual) | Current Year 2016-17 (Estimated) | Ensuing Year 2017-18 (Projected) |
| 1 | 2 | 3 | 4 | 5 |
| 1 | Cost of Power Purchase | 213.31 | 206.72 | 203.19 |
| 2 | Fuel Cost | 4.50 | 4.68 | 4.87 |
| 3 | Employee costs | 183.20 | 190.50 | 197.50 |
| 4 | O&M expenses | 22.10 | 23.10 | 25.50 |
| 5 | Adm. & Gen. Expenses | 1.05 | 1.10 | 1.15 |
| 6 | Depreciation | 0.00 | 0.00 | 0.00 |
| 7 | Interest charges | 0.00 | 0.00 | 0.00 |
| 8 | Return on equity | 0.00 | 0.00 | 0.00 |
| 9 | Income Tax | 0.00 | 0.00 | 0.00 |
| 10 | Total revenue requirement | 424.16 | 426.10 | 432.20 |
| 11 | Non tariff income | 3.12 | 3.33 | 3.57 |
| 12 | Revenue from existing tariff | 131.00 | 137.56 | 144.29 |
| 13 | Sale through Energy Exchange | 14.83 | 18.15 | 22.22 |
| 14 | Deviation export | 3.41 | 3.75 | 4.12 |
| 15 | Total Income | 152.36 | 162.79 | 174.20 |
| 16 | Revenue gap (10-15) | 271.80 | 263.31 | 258.01 |

4.2 Revenue Gap and its Recovery

There is a revenue gap of Rs. 247.67 Crore which has to be cover up revising the existing tariff. Since, APDoP is government department and is more care for welfare of its citizen as well as consumers than burdening them with high electricity tariff rate. Therefore, the revenue gap will be met up by the state government through financial grant or budgetary support, and hence no changes have been proposed in this tariff petition.

Table 4.2 :: Revenue Gap for FY 2017-18 and its Recovery

| Sl. No. | Description of Items | Rs. In Crore |
|---------|-------------------------------|--------------|
| 1 | Aggregate Revenue Requirement | 432.20 |
| 2 | Total Income | 174.35 |
| 3 | Revenue gap (1-2) | 257.86 |
| 4 | Expected Government Grant | 257.86 |
| 5 | Net Revenue Gap (3-4) | 0 |



CHAPTER – V :: SCHEDULES

5.1 Schedule-I :: Category wise Tariff Schedule

5.1.1 Category-1 :: Non- Commercial Consumers (Domestic)

| Sl. No. | System of Supply & Metering Point | | Tariff (Rs./KWH) |
|----------------|--|----------------------|-------------------------|
| 1 | LT - AC 50 Hz | | |
| 2 | a) | 1-Phase, 230 Volt | 4.00 |
| 3 | b) | 3-Phase, 400 Volt | 4.00 |
| 4 | c) | KJP & BPL connection | 2.65 |
| 5 | HT - AC 50 Hz | | |
| 6 | d) | 3-Phase, 11KV | 3.40 |
| 7 | e) | 3-Phase, 33KV | 3.25 |

Applicability ::

Consumers using the electrical energy for domestic and non-profit purpose such as lights, fans and 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, Religious printing press (not engaged in commercial activity or private again, excluding those which are specially covered under categories of this tariff) or classifications as may be amended by the Commission from time to time.

5.1.2 Category -2 :: Commercial Consumers (Non Industrial)

| Sl. No. | System of Supply & Metering Point | | Tariff (Rs./KWH) |
|----------------|--|-------------------|-------------------------|
| 1 | LT - AC 50 Hz | | |
| 2 | a) | 1-Phase, 230 Volt | 5.00 |
| 3 | b) | 3-Phase, 400 Volt | 5.00 |
| 4 | HT - AC 50 Hz | | |
| 5 | c) | 3-Phase, 11KV | 4.20 |
| 6 | d) | 3-Phase, 33KV | 4.00 |

Applicability ::

The consumers under this category are defined as non-industrial commercial consumers such as installation of commercial places, Government undertaking, public sector



undertaking, Commercial houses, markets, and optical houses, Restaurant, Bars, Tailoring shops, 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 (newspaper printing press only) Petrol Pumps, etc. or classifications as may be amended by the Commission from time to time.

5.1.3 Category-3 :: Public Lighting And Water Supply Consumers

| Sl. No. | System of Supply & Metering Point | Tariff (Rs./KWH) |
|---------|-----------------------------------|------------------|
| 1 | LT - AC 50 Hz | |
| 2 | a) 1-Phase, 230 Volt | 5.10 |
| 3 | b) 3-Phase, 400 Volt | 5.10 |
| 4 | HT - AC 50 Hz | |
| 5 | c) 3-Phase, 11KV | 4.20 |
| 6 | d) 3-Phase, 33KV | 4.00 |

Applicability::

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 application shall also be covered in this category or classifications as may be amended by Commission from time to time.

5.1.4 Category – 4 :: Agricultural Consumers

| Sl. No. | System of Supply & Metering Point | Tariff (Rs./KWH) |
|---------|-----------------------------------|------------------|
| 1 | LT - AC 50 Hz | |
| 2 | a) 1-Phase, 230 Volt | 3.10 |
| 3 | b) 3-Phase, 400 Volt | 3.10 |
| 4 | HT - AC 50 Hz | |
| 5 | c) 3-Phase, 11KV | 2.75 |
| 6 | d) 3-Phase, 33KV | 2.65 |

Applicability ::

The consumers in agricultural fields/farms for purpose of pumps, field lighting and other applications for farmers in their irrigation and cultivation and not connected to any attached commercial or industrial installations in the agricultural field/farms or classification as may be amended by the Commission from time to time.



5.1.5 Category – 5 :: Industrial Consumers

| Sl. No. | System of Supply & Metering Point | | Tariff (Rs./KWH) |
|---------|-----------------------------------|-------------------|------------------|
| 1 | LT - AC 50 Hz | | |
| 2 | a) | 1-Phase, 230 Volt | 4.30 |
| 3 | b) | 3-Phase, 400 Volt | 4.30 |
| 4 | HT - AC 50 Hz | | |
| 5 | c) | 3-Phase, 11KV | 3.85 |
| 6 | d) | 3-Phase, 33KV | 3.50 |
| 7 | e) | 3-Phase, 132KV | 3.35 |

Applicability ::

The Industrial consumers cover all Government registered Industrial power consumers which are not covered by Category No. 2 (Supply for Commercial Purpose), 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 piscicultural, agricultural, horticultural and any other type of industry where raw material is covered in to finished product 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), government owned, public sector industries etc. or classifications as may be amended by the Commission from time to time.

5.1.6 Category – 6 :: Bulk Mixed Consumers

| Sl. No. | System of Supply & Metering Point | | Tariff (Rs./KWH) |
|---------|-----------------------------------|---------------------------|------------------|
| 1 | HT - AC 50 Hz | | |
| 2 | a) | 3-Phase, 11KV | 3.75 |
| 3 | b) | 3-Phase, 33KV | 3.40 |
| 4 | c) | 3-Phase, 132 KV and above | 3.25 |

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 ratio complex, College complex. Defence 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 and 5 or classification as may be amended by the Commission from time to time.



5.1.7 Category - 7 :: Temporary Consumers

Tariff :- Rs. 6.50 per Kwh

Supply System:

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

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

Applicability ::

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:

- a) For marriage, 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.
- b) 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 competent authority from time to time.

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.

Notes:

- 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.

5.2 Schedule- II – Miscellaneous Charges

5.2.1 Charges on Energy Meter

- a) **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 labour cost of its replacement.
- i) **Prepaid Consumers :-** As an incentive monthly rent for energy meter for prepaid consumer shall be NIL.
- ii) **Post-paid Consumers :-** For post-paid consumers monthly rent for energy meter if provided by APDoP shall be as per following table. In case the energy meter is purchased and installed at the cost of consumers then there shall be no meter rent.

| Sl. | | Energy Meter Specification | Rent. Rs/ Month |
|-----|------|--|-----------------|
| a | | LT Metering- AC | |
| | i. | Single Phase 220V | 16.00 |
| | ii. | Three Phase 400 V between phases (without CT) | 26.00 |
| | iii. | Three Phase 400 V between phases (with CT) | 68.00 |
| b | | HT Metering- AC Complete Energy meter with CT/PT & other monitoring and | |
| | i. | 11 KV system | 670.00 |
| | ii. | 33 KV system | 3350.00 |
| | iii. | 132 KV system | 13401.00 |

b) Shifting Charges of Meter

- i) If shifting resulted from reconstruction/modification of building and on request of the consumer :: Rs. 168/- per shifting.
- ii) If shifting is in the interest of Department :: Free of Cost.

c) Testing Charges of Meter



| Sl No | Charges for testing of Meters at the request of consumers | For each time |
|-------|---|---------------|
| i. | For AC Single Phase LT Energy Meter | 134.00 |
| ii. | For energy meter without CT for AC three phase LT Supply | 202.00 |
| iii. | For energy meter with CT for AC three phase LT supply | 336.00 |
| iv. | For energy meter AC three phase HT supply | 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.

5.2.2 Other Charges

a) Testing of Consumer's Installation

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

| Sl No. | Testing at Consumer Installation | Charges per Installation in Rs. |
|--------|--|---------------------------------|
| i. | 1 phase service Wiring installations | 202.00 |
| ii. | 3 phase service Wiring installations | 320.00 |
| iii. | HT Line installation of 11 KV system | 670.00 |
| iv. | HT Line installation of 33 KV and above system | 1336.00 |

b) Disconnection and Reconnection of Service

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

| Sl. No | Category of Work | Charges Per Connection |
|--------|-------------------------------|------------------------|
| i. | All categories of connections | 134.00 |
| ii. | Disconnection only | 134.00 |

c) Re-rating of Installation & revised load sanction



Fees for re-rating of the consumer's installation at the request of the consumer and for revised load sanction are as follows.

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

d) 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.

e) Security Deposit

All new consumers shall pay security deposit as per Section 4.114 to section 4.119 and Annexure 11.18 of Arunachal Pradesh Electricity Supply Code 2013

5.3 Schedule-III – General Conditions of Supply

5.3.1 Payment: The bill shall be paid in full inclusive of all arrears if the consumer pay 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.

5.3.4 Rebate:

For Post-paid Consumer : Rebate of 3% on the bill amount shall be available to the billed amount on current bills if the dues are cleared within due dates. The electricity bill shall show the amounts to be paid within due date (after 3% discount) and payable after due date.

For Prepaid Consumer : Rebate of 5% on recharge amount shall be made available.

5.3.3 Surcharge/Penalty for late payment of bill: 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. Simple 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.

5.3.5 Billing Cycle: Normally the billing cycle shall on monthly basis.

5.3.7 Defaulter: 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.

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

5.3.8 Mixed Load: Mixed domestic and commercial establishment shall be treated as commercial establishments if the load on commercial side is more than 50% of the total load.

5.3.10 Metering Point: The metering point shall be the point of delivery of energy at the declared nominal voltage.

5.3.11 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.



CHAPTER – VI :: PRAYER

The APDoP respectfully prays to the Hon'ble Commission;

1. To admit this Petition for approval of Retail Tariff for FY 2017-18 and determination of ARR for FY 2017-18
2. To approve proposed retail tariff for FY 2017-18.
3. To approve proposed ARR for FY 2017-18.
4. To grant any other relief as the Hon'ble Commission may consider appropriate.
5. To pass any other order as the Hon'ble Commission may deem fit and appropriate under the circumstances of the case and in the interest of justice.
6. The petitioner craves leave of the Hon'ble Commission to allow further submissions, additions and alterations to this petition as may necessary from time to time.

Dated Itanagar the

Petitioner
For Department of Power
Government of AP
Itanagar