

**PETITION FOR APPROVAL OF TRUE-UP PETITION OF FY 2011-12 AND FY 2012-13, PROVISIONAL TRUE-UP PETITION OF FY 2013-14, ANNUAL PERFORMANCE REVIEW OF FY 2014-15 AND AGGREGATE REVENUE REQUIREMENT (ARR) WITH TARIFF PROPOSAL FOR MYT CONTROL PERIOD FROM FY 2015-16 TO FY 2017-18**

**OF**

**ELECTRICITY DEPARTMENT, GOVERNMENT OF PUDUCHERRY  
SUBMITTED TO  
THE HON'BLE JOINT ELECTRICITY REGULATORY COMMISSION  
GURGAON**

**BY**

**ELECTRICITY DEPARTMENT, GOVERNMENT OF PUDUCHERRY**

**DECEMBER 2014**

True-up for FY 2011-12 & FY 2012-13, Provisional True-up for FY 2013-14, Review for FY 2014-15 and ARR & MYT Petition for FY 2015-18

---

**BEFORE THE JOINT ELECTRICITY REGULATORY COMMISSION FOR THE STATE OF GOA, &  
UNION TERRITORIES, GURGAON**

Filing No.....

Case No.....

## TABLE OF CONTENTS

<b>CHAPTER 1. INTRODUCTION .....</b>	<b>1</b>
1.1 HISTORICAL PERSPECTIVE.....	1
1.2 ELECTRICITY DEPARTMENT OF PUDUCHERRY.....	1
1.3 FILING UNDER TARIFF REGULATIONS.....	2
1.4 FILING OF ARR AND MULTI YEAR TARIFF PETITION .....	3
<b>CHAPTER 2. OVERALL APPROACH FOR PRESENT FILING.....</b>	<b>5</b>
2.1 TRUING UP FOR FY 2011-12, FY 2012-13 AND FY 2013-14 .....	5
2.2 ANNUAL PERFORMANCE REVIEW FOR FY 2014-15.....	5
2.3 MULTI – YEAR TARIFF PETITION AND TARIFF DETERMINATION FOR FY 2015-16.....	5
2.4 NORMS FOR PROJECTION .....	6
<b>CHAPTER 3. FINAL TRUING UP OF FY 2011-12 AND FY 2012-13.....</b>	<b>8</b>
3.1 PREAMBLE .....	8
3.2 NUMBER OF CONSUMERS.....	8
3.3 ENERGY SALES .....	9
3.4 DISTRIBUTION LOSS & ENERGY REQUIREMENT.....	9
3.5 POWER PURCHASE QUANTUM & COST FOR FY 2011-12 AND FY 2012-13.....	10
3.6 OPERATION & MAINTENANCE EXPENSES .....	12
3.7 CAPITAL WORK IN PROGRESS, GFA AND DEPRECIATION.....	16
3.8 INTEREST & FINANCE CHARGE .....	18
3.9 INTEREST ON WORKING CAPITAL.....	19
3.10 SECURITY DEPOSITS.....	20
3.11 RETURN ON CAPITAL BASE/ NET FIXED ASSETS .....	21
3.12 NON TARIFF INCOME.....	22
3.13 REVENUE FROM SALE OF POWER AT EXISTING TARIFF .....	22
3.14 AGGREGATE REVENUE REQUIREMENT FOR FY 2011-12 AND FY 2012-13.....	23
3.15 REVENUE GAP FOR FY 2011-12 AND FY 2012-13.....	24
<b>CHAPTER 4. PROVISIONAL TRUE UP OF FY 2013-14.....</b>	<b>25</b>
4.1 PREAMBLE .....	25
4.2 PROVISIONAL TRUE UP FY 2013-14.....	25
4.3 NUMBER OF CONSUMERS.....	25
4.4 ENERGY SALES .....	26
4.5 DISTRIBUTION LOSS & ENERGY REQUIREMENT.....	27
4.6 POWER PURCHASE QUANTUM & COST FOR FY 2013-14.....	27
4.7 OPERATION & MAINTENANCE EXPENSES .....	28
4.8 CAPITAL WORK IN PROGRESS, GFA AND DEPRECIATION.....	32
4.9 INTEREST & FINANCE CHARGE .....	33
4.10 INTEREST ON WORKING CAPITAL.....	34
4.11 SECURITY DEPOSITS.....	36
4.12 RETURN ON CAPITAL BASE/ NET FIXED ASSETS .....	36
4.13 NON TARIFF INCOME.....	37

4.14 REVENUE FROM SALE OF POWER AT EXISTING TARIFF .....	38
4.15 AGGREGATE REVENUE REQUIREMENT FOR FY 2013-14.....	38
4.16 REVENUE GAP FOR FY 2013-14 .....	39
<b>CHAPTER 5. ANNUAL PERFORMANCE REVIEW FOR FY 2014-15 .....</b>	<b>40</b>
5.1 BACKGROUND TO FY 2014-15 PETITION.....	40
5.2 REVIEW FOR FY 2014-15.....	40
5.3 NUMBER OF CONSUMERS.....	40
5.4 ENERGY SALES .....	41
5.5 DISTRIBUTION LOSS & ENERGY REQUIREMENT.....	42
5.6 POWER PURCHASE QUANTUM & COST FOR FY 2014-15.....	43
5.7 COST OF POWER PURCHASE FOR FY 2014-15.....	43
5.8 OPERATION & MAINTENANCE EXPENSES .....	46
5.9 CAPITAL WORK IN PROGRESS, GFA AND DEPRECIATION.....	48
5.10 INTEREST & FINANCE CHARGE .....	49
5.11 INTEREST ON WORKING CAPITAL.....	50
5.12 SECURITY DEPOSITS.....	51
5.13 PROVISION FOR BAD DEBTS .....	52
5.14 RETURN ON CAPITAL BASE/ NET FIXED ASSETS .....	52
5.15 NON TARIFF INCOME.....	52
5.16 REVENUE FROM SALE OF POWER AT EXISTING TARIFF .....	53
5.17 AGGREGATE REVENUE REQUIREMENT FOR FY 2014-15.....	54
5.18 REVENUE GAP FOR FY 2014-15 .....	55
<b>CHAPTER 6. ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD (FY 2015-16 TO FY 2017-18) 56</b>	
6.1 PREAMBLE .....	56
6.2 PRINCIPLES FOR DETERMINATION OF ARR .....	57
6.3 APPROACH ON SALES PROJECTIONS.....	57
6.4 DISTRIBUTION LOSS.....	59
6.5 ENERGY BALANCE.....	60
6.6 POWER PURCHASE COST.....	60
6.7 EMPLOYEE EXPENSE .....	67
6.8 A&G EXPENSE .....	67
6.9 REPAIR AND MAINTENANCE EXPENSES .....	68
6.10 DETAILS OF CAPITAL EXPENDITURE DURING MYT CONTROL PERIOD .....	68
6.11 R-APDRP SCHEMES.....	69
6.12 FUNDING OF CAPITAL EXPENDITURE .....	70
6.13 GROSS FIXED ASSETS AND DEPRECIATION.....	72
6.14 INTEREST ON LOAN .....	73
6.15 INTEREST ON WORKING CAPITAL.....	73
6.16 PROVISION FOR BAD DEBTS .....	74
6.17 INTEREST ON SECURITY DEPOSITS .....	74
6.18 RETURN ON CAPITAL BASE/ NET FIXED ASSETS .....	75
6.19 NON-TARIFF INCOME .....	76

6.20 REVENUE FROM SALE OF POWER AT EXISTING TARIFF .....	76
6.21 ARR FOR THE CONTROL PERIOD.....	77
6.22 REVENUE GAP FOR MYT CONTROL PERIOD .....	77
<b>CHAPTER 7. ADDITIONAL CLAIMS, REGULATORY ASSETS AND TOTAL REVENUE GAP .....</b>	<b>79</b>
7.1 PREAMBLE .....	79
7.2 ADDITIONAL CLAIM .....	79
7.3 TREATMENT OF REGULATORY ASSETS AND NET GAP:.....	84
7.4 REVENUE GAP FOR MYT CONTROL PERIOD .....	86
<b>CHAPTER 8. PROPOSAL FOR REVISION IN TARIFF FOR RETAIL SALE OF ELECTRICITY DURING MYT CONTROL PERIOD.....</b>	<b>88</b>
8.1 PREAMBLE .....	88
8.2 TARIFF DESIGN PRINCIPLES .....	88
8.3 PHILOSOPHY OF TARIFF DESIGN .....	89
8.4 REVENUE DUE TO TARIFF REVISION.....	91
<b>CHAPTER 9. SEGREGATION OF WHEELING AND RETAIL SUPPLY BUSINESS .....</b>	<b>92</b>
9.1 ALLOCATION MATRIX .....	92
<b>CHAPTER 10. DETERMINATION OF OPEN ACCESS CHARGES .....</b>	<b>97</b>
10.1 DETERMINATION OF OPEN ACCESS CHARGES .....	97
10.2 ALLOCATION OF WHEELING COST.....	99
10.3 VOLTAGE WISE WHEELING CHARGES .....	99
<b>CHAPTER 11. CROSS SUBSIDY SURCHARGE AND ALLOCATION OF COST TO SERVE .....</b>	<b>101</b>
11.1 BACKGROUND FOR CROSS SUBSIDY SURCHARGE.....	101
11.2 COMPUTATION OF CROSS SUBSIDY SURCHARGE FOR MYT CONTROL PERIOD.....	101
11.3 ADDITIONAL SURCHARGE.....	103
11.4 ALLOCATION OF COST TO SERVE.....	103
<b>CHAPTER 12. COMPLIANCE OF THE DIRECTIVES OF HON'BLE COMMISSION.....</b>	<b>105</b>
12.1 PREAMBLE .....	105
12.2 STATUS OF COMPLIANCE .....	105
<b>CHAPTER 13. PROPOSED TARIFF SCHEDULE FOR MYT CONTROL PERIOD .....</b>	<b>115</b>
13.1 TARIFF SCHEDULE FOR FY 2015-16 TO FY 2017-18.....	115
13.2 LOW TENSION SUPPLY.....	118
13.3 HIGH TENSION SUPPLY .....	124
13.4 TEMPORARY SUPPLY .....	127
13.5 HOARDINGS/ SIGNBOARDS.....	128
<b>CHAPTER 14. PROPOSED SCHEDULE OF SERVICES AND CHARGES .....</b>	<b>129</b>
14.1 CHARGES FOR SERVICE CONNECTIONS.....	129
14.2 TESTING OF INSTALLATION .....	129
14.3 TESTING OF METERS & METERING ARRANGEMENTS .....	130

14.4 TESTING OF HT/EHT CONSUMER PROTECTIVE EQUIPMENT .....	130
14.5 DISCONNECTION / RE-CONNECTION CHARGES .....	130
14.6 TITLE TRANSFER OF SERVICES .....	130
14.7 FURNISHING OF CERTIFIED COPIES .....	131
14.8 METER RENT CHARGES.....	131
14.9 FUSE RENEWAL CHARGES .....	131
14.10 SHIFTING OF METER BOARD AT CONSUMER'S REQUEST .....	131
<b>CHAPTER 15. PRAYER TO THE HON'BLE COMMISSION .....</b>	<b>132</b>
15.1 PRAYER TO THE HON'BLE COMMISSION.....	132

## LIST OF TABLES

TABLE 1-1: NETWORK CONFIGURATION (AS ON SEPTEMBER 2014).....	2
TABLE 3-1: DETAILS OF NO. OF CONSUMER NUMBERS FOR FY 2011-12 AND FY 2012-13 .....	8
TABLE 3-2: SALES (MUS) FOR FY 2011-12 AND FY 2012-13 .....	9
TABLE 3-3: DISTRIBUTION LOSS FOR FY 2011-12 AND FY 2012-13 .....	10
TABLE 3-4: POWER PURCHASE QUANTUM & COST FOR FY 2011-12 .....	10
TABLE 3-5: POWER PURCHASE QUANTUM & COST FOR FY 2012-13 .....	11
TABLE 3-6: AMOUNT PAID TO NLC UNDER HIGH COURT DIRECTION .....	12
TABLE 3-7: EMPLOYEE EXPENSES FOR FY 2011-12 AND FY 2012-13 .....	14
TABLE 3-8: R&M EXPENSES FOR FY 2011-12 AND FY 2012-13 .....	14
TABLE 3-9: A&G EXPENSES FOR FY 2011-12 AND FY 2012-13 .....	15
TABLE 3-10: O&M EXPENSES FOR FY 2011-12 AND FY 2012-13.....	16
TABLE 3-11: GFA FOR FY 2011-12 AND FY 2012-13.....	17
TABLE 3-12: RATE OF DEPRECIATION APPLICABLE FOR VARIOUS ASSETS .....	17
TABLE 3-13 : DEPRECIATION FOR FY 2011-12 AND FY 2012-13 .....	18
TABLE 3-14: INTEREST & FINANCE CHARGES FOR FY 2011-12 AND FY 2012-13 .....	18
TABLE 3-15: INTEREST ON WORKING CAPITAL FOR FY 2011-12 AND FY 2012-13 .....	20
TABLE 3-16: INTEREST ON SECURITY DEPOSIT FOR FY 2011-12 AND FY 2012-13.....	21
TABLE 3-17: RETURN ON NFA FOR FY 2011-12 AND FY 2012-13 .....	21
TABLE 3-18: NON-TARIFF INCOME FOR FY 2011-12 AND FY 2012-13 .....	22
TABLE 3-19: REVENUE FROM TARIFF FOR FY 2011-12 & FY 2012-13.....	23
TABLE 3-20: CALCULATION OF ARR FOR FY 2011-12 AND FY 2012-13.....	24
TABLE 3-21: REVENUE GAP FOR FY 2011-12 AND FY 2012-13 .....	24
TABLE 4-1: APR OF FY 2013-14 AS PER TARIFF ORDER DATED 25 <sup>TH</sup> APRIL 2014 .....	25
TABLE 4-2: DETAILS OF NO. OF CONSUMER NUMBERS FOR FY 2013-14 .....	26
TABLE 4-3: SALES FOR FY 2013-14 .....	26
TABLE 4-4: DISTRIBUTION LOSS AND ENERGY BALANCE FOR FY 2013-14 .....	27
TABLE 4-5: POWER PURCHASE QUANTUM & COST FOR FY 2013-14 .....	28
TABLE 4-6: EMPLOYEE EXPENSES FOR FY 2013-14 .....	29
TABLE 4-7: R&M EXPENSES FOR FY 2013-14 .....	30
TABLE 4-8 A&G EXPENSES FOR FY 2013-14 .....	31
TABLE 4-9: O&M EXPENSES FOR FY 2013-14.....	32
TABLE 4-10: GFA FOR FY 2013-14.....	32
TABLE 4-11: RATE OF DEPRECIATION APPLICABLE FOR VARIOUS ASSETS .....	33
TABLE 4-12: DEPRECIATION FOR FY 2013-14 .....	33
TABLE 4-13: INTEREST & FINANCE CHARGES FOR FY 2013-14 .....	34
TABLE 4-14: INTEREST ON WORKING CAPITAL FOR FY 2013-14 .....	36
TABLE 4-15: INTEREST ON SECURITY DEPOSIT FOR FY 2013-14 .....	36
TABLE 4-16: RETURN ON NFA FOR FY 2013-14 .....	37
TABLE 4-17: NON-TARIFF INCOME FOR FY 2013-14.....	37
TABLE 4-18: REVENUE FROM TARIFF FOR FY 2013-14 .....	38
TABLE 4-19: CALCULATION OF ARR FOR FY 2013-14.....	39
TABLE 4-20: REVENUE GAP FOR FY 2013-14 .....	39
TABLE 5-1: REVIEW OF FY 2014-15.....	40
TABLE 5-2: DETAILS OF NUMBER OF CONSUMERS FOR FY 2014-15 .....	41
TABLE 5-3: SALES FOR FY2014-15.....	41
TABLE 5-4: DISTRIBUTION LOSS AND ENERGY BALANCE FOR FY 2014-15 .....	42
TABLE 5-5: POWER PURCHASE QUANTUM & COST FOR H1-FY 2014-15 .....	43

TABLE 5-6: POWER PURCHASE FOR H2 OF FY 2014-15 .....	44
TABLE 5-7: RPO COMPLIANCE COST FOR FY 2014-15 .....	45
TABLE 5-8: POWER PURCHASE COST FOR FY 2014-15 .....	45
TABLE 5-9: EMPLOYEE EXPENSES FOR FY 2014-15.....	47
TABLE 5-10: R&M EXPENSES FOR FY 2014-15 .....	47
TABLE 5-11: A&G EXPENSES FOR FY 2014-15 .....	47
TABLE 5-12: O&M EXPENSES FOR FY 2014-15.....	48
TABLE 5-13: GFA REVISED ESTIMATES.....	48
TABLE 5-14: DEPRECIATION FOR FY 2014-15 .....	49
TABLE 5-15: INTEREST & FINANCE CHARGES FOR FY 2014-15 .....	49
TABLE 5-16: INTEREST ON SECURITY DEPOSIT FOR FY 2014-15 .....	51
TABLE 5-17: RETURN ON NFA FOR FY 2014-15 .....	52
TABLE 5-18: NON-TARIFF INCOME FOR FY 2014-15.....	53
TABLE 5-19: REVENUE FROM TARIFF FOR 2014-15 .....	54
TABLE 5-20: CALCULATION OF ARR FOR FY 2014-15.....	55
TABLE 5-21: REVENUE GAP FOR FY 2014-15 .....	55
TABLE 6-1: CATEGORY-WISE GROWTH RATE CONSIDERED FOR CONSUMERS – MYT PERIOD .....	58
TABLE 6-2: CATEGORY-WISE GROWTH RATE CONSIDERED FOR SALES – MYT PERIOD .....	58
TABLE 6-3: PROJECTION OF NUMBER OF CONSUMERS FOR MYT CONTROL PERIOD .....	59
TABLE 6-4: PROJECTION OF CONSUMPTION FOR MYT CONTROL PERIOD .....	59
TABLE 6-5: PROJECTION OF CONSUMPTION FOR MYT CONTROL PERIOD .....	59
TABLE 6-6: ENERGY BALANCE FOR THE MYT CONTROL PERIOD .....	60
TABLE 6-7: ADDITIONAL ALLOCATION OF POWER DURING CONTROL PERIOD .....	61
TABLE 6-8: RPO COST FOR THE CONTROL PERIOD .....	63
TABLE 6-9: POWER AVAILABLE AND POWER PROCUREMENT (MOD) FOR CONTROL PERIOD .....	65
TABLE 6-10: POWER PROCUREMENT COST FOR CONTROL PERIOD.....	66
TABLE 6-11: EMPLOYEE EXPENSE FOR THE CONTROL PERIOD.....	67
TABLE 6-12: A&G EXPENSES FOR THE CONTROL PERIOD .....	67
TABLE 6-13: R&M EXPENSES FOR THE CONTROL PERIOD .....	68
TABLE 6-14: PROPOSED CAPITAL EXPENDITURE FOR THE CONTROL PERIOD .....	69
TABLE 6-15: FUNDING OF CAPEX FOR THE CONTROL PERIOD .....	71
TABLE 6-16: GFA AND DEPRECIATION FOR THE CONTROL PERIOD .....	72
TABLE 6-17: INTEREST ON LOAN FOR THE CONTROL PERIOD.....	73
TABLE 6-18: INTEREST ON SECURITY DEPOSIT FOR MYT CONTROL PERIOD .....	75
TABLE 6-19: RETURN ON EQUITY FOR CONTROL PERIOD. ....	75
TABLE 6-20: NON-TARIFF INCOME FOR THE CONTROL PERIOD.....	76
TABLE 6-21: REVENUE FROM SALE OF POWER FOR THE CONTROL PERIOD .....	76
TABLE 6-22: ARR FOR THE CONTROL PERIOD.....	77
TABLE 6-23: REVENUE GAP FOR THE CONTROL PERIOD .....	78
TABLE 7-1: INTEREST ON SECURITY DEPOSIT ALLOWED BY HON'BLE COMMISSION.....	80
TABLE 7-2: INTEREST ON SECURITY DEPOSIT ALLOWED BY HON'BLE COMMISSION.....	81
TABLE 7-3: RECONCILIATION OF RPO COST WITH ACCOUNTS (PROVISION VIS-À-VIS ACTUALLY PAID).....	82
TABLE 7-4: ACTUAL REC PURCHASED .....	83
TABLE 7-5: CUMULATIVE RPO TO BE CLAIMED IN MYT CONTROL PERIOD.....	83
TABLE 7-6: CUMULATIVE GAP CALCULATION OVER THE YEARS .....	86
TABLE 7-7: CALCULATION OF REVENUE GAP FOR FY 2013-14 TO FY 2017-18 .....	87
TABLE 8-1: TARIFF HIKE (%) .....	89



TABLE 8-2: SUMMARY OF EXISTING AND PROPOSED TARIFF RATES FOR MYT CONTROL PERIOD (FY 2015-16 TO FY 2017-18).....	90
TABLE 8-3: PROPOSED ADDITIONAL REVENUE TO MEET REVENUE GAP .....	91
TABLE 9-1: ASSUMPTIONS FOR SEGREGATION OF RETAIL SUPPLY AND WIRES BUSINESS EXPENSES.....	96
TABLE 10-1: VOLTAGE WISE LOSS.....	99
TABLE 10-2: WHEELING CHARGES FOR MYT CONTROL PERIOD.....	100
TABLE 11-1: CALCULATION OF 'C' BASED ON ARR OF MYT CONTROL PERIOD .....	102
TABLE 11-2: CALCULATION OF CROSS SUBSIDY SURCHARGE FOR MYT CONTROL PERIOD .....	103
TABLE 12-1: STATUS OF COMPLIANCE OF DIRECTIVES .....	105
TABLE 13-1: TOD TIME PERIOD AND CHARGES.....	118
TABLE 13-2: EXISTING AND PROPOSED CHARGES FOR DOMESTIC CATEGORY.....	119
TABLE 13-3: EXISTING AND PROPOSED CHARGES FOR HUT CATEGORY .....	120
TABLE 13-4: EXISTING AND PROPOSED CHARGES FOR COMMERCIAL CATEGORY .....	121
TABLE 13-5: EXISTING AND PROPOSED CHARGES FOR AGRICULTURE CATEGORY .....	121
TABLE 13-6: EXISTING AND PROPOSED CHARGES FOR COTTAGE INDUSTRY.....	123
TABLE 13-7: EXISTING AND PROPOSED CHARGES FOR PUBLIC LIGHTNING.....	124
TABLE 13-8: EXISTING AND PROPOSED CHARGES FOR LT INDUSTRIAL.....	124
TABLE 13-9: EXISTING AND PROPOSED CHARGES FOR HIGH TENSION I(A) AND I(B) CATEGORY .....	125
TABLE 13-10: EXISTING AND PROPOSED CHARGES FOR HIGH TENSION II CATEGORY .....	126
TABLE 13-11: EXISTING AND PROPOSED CHARGES FOR HIGH TENSION III CATEGORY .....	126
TABLE 13-12: EXISTING AND PROPOSED CHARGES FOR TEMPORARY SUPPLY .....	127
TABLE 13-13: EXISTING AND PROPOSED CHARGES FOR HOARDINGS/ SIGNBOARDS.....	128
TABLE 14-1: PROPOSED SERVICE CONNECTION CHARGES.....	129
TABLE 14-2: PROPOSED TESTING OF INSTALLATION CHARGES.....	129
TABLE 14-3: PROPOSED TESTING OF METERING CHARGES.....	130
TABLE 14-4: PROPOSED TESTING OF HT/EHT CONSUMER EQUIPMENT CHARGES.....	130
TABLE 14-5: PROPOSED DISCONNECTION/RECONNECTION CHARGES .....	130
TABLE 14-6: PROPOSED DISCONNECTION/RECONNECTION CHARGES .....	130
TABLE 14-7: PROPOSED CERTIFIED COPIES CHARGES .....	131
TABLE 14-8: PROPOSED METER RENT CHARGES .....	131
TABLE 14-9: PROPOSED FUSE RENEWABLE CHARGES.....	131
TABLE 14-10: PROPOSED SHIFTING OF METER BOARD CHARGES.....	131

### **LIST OF ANNEXURES**

ANNEXURE 1: REGULATORY FORMATS .....	134
ANNEXURE 2: AUDITED ACCOUNTS OF FY 2011-12 .....	186
ANNEXURE 3: AUDITED ACCOUNTS OF FY 2012-13 .....	216
ANNEXURE 4: UN-AUDITED ACCOUNTS OF FY 2013-14.....	248
ANNEXURE 5: LIST OF PROPOSED WORKS UNDER JICA LOAN* -- TRANSMISSION STRENGTHENING SCHEMES (ALL FIGURES IN RS. CRS).....	269
ANNEXURE 6: LIST OF ONGOING WORKS -- TRANSMISSION STRENGTHENING SCHEMES (ALL FIGURES IN RS. CRS) .....	271
ANNEXURE 7: PROJECTION OF OUTLAYS FOR THE DISTRIBUTION SCHEMES DURING THE PERIOD 2015-16 TO 2017-18 (ALL FIGURES IN RS. CRS).....	272

### LIST OF ABBREVIATIONS

Sr. No	Abbreviations	Descriptions
1	A&G	Administrative and General
2	ABT	Availability Based Tariff
3	ACoS	Average Cost of Supply/ Service
4	AMI	Automated Metering Infrastructure
5	AMR	Automatic Meter Reading
6	APR	Annual Performance review
7	ARR	Aggregate Revenue Requirement
8	CAGR	Compound Annual Growth Rate
9	CAPEX	Capital Expenditure
10	CEA	Central Electricity Authority
11	CERC	Central Electricity Regulatory Commission
12	CGS	Central Generating Station
13	CWIP	Capital work in progress
14	DELP	DSM based Efficient Lighting Programme
15	Discom	Distribution Companies
16	DSM	Demand Side Management
17	EA/The Act	The Electricity Act 2003
18	EDP/ PED	Electricity Department, Government of Puducherry
19	EC	Energy Charges
20	EHT	Extra High Tension
21	FC	Fixed Charges
22	FOR	Forum of Regulators
23	FY	Financial Year
24	GFA	Gross Fixed Assets
25	Goi	Government of India
26	HT	High Tension
27	JERC	Joint Electricity Regulatory Commission
28	JICA	Japan International Cooperation Agency
29	JNNSM	Jawaharlal National Solar Mission
30	KSEB	Kerala State Electricity Board
31	KV	Kilo Volt
32	kVA	Kilo Volt Ampere
33	kVAh	Kilo Volt Ampere Hour
34	kW	Kilo Watt
35	kWh	Kilo Watt Hour
36	LT	Low Tension
37	MNRE	Ministry of New and Renewable Energy
38	MOD	Merit Order Despatch
39	MoP	Ministry of Power
40	MOU	Memorandum of Understanding
41	MU	Million Units (Million kWh)

Sr. No	Abbreviations	Descriptions
42	MVA	Mega Volt Ampere
43	MW	Mega Watt
44	MYT	Multi Year Tariff
45	NFA	Net Fixed Assets
46	NLC	Neyveli Lignite Corporation
47	NPCIL	Nuclear Power Corporation of India Limited
48	NTP	National Tariff Policy
49	NTPC	National Thermal Power Corporation
50	O&M	Operation & Maintenance
51	PLR	Prime Lending Rate
52	POC	Point of Connection
53	PPA	Power Purchase Agreement
54	PPCL	Puducherry Power Corporation Limited
55	PV	Photo voltaic
56	R&M	Repair and Maintenance
57	R-APDRP	Restructured Accelerated Power Development and Reforms Programme
58	REC	Renewable Energy Certificate
59	ROE	Return on Equity
60	RPO	Renewable Purchase Obligation
61	Rs	Rupees
62	SBI	State Bank of India
63	SECI	Solar Energy Corporation of India
64	SLDC	State Load Dispatch Centre
65	SWOT	Strength, Weakness, Opportunity and Threats
66	TANGEDCO	Tamil Nadu Generation and Distribution Company
67	T&D	Transmission and Distribution
68	TOD	Time of Day
69	UI Charges	Unscheduled Interchange Charges
70	w.e.f	With effect from
71	WPI	Wholesale Price Index

## CHAPTER 1. INTRODUCTION

### 1.1 Historical Perspective

1.1.1 The Union Territory of Puducherry comprises of four regions namely Puducherry, Karaikal, Mahe and Yanam, which are not geographically contiguous and is spread over an area of 492 Sq. km with the total population of 12.45 Lakhs as per provisional results of Census 2011. The basic profiles of the four regions are as follows:

- Puducherry is the largest among the four regions and consists of 12 scattered areas interspersed with enclaves of Villupuram and Cuddalore Districts of Tamil Nadu.
- Karaikal is about 150 kms South of Puducherry and is bounded by Nagapattinam and Thiruvarur Districts of Tamil Nadu State.
- Mahe lies almost parallel to Puducherry 653 kms away on the west coast near Kannur District of Kerala State.
- Yanam is located about 840 kms Northeast of Puducherry and it is located in the East Godhavari District of Andhra Pradesh State.

1.1.2 The Territory of Puducherry was merged with the Indian Union on 1st November 1954 and is administered under the provisions of Government of Union Territories Act, 1963.

### 1.2 Electricity Department of Puducherry

1.2.1 Puducherry Electricity Department being a deemed distribution licensee as per section 14 of the Electricity Act 2003, performs the functions of transmission and distribution of electric power to the Union Territory. The sole generating station in Puducherry is a 32.5 MW combined cycle gas power plant in Karaikal owned by the Puducherry Power Corporation Limited. The entire power requirement of Puducherry is met from the power allocated from the Central Generating Stations, Tamil Nadu Electricity Board, Kerala State Electricity Board and from the Puducherry Power Corporation Limited

1.2.2 The Union Territory of Puducherry has an extensive network of Power Transmission and Distribution Systems spread along the breath and width of all the four regions of the Union Territory. PED operates a transmission network of 110 kV and 230 kV and distribution network at 33 kV, 22 kV, 11 kV and LT levels. The network configuration as on July 2014 is as given below:

**Table 1-1: Network Configuration (as on September 2014)**

Voltage	Lines	Capacity MVA	Substations/ Transformer	Transformation Capacity
	(Km)	(MVA)	(No.s)	(MVA)
<b>Transmission</b>				
230 kV/110kV	54	(100x4) + (80x2)	3	560
132 kV/33-11 kV	44	(2x10) + (1x16)	1	36
110 kV/22-11 kV	280	(25x1) + (16x27) + (10x7) + (31.5x2)	14	590
110 kV/22-11 kV (UG Cable)	6.5			
<b>Distribution</b>				
33/11kV		(5x2)	1	10
22 kV & 11 kV (Overhead)	955		2319	566
22 kV & 11 kV (Underground)	70			
LT (Overhead)	2527			
LT (Underground)	813			

### 1.3 Filing under Tariff Regulations

- 1.3.1 PED has been filing its ARR and Tariff petitions for the past years with the Hon'ble Commission based on the principles outlined by the Hon'ble Commission vide their Regulations on applicable terms and conditions of Tariff for Distribution Licensees as notified in 2009.
- 1.3.2 PED has filed its petition for determination of Aggregate Revenue Requirement (ARR) & Retail Tariff for distribution and retail sale of electricity for FY 2014-15 under section 61, 62 & 64 of the Electricity Act, 2003 on January 20' 2014 against which Tariff Order was issued by the Hon'ble Commission on 25<sup>th</sup> April 2014. In the said Order, the Hon'ble Commission has directed to file True-up Petition for FY 2011-12 and FY 2012-13 as per the Audited accounts.
- 1.3.3 PED already has filed a true-up Petition till FY 2010-11 against which the Tariff Order has already been issued by the Hon'ble Commission. However, True-up of FY 2011-12 to FY 2012-13 as per audited accounts and provisional true-up for FY 2013-14 based on provisional accounts has been prepared in the said petition in line with the Terms & Conditions of Tariff Regulations, 2009 issued by the Hon'ble Commission.
- 1.3.4 The Hon'ble Joint Electricity Regulatory Commission (hereinafter referred to as Hon'ble Commission / JERC) issued the JERC (Multi Year Distribution Tariff)

Regulations, 2014 (hereinafter referred to as MYT Regulations) in exercise of powers conferred by Section 61, 62, 63 and 86 read with Section 181 of Electricity Act 2003. These regulations were made applicable to all distribution license in the State of Goa & Union Territories of Andaman & Nicobar Island, Dadra & Nagar Haveli, Daman & Diu, Chandigarh, Lakshadweep and Puducherry and is effective for determination of tariff in all cases covered under these Regulations from April 1, 2015 up to March 31, 2018.(i.e. till FY 2015-18 – MYT Control Period)

1.3.5 The said MYT Regulations mandates the Distribution license to submit their Multi-Year Business Plans for the Control Period FY 2015-16 to FY 2017-18, which Department of Electricity, Puducherry (hereinafter referred to as PED) had submitted on 30<sup>th</sup> September 2014 which was in line with the MYT Regulations.

1.3.6 Further in view of a letter dated 29<sup>th</sup> October 2014 from the Hon'ble Commission stating that the regulatory proceedings for the MYT Business Plan and Petition will be carried out together and therefore directing PED to file the MYT petition by 30<sup>th</sup> November 2014. PED along with its Petition dated 24<sup>th</sup> November 2014 has sought for an extension of one month and accordingly the MYT petition has been prepared in line with the MYT Regulations 2014.

#### **1.4 Filing of ARR and Multi Year Tariff Petition**

1.4.1 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 JERC thereof.

1.4.2 The Hon'ble Commission has notified MYT Distribution Tariff Regulations, 2014 which was made applicable from 1<sup>st</sup> April 2015. However, clause 39 of MYT Regulations, 2014 states as follows:

*39. Repeal and savings*

*38.2 Notwithstanding such repeal, any proceedings before the Commission pertaining to the period prior to the commencement of the Control Period, including Petitions for True up of expenses, annual performance review, etc. shall be governed by Joint Electricity Regulatory Commission (Terms and Conditions of Determination of Tariff) Regulations 2009*

1.4.3 In line with the above clause, PED has adopted the principles of Terms and Conditions for Determination of Tariff Regulations 2009 (Tariff Regulations 2009) notified by the Joint Electricity Regulatory Commission for FY 2011-12 to FY 2014-15.

Accordingly PED is submitting the said petition for True-up of FY 2011-12 to FY 2012-13 based on audited accounts, Provisional true-up of FY 2013-14 as per provisional accounts and Annual Performance Review of FY 2014-15 in line with JERC (Terms & Conditions of Tariff) Regulations, 2009 for the approval of the Hon'ble Commission. The tariff formats as outlined in the Tariff Regulations 2009 and as applicable to PED are provided at the end of this petition.

1.4.4 Also, along with the said Petition, determination of ARR and Tariff for MYT Period for the first control period of FY 2015-16 to FY 2017-18 are prepared in line with MYT Regulations, 2014. The tariff formats as outlined in the Tariff Regulations 2014 and as applicable to PED are provided at the end of this petition.

1.4.5 As per the Terms & Conditions for Determination of Tariff Regulations 2009 and MYT Regulations 2014, PED was required to file the ARR and the MYT Petition for the Financial Year, 2015-16 by 30<sup>th</sup> November, 2014. However there was delay in filing due to reasons as discussed below and an Affidavit for extension has been filed before Hon'ble Commission on 24<sup>th</sup> November 2014:

- Hon'ble JERC was in process of issuing Order on MYT Business Plan submitted by PED on 30<sup>th</sup> September 2014. However due to deferment of Regulatory proceedings of Business Plan, the MYT Petition also got delayed.
- Further Business Plan and MYT are for 3 years control period and hence proper strategy and planning is required to forecast operational and financial parameters for the control period. Moreover since many of the important parameters are linked to norms, approval from Government is very crucial.
- The Petition needs Administrative and Finance approval of Government of Puducherry, which would also take considerable time to finalise/ approve the said Petition.

1.4.6 PED is now filing this petition for approval of Hon'ble Commission and requests the Hon'ble Commission to condone the delay in filing. The Tariff Formats are enclosed as per Annexure 1 of this petition. The details are provided in subsequent chapters.

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

The Hon'ble Commission had notified the Joint Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations 2009 and Multi Year Distribution Tariff Regulations 2014. In line with the same, PED has been filing the ARR petitions for consideration of the Hon'ble Commission in the formats laid down for providing information relating to past, present and future performance. In this petition, Puducherry Electricity Department is filing the True-up for FY 2011-12 to FY 2012-13, Provisional True-up for FY 2013-14 and Annual Performance Review for FY 2014-15 along with MYT ARR of first control period of FY 2015-16 to FY 2017-18.

### **2.1 Truing Up For FY 2011-12, FY 2012-13 and FY 2013-14**

2.1.1 As specified in the Tariff Regulations, the Hon'ble Commission shall undertake the truing-up exercise for the previous year based on audited accounts. PED submits that it has completed the audit of accounts of FY 2011-12 and FY 2012-13 and is in the process of third party audit of accounts for FY 2013-14. In line with completion of audit, PED is submitting the true-up petition of FY 2011-12 & FY 2012-13 with the audited accounts as per Annexure 2 and Annexure 3. Also, at present the provisional actual figures of FY 2013-14 are made available for Provisional True-up with provisional accounts as Annexure 4 with the details of ARR specified in the relevant chapter of this petition. PED further submits that it may provide the final audited accounts during technical validation.

### **2.2 Annual Performance Review for FY 2014-15**

2.2.1 As specified in the Tariff Regulations, the Hon'ble Commission shall undertake the Annual Performance Review by considering variations between the approved and revised estimates/pre-actual of sale of electricity, income and expenditure for the relevant year.

2.2.2 Accordingly, PED is filing this Annual Performance Review petition for the year FY 2014-15 based on the actual performance during the 1<sup>st</sup> half of the year and the revised estimates for the second half of the year of purchase and sales.

### **2.3 Multi – Year Tariff Petition and Tariff determination for FY 2015-16**

2.3.1 The Joint Electricity Regulatory Commission had notified the JERC (Multi Year Distribution Tariff) Regulations, 2014 (hereinafter referred to as "MYT Regulations" or "Regulations") which came into effect from 2014. These regulations govern the tariff determination for the first control period i.e. FY 2015-16 to FY 2017-18.



- 2.3.2 As per Clause 6 of the MYT Regulations, 2014 it provides that submission of forecast of ARR and expected revenue from tariff will be based on the approved Business Plan. However, as per Letter dated 29<sup>th</sup> October 2014 from the Hon'ble Commission, it has directed to submit the MYT Petition by 30<sup>th</sup> November 2014 and the regulatory proceedings for business plan and MYT Petition will be carried out together.
- 2.3.3 Therefore, PED is filing the petition for the determination of Annual Revenue Requirement Petition for the first control period i.e. FY 2015-16 to FY 2017-18 in line with the JERC Distribution Tariff Regulations 2014 and projections are based on the norms specified in the Regulations or on the past performance and considering expected changes in each element of cost and revenue for the ensuing control period. PED has studied the previous trends and taken cognisance of other internal and external developments to estimate the likely performance for first control period of FY 2015-16 to FY 2017-18.
- 2.3.4 The subsequent sections for MYT control period provide projection for various expenses, the proposed investment plan for the control period and the expected revenue projections with existing tariff based on the tariff notifications in force in the area of supply of PED.
- 2.3.5 Projections of various cost components required for determination of Aggregate Revenue Requirement for the control period along with the rationale for estimation of such cost is covered in the subsequent section. Further, the philosophy adopted by PED for projecting sales, number of consumers and power purchase cost has also been elucidated in the respective section.

## **2.4 Norms for Projection**

- 2.4.1 The First MYT Control Period as directed by the Hon'ble Commission in the Regulations Order will commence from 1<sup>st</sup> April 2015 onwards. PED is filing this petition in line with the norms and principles enumerated by Hon'ble Commission in the MYT Regulations, 2014.
- 2.4.2 For FY 2014-15, the projections are made on using the principles underlined in the JERC (Term & Conditions of Tariff) Regulations, 2009. The projections of the cost are based on the norms specified in the Regulations or in absence of the same; the cost is escalated considering suitable inflation indices.

- 2.4.3 As the FY 2011-12 to FY 2013-14 has been concluded, PED is filing this petition for FY 2011-12 to FY 2013-14 based on the actual performance. Similarly, projections for the control period FY 2015-16 to FY 2017-18 have been modified (with respect to the amounts submitted in the MYT Business Plan Petition) wherever required with detailed explanation.
- 2.4.4 ARR for FY 2011-12 to FY 2013-14, APR for FY 2014-15 and ARR for the Control Period i.e. FY 2015-16 to FY 2017-18 have been carried out separately and details of the same are presented separately.

### CHAPTER 3. FINAL TRUING UP OF FY 2011-12 AND FY 2012-13

#### 3.1 Preamble

3.1.1 This section outlines the performance of Puducherry Electricity Department (PED) for FY 2011-12 and FY 2012-13. PED submits that the Hon'ble Joint Electricity Regulatory Commission after undertaking a thorough analysis had issued the ARR Order for Financial Year 2013-14 on 10<sup>th</sup> April 2013. In the petition filed by PED for ARR and Tariff determination for FY 2014-15 on January 20' 2014, it was submitted that the it would approach the Hon'ble Commission separately for filing of the true-up petition for FY 2011-12 and FY 2012-13 once the same are finalized by the Statutory Auditors. Therefore, in the Tariff Order dated 25<sup>th</sup> April 2014, the Hon'ble Commission has directed PED to submit the audited accounts for FY 2012-13 and the ARR & Revenue Gap would be re-visited once the true-up petition is filed before the Commission along with the audited accounts.

3.1.2 Accordingly, the final truing up of FY 2011-12 and FY 2012-13 is submitted by comparing actual audited figures for the respective years with those approved by Hon'ble Commission vide tariff order dated 10<sup>th</sup> April 2013.

3.1.3 This chapter summarizes each of the components of ARR for FY 2011-12 and FY 2012-13 and thereby working out the revenue gap for the respective years.

#### 3.2 Number of Consumers

3.2.1 The following table shows the number of consumers as approved by Hon'ble Commission and actual during FY 2011-12 and FY 2012-13.

**Table 3-1: Details of No. of Consumer Numbers for FY 2011-12 and FY 2012-13**

Sr.No	Consumer Categories	FY 2011-12		FY 2012-13	
		Approved by Commission	Actuals	Approved by Commission	Actuals
1	Domestic & Cottage	281,903	281,903	300,432	293,742
2	Commercial	41,943	41,943	43,144	43,479
3	Agriculture	6,828	6,828	6,810	6,859
4	Public lighting	48,384	48,384	49,438	48,485
5	LT Industrial	6,035	6,035	6,210	6,142
6	Temporary supply - LT&HT	-	-	-	-
	<b>Total LT</b>	<b>385,093</b>	<b>385,093</b>	<b>406,034</b>	<b>398,707</b>
7	HT 1 Industrial	308	308	412	361
8	HT Commercial	93	93	-	58
9	HT 2 - Government & water tank	43	43	41	45
10	HT 3 - EHT	7	7	7	7
	<b>Total HT</b>	<b>451</b>	<b>451</b>	<b>460</b>	<b>471</b>
	<b>Total LT and HT</b>	<b>385,544</b>	<b>385,544</b>	<b>406,494</b>	<b>399,178</b>

3.2.2 It is submitted that the number of consumers were not increased in line with the

assumption as considered by the Hon'ble Commission due to various social and economic factors whereby there was a global economic downturn in FY 2012-2013 hampering the growth of the infrastructure sector.

- 3.2.3 In line with the above submission, it is requested to Hon'ble Commission to approve the actual number of consumers as submitted in the above table for FY 2011-12 and FY 2012-13.

### 3.3 Energy Sales

- 3.3.1 The total actual sales of PED for FY 2011-12 and FY 2012-13 are **2,321.29** MU's and **2,474.98** MU's respectively. The category wise actual and approved sales for FY 2011-12 and FY 2012-13 are shown in the table below.

Table 3-2: Sales (MUs) for FY 2011-12 and FY 2012-13

Sr.No	Consumer Categories	FY 2011-12		FY 2012-13	
		Approved by Commission	Actuals	Approved by Commission	Actuals
1	Domestic & Cottage	544	547	519	591
2	Commercial	168	168	171	182
3	Agriculture	57	57	57	57
4	Public lighting	24	24	25	28
5	LT Industrial	184	184	197	197
6	Temporary supply - LT&HT	14	14	11	20
	<b>Total LT</b>	<b>990</b>	<b>994</b>	<b>980</b>	<b>1,076</b>
7	HT 1 Industrial	975	352	978	958
8	HT Commercial		623		57
9	HT 2 - Government & water tank	45	45	53	45
10	HT 3 - EHT	308	308	337	339
	<b>Total HT</b>	<b>1,328</b>	<b>1,327</b>	<b>1,369</b>	<b>1,399</b>
	<b>Total LT and HT</b>	<b>2,318</b>	<b>2,321</b>	<b>2,348</b>	<b>2,475</b>

- 3.3.2 It is requested to Hon'ble Commission to approve the actual sales of FY 2011-12 and FY 2012-13 as stated in the table above.

### 3.4 Distribution Loss & Energy Requirement

- 3.4.1 PED has submitted **13.17%** and **13.23%** as the energy distribution losses for FY 2011-12 and FY 2012-13 as compared to that approved by Hon'ble Commission at **13.00%** and **12.50%** respectively. The comparison of Energy balance statement and the loss levels based on audited accounts and approved figures are shown in the table below:

**Table 3-3: Distribution Loss for FY 2011-12 and FY 2012-13**

S.No	Particulars	Previous Year (Approved)		Previous Year (Audited)	
		FY 2011-12	FY 2012-13	FY 2011-12	FY 2012-13
A	<b>ENERGY REQUIREMENT</b>				
a	Energy sales in the UT	2,317.48	2,348.49	2,321.29	2,474.98
2	Distribution losses (%age)	13.00%	12.50%	13.17%	13.23%
3	Energy required for the Territory (MU)	2,663.77	2,683.99	2,673.26	2,852.30
4	Add: Sales to common pool Consumers / UI	516.474	145.87	516.47	347.06
5	Energy Requirement @ Periphery	<b>3,180.25</b>	<b>2,829.86</b>	<b>3,189.74</b>	<b>3,199.36</b>
B	<b>ENERGY AVAILABILITY</b>				
1	Gross Energy Purchase	3329.15	2,944.74	3,339.08	3,320.82
2	<b>External losses (MU)</b>	148.9	114.88	149.35	121.46
3	<b>Net Energy Availability</b>	<b>3,180.25</b>	<b>2,829.86</b>	<b>3,189.74</b>	<b>3,199.36</b>

3.4.2 PED submits that the department has not made significant capex specifically towards reduction of transmission and distribution loss. Given the consumer sale mix, wherein the growth of LT consumers is higher than HT consumers, it is difficult for the utility to maintain the T&D loss levels as approved by the Hon'ble Commission.

3.4.3 PED requests the Hon'ble Commission to approve the Distribution Loss of for **13.17%** FY 2011-12 and **13.23%** for FY 2012-13 respectively.

### 3.5 Power Purchase Quantum & Cost for FY 2011-12 and FY 2012-13

3.5.1 PED meets its total energy requirement from its allocation from the Central Generating Stations (CGS) and state utilities like TANGEDCO, KSEB and PPCL. PPCL is within the UT generating company that caters for Karaikal region of PED to the extent of 33 MW. KSEB supplies for the Mahe region under the UT of Puducherry.

3.5.2 The table below shows the summary of power purchase from various sources along with their costs for FY 2011-12 including transmission charges, UI charges and purchase from traders.

**Table 3-4: Power Purchase Quantum & Cost for FY 2011-12**

Sr No	Particulars	Approved (FY 2011-12)			Actuals (FY 2011-12)		
		Purchase (MUs)	Cost (Rs.Cr)	Rate (Rs/Unit)	Purchase (MUs)	Cost (Rs.Cr)	Rate (Rs/Unit)
1	NTPC	1,589.30	399.80	2.52	1,599.03	402.50	2.52
2	NLC	829.00	208.10	2.51	829.04	208.07	2.51
3	NPCIL	238.80	68.90	2.89	238.79	68.87	2.88
4	KSEB	36.40	14.00	3.85	36.39	13.95	3.83
5	TANGEDCO	400.10	73.50	1.84	400.11	73.53	1.84
6	PPCL	235.70	73.70	3.13	235.73	73.74	3.13
7	Transmission Charges		65.90			65.99	
8	Other Adjustments *		191.10			191.09	
	<b>Total</b>	<b>3,329.30</b>	<b>1,095.00</b>	<b>3.29</b>	<b>3,339.08</b>	<b>1,097.74</b>	<b>3.29</b>

\* - Other adjustment includes rebate and additional payment due to TNEB.

3.5.3 For FY 2011-12, PED resubmits that the major factor contributing to increase in the power purchase cost is the additional amount of 117.8 Crs to TNEB in lieu of the increase in tariff to Rs. 3.10/kWh for the years 2009-10, 2010-11 and 2011-12 pursuant to the interim order of the Madras High Court. During the year 2012-13, the Hon'ble High Court of Madras (in an interim order) directed PED to pay differential cost as per the revised CERC tariff order pertaining to NLC TS-I for the period from April 2009 to August 2012. Based on the payment details, a provision for Rs. 117.82 Crs (relating to Power Purchased during 2009-10, 2010-11 and 2011-12) has been made in the books of accounts and the amount has been included in Power Purchase Cost for the year.

3.5.4 Apart from the above cost, an additional amount of Rs. 89.30 Crs has been included in the Power Purchase amount on account of revision invoices, debit and credit notes received from Power Suppliers (i.e. Power Generating, Transmission & Wheeling companies) in the financial year 2011-12 which include charges / credit pertaining to Power Purchased by the EDP in 2011-12 as well as in prior financial years. These invoices were raised in the year 2011-12 because of the orders passed by the respective regulatory commissions governing the respective Power Suppliers or due to the refunds / liabilities arising to the Power Suppliers on account of tax assessments, etc., which have to be recovered from (or credited to) the EDP.

3.5.5 The table below shows the summary of Power Purchase from various sources along with their costs for FY 2012-13 including Transmission Charges, UI charges and purchase from traders.

**Table 3-5: Power Purchase Quantum & Cost for FY 2012-13**

Sr No	Particulars	Approved (FY 2012-13)			Actuals (FY 2012-13)		
		Purchase (MUs)	Cost (Rs.Cr)	Rate (Rs/Unit)	Purchase (MUs)	Cost (Rs.Cr)	Rate (Rs/Unit)
1	NTPC	1,454.29	346.51	2.38	1,579.11	402.86	2.55
2	NLC	495.44	156.77	3.16	820.89	223.86	2.73
3	NPCIL	249.59	68.40	2.74	248.49	70.90	2.85
4	KSEB	36.37	15.47	4.25	35.26	21.11	5.99
5	TANGEDCO including Vallur	465.15	146.47	3.15	411.08	137.56	3.35
6	PPCL	235.86	86.63	3.67	216.49	79.61	3.68
7	Overdrawal	8.03	2.89	3.59	9.51	3.41	3.59
8	Transmission Charges		58.19			60.03	
9	RPO		8.74			8.65	
10	Rebate		3.16			(15.53)	
	<b>Total</b>	<b>2,944.73</b>	<b>893.23</b>	<b>3.03</b>	<b>3,320.82</b>	<b>992.47</b>	<b>2.99</b>

3.5.6 PED submits that there is a major increase in the cost per unit for the power procured from KSEB, due to the reason that since Mahe region is being treated as HT consumer by KSEB, there was a revision in HT tariff for that particular year resulting in such a huge hike.

3.5.7 During the year 2012-13, the Hon'ble High Court of Madras (in an interim order) directed the PED to pay differential cost as per the revised CERC tariff order pertaining to NLC TS-I for the period from April 2009 to August 2012. Accordingly, PED has paid an amount of Rs. 143.58 Crs in November 2012 and included in the power purchase cost, breakup of which is given hereunder:

**Table 3-6: Amount paid to NLC under High Court direction**

<b>Year (of power purchase) pertaining to which the differential amt. has been paid to NLC</b>	<b>Differential Amt. Paid to NLC (in Rs. Crs)</b>
2009-10	31.61
2010-11	40.67
2011-12	45.54
<i>Sub-Total (A)</i>	<i>117.82</i>
2012-13	25.76
<i>Sub-Total (B)</i>	<i>25.76</i>
<b>Total = (A) + (B)</b>	<b>143.58</b>

3.5.8 However PED would like to submit that per unit cost of power for FY 2012-13 has come down from Rs. 3.03/unit as approved in tariff order dated 10<sup>th</sup> April 2013 to actual cost of Rs. 2.99 /unit.

3.5.9 PED submits that for the FY 2011-12, no RPO has been considered and for FY 2012-13, Rs. 8.65 Crs has been considered in the power purchase cost. However, based on the RPO regulations as issued by JERC, a separate working has been calculated for estimation of RPO which is covered in the subsequent section of this petition.

3.5.10 The Hon'ble Commission is requested to approve Rs. 1,097.74 Crs for FY 2011-12 and Rs. 992.47 Crs for FY 2012-13 towards power purchase cost as actual incurred during the respective year.

### **3.6 Operation & Maintenance Expenses**

3.6.1 Operation & Maintenance Expenses consists of three elements viz Employee Expenses, A&G Expense and R&M Expense:

- Employee expenses comprise of salaries, dearness allowance, bonus, terminal benefits in the form of pension & gratuity, leave encashment and staff welfare expenses

- Administrative expenses mainly comprise of rents, telephone and other communication expenses, professional charges, conveyance and travelling allowances and other debits.
- Repairs and Maintenance Expenses go towards the day to day upkeep of the distribution network of the Company and form an integral part of the Company's efforts towards reliable and quality power supply as also in the reduction of losses in the system.

3.6.2 Regulation 27 (3) of JERC for the State of Goa and Union Territories (Terms and Conditions for Determination of Tariff) Regulations, 2009 provides for O&M Expense for a distribution licensee. The relevant regulation is re-produced hereunder:

*"27 (3) O&M expenses for distribution functions shall be determined by the Commission as follows:*

- a) O&M expenses as approved by the Commission for the first time for a year shall be considered as base O&M expenses for determination of O&M expenses for subsequent years;*

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

3.6.3 **Employee Expenses:** PED has computed the Employee expense for FY 2011-12 and FY 2012-13 based on the actual employee expenses incurred during the entire year.

3.6.3.1 The employee cost incurred during the year FY 2011-12 is Rs. 57.11 Crs for FY 2011-12 and Rs. 65.27 Crs for FY 2012-13. PED submits that the transport allowance as included in the Table 3-7 was considered in A&G expenses in the accounts. However, in line with the ARR formats, the same has been considered in the employee cost in ARR. Therefore, it is submitted that difference to the tune of transport allowance will be there in employee expenses and A&G expenses as per accounts.

3.6.3.2 The details of the employee cost are outlined in the following table for the approval of the Hon'ble Commission:



**Table 3-7: Employee Expenses for FY 2011-12 and FY 2012-13**

Rs. Crs

Sr.No	Particulars	FY 2011-12		FY 2012-13	
		Approved	Actual	Approved	Actual
	<b>Salaries&amp; Allowances</b>				
1	Salary		66.44		73.44
2	Wages		0.12		0.61
3	Stipend		0.32		0.35
4	Transport Allowance		0.44		0.46
5	Overtime allowance		0.95		0.58
	<b>Total</b>	-	<b>68.26</b>	-	<b>75.43</b>
6	Less: Add/Deduct share of others		1.75		1.16
	<b>Total</b>	-	<b>66.51</b>	-	<b>74.27</b>
7	Less: Amount capitalized		9.40		9.00
8	Net amount	-	<b>57.11</b>	-	<b>65.27</b>
9	Add : prior period expenses	-	-	-	-
	<b>Total Employee Expenses</b>	<b>54.15</b>	<b>57.11</b>	<b>58.40</b>	<b>65.27</b>

3.6.3.3 PED submits that employee cost as approved by the Hon'ble Commission in FY 2010-11 was Rs. 53.22 Crs against which the actual expenditure for FY 2011-12 is Rs. 57.11 Crs resulting in increase of ~7.4%. PED humbly submits that the WPI for FY 2011-12 was ~8.93% against which the escalation in the cost is ~7.4% which is lower than the WPI of the relevant year.

3.6.3.4 PED also submits that there is an increase in employee cost vis-à-vis as compared to approved figures by the Hon'ble Commission due to long pending ACP/ MACP (Assured career progression/ modified ACP) benefits to the employees and the payment of arrears retrospectively in both the years. It is submitted that such cost needs to be considered as uncontrollable and was not envisaged earlier.

3.6.3.5 PED request the Hon'ble Commission to kindly approve the actual employee cost during the year for FY 2011-12 and FY 2012-13 as reflecting in annual accounts.

3.6.4 **Repairs & Maintenance Expenses:** The repairs and maintenance cost has been claimed as per expenses actually incurred during FY 2011-12 and FY 2012-13 and which is reflecting in annual accounts of respective years.

**Table 3-8: R&M Expenses for FY 2011-12 and FY 2012-13**

Rs. Crs

Particulars	Approved (FY 2011-12)	Actual (FY 2011-12)	Approved (FY 2012-13)	Actual (FY 2012-13)
R&M Expenses	16.17	16.18	17.06	9.92

3.6.4.1 As seen from the table above R&M expenses incurred actually for FY 2011-12 is in line with that approved by the Hon'ble Commission. However, during FY 2012-13, R&M expenses are lower than the previous year for the reasons as specified below.

3.6.4.2 PED submits that as comparable to R&M expenses for FY 2011-12 to FY 2012-13, the expenses in FY 2011-12 are on a higher side because of Thane cyclone resulting in major R&M Expenses. However in FY 2012-13, R&M expenses are lower due to budgetary constraints from Govt of Puducherry.

3.6.4.3 PED submits that R&M expenses are necessary for maintenance of infrastructure and for ensuring proper Standard of Performance of the utility and therefore request the Hon'ble Commission to approve Rs. 16.18 Crs for FY 2011-12 and Rs. 9.92 Crs for FY 2012-13 as R&M expenses.

3.6.5 **Administration & General expenses:** The administrative expense mainly comprise of rents, professional charges, office expenses, etc. The expenses incurred by the petitioner for FY 2011-12 and FY 2012-13 are shown in the table below.

**Table 3-9: A&G Expenses for FY 2011-12 and FY 2012-13**

Rs. Crs

Sr. No.	Particulars	FY 2011-12		FY 2012-13	
		Approved	Actual	Approved	Actual
1	Rent, rates & taxes		0.41		0.41
2	Other Professional charges including Regulatory Expenses (License + Petition Fees)		1.35		0.91
3	Office Expenses including Legal, Professional & Special Service Charges		1.60		1.57
4	Advertisement & Publicity		0.06		0.07
5	Other A&G Charges		0.05		0.01
6	Others		0.37		0.39
7	Other material related expenses		0.16		0.09
	<b>Total</b>		<b>4.00</b>		<b>3.45</b>
8	Add/Deduct share of others (to be specified)		-		-
	<b>Total expenses</b>		<b>4.00</b>		<b>3.45</b>
9	Less: Capitalized		-		-
	<b>Net expenses</b>		<b>4.00</b>		<b>3.45</b>
10	Add: Prior period		-		-
	<b>Total A&amp;G Expenses charged to revenue</b>	<b>4.44</b>	<b>4.00</b>	<b>4.84</b>	<b>3.45</b>

3.6.5.1 PED submits that the transport allowance as included in the Table 3-7 was considered in A&G expenses in the accounts. However, in line with the ARR

formats, the same has been considered in the employee cost in ARR. Therefore, it is submitted that difference to the tune of transport allowance will be there in employee expenses and A&G expenses as per accounts.

3.6.5.2 As seen from the table above, PED has been able to limit its actual A&G expenses below the approved limit for FY 2011-12 and FY 2012-13. PED submits that in the Tariff Order dated 10<sup>th</sup> April 2013, the Hon'ble Commission considering the reasonableness of the expenses has approved the A&G expenses of Rs. 4.44 Crs and Rs. 4.84 Crs for FY 2011-12 and FY 2012-13 respectively.

3.6.5.3 The Hon'ble Commission is therefore requested to approve the A&G expenses of Rs. 4.00 Crs for FY 2011-12 and Rs. 3.45 Crs for FY 2012-13.

3.6.6 **O&M Expenses Summary:** Based on the foregoing paragraphs, the O&M expenses for the year FY 2011-12 and FY 2012-13 vis-a-vis the approved level by the Hon'ble Commission is shown in the table below:

**Table 3-10: O&M Expenses for FY 2011-12 and FY 2012-13**

Rs. Crs

Sr. No.	Particulars	FY 2011-12		FY 2012-13	
		Approved	Actual	Approved	Actual
1	Total Employee Expenses	54.15	57.11	58.40	65.27
2	Total R&M Expenses	16.17	16.18	17.06	9.92
3	Total A&G Expenses	4.44	4.00	4.84	3.45
	<b>Total O&amp;M Expenses</b>	<b>74.76</b>	<b>77.28</b>	<b>80.30</b>	<b>78.64</b>

3.6.6.1 The Hon'ble Commission is requested to approve the O&M Expenses of Rs. 77.28 Crs for FY 2011-12 and Rs. 78.64 Crs for FY 2012-13 as shown in the table above. The details of O&M expense for FY 2011-12 and FY 2012-13 are provided in the Formats 13, 15 & 16 of the Tariff Filing Formats.

### 3.7 Capital Work in Progress, GFA and Depreciation

3.7.1 **GFA:** The Opening Balance of GFA for FY 2011-12 comes to around Rs. 458.34 Crs and Rs. 480.48 Crs for FY 2012-13 as per annual accounts of respective years. The following table shows the opening balance, additions, deductions and closing balance of GFA for FY 2011-12 and FY 2012-13.

**Table 3-11: GFA for FY 2011-12 and FY 2012-13**

Rs. Crs

Particulars	FY 2011-12		FY 2012-13	
	Approved	Actual	Approved	Actual
Opening Value of Assets at the beginning of the year	458.34	458.34	480.49	480.48
Additions during the year	22.15	26.39	65.36	74.81
Value of Assets sold/ disposed off	-	4.25	-	-
<b>Gross Fixed Asset at the end of the year</b>	<b>480.49</b>	<b>480.48</b>	<b>545.85</b>	<b>555.30</b>

3.7.2 PED submits that the Asset and Depreciation registers have been prepared and duly audited fixed assets' gross amount, accumulated depreciation and depreciation for the year have been shown in the audited accounts for the FY 2011-12 and FY 2012-13. The petitioner hereby requests the Commission to approve the actual Gross Fixed Assets opening and additions as submitted above for FY 2011-12 and FY 2012-13.

3.7.3 **Depreciation:** "As per Regulation 26 of JERC Tariff Regulations, depreciation for the assets shall be calculated annually at the rates specified by CERC from time to time. The same have been applied on different asset categories.

3.7.4 PED would like to submit that the depreciation arrived in annual accounts for FY 2011-12 and FY 2012-13 is based on the rates specified by Hon'ble Commission in its Tariff Regulations which is charged on pro-rata basis.

3.7.5 The rates of depreciation for various assets as used are tabulated below:

**Table 3-12: Rate of Depreciation applicable for various assets**

Description of Assets	Rate of Depreciation
Land and Land Rights	--
Building	3.34%
Plant and Machinery	5.28%
Lines and Cables	5.28%
Office Equipment	6.33%
IT Equipment	15.00%
Vehicles	9.50%
Furniture and Fixtures	6.33%
Testing and measuring equipment	5.28%
SCADA centre	5.28%

3.7.6 The following table shows the depreciation arrived by PED for FY 2011-12 and FY 2012-13 based on the approved depreciation rates specified by the Hon'ble Commission for different asset class. The same is reflecting in the annual audited accounts for respective years.

**Table 3-13 : Depreciation for FY 2011-12 and FY 2012-13**

Rs. Crs

Particulars	FY 2011-12		FY 2012-13	
	Approved	Actual	Approved	Actual
Opening Value of Assets at the beginning of the year	458.34	458.34	480.49	480.48
Additions during the year	22.15	26.39	65.36	74.81
Value of Assets sold/ disposed off	-	4.25	-	-
<b>Gross Fixed Asset at the end of the year</b>	<b>480.49</b>	<b>480.48</b>	<b>545.85</b>	<b>555.30</b>
<b>Net Depreciation for the year</b>	<b>20.28</b>	<b>17.87</b>	<b>23.39</b>	<b>21.96</b>
<b>Average Depreciation Rate</b>	<b>4.32%</b>	<b>3.81%</b>	<b>4.56%</b>	<b>4.24%</b>

3.7.7 The Hon'ble Commission is requested to approve Rs. **17.87 Crs** for FY 2011-12 and Rs. **21.96 Crs** for FY 2012-13 as submitted in the table above.

### 3.8 Interest & Finance Charge

3.8.1 The Regulation 25 provides for Interest and Finance Charges on Loan. PED has submitted that the majority of capital assets are created out of the equity contribution from Government of Puducherry and the actual borrowing of loan is only to the extent of the R-APDRP schemes. However PED has claimed the interest charges based on normative loan calculation. The Interest and Finance Charges arrived is based on normative loan considered to the extent of capitalization during the year. The table below shows the Interest and Finance Charges vis-a-vis approved by the Hon'ble Commission for FY 2011-12 and FY 2012-13.

**Table 3-14: Interest & Finance Charges for FY 2011-12 and FY 2012-13**

Rs. Crs

Sr. No.	Particulars	FY 2011-12		FY 2012-13	
		Approved	Actuals	Approved	Actuals
1	Opening Normative Loan	36.17	36.17	47.92	51.03
2	Add: Normative Loan during the Year	15.50	18.48	45.75	52.37
3	Less: Normative Repayment	3.75	3.62	5.3	5.10
4	<b>Closing Normative Loan</b>	<b>47.92</b>	<b>51.03</b>	<b>88.37</b>	<b>98.30</b>
5	Average Normative Loan	<b>42.05</b>	<b>43.60</b>	<b>68.15</b>	<b>74.66</b>
6	Rate of Interest (@SBAR rate)	13.00%	13.00%	14.75%	14.75%
7	<b>Interest on Normative Loan</b>	<b>5.47</b>	<b>5.67</b>	<b>10.05</b>	<b>11.01</b>
8	Other Finance Charges	2.40	1.32	1.32	2.09
9	<b>Total Interest &amp; Finance Charges</b>	<b>7.87</b>	<b>6.99</b>	<b>11.37</b>	<b>13.10</b>

3.8.2 It is submitted that it has considered an addition of Rs. 26.39 Crs and Rs. 74.81 Crs in the Gross Fixed Assets for FY 2011-12 and FY 2012-13 respectively, which are considered funded through normative debt to the tune of 70%. The rate of interest considered is prevailing Prime Lending Rate of the State Bank of India as on 1<sup>st</sup> April of that relevant year.

3.8.3 Along with the normative interest calculated and claimed in the table highlighted above, it is submitted that certain financial charges are also incurred by the department which are related to charges claimed by the bank charges, finance charges, etc. which are claimed along with the interest in Table 3-14 of the Petition.

3.8.4 The Hon'ble Commission is requested to approve the Interest & Finance Charges at Rs. 6.99 Crs for FY 2011-12 and Rs. 13.10 Crs for FY 2012-13 as shown in the table above. The details of Interest & Finance charges are provided in Format 10A of the Tariff Filing Formats.

### **3.9 Interest on Working Capital**

3.9.1 Regulation No. 29 of JERC for the State of Goa and Union Territories (Terms and Conditions for Determination of Tariff) Regulations, 2009, stipulates the procedure for calculation of normative Working Capital and Interest on Working Capital as applicable to Puducherry Electricity Department. This is as shown below:

*(1) For generation and transmission business, the working capital shall be as per CERC norms.*

*(2) Subject to prudence check, the working capital for distribution business shall be the sum of one month requirement for meeting:*

*(a) Power purchase cost.*

*(b) Employees cost.*

*(c) Administration & general expenses and*

*(d) Repair & Maintenance expenses.*

*(3) Subject to prudence check, the working capital for integrated utility shall be sum of one month requirement for meeting:*

*(a) Power purchase cost*

*(b) Employees cost*

*(c) Administration & general expenses*

*(d) Repair & Maintenance expenses.*

*(e) Sum of two month requirement for meeting Fuel cost..*

*(4) The rate of interest on working capital shall be equal to the short term Prime Lending Rate of State Bank of India on the 1st April of the relevant financial year. The interest on working capital shall be payable on normative basis notwithstanding that the generating company / licensee has not taken working capital loan from any outside agency or has exceeded the working capital loan amount worked out on the normative figures.*

3.9.2 The petitioner hereby submits that it has adopted the same methodology adopted by the Hon'ble Commission in its tariff order for FY 2013-14 for arriving at the working capital requirement whereby it has excluded the available security deposits available with the Petitioner from the working capital requirement though the same has not been specified in the Regulations.

3.9.3 The Interest on Working Capital approved by the Hon'ble Commission for FY 2011-12 and FY 2012-13 was Nil since the opening Security Deposit was much higher than the working capital requirement. However based on the audited figures available for FY 2011-12 and FY 2012-13, the revised calculation of working capital requirement are as identified below:

**Table 3-15: Interest on Working Capital for FY 2011-12 and FY 2012-13**

Rs. Crs

Sr. No.	Particulars	FY 2011-12		FY 2012-13	
		Approved	Actual	Approved	Actual
1	Power Purchase Cost - 1 Month	77.28	91.48	70.28	82.71
2	Employee Cost - 1 Month	4.51	4.76	4.87	5.44
3	Administration & General Expenses - 1 Month	0.37	0.33	0.40	0.29
4	R&M Cost - 1 Month	1.35	1.35	1.42	0.83
5	Less: Security Deposit Opening Bal.	115.08	64.25	133.32	73.03
6	<b>Total</b>	<b>(31.57)</b>	<b>33.67</b>	<b>(56.35)</b>	<b>16.23</b>
7	<b>Interest Rate *</b>	13.00%	13.00%	14.75%	14.75%
8	<b>Interest on Working Capital</b>	-	<b>4.38</b>	-	<b>2.39</b>

3.9.4 The Hon'ble Commission is requested to approve the Interest on Working Capital of Rs. 4.38 Crs for FY 2011-12 and Rs. 2.39 Crs for FY 2012-13 as presented in the table above.

### 3.10 Security Deposits

3.10.1 The Regulation 25 of JERC (for the State of Goa and Union Territories (Terms and Conditions for Determination of Tariff) Regulations, 2009 provides for Interest on Security Deposit, if any, made by the consumer with the licensee. The provision of interest on security deposits is to be made at the bank rate. The prevailing Bank rate is considered at **6.00%** for FY 2011-12 and **9.50%** for FY 2012-13 as notified by Reserve Bank of India.

**Table 3-16: Interest on Security Deposit for FY 2011-12 and FY 2012-13**

Rs. Crs

Sr. No.	Particulars	FY 2011-12		FY 2012-13	
		Approved	Actuals	Approved	Actuals
1	Opening Security Deposit	64.20	64.25	133.32	73.03
2	Add: Deposits during the Year	8.82	8.78		22.87
3	Less: Deposits refunded		-		-
4	Less: Deposits in form of BG/FDR		-		-
5	<b>Closing Security Deposit</b>	<b>73.02</b>	<b>73.03</b>	<b>133.32</b>	<b>95.90</b>
6	Average Security Deposit	68.61	68.64	133.32	84.46
7	<b>Bank Rate</b>	6.00%	6.00%	9.50%	9.50%
8	<b>Interest on Security Deposit</b>	<b>3.61</b>	<b>4.12</b>	<b>12.67</b>	<b>8.02</b>

3.10.2 The Hon'ble Commission is requested to approve the Interest on Security Deposit of Rs. 4.12 Crs for FY 2011-12 and Rs. 8.02 Crs as showcased in the table above. However, PED submits that since there has been no payment made to the consumers in relation to the interest on the security deposit, the same has not been claimed in the ARR of the relevant year i.e. FY 2011-12 and FY 2012-13. However, the cumulative adjustment of interest on security deposit in line with the principles adopted by the Hon'ble Commission in Tariff Order dated 25<sup>th</sup> April 2014 has been carried out by PED in the subsequent chapter of this petition.

### 3.11 Return on Capital Base/ Net Fixed Assets

3.11.1 The proviso of Regulation 23 (2) and Regulation 24 of Tariff Regulations 2009 provides for entitlement for Returns on Capital Base/ Net Fixed Assets by utility / licensee. Thus, in line with the regulation and the methodology adopted by the Hon'ble Commission in its previous order, PED has calculated the return on capital base at 3%. The summary of the Return on Net Fixed Assets as claimed by the petitioner, as approved by the Commission and as calculated for FY 2011-12 and FY 2012-13 is tabulated below:

**Table 3-17: Return on NFA for FY 2011-12 and FY 2012-13**

Rs. Crs

Particulars	FY 2011-12		FY 2012-13	
	Approved	Actuals	Approved	Actuals
Gross Block at the beginning of the year	458.34	458.34	480.48	480.48
Opening CWIP	77.31	77.31	94.69	94.69
Less: Opening Debts	13.16	211.42	11.51	229.29
Less: Accumulated Depreciation	211.42	13.16	231.7	16.01
Net Fixed Assets	311.07	311.07	331.96	329.88
Less accumulated consumer contribution	0	3.22	0	5.35
Net fixed assets at beginning of the year	<b>311.07</b>	<b>314.29</b>	<b>331.96</b>	<b>335.23</b>
<b>Reasonable Return @ 3% of NFA</b>	<b>9.33</b>	<b>9.43</b>	<b>9.96</b>	<b>10.06</b>



3.11.2 In view of above, the Hon'ble Commission is requested to kindly allow the above Return on Net Fixed Assets of Rs. 9.43 Crs for FY 2011-12 and Rs. 10.06 Crs for FY 2012-13.

### 3.12 Non-Tariff Income

3.12.1 The Non-Tariff Income comprises metering, late payment charges, interest on staff loans, income from trading, reconnection fee, UI sales/ Sales to Exchanges and miscellaneous income among others. The Non-Tariff Income approved by the Hon'ble Commission in the ARR for FY 2011-12 was Rs. 170.83 Crs and Rs. 51.88 Crs for FY 2012-13.

3.12.2 The details of Non-Tariff Income for FY 2011-12 and FY 2012-13 are provided in Format 20 of the Tariff Filing Formats

3.12.3 The summary of total Non-Tariff Income is tabulated below:

**Table 3-18: Non-Tariff Income for FY 2011-12 and FY 2012-13**

Rs. Crs

Sr. No.	Particulars	FY 2011-12		FY 2012-13	
		Approved	Actuals	Approved	Actuals
1	UI Sales / Sales to Exchange		167.78		103.42
2	Income from trading		0.18		0.10
3	Misc. Receipts/income		2.88		4.66
4	<b>Total income</b>	-	<b>170.83</b>	-	<b>108.18</b>
5	Add: Prior Period income				
6	<b>Total Non Tariff income</b>	<b>170.83</b>	<b>170.83</b>	<b>51.88</b>	<b>108.18</b>

3.12.4 In view of above, the Hon'ble Commission is requested to kindly allow Non-Tariff Income of Rs. 170.83 Crs for FY 2011-12 and Rs. 108.18 Crs for FY 2012-13.

### 3.13 Revenue from Sale of Power at Existing Tariff

3.13.1 The Revenue from Tariff for FY 2011-12 and FY 2012-13 approved by the Honourable Commission in tariff order dated 10<sup>th</sup> April 2014 was Rs. 690.50 Crs and Rs. 799.94 Crs. The actual revenue earned from tariffs for FY 2011-12 and FY 2012-13 is shown in the table below

**Table 3-19: Revenue from Tariff for FY 2011-12 & FY 2012-13**

Sr. No.	Category of Consumer	Sales (Mus)	Revenue (Rs. Crs)	Sales (Mus)	Revenue (Rs. Crs)
		<b>FY 2011-12</b>		<b>FY 2012-13</b>	
	<b>LT Category</b>				
1	Domestic & Cottage	537.39	75.42	581.11	84.41
2	OHOB	9.84	0.64	10.00	0.82
3	Commercial	167.68	57.54	182.30	75.05
4	Agriculture	56.56	0.67	56.80	1.79
5	Public lighting	24.00	6.96	27.90	9.49
6	LT Industrial	133.59	37.22	142.53	48.18
7	Water tank	50.80	14.73	54.71	19.97
8	Temporary supply - LT&HT	14.00	7.00	20.27	11.84
	<b>Total LT</b>	<b>993.86</b>	<b>200.19</b>	<b>1,075.62</b>	<b>251.54</b>
	<b>HT Category</b>				
9	HT 1 Industrial / Commercial	974.60	356.19	1,015.38	431.97
10	HT 2 - Government & water tank	45.03	17.07	45.48	19.23
11	HT 3 - EHT	307.80	117.04	338.50	139.01
12	<b>Total HT</b>	<b>1,327.43</b>	<b>490.29</b>	<b>1,399.36</b>	<b>590.21</b>
13	<b>Total</b>	<b>2,321.29</b>	<b>690.48</b>	<b>2,474.98</b>	<b>841.75</b>
14	<b>FPPCA Charges collected during the year</b>		-		42.80
15	<b>Total Revenue for the Year</b>	<b>2,321.29</b>	<b>690.48</b>	<b>2,474.98</b>	<b>884.55</b>
	As approved in Tariff Order 10th April 2013	2,317.50	690.50	2,348.49	799.94

3.13.2 In view of above, the Hon'ble Commission is requested to kindly allow Revenue of Rs. 690.48 Crs for FY 2011-12 and Rs. 884.55 Crs.

### **3.14 Aggregate Revenue Requirement for FY 2011-12 and FY 2012-13**

3.14.1 The Aggregate Revenue Requirement for FY 2011-12 and FY 2012-13 as approved by the Hon'ble Commission and as per the true-up Petition claimed by PED are outlined in the following table:

**Table 3-20: Calculation of ARR for FY 2011-12 and FY 2012-13**

Rs. Crs

Particulars	FY 2011-12		FY 2012-13	
	Approved by Commission	Claimed in True Up	Approved by Commission	Claimed in True Up
Cost of power purchase	1,095.08	1,097.74	893.23	992.47
Employee costs	54.15	57.11	58.40	65.27
Administration and General expenses	4.44	4.00	17.06	9.92
R&M Expenses	16.17	16.18	4.84	3.45
Depreciation	20.28	17.87	23.39	21.96
Interest charges (including interest on working capital)	7.87	11.37	24.04	15.49
Return on NFA /Equity	9.33	9.24	9.96	9.74
Provision for Bad Debt	-	-	-	-
Interest on Consumer Security Deposit	-	-	-	-
<b>Total Revenue Requirement</b>	<b>1,207.32</b>	<b>1,213.50</b>	<b>1,030.92</b>	<b>1,118.30</b>
Less: Non Tariff Income	170.83	170.83	51.88	108.18
<b>Net Aggregate Revenue Requirement</b>	<b>1,036.49</b>	<b>1,042.67</b>	<b>979.04</b>	<b>1,010.12</b>

3.14.2 The Petitioner hereby requests the Hon'ble Commission to approve the ARR of Rs. 1,042.67 Crs for FY 2011-12 and Rs. 1,010.12 Crs for FY 2012-13 as submitted above.

### 3.15 Revenue Gap for FY 2011-12 and FY 2012-13

3.15.1 The Revenue Gap approved by the Honourable Commission for FY 2011-12 and FY 2012-13 is Rs. 346 Crs and Rs. 179.10 Crs respectively.

3.15.2 The Revenue Gap as approved by the Hon'ble Commission and as calculated on the basis of true up of FY 2011-12 and FY 2012-13 is shown in the table below:

**Table 3-21: Revenue Gap for FY 2011-12 and FY 2012-13**

Rs. Crs

Particulars	FY 2011-12		FY 2012-13	
	Approved	Actuals	Approved	Actuals
Aggregate Revenue Requirement	1,036.49	1,042.67	979.04	1,010.12
Revenue from Sale of Power	690.5	690.48	799.94	884.55
Revenue Gap/(Surplus)	345.99	352.18	179.10	125.57

3.15.3 In view of above, the Hon'ble Commission is requested to kindly allow Revenue Gap of Rs. 352.18 Crs for FY 2011-12 and Rs. 125.57 Crs for FY 2012-13.

## CHAPTER 4. PROVISIONAL TRUE UP OF FY 2013-14

### 4.1 Preamble

4.1.1 This section outlines the performance of Puducherry Electricity Department (PED) for FY 2013-14. PED submits that the audit of the accounts are in the process and therefore it submits the provisional actual for FY 2013-14 in this petition for provisional trueing up along with the comparison of the approved figures by Hon'ble Commission vide tariff order dated 25<sup>th</sup> April 2014. PED submits that since the accounts has already been finalized, the variation with the audited accounts may be marginal.

4.1.2 This chapter summarizes each of the components of ARR for FY 2013-14 and thereby working out the revenue gap for that year.

### 4.2 Provisional True up FY 2013-14

4.2.1 The summary of the charges for FY 2013-14 claimed by the petitioner in the last petition and as approved by the Hon'ble Commission in the last Tariff Order dated 25<sup>th</sup> April 2014 is tabulated below:

Table 4-1: APR of FY 2013-14 as per Tariff Order dated 25<sup>th</sup> April 2014

Particulars	FY 2013-14	
	Claimed in APR	Approved by Commission
Cost of power purchase including RPO Provision to meet obligation of the previous years	984.77	1,002.78
Employee costs	69.69	64.73
Administration and General expenses	3.96	3.96
R&M expenses	20.15	18.06
Depreciation	23.65	23.65
Interest & Finance Charges	4.53	13.88
Interest on Working Capital + Int on CSD	8.39	7.18
Return on NFA /Equity	9.85	9.87
Provision for Bad Debt	-	-
<b>Total Revenue Requirement</b>	<b>1,125.00</b>	<b>1,144.11</b>
Less: Non Tariff Income	16.50	16.50
<b>Net Aggregate Revenue Requirement</b>	<b>1,108.50</b>	<b>1,127.61</b>
Revenue from Existing Tariff	1089.13	1084.99
<b>Revenue Gap</b>	<b>19.37</b>	<b>42.62</b>

### 4.3 Number of Consumers

4.3.1 Based on the unaudited accounts, PED submits before the Hon'ble Commission the actual consumer numbers for FY 2013-14 in comparison of the approved numbers as

highlighted below:

**Table 4-2: Details of No. of Consumer Numbers for FY 2013-14**

Sr.No	Consumer Categories	FY 2013-14	
		Approved by Commission	Actuals
1	Domestic & Cottage	299,772	307,735
2	Commercial	44,485	45,311
3	Agriculture	6,842	6,810
4	Public lighting	49,326	49,524
5	LT Industrial	6,221	6,338
6	Temporary supply - LT&HT	-	-
	<b>Total LT</b>	<b>406,646</b>	<b>415,718</b>
7	HT 1 Industrial	411	363
8	HT Commercial		71
9	HT 2 - Government & water tank	49	49
10	HT 3 - EHT	9	7
	<b>Total HT</b>	<b>469</b>	<b>490</b>
	<b>Total LT and HT</b>	<b>407,115</b>	<b>416,208</b>

4.3.2 It is requested to Hon'ble Commission to consider the number of consumers as submitted in the above table for FY 2013-14.

#### 4.4 Energy Sales

4.4.1 The total sales of PED for FY 2013-14 are **2,365.72** MU's. The category wise actual and approved sales for FY 2013-14 are shown in the table below.

**Table 4-3: Sales for FY 2013-14**

MU's

Sr.No	Consumer Categories	FY 2013-14	
		Approved by Commission	Actuals
1	Domestic & Cottage	570.92	612.09
2	Commercial	170.46	181.00
3	Agriculture	56.63	57.00
4	Public lighting	26.88	26.00
5	LT Industrial	251.63	226.10
6	Temporary supply - LT&HT	11.95	10.10
	<b>Total LT</b>	<b>1,088.47</b>	<b>1,112.29</b>
7	HT 1 Industrial	929.28	815.45
8	HT Commercial		62.56
9	HT 2 - Government & water tank	51.49	48.77
10	HT 3 - EHT	336.88	326.65
	<b>Total HT</b>	<b>1,317.65</b>	<b>1,253.43</b>
	<b>Total LT and HT</b>	<b>2,406.12</b>	<b>2,365.72</b>

4.4.2 PED submits that FY 2013-14 has witnessed a global economic downturn whereby economy started reviving from FY 2014-15 onwards. Due to recession and economic downturn, Industrial category has witnessed reduction in sales for FY 2013-14

resulting in a lower sale as compared to the sales approved by the Hon'ble Commission.

- 4.4.3 Based on the above submission PED requests the Hon'ble Commission to approve the actual sales for FY 2013-14 as stated in the table above.

#### 4.5 Distribution Loss & Energy Requirement

- 4.5.1 PED has submitted 13.00% as the energy distribution losses for FY 2013-14 as compared to that approved by Hon'ble Commission at **12.50%**. The comparison of Energy balance statement and the loss levels based on unaudited accounts and approved figures are shown in the table below:

**Table 4-4: Distribution Loss and Energy Balance for FY 2013-14**

S.No	Particulars	FY 2013-14	
		Approved	Provisional
A	<b>ENERGY REQUIREMENT</b>		
a	Energy sales in the UT	2,406.12	2,365.72
2	Distribution losses (%age)	12.50%	13.00%
3	Energy required for the Territory (MU)	2,749.85	2,719.06
4	Add: Sales to common pool Consumers / UI	92.53	183.79
5	Energy Requirement @ Periphery	<b>2,842.38</b>	<b>2,902.86</b>
B	<b>ENERGY AVAILABILITY</b>		
1	Gross Energy Purchase	2,959.92	3,010.96
2	<b>External losses (MU)</b>	117.54	108.11
3	<b>Net Energy Availability</b>	<b>2,842.38</b>	<b>2,902.86</b>

- 4.5.2 The petitioner submits that the department has not made significant capex specifically towards reduction of transmission and distribution loss. Given the consumer sale mix, wherein the growth of LT consumers is higher than HT consumers, it is difficult for the utility to maintain the commission approved T&D loss levels.

- 4.5.3 PED submits that in comparison with the approved figures, actual T&D losses are marginally higher and therefore request the Hon'ble Commission to approve the Distribution Loss of 13.00% for FY 2013-14.

#### 4.6 Power Purchase Quantum & Cost for FY 2013-14

- 4.6.1 PED meets its total energy requirement from its allocation from the Central Generating Stations (CGS) and state utilities like TANGEDCO, KSEB and PPCL. PPCL is a generating company within the UT of Puducherry catering to the requirement of Karaikal region. KSEB supplies for Mahe region under the UT of Puducherry. Also from FY 2013-14, supply from Kudankulam Nuclear Plant and Vallur Thermal Plant has also been started resulting in additional power allocation to the Union Territory,

Puducherry to meet the demand.

4.6.2 The table below shows the summary of actual (provisional) Power Purchase from various sources along with their costs for FY 2013-14 including Transmission Charges, UI charges and purchase from traders.

**Table 4-5: Power Purchase Quantum & Cost for FY 2013-14**

Sr No	Particulars	Approved (FY 2013-14)			Actuals (FY 2013-14)		
		Purchase (MUs)	Cost (Rs.Cr)	Rate (Rs/Unit)	Purchase (MUs)	Cost (Rs.Cr)	Rate (Rs/Unit)
1	NTPC	1,405.22	383.43	2.73	1,333.83	378.70	2.84
2	NLC	703.79	212.71	3.02	782.79	232.40	2.97
3	NPCIL	264.45	77.14	2.92	311.27	86.14	2.77
4	KSEB	40.38	20.07	4.97	40.75	21.64	5.31
5	TANGEDCO	292.43	112.79	3.86	274.76	100.13	3.64
6	PPCL	241.88	89.70	3.71	241.22	100.47	4.17
7	Overdrawl	11.77	2.56	2.18	26.33	2.28	0.86
8	Transmission Charges		58.60			69.04	
9	RPO obligations		18.33			15.71	
10	Other Adjustment		(1.70)			(12.46)	
	<b>Total</b>	<b>2,959.92</b>	<b>973.63</b>	<b>3.29</b>	<b>3,010.96</b>	<b>994.04</b>	<b>3.30</b>

4.6.3 PED submits that for the FY 2013-14, RPO provision allowed by the Hon'ble Commission was Rs. 18.33 Crs against which Rs. 15.71 Crs had been purchased for FY 2013-14. However, the RPO provision of Rs. 1.34 Crs made in FY 2012-13 has been reversed in FY 2013-14 resulting in a net impact of Rs. 15.71 Crs which has been considered in the power purchase cost. However, based on the RPO regulations as issued by JERC, a separate working has been calculated for estimation of RPO which is covered in the subsequent section of this petition.

4.6.4 The Hon'ble Commission is requested to approve Rs. 994.04 Crs for FY 2013-14 as power purchase cost (provisional actual) incurred during the year.

#### **4.7 Operation & Maintenance Expenses**

4.7.1 Operation & Maintenance Expenses consists of three elements viz Employee Expenses, A&G Expense and R&M Expense:

- Employee expenses comprise of salaries, dearness allowance, bonus, terminal benefits in the form of pension & gratuity, leave encashment and staff welfare expenses
- Administrative expenses mainly comprise of rents, telephone and other communication expenses, professional charges, conveyance and travelling allowances and other debits.

- Repairs and Maintenance Expenses go towards the day to day upkeep of the distribution network of the Company and form an integral part of the Company's efforts towards reliable and quality power supply as well as in the reduction of losses in the system.

4.7.2 Regulation 27 (3) of JERC for the State of Goa and Union Territories (Terms and Conditions for Determination of Tariff) Regulations, 2009 provides for O&M Expense for a distribution licensee. The relevant regulation is re-produced hereunder:

*"27 (3) O&M expenses for distribution functions shall be determined by the Commission as follows:*

- b) O&M expenses as approved by the Commission for the first time for a year shall be considered as base O&M expenses for determination of O&M expenses for subsequent years;*

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

4.7.3 **Employee Expenses:** PED has computed the O&M (Employee) expense for FY 2013-14 based on the actual employee expenses incurred during the entire year.

4.7.3.1 The employee cost incurred during the year for FY 2013-14 is Rs. 72.70 Crores.

**Table 4-6: Employee Expenses for FY 2013-14**

Rs. Crs

Sr.No	Particulars	FY 2013-14	
		Approved	Actual
	<b>Salaries&amp; Allowances</b>		
1	Salary		82.67
2	Wages		0.59
3	Stipend		0.35
4	Transport Allowance		0.62
5	Overtime allowance		0.81
	<b>Total</b>	-	<b>85.04</b>
6	Less: Add/Deduct share of others		1.15
	<b>Total</b>	-	<b>83.90</b>
7	Less: Amount capitalized		11.20
8	Net amount	-	<b>72.70</b>
9	Add : prior period expenses	-	-
	<b>Total Employee Expenses</b>	<b>64.73</b>	<b>72.70</b>

4.7.3.2 PED submits that the transport allowance as included in the Table 4-6 was considered in A&G expenses in the accounts. However, in line with the ARR formats, the same has been considered in the employee cost in ARR. Therefore, it



is submitted that difference to the tune of transport allowance will be there in employee expenses and A&G expenses as per accounts.

4.7.3.3 PED requests the Hon'ble Commission to kindly approve the actual cost during the year for FY 2013-14 as reflecting in annual accounts.

4.7.4 **Repairs & Maintenance Expenses:** The repairs and maintenance cost has been claimed as per expenses actually incurred during FY 2013-14.

**Table 4-7: R&M Expenses for FY 2013-14**

Rs. Crs

Particulars	Approved (FY 2013-14)	Actual (FY 2013-14)
R&M Expenses	18.06	13.46

4.7.4.1 As seen from the table above R&M expenses incurred actually for FY 2013-14 were much less than the approved level.

4.7.4.2 PED submits that the R&M expense is being met from budgetary provision and therefore is limited to the amount allocated under such budgetary provision only.

4.7.4.3 PED submits that R&M expenses are necessary for maintenance of infrastructure and for ensuring proper Standard of Performance of the utility. It is submitted that PED has been expanding their distribution infrastructure whereby ~Rs. 100 Crs has been spent in last two years. Accordingly, there is a need for R&M expenses to be growing in line with the increase in GFA also. PED therefore requests the Hon'ble Commission to approve Rs. 13.46 Crs for FY 2013-14as R&M expenses.

4.7.5 **Administration & General expenses:** The administrative expense mainly comprise of rents, professional charges, office expenses, etc. The expenses incurred by the petitioner for FY 2013-14 are shown in the table below.

**Table 4-8 A&G Expenses for FY 2013-14**

Rs. Crs

Sr. No.	Particulars	FY 2013-14	
		Approved	Actual
1	Rent, rates & taxes		0.43
2	Other Professional charges including Regulatory Expenses (License + Petition Fees)		2.43
3	Office Expenses including Legal, Professional & Special Service Charges		1.77
4	Advertisement & Publicity		0.24
5	Other A&G Charges		0.04
6	Others		0.37
7	Incentives to consumers		1.17
8	Grant - in - Aid		0.72
9	Other material related expenses		0.07
	<b>Total</b>		<b>7.25</b>
8	Add/Deduct share of others (to be specified)		-
	<b>Total expenses</b>		<b>7.25</b>
9	Less: Capitalized		-
	<b>Net expenses</b>		<b>7.25</b>
10	Add: Prior period		-
	<b>Total A&amp;G Expenses charged to revenue</b>	<b>3.96</b>	<b>7.25</b>

4.7.5.1 PED submits that the transport allowance as included in the Table 4-6 was considered in A&G expenses in the accounts. However, in line with the ARR formats, the same has been considered in the employee cost in ARR. Therefore, it is submitted that difference to the tune of transport allowance will be there in employee expenses and A&G expenses as per accounts.

4.7.5.2 There is a major increase in the Professional charges and Office expenses due to payment of license fees corresponding to two years and appointment of consultants to assist in regulatory affairs and as well as for preparing final accounts and asset registers.

4.7.5.3 Also, incentives were provided to HT consumers for maintaining better power factors which has been reflected in the above table.

4.7.5.4 The Hon'ble Commission is therefore requested to approve the A&G expenses of Rs. 7.25 Crs for FY 2013-14.

4.7.6 **O&M Expenses Summary:** Based on the foregoing paragraphs, the O&M expenses

for the year FY 2013-14 are summarised below:

**Table 4-9: O&M Expenses for FY 2013-14**

Rs. Crs

Sr. No.	Particulars	FY 2013-14	
		Approved	Actual
1	Total Employee Expenses	64.73	72.70
2	Total R&M Expenses	18.06	13.46
3	Total A&G Expenses	3.96	7.25
	<b>Total O&amp;M Expenses</b>	<b>86.75</b>	<b>93.41</b>

4.7.7 The Hon'ble Commission is requested to approve the O&M Expenses of Rs. 93.41 Crs for FY 2013-14 as shown in the table above. The details of O&M expense for FY 2013-14 are provided in the Formats 13, 15 & 16 of the Tariff Filing Formats.

#### 4.8 Capital Work in Progress, GFA and Depreciation

4.8.1 **GFA:** The Opening Balance of GFA for FY 2013-14 comes to around Rs. 555.30 Crs as per provisional accounts. The following table shows the opening balance, additions and closing balance of GFA for FY 2013-14.

**Table 4-10: GFA for FY 2013-14**

Rs. Crs

Particulars	FY 2013-14	
	Approved	Actual
Opening Value of Assets at the beginning of the year	545.84	555.30
Additions during the year	10.00	8.29
Value of Assets sold/ disposed off	-	-
<b>Gross Fixed Asset at the end of the year</b>	<b>555.84</b>	<b>563.59</b>

4.8.2 PED submits that the Asset and Depreciation registers have been prepared and duly fixed assets' gross amount, accumulated depreciation and depreciation for the year have been shown in the accounts for FY 2013-14. PED hereby requests the Hon'ble Commission to approve the actual Gross Fixed Assets opening and additions as submitted above for FY 2013-14.

4.8.3 **Depreciation:** "As per Regulation 26 of JERC Tariff Regulations, depreciation for the assets shall be calculated annually at the rates specified by CERC from time to time. The same have been applied on different asset categories.

4.8.4 PED would like to submit that the depreciation arrived in annual accounts for FY 2013-14 is based on the rates specified by Hon'ble Commission in its Tariff Regulations.

4.8.5 The rates of depreciation for various assets as used are tabulated below:

**Table 4-11: Rate of Depreciation applicable for various assets**

Description of Assets	Rate of Depreciation
Land and Land Rights	--
Building	3.34%
Plant and Machinery	5.28%
Lines and Cables	5.28%
Office Equipment	6.33%
IT Equipment	15.00%
Vehicles	9.50%
Furniture and Fixtures	6.33%
Testing and measuring equipment	5.28%
SCADA centre	5.28%

4.8.6 The following table shows the depreciation arrived by PED for FY 2013-14 based on the approved depreciation rates specified by the Hon'ble Commission for different asset class. The same is reflecting in the annual audited accounts for respective years.

**Table 4-12: Depreciation for FY 2013-14**

Rs. Crs

Particulars	FY 2013-14	
	Approved	Actual
Opening Value of Assets at the beginning of the year	545.84	555.30
Additions during the year	10.00	8.29
Value of Assets sold/ disposed off	-	-
<b>Gross Fixed Asset at the end of the year</b>	<b>555.84</b>	<b>563.59</b>
<b>Net Depreciation for the year</b>	<b>23.65</b>	<b>23.38</b>
<b>Average Depreciation Rate</b>	<b>4.29%</b>	<b>4.18%</b>

4.8.7 The depreciation for FY 2013-14 is almost in line with the cost approved by Hon'ble Commission. The Hon'ble Commission is requested to approve Rs. 23.38 Crs for FY 2013-14 as submitted in the table above.

#### 4.9 Interest & Finance Charge

4.9.1 The Regulation 25 provides for Interest and Finance Charges on Loan. PED has submitted that the majority of capital assets are created out of the equity contribution from Government of Puducherry and the actual borrowing of loan is only to the extent of the R-APDRP schemes. However PED has been claiming interest charges based on normative loan calculation. The Interest and Finance Charges arrived is based on normative loan considered to the extent of capitalization during the year. The table below shows the Interest and Finance Charges vis-a-vis approved

by the Hon'ble Commission for FY 2013-14.

**Table 4-13: Interest & Finance Charges for FY 2013-14**

Rs. Crs

Sr. No.	Particulars	FY 2013-14	
		Approved	Actuals
1	Opening Normative Loan	88.37	98.30
2	Add: Normative Loan during the Year	7.00	5.80
3	Less: Normative Repayment	9.87	9.83
4	<b>Closing Normative Loan</b>	85.50	94.27
5	Average Normative Loan	<b>86.94</b>	<b>96.28</b>
6	Rate of Interest (@SBAR rate)	14.45%	14.45%
7	<b>Interest on Normative Loan</b>	<b>12.56</b>	<b>13.91</b>
8	Other Finance Charges	1.32	3.52
9	<b>Total Interest &amp; Finance Charges</b>	<b>13.88</b>	<b>17.43</b>

4.9.2 It is submitted that it has considered an addition of Rs. 8.29 Crs in the Gross Fixed Assets for FY 2013-14, which are considered funded through normative debt to the tune of 70%. The rate of interest considered is prevailing Prime Lending Rate of the State Bank of India as on 1<sup>st</sup> April of that relevant year.

4.9.3 Along with the normative interest calculated and claimed in the table highlighted above, it is submitted that certain financial charges are also incurred by the department which are related to charges claimed by the bank charges, finance charges, L/C., etc. which are claimed along with the interest in Table 4-13 of the Petition. The increase in the bank charges is due to opening of new L/C to the tune of Rs. 19.5 Cr wherein margin money 10% of it was submitted.

4.9.4 The Hon'ble Commission is requested to approve the Interest & Finance Charges at Rs. 17.43 Crs for FY 2013-14 as shown in the table above. The details of Interest & Finance charges are provided in Format 10A of the Tariff Filing Formats.

#### **4.10 Interest on Working Capital**

4.10.1 Regulation No. 29 of JERC for the State of Goa and Union Territories (Terms and Conditions for Determination of Tariff) Regulations, 2009 stipulates the procedure for calculation of Working Capital and Interest on Working Capital as applicable to Puducherry Electricity Department. This is as shown below:

*(1) For generation and transmission business, the working capital shall be as per CERC norms.*

*(2) Subject to prudence check, the working capital for distribution business shall be the sum of one month requirement for meeting:*

- (a) Power purchase cost,*
- (b) Employees cost,*
- (c) Administration & general expenses and*
- (d) Repair & Maintenance expenses.*

*(3) Subject to prudence check, the working capital for integrated utility shall be sum of one month requirement for meeting:*

- (a) Power purchase cost*
- (b) Employees cost*
- (c) Administration & general expenses*
- (d) Repair & Maintenance expenses.*
- (e) Sum of two month requirement for meeting Fuel cost.*

*(4) The rate of interest on working capital shall be equal to the short term Prime Lending Rate of State Bank of India on the 1st April of the relevant financial year. The interest on working capital shall be payable on normative basis notwithstanding that the generating company / licensee has not taken working capital loan from any outside agency or has exceeded the working capital loan amount worked out on the normative figures.*

4.10.2 The petitioner hereby submits that it has adopted the same methodology adopted by the Hon'ble Commission in its tariff order for FY 2013-14 for arriving at the working capital requirement whereby it has excluded the available security deposits available with the petitioner from the working capital requirement though the same has not been specified in the Regulations.

4.10.3 The Interest on Working Capital approved by the Hon'ble Commission and claimed for FY 2013-14 is Nil since the opening Security Deposit was much higher than the working capital requirement.

**Table 4-14: Interest on Working Capital for FY 2013-14**

Rs. Crs

Sr. No.	Particulars	FY 2013-14	
		Approved	Actual
1	Power Purchase Cost - 1 Month	79.80	82.84
2	Employee Cost - 1 Month	5.39	6.06
3	Administration & General Expenses - 1 Month	0.33	1.12
4	R&M Cost - 1 Month	1.51	0.60
5	Less: Security Deposit Opening Bal.	109.72	95.90
6	<b>Total</b>	<b>(22.69)</b>	<b>(5.28)</b>
7	<b>Interest Rate *</b>	13.00%	13.00%
8	<b>Interest on Working Capital</b>	-	-

#### 4.11 Security Deposits

4.11.1 The Regulation 25 of JERC (for the State of Goa and Union Territories (Terms and Conditions for Determination of Tariff) Regulations, 2009 provides for Interest on Security Deposit, if any, made by the consumer with the licensee. The provision of interest on security deposits is to be made at the bank rate. The prevailing Bank rate is considered at 8.50% for FY 2013-14.

**Table 4-15: Interest on Security Deposit for FY 2013-14**

Sr. No.	Particulars	FY 2013-14	
		Approved	Actuals
1	Opening Security Deposit	95.89	95.90
2	Add: Deposits during the Year	27.66	27.58
3	Less: Deposits refunded		-
4	Less: Deposits in form of BG/FDR		-
5	<b>Closing Security Deposit</b>	<b>123.55</b>	<b>123.48</b>
6	<b>Bank Rate</b>	8.50%	8.50%
7	<b>Interest on Security Deposit</b>	<b>9.33</b>	<b>9.32</b>

4.11.2 The Hon'ble Commission is requested to approve the Interest on Security Deposit of **Rs. 9.32 Crs** for FY 2013-14 as showcased in the table above. However, PED submits that since there has been no payment made to the consumers in relation to the interest on the security deposit, the same has not been claimed in the ARR of the relevant year i.e. FY 2013-14. However, the cumulative adjustment of interest on security deposit in line with the principles adopted by the Hon'ble Commission in Tariff Order dated 25<sup>th</sup> April 2014 has been carried out by PED in the subsequent chapter of this petition.

#### 4.12 Return on Capital Base/ Net Fixed Assets

4.12.1 The proviso of Regulation 23 (2) and Regulation 24 of Tariff Regulations 2009 provides for entitlement for Returns on Capital Base/ Net Fixed Assets by utility /

licensee. Thus, in line with the regulation and the methodology adopted by the Hon'ble Commission in its previous order, PED has calculated the return on capital base at 3%. The summary of the Return on Net Fixed Assets as claimed by the petitioner, as approved by the Hon'ble Commission and as calculated for FY 2013-14 is tabulated below:

**Table 4-16: Return on NFA for FY 2013-14**

Rs. Crs

Particulars	FY 2013-14	
	Approved	Actuals
Gross Block at the beginning of the year	545.84	555.30
Opening CWIP	67.61	56.30
Less: Opening Debts	29.43	251.25
Less: Accumulated Depreciation	255.09	14.21
Net Fixed Assets	328.93	346.13
Less accumulated consumer contribution	-	8.00
Net fixed assets at beginning of the year	<b>328.93</b>	<b>354.12</b>
<b>Reasonable Return @ 3% of NFA</b>	<b>9.87</b>	<b>10.62</b>

4.12.2 In view of above, the Hon'ble Commission is requested to kindly allow the above Return on Net Fixed Assets of **Rs. 10.62 Crs** for FY 2013-14.

#### 4.13 Non-Tariff Income

4.13.1 The Non-Tariff Income comprises metering, late payment charges, interest on staff loans, income from trading, reconnection fee, UI sales/ Sales to Exchanges and miscellaneous income among others. The Non-Tariff Income approved by the Hon'ble Commission in the ARR for FY 2013-14 was Rs. 16.50 Crs.

4.13.2 The details of Non-Tariff Income for FY 2013-14 are provided in **Format 20 of the Tariff Filing Formats**

4.13.3 The summary of total Non-Tariff Income is tabulated below:

**Table 4-17: Non-Tariff Income for FY 2013-14**

Rs. Crs

Sr. No.	Particulars	FY 2013-14	
		Approved	Actuals
1	UI Sales / Sales to Exchange		24.84
2	Income from trading		0.08
3	Misc. Receipts/income		3.35
<b>4</b>	<b>Total income</b>	-	<b>28.28</b>
5	Add: Prior Period income		
<b>6</b>	<b>Total Non Tariff income</b>	<b>16.50</b>	<b>28.28</b>

4.13.4 In view of above, the Hon'ble Commission is requested to kindly allow Non-Tariff



Income of **Rs. 28.28 Crs** for FY 2013-14.

#### 4.14 Revenue from Sale of Power at Existing Tariff

4.14.1 The Revenue from Tariff for FY 2013-14 was Rs. 1,045.82 Crs including FPPCA and Rs. 101.76 Crs as 10% additional Surcharge. The actual revenue earned from tariffs for FY 2013-14 is shown in the table below:

**Table 4-18: Revenue from Tariff for FY 2013-14**

Rs. Crs			
Sr. No.	Category of Consumer	Sales (Mus)	Revenue (Rs. Crs)
		<b>FY 2013-14</b>	
<b>LT Category</b>			
1	Domestic & Cottage	600.00	133.41
2	OHOB	12.09	1.07
3	Commercial	181.00	88.33
4	Agriculture	57.00	1.81
5	Public lighting	26.00	13.89
6	LT Industrial	174.50	76.88
7	Water tank	51.60	23.74
8	Temporary supply - LT&HT	10.10	9.09
	<b>Total LT</b>	<b>1,112.29</b>	<b>348.22</b>
<b>HT Category</b>			
9	HT 1 Industrial / Commercial	878.01	476.26
10	HT 2 - Government & water tank	48.77	27.32
11	HT 3 - EHT	326.65	168.71
12	<b>Total HT</b>	<b>1,253.43</b>	<b>672.29</b>
13	Total from HT & LT	<b>2,365.72</b>	<b>1,020.52</b>
14	FPPCA		22.76
15	10% Surcharge		101.76
16	Provision for accrued bill		2.54
17	<b>Total</b>	<b>2,365.72</b>	<b>1,147.59</b>
	As approved in Tariff Order 25th April 2014	2,406.12	1,084.99

4.14.2 In view of above, the Hon'ble Commission is requested to kindly allow Revenue of Rs. 1,045.82 Crs including FPPCA and Rs. 101.76 Crs as 10% additional Surcharge.

#### 4.15 Aggregate Revenue Requirement for FY 2013-14

4.15.1 The Aggregate Revenue Requirement for FY 2013-14 as approved by the Hon'ble Commission in the Review of ARR for FY 2013-14 was Rs. 1,127.61 Crs. The calculation for Aggregate Revenue Requirement on the basis of actuals (provisional) for FY 2013-14 is shown below:

**Table 4-19: Calculation of ARR for FY 2013-14**

Rs. Crs

Particulars	FY 2013-14		
	Claimed in APR	Approved by Commission	Provisional Actuals
Cost of power purchase including RPO Provision to meet obligation of the previous years	984.77	1,002.78	994.04
Employee costs	69.69	64.73	72.70
Administration and General expenses	3.96	3.96	7.25
R&M expenses	20.15	18.06	13.46
Depreciation	23.65	23.65	23.38
Interest & Finance Charges	4.53	13.88	17.43
Interest on Working Capital + Int on CSD	8.39	7.18	-
Return on NFA /Equity	9.85	9.87	10.14
Provision for Bad Debt	-	-	-
<b>Total Revenue Requirement</b>	<b>1,125.00</b>	<b>1,144.11</b>	<b>1,138.40</b>
Less: Non Tariff Income	16.50	16.50	28.28
<b>Net Aggregate Revenue Requirement</b>	<b>1,108.50</b>	<b>1,127.61</b>	<b>1,110.13</b>

4.15.2 The Petitioner hereby requests the Commission to approve the ARR of Rs. 1,110.13 Crs for FY 2013-14 as submitted above.

#### 4.16 Revenue Gap for FY 2013-14

4.16.1 The Revenue Gap approved by the Hon'ble Commission for FY 2013-14 was Rs. 42.62 Crs.

4.16.2 The Revenue Gap as approved by the Hon'ble Commission and as calculated on the basis of provisional true up of FY 2013-14 is shown in the table below:

**Table 4-20: Revenue Gap for FY 2013-14**

Rs. Crs

Particulars	FY 2013-14	
	Approved	Actuals
Aggregate Revenue Requirement	1,127.61	1,110.13
Revenue from Sale of Power	1084.99	1,045.53
Revenue Gap/(Surplus)	42.62	64.60

4.16.1 The above gap is calculated without considering the 10% surcharge amount levied to consumer in FY 2013-14 as directed in the Tariff Order. PED submits that the 10% surcharge collected has been adjusted against the Regulatory Assets as per the previous Tariff Order and the treatment of the same is explained in the subsequent chapters related to calculation of total revenue gap. However, Hon'ble Commission is requested to approve the revenue gap for FY 2013-14 as shown in the table above.

## CHAPTER 5. ANNUAL PERFORMANCE REVIEW FOR FY 2014-15

### 5.1 Background to FY 2014-15 Petition

5.1.1 PED had filed a petition for review of FY 2013-14 and ARR for FY 2014-15, before the Hon'ble Commission on 20<sup>th</sup> January 2014. The Hon'ble Commission after undertaking a thorough analysis had issued the Tariff Order for Financial Year 2014-15 along with the Annual Review for FY 2013-14 on 25<sup>th</sup> April 2014.

5.1.2 This chapter summarizes each of the components of ARR for FY 2014-15 and requests the Hon'ble Commission to review the performance for FY 2014-15. The Annual Performance Review for FY 2014-15 is based on actual data/ information for first 6 months (First Half – H1) and as per the performance of EDP and estimation/projections for second 6 months (Second Half – H2), wherever applicable. The projections for the second 6 months are arrived at based on the performance over the first half data/ information.

### 5.2 Review for FY 2014-15

5.2.1 The summary of the charges for FY 2014-15 as claimed by the petitioner in the ARR petition and as approved by the Hon'ble Commission in the previous Tariff Order is tabulated below:

**Table 5-1: Review of FY 2014-15**

Rs. Crs.

Particulars	Claimed by Petitioner	Approved by Commission
Cost of Power Purchase	996.73	962.58
Employee Costs	76.28	68.53
A&G Expenses	4.25	4.19
R&M Expenses	20.56	19.12
Depreciation	26.45	26.45
Advance Against Depreciation	-	-
Interest & Finance Charges	5.31	15.63
Interest on Working Capital + Interest on CSD	10.81	9.6
Provision for Bad Debts	Not claimed	NIL
Return @ 3 % of NFA	9.99	10
Interest on SD provision		9.78
Less: Non-Tariff Income	0.5	0.5
<b>Aggregate Revenue Requirement</b>	<b>1149.87</b>	<b>1125.39</b>

### 5.3 Number of Consumers

5.3.1 PED had provided an estimate of 4.13 Lakh consumers in its petition for FY 2014-15 which had been approved by the Hon'ble Commission. Based on the number of

consumers added during the first half of FY 2014-15, PED submits the revised estimates for FY 2014-15 as 4.27 Lakh consumers. A comparison of the revised estimates with earlier approved numbers is shown below:

**Table 5-2: Details of Number of Consumers for FY 2014-15**

Category of Consumers	Approved by Commission	Revised Estimates
<b>LT</b>		
Domestic (incl OHOB)	304,000	317,305
Commercial	45,500	46,511
Agriculture	6,888	6,836
Public Lighting	49,500	49,891
Industrial and Water Tank	6,350	6,424
<b>Total LT</b>	<b>412,238</b>	<b>426,967</b>
<b>HT</b>		
Industrial	411	415
State & Central Govt Esta.	49	51
Industrial EHT	9	7
<b>Total HT</b>	<b>469</b>	<b>473</b>
<b>Total</b>	<b>412,707</b>	<b>427,440</b>

5.3.2 It is requested to the Hon'ble Commission to consider the revised number of consumers as submitted in the above table for FY 2014-15.

#### 5.4 Energy Sales

5.4.1 PED had projected sales of 2,524.7 MUs for FY 2014-15 in the last submission against which the Hon'ble Commission had approved sales of 2502.1 MUs in previous Tariff order. The revised category wise sales based on H1 FY2014-15 are shown in the table below.

**Table 5-3: Sales for FY2014-15**

All figures in MUs

Category of Consumers	Claimed by Petitioner	Approved by Commission	Revised Estimates	
			H1 - (Apr. 2014 - Sep. 2014)	FY 2014-15
<b>LT</b>				
Domestic (incl OHOB)	624.70	620.57	351.97	703.94
Commercial	190.10	179.36	93.92	187.84
Agriculture	57.00	56.63	28.50	57.00
Public Lighting	28.40	29.15	13.00	26.00
Industrial	250.50	271.54	99.56	199.12
Temporary Supply	20.00	20.00	7.00	14.00
<b>Total LT</b>	<b>1,170.70</b>	<b>1,177.25</b>	<b>593.95</b>	<b>1,187.90</b>
<b>HT</b>				
Industrial	980.00	929.28	448.97	897.94
State & Central Govt Esta.	50.00	50.00	29.80	59.60
Industrial EHT	324.00	345.57	167.67	335.34
<b>Total HT</b>	<b>1354.00</b>	<b>1324.85</b>	<b>646.44</b>	<b>1,292.88</b>
<b>Total</b>	<b>2524.70</b>	<b>2502.10</b>	<b>1240.39</b>	<b>2,480.78</b>

5.4.2 PED submits that based on actual H1 sales, the energy sales projected for FY 2014-15 is considered two times considering the average sales growth. It is further submitted that still sales in the industrial sector is not expected to grow as envisaged by the Hon'ble Commission and therefore, the envisaged sales is lower than as approved in the tariff order.

5.4.3 It is requested to Hon'ble Commission to approve the revised sales of 2,480.78 MUs for FY 2014-15.

## 5.5 Distribution Loss & Energy Requirement

5.5.1 PED is submitting revised estimate of 12.60% as the energy loss for FY 2014-15. The Hon'ble Commission had approved energy loss of 12% in FY 2014-15 tariff order. The information regarding the loss levels based on H1 and expected loss level for FY 2014-15 is shown in the table below –

**Table 5-4: Distribution Loss and Energy Balance for FY 2014-15**

S.No	Particulars	FY 2014-15			
		Claimed	Approved	Revised Estimates	
				H1 - (Apr. 2014 - Sep. 2014)	FY 2014-15
A	<b>ENERGY REQUIREMENT</b>				
a	Energy sales in the UT	2,524.70	2,502.09	1,240.17	2,480.78
2	Distribution losses (%age)	12.50%	12.00%	12.73%	12.60%
3	Energy required for the Territory (MU)	2,885.37	2,843.29	1,421.08	2,838.42
4	Add: Sales to common pool Consumers / UI	-	-	41.80	41.80
5	Energy Requirement @ Periphery	<b>2,885.37</b>	<b>2,843.29</b>	<b>1,462.89</b>	<b>2,880.22</b>
B	<b>ENERGY AVAILABILITY</b>				
1	Gross Energy Purchase	2,995.72	2,975.20	1,533.61	3,016.76
2	<b>External losses (MU)</b>	110.35	131.91	70.72	136.54
3	<b>Net Energy Availability</b>	<b>2,885.37</b>	<b>2,843.29</b>	<b>1,462.89</b>	<b>2,880.22</b>

5.5.2 PED submits that it has been achieving significant reduction in distribution losses and is having one of the lower T&D losses in India. These efforts shall be continued and will be enhanced. However, the loss reduction is a slow process and as the loss levels come down further reduction in loss becomes difficult. Since PED has already achieved a distribution loss of 13%, loss reduction trajectory cannot be considered at the same rate considered previously.

5.5.3 PED submits the revised estimates as against the 2,885 MU projected in FY 2014-15 petition. PED hereby submits that the H2 power purchase is projected on the

principles of MOD and accordingly the energy balance has been revised.

- 5.5.4 PED submits that in comparison with the approved figures, actual T&D losses are marginally higher and therefore request the Hon'ble Commission to approve the Distribution Loss of 12.60% for FY 2014-15.

## 5.6 Power Purchase Quantum & Cost for FY 2014-15

### 5.6.1 Cost of Power Purchase for H1 FY 2014-15

- 5.6.1.1 PED meets its total energy requirement from its allocation from the Central Generating Stations (CGS) and state utilities like TANGEDCO, KSEB and PPCL. PPCL is a generating company within the UT of Puducherry catering to Karaikal region of PED. KSEB supplies for Mahe region under the UT of Puducherry. PED also had an additional allocation of power from Kudankulam Nuclear Power Plant and Vallur Thermal Power Project to meet the demand of the Union Territory.

- 5.6.1.2 The table below shows the summary of Power Purchase from various sources along with their costs for the 1<sup>st</sup> half of FY 2014-15 including Transmission Charges, UI charges and purchase from traders.

Table 5-5: Power Purchase Quantum & Cost for H1-FY 2014-15

Power Purchase for H1 of FY 2014-15				
Sr No	Particulars	Purchase (MUs)	Cost (Rs.Cr)	Rate (Rs/Unit)
1	NTPC	575.02	162.94	2.83
2	NLC	445.68	131.04	2.94
3	NPCIL	192.02	47.56	2.48
4	KSEB	20.83	10.93	5.25
5	TANGEDCO	151.22	52.81	3.49
6	PPCL	95.40	38.85	4.07
7	Vallur	40.62	15.62	3.84
8	Transmission Charges		31.24	
9	Over Drawal	25.34	1.38	0.54
	<b>Total</b>	<b>1,546.13</b>	<b>492.37</b>	<b>3.18</b>

## 5.7 Cost of Power Purchase for FY 2014-15

- 5.7.1 **Power Purchase quantum for FY 2014-15 (H1 + H2):** For the year FY 2014-15, EDP has projected the power purchase by considering the actual power purchase for the 1<sup>st</sup> half of the year FY 2014-15 (i.e. Apr 14 – Sep 15) and considering power purchase under the principle of MOD for second half H2 FY 2014-15. The key assumptions for power purchase costs are as under:

- a. **MOD for H2 FY 14-15:** The power purchase for second half has been considered under the principle of MOD. The must run stations has been identified as all the NPCIL plants, KSEB, TNEB and PPCL. The remaining amount

of power is envisaged to be purchased from the remaining available sources. The Power purchase under MOD has been arrived at as follows:

- b. The fixed charges for all the generating stations have been taken same as incurred in H1 for FY 2014-15.
- c. The variable cost for FY 2014-15 has been computed considering actual average variable cost of each source for first six months period of April-September 2014. It is submitted that no escalation of cost has been considered.
- d. The other costs which includes ED, Cess, Incentive, MOPA etc and supplementary charges are considered on actual basis paid in first six months period of April - September 2014 and has not been assumed for H2 at present and may be considered at the time of true-up.
- e. The power purchase cost for power over-drawl from grid is considered on actual basis paid in first six months period of April - September 2014 only. For H2 over-drawl is not assumed under the principle of MOD

**Table 5-6: Power Purchase for H2 of FY 2014-15**

Power Purchase for H2 of FY 2014-15				
Sr No	Particulars	Purchase (MUs)	Cost (Rs.Cr)	Rate (Rs/Unit)
1	NTPC	459.60	136.69	2.97
2	NLC	443.87	128.64	2.90
3	NPCIL	198.18	33.59	1.70
4	KSEB	20.66	10.95	5.30
5	TANGEDCO	277.50	95.98	3.46
6	PPCL	19.55	18.13	9.28
7	Vallur	51.27	17.65	3.44
8	Transmission Charges		32.14	
9	Over Drawal	25.34	1.38	0.54
10	Rebate		-12.49	
	<b>Total</b>	<b>1,495.97</b>	<b>462.67</b>	<b>3.09</b>

- f. Breakdown of PPCL plant in the FY 2014-15 has been considered for six months and hence the generation in H2 has been reduced to that extent. Since the generation is limited to the six months of the Year, the balance

generation has been considered in H2 of FY 2014-15. This has resulted into higher quantum to be procured from TANGEDCO.

- g. PED submits that it is obliged to comply with the Renewable Purchase Obligation of 3%. The RPO compliance cost is also included in the PP cost which was arrived upon as follows.

**Table 5-7: RPO Compliance Cost for FY 2014-15**

Year	Sales	Solar Obligation	Non-Solar Obligation	Solar PO	Non-Solar PO	Solar REC cost	Non-Solar REC Cost	Total Cost
	(MU)	%	%	(MUs)	(MUs)	(Rs/REC)	(Rs/REC)	
2014-15	2,481	0.60%	2.70%	14.88	66.98	9,500	1,500	24.19

As outlined in the above table, the estimated RPO is Rs. 24.19 Crs against which PED has proposed the RPO cost of Rs. 19.78 Crs and for the balance, PED prays the Hon'ble Commission to allow as backlog to be claimed in MYT Control Period.

- h. The Transmission Charges for FY 2014-15 are considered as per POC computation, i.e. Part A - Transmission charge for withdrawal of power and Part B - Transmission charges of generators. However, for H2 calculation, the similar amount as charged in H1 of FY 2014-15 has been considered for calculation of total transmission charges.

5.7.2 Estimated Power Purchase Cost Summary for FY 2014-15 is outlined as below:

**Table 5-8: Power Purchase Cost for FY 2014-15**

Power Purchase for FY 2014-15				
Sr No	Particulars	Purchase (MUs)	Cost (Rs.Cr)	Rate (Rs/Unit)
1	NTPC	1034.62	299.64	2.90
2	NLC	889.55	259.69	2.92
3	NPCIL	390.20	81.15	2.08
4	KSEB	41.49	21.88	5.27
5	TANGEDCO	428.72	148.78	3.47
6	PPCL	114.95	56.98	4.96
7	Vallur	91.90	33.26	3.62
8	Transmission Charges		63.38	
9	Over Drawal	25.34	1.38	0.54
10	Rebate		-12.49	
	<b>Total</b>	<b>3,016.76</b>	<b>953.65</b>	<b>3.16</b>

- 5.7.3 The Petitioner hereby requests the Commission to approve the power purchase cost of Rs. 953.65 Crs (inclusive of rebate) as submitted above.



## 5.8 Operation & Maintenance Expenses

5.8.1 Operation & Maintenance Expenses consists of three elements viz Employee Expenses, A&G Expense and R&M Expense:

- Employee expenses comprise of salaries, dearness allowance, bonus, terminal benefits in the form of pension & gratuity, leave encashment and staff welfare expenses
- Administrative expenses mainly comprise of rents, telephone and other communication expenses, professional charges, conveyance and travelling allowances and other debits.
- Repairs and Maintenance Expenses go towards the day to day upkeep of the distribution network of the Company and form an integral part of the Company's efforts towards reliable and quality power supply as well as in the reduction of losses in the system.

5.8.2 Regulation 27 (3) of JERC for the State of Goa and Union Territories (Terms and Conditions for Determination of Tariff) Regulations, 2009 provides for O&M Expense for a distribution licensee. The relevant regulation is re-produced hereunder:

*“27 (3) O&M expenses for distribution functions shall be determined by the Commission as follows:*

*O&M expenses as approved by the Commission for the first time for a year shall be considered as base O&M expenses for determination of O&M expenses for subsequent years;*

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

5.8.3 **Employee Expenses for FY 2014-15:** PED has computed the O&M (Employee) expense for FY 2014-15 based on the escalation in proportion to WPI as on 1st April 2014 considering base period as the actual audited expenses of FY 2012-13.

5.8.3.1 The employee cost capitalized is also taken into consideration after considering the employee cost linked to accounts with capital nature. Accordingly, PED has revised the employee cost for the current year to Rs. 75.32 Crs and requests the Hon'ble Commission to approve the same.

**Table 5-9: Employee Expenses for FY 2014-15**

Particulars	Claimed by Petitioner	Approved by Commission	Revised Estimates
Employee Expenses (Rs. Cr.)	76.28	68.53	75.32

5.8.3.2 The head wise actual information for employee expenses has been provided in **Format 16 of Tariff Filing Format**. The Petitioner hereby requests the Commission to approve the revised estimates for employee costs as shown above.

5.8.4 **Repairs & Maintenance Expenses for FY 2014-15:** The revised R&M expense for the current year has been arrived as approved by the Hon'ble Commission in the previous tariff order dated 25<sup>th</sup> April 2014.

**Table 5-10: R&M Expenses for FY 2014-15**

Particulars	Claimed by Petitioner	Approved by Commission	Revised Estimates
R&M Expenses (Rs. Cr.)	20.56	19.12	19.12

5.8.4.1 In view of the above, the Hon'ble Commission is requested to kindly allow the above Repair and Maintenance Expenses of Rs. 19.12 Crs for FY 2014-15.

5.8.5 **Administration & General expenses for FY 2014-15:** The administrative expense mainly comprise of rents, professional charges, office expenses, etc against which the expenses incurred by PED has been considered to arrive at the revised estimates for FY 2014-15. However, PED submits that the A&G expenses claimed are as approved by the Hon'ble Commission in Tariff Order dated 25<sup>th</sup> April 2014 and also incentive of Rs. 1.17 Crs to be paid to consumers are considered.

5.8.5.1 The Petitioner submits the revised estimate of Rs. 5.36 Crs as A&G Expense for FY 2014-15 as below and requests Hon'ble Commission to approve the same:

**Table 5-11: A&G Expenses for FY 2014-15**

Particulars	Claimed by Petitioner	Approved by Commission	Revised Estimates
A&G Expenses (Rs. Cr.)	4.25	4.19	5.36

5.8.6 **O&M Expenses Summary FY 2014-15:** Based on the foregoing paragraphs, the revised O&M expenses for the year FY 2014-15 vis-a-vis the approved level by the Hon'ble Commission is shown in the table below:

**Table 5-12: O&M Expenses for FY 2014-15**

Particulars	Claimed by Petitioner	Approved by Commission	Revised Estimates
Employee Expenses	76.28	68.53	75.32
R&M Expense	20.56	19.12	19.12
A&G Expense	4.25	4.19	5.36
<b>Total (Rs. Cr.)</b>	<b>101.09</b>	<b>91.84</b>	<b>99.80</b>

5.8.7 The Hon'ble Commission is requested to approve the O&M Expenses of Rs. 99.80 Crs as shown in the table above. The details of O&M expense for FY 2014-15 are provided in the Formats 13, 15 & 16 of the Tariff Filing Formats.

## 5.9 Capital Work in Progress, GFA and Depreciation

5.9.1 **GFA:** The Opening Balance of GFA for FY 2014-15 comes to around Rs. 563.59 Crs. The additions to GFA are estimated to be around Rs. 48.00 Crs; the details of which are provided in the table below:

**Table 5-13: GFA Revised Estimates**

Rs. Crs

Particulars	Claimed by Petitioner	Approved by Commission	Revised Estimates
Opening Value of Assets at the beginning of the year	551.27	555.84	563.59
Additions during the year	48.00	48.00	48.00
Value of Assets sold/ disposed off	-	-	-
<b>Gross Fixed Assets at the end of the year</b>	<b>599.27</b>	<b>603.84</b>	<b>611.59</b>

5.9.2 PED hereby requests the Hon'ble Commission to approve the revised estimates for Gross Fixed Assets as submitted above.

5.9.3 **Depreciation:** "As per Regulation 26 of JERC Tariff Regulations, depreciation for the assets shall be calculated annually at the rates specified by CERC from time to time. The same have been applied on different asset categories. Accordingly, the depreciation rates as specified by CERC have been adopted for calculation of depreciation.

5.9.4 As per the GFA and the applicable depreciation rates, PED has calculated the depreciation for the year FY 2014-15 as Rs. 30.86 Crs. The table shows the working of depreciation.

**Table 5-14: Depreciation for FY 2014-15**

Rs. Crs

Particulars	Claimed by Petitioner	Approved by Commission	Revised Estimates
Opening Value of Assets at the beginning of the year	551.27	555.84	563.59
Additions during the year	48.00	48.00	48.00
Gross Fixed Assets at the end of the year	599.27	603.84	611.59
<b>Depreciation</b>	<b>26.45</b>	<b>26.45</b>	<b>30.86</b>

5.9.5 PED hereby requests the Commission to approve the revised estimates of depreciation as submitted above.

### 5.10 Interest & Finance Charge

5.10.1 The Regulation 25 provides for Interest and Finance Charges on Loan. EDP has submitted that the majority of capital assets are created out of the equity contribution from Government of Puducherry and the actual borrowing of loan is only to the extent of the R-APDRP schemes. The table below shows the Interest and Finance Charges vis-a-vis approved by the Hon'ble Commission. The Interest and Finance Charges as per the revised estimates for FY 2014-15 is Rs. 19.38 Crs. The summary of Interest and Finance Charges as claimed by the petitioner and as approved by the Commission for FY 2014-15 along with revised estimates is tabulated below:

**Table 5-15: Interest & Finance Charges for FY 2014-15**

Rs. Crs

Sr. No.	Particulars	FY 2014-15		
		Claimed by Petitioner	Approved	Revised Estimates
1	Opening Normative Loan		85.50	94.27
2	Add: Normative Loan during the Year		33.60	33.60
3	Less: Normative Repayment		10.57	9.43
4	<b>Closing Normative Loan</b>		108.53	118.44
5	Average Normative Loan		<b>97.02</b>	<b>106.36</b>
6	Rate of Interest (@SBAR rate)		14.75%	14.75%
7	<b>Interest on Normative Loan</b>	<b>3.99</b>	<b>14.31</b>	<b>15.69</b>
8	Other Finance Charges	1.32	1.32	3.69
9	<b>Total Interest &amp; Finance Charges</b>	<b>5.31</b>	<b>15.63</b>	<b>19.38</b>

5.10.2 It is submitted that it has considered an addition of Rs. 48 Crs in the Gross Fixed Assets for FY 2014-15, which are considered to be funded through normative debt to the tune of 70%. The rate of interest considered is prevailing Prime Lending Rate of the State Bank of India as on 1<sup>st</sup> April of that relevant year.

5.10.3 Along with the normative interest calculated and claimed in the table highlighted above, it is submitted that certain financial charges are also incurred by the department which are related to charges claimed by the bank charges, finance charges, etc. which are claimed along with the interest in Table 5-15 of the Petition

5.10.4 The Hon'ble Commission is requested to approve the Interest & Finance Charges at Rs. 19.38 Crs as shown in the table for FY 2014-15. The details of Interest & Finance charges are provided in Format 10A of the Tariff Filing Formats.

### **5.11 Interest on Working Capital**

5.11.1 Regulation No. 29 of the JERC Tariff Regulations stipulates the procedure for calculation of Working Capital and Interest on Working Capital as applicable to Electricity Department of Puducherry. This is as shown below:

*(1) For generation and transmission business, the working capital shall be as per CERC norms.*

*(2) Subject to prudence check, the working capital for distribution business shall be the sum of one month requirement for meeting:*

*(a) Power purchase cost.*

*(b) Employees cost.*

*(c) Administration & general expenses and*

*(d) Repair & Maintenance expenses.*

*(3) Subject to prudence check, the working capital for integrated utility shall be sum of one month requirement for meeting:*

*(a) Power purchase cost*

*(b) Employees cost*

*(c) Administration & general expenses*

*(d) Repair & Maintenance expenses.*

*(e) Sum of two month requirement for meeting Fuel cost..*

*(4) The rate of interest on working capital shall be equal to the short term Prime Lending Rate of State Bank of India on the 1st April of the relevant financial year. The interest on working capital shall be payable on normative basis notwithstanding that the generating company / licensee has not taken working capital loan from any outside agency or has exceeded the working capital loan amount worked out on the normative figures.*

5.11.2 PED hereby submits that it has adopted the same methodology adopted by the

Hon'ble Commission in its tariff order for FY 2014-15 for arriving at the working capital requirement whereby it has also taken into consideration the available security deposits available with the Petitioner from the working capital requirement though the same has not been specified in the Regulations.

5.11.3 The Interest on Working Capital approved by the Hon'ble Commission in the FY 2014-15 was Nil. On the basis of the revised estimates for FY 2014-15, the interest on working capital comes to Nil.

## 5.12 Security Deposits

5.12.1 The Regulation 25 of JERC for the State of Goa and Union Territories (Terms and Conditions for Determination of Tariff) Regulations, 2009 provides for Interest on Security Deposit, if any, made by the consumer with the licensee. The provision of interest on security deposits is to be made at the bank rate. The prevailing Bank rate is considered at 9 % as notified by Reserve Bank of India with effect from 28<sup>th</sup> January 2014.

**Table 5-16: Interest on Security Deposit for FY 2014-15**

Sr. No.	Particulars	FY 2014-15		
		Claimed by Petitioner	Approved	Revised Estimates
1	Opening Security Deposit		95.89	123.48
2	Add: Deposits during the Year		27.66	27.58
3	Less: Deposits refunded			-
4	Less: Deposits in form of BG/FDR			
5	<b>Closing Security Deposit</b>		<b>123.55</b>	<b>151.06</b>
6	<b>Bank Rate</b>		8.50%	9.00%
7	<b>Interest on Security Deposit</b>	<b>10.81</b>	<b>9.33</b>	<b>12.35</b>
8	Interest on Security Deposit estimated to be paid			<b>4.00</b>
9	<b>Interest on Security Deposit to be provisioned in MYT</b>			<b>8.35</b>

5.12.2 PED submits that even though the total Interest on security deposit is Rs. 12.35 Crs, it is expected that PED would be able to pay Rs. 4.00 Crs to the consumers and the balance is proposed to be paid during MYT Control period. The detailed provision of interest on security deposit to be made in MYT Control period is highlighted separately in subsequent chapter of this Petition. The Hon'ble Commission is requested to approve the Interest on Security Deposit of Rs. 4.00 Crs to be actually estimated to be paid as shown in the table above.

### 5.13 Provision for bad debts

5.13.1 The Hon'ble Commission had directed that the arrears receivable from various consumer categories is to be audited and the age-wise analysis is to be presented in the next filing. PED has already commenced steps to analyse its sundry debtors and arrears, and to obtain an age-wise breakup of the same from the revenue billing system. It also is in the process of reconciling the list of arrears with the sundry debtor balances as per the financial statements. This process is likely to take a significant amount of time and effort.

5.13.2 As PED is in the process of reconciling the list of arrears with the sundry debtor balances as per the financial statements, we are not claiming any provision for bad & doubtful debts in the ARR of FY 2014-15, for pass through in tariff to consumers.

### 5.14 Return on Capital Base/ Net Fixed Assets

5.14.1 The proviso of Regulation 23 (2) and Regulation 24 of Tariff Regulations 2009 provides for entitlement for Returns on Capital Base/ Net Fixed Assets by utility / licensee. Thus, in line with the regulation and the methodology adopted by the Hon'ble Commission in its previous order, PED has calculated the return on capital base at 3%. The summary of the Return on Net Fixed Assets as claimed by the petitioner, as approved by the Commission and as calculated on the basis of revised estimates for FY 2014-15, is tabulated below:

**Table 5-17: Return on NFA for FY 2014-15**

Rs. Cr.

Particulars	FY 2014-15		
	Claimed by Petitioner	Approved	Revised Estimates
Gross Block at the beginning of the year	551.27	555.84	563.59
Opening CWIP	84.09	84.09	102.99
Less: Opening Debts	27.78	27.78	26.37
Less: Accumulated Depreciation	274.63	278.74	274.63
Net Fixed Assets	332.95	333.41	365.58
Less accumulated consumer contribution	-	-	9.92
Net fixed assets at beginning of the year	<b>332.95</b>	<b>333.41</b>	<b>355.66</b>
<b>Reasonable Return @ 3% of NFA</b>	<b>9.99</b>	<b>10.00</b>	<b>10.67</b>

5.14.2 In view of above, the Hon'ble Commission is requested to kindly allow the above Return on Net Fixed Assets of Rs. 10.67 Crs.

### 5.15 Non-Tariff Income

5.15.1 The Non-Tariff Income comprises metering, late payment charges, interest on staff

loans, income from trading, reconnection fee, UI sales/ Sales to Exchanges and miscellaneous income among others. The Non-Tariff Income approved by the Hon'ble Commission in the ARR for FY 2014-15 was Rs. 0.50 Crs.

5.15.2 The details of Non-Tariff Income for FY 2014-15 are provided in Format 20 of the Tariff Filing Formats.

5.15.3 The Non-Tariff Income under this head is clubbed with Revenue from Outside Sales / UI Sales under the broad head of Non-Tariff Income. PED hereby submits that UI Sales was done to the extent of 27.04 MU that fetched an income of Rs. 1.27 Crs. The UI sales in the second half is considered to be Nil as the projections are made on MOD principle that insists no surplus and no deficit of power. The summary of total Non-Tariff Income is tabulated below:

**Table 5-18: Non-Tariff Income for FY 2014-15**

Rs. Cr.

Particulars	Claimed by Petitioner	Approved	Revised Estimates
Revenue from Outside Sales/ UI Sales	NIL	NIL	1.27
Non-Tariff Income	0.5	0.5	3.61
<b>Total (Non-Tariff Income)</b>	<b>0.5</b>	<b>0.5</b>	<b>4.87</b>

5.15.4 In view of above, the Hon'ble Commission is requested to kindly allow Non-Tariff Income of Rs. 4.87 Crs.

## **5.16 Revenue from Sale of Power at Existing Tariff**

5.16.1 The Revenue from Tariff for FY 2014-15 approved by the Hon'ble Commission was Rs. 1,092.86 Crs. The Revenue from Tariff for FY 2014-15 as per revised estimates comes to Rs. 1,253.2 Crs (including FPPCA and Rs. 110.50 Crs as 10% additional Surcharge). The summary of Revenue from Tariff as claimed by PED in the ARR for FY 2014-15, as approved by the Commission and as per revised estimates for FY 2014-15, is tabulated below:



**Table 5-19: Revenue from Tariff for 2014-15**

Sr. No.	Category of Consumer	Sales (Mus)	Revenue (Rs. Crs)
		<b>FY 2014-15</b>	
<b>LT Category</b>			
1	Domestic & Cottage	691.94	167.45
2	OHOB	12.00	1.07
3	Commercial	187.84	93.36
4	Agriculture	57.00	1.81
5	Public lighting	26.00	14.43
6	LT Industrial including Water Tank	199.12	90.22
7	Temporary supply - LT&HT	14.00	12.60
	<b>Total LT</b>	<b>1,187.90</b>	<b>380.94</b>
<b>HT Category</b>			
9	HT 1 Industrial / Commercial	897.94	504.59
10	HT 2 - Government & water tank	59.60	34.66
11	HT 3 - EHT	335.34	187.70
12	<b>Total HT</b>	<b>1,292.88</b>	<b>726.95</b>
13	Total from HT & LT	<b>2,480.78</b>	<b>1,107.89</b>
14	FPPAC		<b>34.83</b>
15	10% Surcharge		110.50
16	<b>Total</b>	<b>2,480.78</b>	<b>1,253.22</b>
	As Claimed by Peititoner in last Tariff Order (including Surcharge)	2,524.70	1,188.67
	As approved in Tariff Order 25th April 2014 (including Surcharge)	2,502.09	1,247.78

5.16.2 The petitioner hereby submits that the revenue as per the revised estimates consists of both FPPCA charges and additional surcharge.

5.16.3 In view of above, the Hon'ble Commission is requested to kindly allow Revenue of Rs. 1,253.22Crs (including FPPCA and Rs. 110.50 Crs as 10% additional Surcharge).

### **5.17 Aggregate Revenue Requirement for FY 2014-15**

5.17.1 The Aggregate Revenue Requirement for FY 2014-15 approved by the Hon'ble Commission in the Tariff order for FY 2014-15 was Rs. 1125.39 Cr. The calculation for Aggregate Revenue Requirement on the basis of revised estimates for FY 2014-15 is shown below:

**Table 5-20: Calculation of ARR for FY 2014-15**

Rs. Crs

Particulars	Claimed by Petitioner	Approved by Commission	Revised Estimates
Cost of Power Purchase	996.73	962.58	973.43
Employee Cost	76.28	68.53	75.32
A&G Expenses	4.25	4.19	5.36
R&M Expenses	20.65	19.12	19.12
Depreciation	26.45	26.45	30.86
Interest & Finance Charges (incl interest on working capital)	16.12	25.23	19.38
Provision for Bad Debts	Not claimed	NIL	NIL
Return @ 3 % of NFA	9.99	10.00	10.67
Provision for interest on security deposit	-	9.78	4.00
Less: Non-Tariff Income	0.50	0.50	4.87
<b>Aggregate Revenue Requirement</b>	<b>1149.87</b>	<b>1125.39</b>	<b>1133.27</b>

5.17.2 PED hereby requests the Hon'ble Commission to approve the ARR of Rs. 1133.27 Crs for FY 2014-15 as submitted above.

### 5.18 Revenue Gap for FY 2014-15

5.18.1 The Revenue Gap as claimed by PED, approved by the Hon'ble Commission for FY 2014-15 and as calculated on the basis of revised estimates is shown in the table below:

**Table 5-21: Revenue Gap for FY 2014-15**

Rs. Crs

Particulars	Claimed by Petitioner	Approved by Commission	Revised Estimates
Aggregate Revenue Requirement	1149.87	1125.39	1133.27
Revenue from Tariff (Excl. Surcharge)	1080.67	1134.59	1142.72
Revenue Gap/ (Surplus)	69.20	-9.20	-9.45

5.18.2 In view of above, the Hon'ble Commission is requested to kindly allow adjusting the Revenue Surplus of FY 2014-15 with the cumulative gap.

## **CHAPTER 6. ANNUAL REVENUE REQUIREMENT FOR MYT CONTROL PERIOD (FY 2015-16 TO FY 2017-18)**

### **6.1 Preamble**

6.1.1 The Joint Electricity Regulatory Commission notified the Joint Electricity Regulatory Commission for the State of Goa and Union Territories (Multi Year Distribution Tariff) Regulations, 2014. As per the same, the Hon'ble Commission shall determine the tariff for the distribution business of electricity under a Multi-Year Tariff framework with effect from April, 2015. Earlier the Joint Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations 2009 were applicable for determination of tariff. The relevant extracts of the JERC MYT regulations, 2014 are given below.

6.1.2 As per JERC MYT Regulations, 2014, MYT petition for a licensee shall be on the basis of the business plan approved by the Hon'ble Commission. The control period is defined as:

*“3.1.6 “Control Period” means multi-year period comprising of three financial years of FY 2015-16 to FY 2017-18, and as may be extended by the Commission, for submission of forecast in accordance with these Regulations;”*

6.1.3 The said MYT Regulations mandates the Distribution license to submit their Multi-Year Business Plans for the Control Period FY 2015-16 to FY 2017-18, which Electricity Department, Puducherry had submitted on 30<sup>th</sup> September 2014 which was in line with the MYT Regulations.

6.1.4 Further in view of a letter dated 29<sup>th</sup> October 2014 from the Hon'ble Commission stating that the regulatory proceedings for the MYT Business Plan and Petition will be carried out together and therefore directing PED to file the MYT petition by 30<sup>th</sup> November 2014. PED along with its Petition dated 24<sup>th</sup> November 2014 has sought for an extension of one month and accordingly the MYT petition has been prepared in line with the MYT Regulations 2014.

6.1.5 Based on the above mentioned regulations, this MYT petition is being filed by the petitioner for the Control Period i.e. FY 2015-16 to FY 2017-18. This chapter provides the details of the expenditure estimates of PED which are the components of the ARR for the entire Control Period from FY 2015-16 to FY 2017-18 which are proposed to be approved by the Hon'ble Commission. Accordingly, the revenue from the existing tariff with the Revenue gap / (surplus) is determined so as to propose the tariff design / proposal for recovery from the consumers during the MYT control

period.

## **6.2 Principles for determination of ARR**

- 6.2.1 This Chapter summarises the Aggregate Revenue Requirement (ARR) for the MYT control period FY 2015-16 to FY 2017-18. The projections for the control period have been made considering the audited figures of FY 2010-11, FY 2011-12 and FY 2012-13. The various components of ARR are determined in the following chapters in line with the MYT Regulations 2014 and in case of any deviation sought, the detail justification for the same has also been provided.
- 6.2.2 PED would like to submit that the Business Plan for PED was developed keeping in mind the growth plan for the MYT Control Period after considering the strengths and weaknesses of the department and evaluating its business environment.
- 6.2.3 However, as mentioned above and in the MYT Business Plan, there are number of internal and external factors which affect the planning of the department and thus, it makes this a very dynamic document and which calls for regular reviews of the plan with a view to introduce any corrections commensurate to the actual implementation of the schemes and other factors. Therefore, within this few months, certain internal and external factors have been undertaken which has resulted in revision of certain cost component in this MYT petition as compared to the same submitted in MYT Business Plan.
- 6.2.4 The Annual Revenue Requirement for the MYT Control Period is projected based on the methodologies as discussed in detail in subsequent paragraphs.

## **6.3 Approach on Sales Projections**

- 6.3.1 The petitioner has adopted the methodology mentioned by the Hon'ble Commission and has taken the compounded annual growth rate (CAGR) of past 3 years of sales and number of consumers of each category as per actual audited sales and has forecasted the sales and number of consumers for the control period FY 2015-16 to FY 2017-18.
- 6.3.2 As the audited book of accounts of FY 2013-14 is in the process of preparation, the corresponding sales and consumers figures pertaining to audited figures of FY 2010-11, FY 2011-12, FY 2012-13 has been used for projection of MYT Control Period.
- 6.3.3 Based on the past sales and number of consumers, the category wise growth rates

for the past audited years and considered CAGR for the projections for the MYT control period is given in the table below which is extrapolated to slab wise sales and Number of Consumers of the corresponding category.

**Table 6-1: Category-wise Growth Rate Considered for Consumers – MYT Period**

Consumer Category	Actual Number of Consumers			CAGR (%)	
	FY 2010-11	FY 2011-12	FY 2012-13	Calculated	Considered
Domestic	236,881	246,437	258,252	4.41%	4.41%
Hut services	38,966	35,466	35,490	0.00%	0.00%
Commercial	40,531	41,943	43,479	3.57%	3.57%
Agriculture (HP)	6,810	6,828	6,859	0.00%	0.00%
Street lighting	48,167	48,384	48,485	0.33%	0.33%
LT Industrial	5,897	5,955	6,057	1.35%	3.00%
Water tanks	58	80	85	21.06%	3.00%
Temporary Supply	-	-	-		
HT Industrial (kVA)(HT-1)	394	401	419	3.12%	3.12%
HT State and Central Govt. Establishments (kVA)(HT-2)	41	43	45	4.76%	4.76%
HT Industrial Extra High Tension (kVA)(HT-3)	7	7	7	0.00%	0.00%
<b>Total</b>	<b>377752.0</b>	<b>385543.7</b>	<b>399178.0</b>	<b>2.80%</b>	

**Table 6-2: Category-wise Growth Rate Considered for Sales – MYT Period**

Consumer Category	Actual Sales (Mus)			CAGR (%)	
	FY 2010-11	FY 2011-12	FY 2012-13	Calculated	Considered
Domestic	508.30	537.20	581.11	6.92%	6.92%
Hut services	10.20	10.00	10.00	0.00%	0.00%
Commercial	156.30	167.70	182.30	8.00%	8.00%
Agriculture (HP)	76.70	56.60	56.80	0.00%	0.00%
Street lighting	22.10	24.00	27.90	12.36%	5.00%
LT Industrial	114.70	133.60	142.53	11.47%	7.00%
Water tanks	35.00	50.80	54.71	25.03%	5.00%
Temporary Supply	7.90	13.70	20.27	60.18%	0.00%
HT Industrial (kVA)(HT-1)	1,005.70	974.50	1,015.38	0.48%	7.00%
HT State and Central Govt. Establishments (kVA)(HT-2)	34.90	45.02	45.48	14.16%	6.00%
HT Industrial Extra High Tension (kVA)(HT-3)	237.40	307.80	338.50	19.41%	6.00%
<b>Total</b>	<b>2209.2</b>	<b>2320.9</b>	<b>2475.0</b>	<b>5.84%</b>	

6.3.4 Based on the above assumptions of growth rate, the projection for the sales/ consumption and number of consumers during the Control Period is given below. The number of consumers considered in this petition is different from the figures furnished in the MYT Business Plan as the provisional actual for FY 2013-14 and FY 2014-15 were finalized after the submission of the Business Plan on which this growth rate has been considered. However, the sales of control period in the Petition is in line with the MYT Business Plan as the escalation of Sales considering CAGR is on the Sales of FY 2014-15 which is in line with the approved figures.

**Table 6-3: Projection of Number of Consumers for MYT Control Period**

Consumer Category	Projected No. of Consumers		
	FY 2015-16	FY 2016-17	FY 2017-18
Domestic	294,202	307,186	320,744
Hut services	35,539	35,539	35,539
Commercial	48,173	49,894	51,676
Agriculture (HP)	6,836	6,836	6,836
Street lighting	50,055	50,220	50,385
LT Industrial	6,504	6,699	6,900
Water tanks	113	117	120
Temporary Supply	-	-	-
HT Industrial (kVA)(HT-1)	428	441	455
HT State and Central Govt. Establishments (kVA)(HT-2)	53	56	59
HT Industrial Extra High Tension (kVA)(HT-3)	7	7	7
<b>Total</b>	<b>441910</b>	<b>456995</b>	<b>472722</b>

**Table 6-4: Projection of Consumption for MYT Control Period**

Consumer Category	Projected Sales (MUs)		
	FY 2015-16	FY 2016-17	FY 2017-18
Domestic	652.84	698.03	746.35
Hut services	10.00	10.00	10.00
Commercial	193.70	209.20	225.93
Agriculture (HP)	56.63	56.63	56.63
Street lighting	30.61	32.14	33.74
LT Industrial	235.98	252.50	270.17
Water tanks	53.55	56.23	59.04
Temporary Supply	21.00	22.05	23.15
HT Industrial (kVA)(HT-1)	994.33	1,063.93	1,138.41
HT State and Central Govt. Establishments (kVA)(HT-2)	53.00	56.18	59.55
HT Industrial Extra High Tension (kVA)(HT-3)	366.30	388.28	411.58
<b>Total</b>	<b>2,667.94</b>	<b>2,845.16</b>	<b>3,034.55</b>

## 6.4 Distribution Loss

6.4.1 PED has been achieving a significant reduction in distribution losses, during recent years. These efforts shall be continued and will be enhanced. However, the loss reduction is a slow process and as the loss levels come down further reduction in loss becomes difficult to a large extent. Since PED has achieved a distribution loss of 13%, loss reduction trajectory cannot be considered at the same rate considered previously. In view of this, it is assumed that the distribution loss will reduce by 0.25% in MYT Control Period as shown in following table:

**Table 6-5: Projection of Consumption for MYT Control Period**

Particulars	Projected Distribution Loss		
	FY 2015-16	FY 2016-17	FY 2017-18
Distribution Loss	11.75%	11.50%	11.25%

6.4.2 PED requests the Hon'ble Commission to approve the Distribution Loss as projected for MYT Control Period.

## 6.5 Energy Balance

6.5.1 While calculating energy balance of PED, the UI sale has not been projected for the control period. Only the sales to its own consumers and the estimated Distribution Loss envisaged during the MYT Control period is considered to determine the power requirement to meet the demand of own consumers.

6.5.2 Based on the projections of Sales and expected distribution loss to be achieved during MYT Control period, the Energy Balance of PED is shown in the following table:

**Table 6-6: Energy Balance for the MYT Control Period**

Sr. No	Projected Energy Balance Statement			
	Particulars	FY 2015-16	FY 2016-17	FY 2017-18
A	<b>ENERGY REQUIREMENT</b>			
a	Energy sales in the UT	2,667.91	2,845.16	3,034.55
2	Distribution losses (%age)	11.75%	11.50%	11.25%
3	Energy required for the Territory (MU)	3,023.13	3,214.87	3,419.21
4	Add: Sales to common pool Consumers / UI	-	-	-
5	Energy Requirement @ Periphery	<b>3,023.13</b>	<b>3,214.87</b>	<b>3,419.21</b>
B	<b>ENERGY AVAILABILITY</b>			
1	Gross Energy Purchase	3,164.80	3,366.54	3,581.54
2	<b>External losses (MU)</b>	141.67	151.66	162.32
3	<b>Net Energy Availability</b>	<b>3,023.13</b>	<b>3,214.87</b>	<b>3,419.21</b>

6.5.3 PED request the Hon'ble Commission to approve the Energy Balance for the MYT Control period as submitted in this petition.

## 6.6 Power Purchase Cost

6.6.1 PED meets its total energy requirement from its allocation from the Central Generating Stations (CGS) and state utilities like TANGEDCO, KSEB and PPCL. PPCL is a generating company within the UT catering for Karaikal region of PED to the extent of 33 MW. KSEB supplies for Mahe region under the UT of Puducherry.

6.6.2 For estimating the power purchase cost for the control period, merit order principles have been considered. While full fixed (capacity) charges have been considered for all the plants, the variable charges corresponding to the cheaper sources of power

have been considered, whereas no variable charges have been considered in respect of energy not scheduled for power purchase (according to the merit order dispatch principles).

- 6.6.3 PED submits that within the MYT Control period, it is expected that there will be an additional allocation of power from new generating stations getting commissioned during the period of MYT. The details of such plant as expected are as outlined below:

**Table 6-7: Additional Allocation of Power during Control Period**

Name of the plant*	Expected Commercial Operation Date	Size of the Plant (MW)	Allocation to PED (%)
NLC TPS II (Expn)	April 2016	500 MW	3.53%
Tuticorin NLC project	April 2015	1000 MW	1.00%

**\*- Power purchase from NLC TPS II expansion and Tuticorin NLC project are subject to signing of MoU and CoD of the plant and projected based on available data**

- 6.6.4 Following assumptions have been considered for projecting the quantum and cost of power purchase:

- **Share Allocation:** The petitioner has considered the firm allocation and allocation from the unallocated quota from the above stations as per the notification of the Southern Region Power Committee vide SRPC Order No: SRPC/SE-I/5(REA)/2014 dated 22<sup>nd</sup> October 2014.
- **Fixed Charges:** The Tariff Regulations for the tariff period FY 2014-19 have recently been notified by CERC. However, CERC has not issued the tariff orders for the respective period for the central generating stations based on the new regulations. In absence of the tariff orders, PED has considered the Annual Fixed Charges of FY 2014-15 (H1 actuals) as base year for each generating station for the purpose of estimation of the fixed charges which is escalated by 4% for calculation of Fixed Cost of the Control period.
- **Variable Charges:** PED has considered the actual average variable cost of H1 of FY 2014-15 for consideration of per unit variable charges for various plants and has escalated the cost by 5% y-o-y during the control period.
- No other costs such as ED, Cess, Incentive, MOPA etc and supplementary charges are considered during MYT Control period and may be considered at the time of



true-up.

- PED has considered the nuclear plants, as must run and has not subjected them to merit order dispatch. Also, TNEB (Karaikal), KSEB and PPCL have been considered as must run and not subject to merit order principles.
- For determining the power purchase cost, merit order dispatch principles have been applied. The must-run stations have been assumed at the top of the merit order and variable cost incurred for meeting the energy requirement within the UT has been calculated from the plants at the top of the merit order.
- Fixed Charges from all the generating stations (irrespective of the merit order) have been considered for arriving at the power purchase cost.
- UI Over-drawal/ Under-drawal: As per the merit order principles adopted for estimating the energy requirement for the control period, no surplus sale of power has been considered for the control period and power purchase corresponding to meeting the requirement. The UI over-drawal has not been considered for the control period. Further, the UI over-drawal/ under-drawal quantum and amount would be submitted at the time of true-up based on the actual performance during the year based on the actual UI bills.
- **PGCIL losses:** Losses have been assumed at 5% and at 4% for TNEB. For PPCL and KSEB the external losses have been considered as nil as they are within the periphery of the licensee area.
- **Transmission Charges:** The petitioner has considered the transmission charges for FY 2014-15 as a base rate and has accordingly calculated the transmission charges per unit for PGCIL and has escalated the same by 5% y-o-y. For POSOCO and PCKL the FY 2014-15 charges have been escalated by 5% y-o-y for the control period.
- **RPO Cost for the Control Period:**
  - As per Joint Electricity Regulatory Commission for State of Goa & Union Territories (Procurement of Renewable Energy) Regulations, 2010 and as amended on 19th February 2013, quantum of Renewable Purchase Obligations has been specified for each year whereby each distribution licensee needs to purchase electricity (in kWh) from renewable energy

sources, at a defined minimum percentage of the total consumption of all the consumers in its area during a year.

- PED submits that it is obliged to comply with the Renewable Purchase Obligation and therefore has projected the RPO cost for MYT Control Period.
- PED further submits that the RPO obligations can be met either through the purchase of energy from renewable sources or through REC certificates. However, considering the availability of the Renewable Power, PED has proposed to procure REC against the RPO. The price considered is the prevailing floor price of REC certificates which is as per the latest CERC order dated August 23' 2011, which is Rs. 9300 per MWh for Solar and Rs. 1500 per MWh for non-solar. It is submitted that CERC has proposed the reduction of solar price but final regulation are still awaited. Therefore, in the petition, the current prevailing price has been considered for calculation of RPO.
- PED further submits that it is implementing DSM based efficient lighting programme (DELP) under demand side management programme in the UT of Puducherry along with Energy Efficiency Services Limited (EESL). However, the impact of the proposed energy savings based on energy efficiency/ DSM measures undertaken by PED for the control period is not highlighted in the Power Purchase Cost and the same will be undertaken at the time of True-up. It is submitted that the assessment of energy saving will be undertaken after 6 months of implementation of scheme. As of date 6 lakh bulbs have been distributed against target of 7.2 lakh.
- The RPO cost for the control period based on the percentage of solar and non-solar RPO specified by JERC is tabulated below considering the floor price of solar and non-solar RECs.

**Table 6-8: RPO Cost for the Control Period**

Year	Sales	Solar Obligation	Non-Solar Obligation	Solar PO	Non-Solar PO	Solar REC cost	Non-Solar REC Cost	Total Cost
	(MU)	%	%	(MUs)	(MUs)	(Rs/REC)	(Rs/REC)	
2015-16	2,667.91	0.85%	2.70%	22.68	72.03	9,300	1,500	31.89
2016-17	2,845.16	1.15%	2.80%	32.72	79.66			42.38
2017-18	3,034.55	1.50%	2.80%	45.52	84.97			55.08

6.6.5 The petitioner would like to bring to the notice of the Hon'ble Commission that in respect of the obligation for purchase of solar energy, PED plans to purchase the energy generated from the following solar PV projects envisaged to be setup under various Government/ private/ NGO sectors, to meet its RPO under solar category.

- PED has confirmed its willingness to avail power to the extent of 10 MW of solar power, allocated by MNRE under Phase 2 Batch-I of JNNSM at a levelised tariff of Rs. 5.50/ kWh.
- Two number of PSU's namely Pondicherry Co-op Spinning Mills and Pondicherry State Co-op Sugar Mill have proposed to setup grid connected solar PV plants in their factory premises of capacities 4MW and 5MW respectively with the support of EESL and SECL.
- PED has given its consent to purchase the entire power generated from the solar PV power plant of capacity 5 MW proposed to be set-up at Karaikal, by PPCL.
- Considering the vast potential for setting up of solar PV plants in the UT of Puducherry, PED has planned to set-up its own ground mounted solar PV plants of capacity 1 MW each at five locations (four in Puducherry region and one in Yanam region) with technical support of SECI during FY 2015-16. Further the department also plans to set-up roof-top solar PV plants on the roofs of Government buildings with an aggregated capacity of ~5 MW during FY 2016-17.

6.6.6 It is submitted to the Hon'ble Commission that PED has not considered the quantum and the cost of purchase of power from these plants as these are still at nascent stage. The purchase of power from these plants will be included in the ARRs of the subsequent years, once the plants commission and start supplying power to PED.

6.6.7 The details of the power purchase available vis-à-vis power procured under MOD principle in the MYT Control period as well as the power procurement cost including the transmission charges, RPO Charges and Rebate has been outlined in the following table:

**Table 6-9: Power Available and Power Procurement (MoD) for Control Period**

Sr. No.	Source	Capacity (MW)	Firm allocation to Licensee		Avail. / PLF (in %)	Gross Generation (MU)	Aux consumption (%)	Net Generation (MU)	External losses (%)	Energy recd. by Licensee (MU)	Power Available			Power Procurement (MoD)		
			%	MW							Net Mus at Distribution Periphery					
											2015-16	2016-17	2017-18	2015-16	2016-17	2017-18
1	2	3	4		5	6	7	8	9	10	11	12	13	14	15	16
<b>A</b>	<b>Central Sector Power Stations</b>															
<b>I</b>	<b>NTPC</b>	<b>5600</b>	<b>3.63%</b>	<b>203</b>		<b>1,500.59</b>		<b>1,383.15</b>		<b>1,313.99</b>	<b>1,313.99</b>	<b>1,313.99</b>	<b>1,313.99</b>	<b>1,092.20</b>	<b>1,050.62</b>	<b>1,246.06</b>
	RSTPS Stage I & II	2100	4.47%	94	85.00%	698.96	6.50%	653.52	5%	620.85	620.85	620.85	620.85	620.85	615.05	620.85
	RSTPS Stage -III	500	4.74%	24	83.00%	172.32	6.50%	161.12	5%	153.06	153.06	153.06	153.06	35.79		153.06
	Talcher Stage- II	2000	3.44%	69	85.00%	512.28	10.50%	458.49	5%	435.57	435.57	435.57	435.57	435.57	435.57	435.57
	Simhadri Stage- II	1000	1.67%	17	80.00%	117.03	6.00%	110.01	5%	104.51	104.51	104.51	104.51			36.58
<b>II</b>	<b>NLC</b>	<b>2390</b>	<b>5.88%</b>	<b>141</b>		<b>1,143.44</b>		<b>1,018.55</b>		<b>967.62</b>	<b>842.04</b>	<b>967.62</b>	<b>967.62</b>	<b>842.04</b>	<b>967.62</b>	<b>967.62</b>
	NLC TPS II Stage I	630	12.09%	76	95.00%	633.86	12.00%	557.80	5%	529.91	529.91	529.91	529.91	529.91	529.91	529.91
	NLC TPS II Stage II	840	3.53%	30	85.00%	220.79	10.00%	198.71	5%	188.77	188.77	188.77	188.77	188.77	188.77	188.77
	NLC TPS I (Expn)	420	4.06%	17	95.00%	141.91	8.50%	129.84	5%	123.35	123.35	123.35	123.35	123.35	123.35	123.35
	NLC TPS II (Expn)	500	3.53%	18	95.00%	146.88	10.00%	132.19	5%	125.59		125.59	125.59	-	125.59	125.59
<b>III</b>	<b>NPCIL</b>	<b>2320</b>	<b>3.53%</b>	<b>82</b>		<b>539.43</b>		<b>485.49</b>		<b>461.21</b>	<b>362.12</b>	<b>461.21</b>	<b>461.21</b>	<b>362.12</b>	<b>461.21</b>	<b>461.21</b>
	MAPS	440	1.82%	8	70.00%	49.11	10.00%	44.19	5%	41.98	41.98	41.98	41.98	41.98	41.98	41.98
	KAPS Stage I	880	4.09%	36	82.00%	258.54	10.00%	232.68	5%	221.05	221.05	221.05	221.05	221.05	221.05	221.05
	Kudankulam	1000	3.78%	38	70.00%	231.79	10.00%	208.61	5%	198.18	99.09	198.18	198.18	99.09	198.18	198.18
<b>IV</b>	<b>Others</b>	<b>2000</b>	<b>1.35%</b>	<b>27</b>	<b>160.00%</b>	<b>531.03</b>		<b>517.68</b>		<b>496.87</b>	<b>496.87</b>	<b>505.52</b>	<b>514.43</b>	<b>496.87</b>	<b>505.52</b>	<b>514.43</b>
	Others	0	0.00%	-	0.00%	-	0.00%	-	0%	-	-	-	-	-	-	-
	TNEB (Pondy)	0	0.00%	-	0.00%	-	0.00%	-	0%	-	-	-	-	-	-	-
	TNEB (Karaikal)	0	0.00%	-	0.00%	300.32	0.00%	300.32	4%	288.31	288.31	296.96	305.86	288.31	296.96	305.86
	Vallur Thermal Project	1000	1.70%	17	80.00%	119.14	6.50%	111.39	5%	105.82	105.82	105.82	105.82	105.82	105.82	105.82
	Tuticorin NLC Project	1000	1.00%	10	80.00%	70.08	8.00%	64.47	5%	61.25	61.25	61.25	61.25	61.25	61.25	61.25
	KSEB	0	0.00%	-		41.49	0.00%	41.49	0%	41.49	41.49	41.49	41.49	41.49	41.49	41.49
<b>B</b>	<b>Within State Generations</b>															
	<b>PPCL</b>	32.5	100.00%	33	85.00%	242.00	5.00%	229.90	0%	229.90	229.90	229.90	229.90	229.90	229.90	229.90
<b>C</b>	<b>Total</b>	<b>12,343</b>	<b>4%</b>	<b>485</b>		<b>3,956.49</b>		<b>3,634.76</b>		<b>3,469.59</b>	<b>3,244.91</b>	<b>3,478.24</b>	<b>3,487.15</b>	<b>3,023.13</b>	<b>3,214.87</b>	<b>3,419.21</b>

\*The availability of power from these plants is subject to signing of MoU/ CoD of the plant in the years considered for power purchase.

**Table 6-10: Power Procurement Cost for Control Period**

Sr. No.	Source	Purchase (MU)			VC (Ps./ kWh)			VC (Rs.Cr)			FC (Rs. Cr)			TC (Rs. Cr)		
		2015-16	2016-17	2017-18	2015-16	2016-17	2017-18	2015-16	2016-17	2017-18	2015-16	2016-17	2017-18	2015-16	2016-17	2017-18
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
<b>A</b>	<b>Central Sector Power Stations</b>															
<b>I</b>	<b>NTPC</b>	<b>1,149.69</b>	<b>1,105.92</b>	<b>1,311.64</b>	<b>212.86</b>	<b>221.49</b>	<b>241.45</b>	<b>244.72</b>	<b>244.95</b>	<b>316.70</b>	<b>96.36</b>	<b>100.22</b>	<b>104.22</b>	<b>341.08</b>	<b>345.17</b>	<b>420.93</b>
	RSTPS Stage I & II	653.52	647.42	653.52	251.98	264.58	277.81	164.68	171.30	181.55	33.75	35.10	36.51	198.43	206.40	218.06
	RSTPS Stage -III	37.67	-	161.12	262.68	275.82	289.61	9.89	-	46.66	11.98	12.46	12.96	21.88	12.46	59.62
	Talcher Stage- II	458.49	458.49	458.49	153.00	160.65	168.68	70.15	73.66	77.34	39.82	41.42	43.07	109.97	115.07	120.41
	Simhadri Stage- II	-	-	38.50	262.61	275.74	289.53	-	-	11.15	10.80	11.23	11.68	10.80	11.23	22.83
<b>II</b>	<b>NLC</b>	<b>886.35</b>	<b>1,018.55</b>	<b>1,018.55</b>	<b>227.09</b>	<b>238.54</b>	<b>250.47</b>	<b>201.28</b>	<b>242.97</b>	<b>255.12</b>	<b>67.90</b>	<b>88.01</b>	<b>91.53</b>	<b>269.19</b>	<b>330.98</b>	<b>346.65</b>
	NLC TPS II Stage I	557.80	557.80	557.80	228.92	240.36	252.38	127.69	134.07	140.78	36.71	38.18	39.71	164.40	172.25	180.48
	NLC TPS II Stage II	198.71	198.71	198.71	228.85	240.29	252.30	45.47	47.75	50.14	12.61	13.11	13.63	58.08	60.86	63.77
	NLC TPS I (Expn)	129.84	129.84	129.84	216.57	227.40	238.77	28.12	29.53	31.00	18.59	19.33	20.10	46.71	48.86	51.11
	NLC TPS II (Expn)	-	132.19	132.19	-	239.19	251.15	-	31.62	33.20	-	17.39	18.09	-	49.01	51.29
<b>III</b>	<b>NPCIL</b>	<b>381.18</b>	<b>485.49</b>	<b>485.49</b>	<b>301.60</b>	<b>319.31</b>	<b>335.27</b>	<b>114.97</b>	<b>155.02</b>	<b>162.77</b>	-	-	-	<b>114.97</b>	<b>155.02</b>	<b>162.77</b>
	MAPS	44.19	44.19	44.19	212.88	223.52	234.70	9.41	9.88	10.37	-	-	-	9.41	9.88	10.37
	KAPS Stage I	232.68	232.68	232.68	313.24	328.90	345.34	72.89	76.53	80.36	-	-	-	72.89	76.53	80.36
	Kudankulam	104.31	208.61	208.61	313.24	328.90	345.34	32.67	68.61	72.04	-	-	-	32.67	68.61	72.04
<b>IV</b>	<b>Others</b>	<b>517.68</b>	<b>526.68</b>	<b>535.96</b>	<b>320.54</b>	<b>337.36</b>	<b>355.05</b>	<b>165.94</b>	<b>177.68</b>	<b>190.29</b>	<b>30.00</b>	<b>31.20</b>	<b>32.45</b>	<b>195.94</b>	<b>208.89</b>	<b>222.75</b>
	Others	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	TNEB (Pondy)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	TNEB (Karaikal)	300.32	309.33	318.61	364.35	382.57	401.70	109.42	118.34	127.98	15.72	16.35	17.01	125.15	134.69	144.99
	Vallur Thermal Project	111.39	111.39	111.39	207.79	218.18	229.08	23.15	24.30	25.52	11.17	11.62	12.08	34.31	35.92	37.60
	Tuticorin NLC Project	64.47	64.47	64.47	210.00	220.50	231.53	13.54	14.22	14.93	3.11	3.23	3.36	16.65	17.45	18.29
	KSEB	41.49	41.49	41.49	477.98	501.88	526.97	19.83	20.82	21.86	-	-	-	19.83	20.82	21.86
<b>B</b>	<b>Within State Generations</b>															
	PPCL	229.90	229.90	229.90	300.26	315.27	331.03	69.03	72.48	76.10	26.09	27.14	28.22	95.12	99.62	104.33
<b>C</b>	<b>OTHER CHARGES</b>													<b>73.78</b>	<b>82.48</b>	<b>86.83</b>
	PGCIL Transmission Charges, Wheeling & Other Charges													71.78	80.39	84.63
	POSO													1.05	1.10	1.16
	PCKL													0.95	0.99	1.04
<b>D</b>	<b>RPO Compliance Cost</b>													31.89	42.38	55.08
<b>E</b>	<b>Rebate</b>													(13.10)	(13.94)	(14.83)
<b>F</b>	<b>Total</b>	<b>3,164.80</b>	<b>3,366.54</b>	<b>3,581.54</b>	<b>251.50</b>	<b>265.29</b>	<b>279.48</b>	<b>795.93</b>	<b>893.10</b>	<b>1,000.98</b>	<b>220.36</b>	<b>246.57</b>	<b>256.43</b>	<b>1,108.87</b>	<b>1,250.59</b>	<b>1,384.50</b>

6.6.8 With respect to the above submission, PED requests the Hon'ble Commission to approve the total quantum and cost of power purchase for the control period based on merit order principles as summarized above.

## 6.7 Employee Expense

6.7.1 Based on the MYT Regulations, the employee cost projected for the Control Period is based on Average WPI Index of last three years i.e. 7.42% which is escalated considering employee cost of FY 2014-15 as the base period as provided below.

**Table 6-11: Employee expense for the Control Period**

<b>Projected Employee Cost for MYT Control Period</b>			
<b>Particulars</b>	<b>FY 2015-16</b>	<b>FY 2016-17</b>	<b>FY 2017-18</b>
Total Employee Cost	93.50	100.44	107.90
Less: Add/Deduct share of others	1.44	1.55	1.66
Less: Amount capitalized	11.16	11.98	12.87
Net Employee Cost	80.91	86.91	93.36

6.7.2 The impact of 7th pay Commission is not considered while projecting the expenses for the control period. However, in case the same is implemented by the Central Government, PED would be submitting the impact of the same at the time of filing the true-up petition.

6.7.3 PED requests the Hon'ble Commission to approve the employee expenses as projected for the Control Period.

## 6.8 A&G Expense

6.8.1 PED submits that it has been witnessing the decreasing trend in the number of employees in past and therefore arriving at the norm for determination of A&G expenses linked with the number of employees may result into the lower A&G expenses in ARR and resulting in lower realisation of revenue. Therefore, it is requested to determine the norms considering all the parameters which take care of the efficiency, financial viability and recovery of the legitimate cost. Based on the MYT Regulations, the employee cost projected for the Control Period is based on average WPI Index of last three years i.e. 7.42% which is escalated considering A&G cost of FY 2014-15 as the base period as provided below.

**Table 6-12: A&G Expenses for the Control Period**

<b>Projected A&amp;G Cost for MYT Control Period</b>			
<b>Particulars</b>	<b>FY 2015-16</b>	<b>FY 2016-17</b>	<b>FY 2017-18</b>
Total A&G Cost	5.76	6.18	6.64

6.8.2 PED requests the Hon'ble Commission to approve the A&G expense projected for the MYT Control Period.

## 6.9 Repair and Maintenance Expenses

6.9.1 Based on the past trend of R&M expenses in % to GFA, an average of 3% is the trend for the last 5 years. Therefore in line with the regulation, EDP proposes "K-factor" as 3% for projection of R&M expenses for the control period. The R&M expense for the control period is as follows.

**Table 6-13: R&M Expenses for the Control Period**

Projected R&M Cost for MYT Control Period			
Particulars	FY 2015-16	FY 2016-17	FY 2017-18
Total R&M Cost	18.35	21.90	27.87

6.9.2 PED requests the Hon'ble Commission to approve the R&M expense and "K-Factor" as projected for the Control Period.

## 6.10 Details of Capital Expenditure during MYT Control Period

### 6.10.1 Introduction

6.10.1.1 The distribution network of PED is old and it has been continuously upgrading and strengthening its network to cater quality and reliable power services to its increasing consumer base.

6.10.1.2 The distribution network of PED needs to be developed and strengthened in such a way that demand of such rising consumers can be met. The majority of the capital expenditure during the control period is required to address this demand requirement. This section discusses the scheme wise capital expenditure and funding of the same to be carried out by PED for the MYT control period.

### 6.10.2 Details of Capital Expenditure

6.10.2.1 PED plans to carry out the capital expenditure during the control period for augmentation and expansion of its capacity and to reduce the transmission and distribution loss in the system. The works to be carried out are with an intention to maintain a reliable and efficient system.

6.10.2.2 The following are the proposed capital expenditure to be carried out in the upcoming years of the control period:

**Table 6-14: Proposed Capital Expenditure for the Control Period**

Sr. No.	Particulars	FY 2015-16	FY 2016-17	FY 2017-18
<b>A</b>	<b>Transmission Schemes</b>	<b>Rs. Crs</b>		
1	Establishment of New Substations	65.35	65.35	68.95
2	Laying of New Lines	18.00	18.00	24.00
3	Augmentation of System Capacity	10.79	10.79	14.00
4	Renovation and Modernization Works of Existing Capacity	14.10	14.10	15.80
5	Replacement of Capacitor Banks	1.50	1.50	2.00
6	Land Acquisition	3.17	3.17	-
7	Erection/ establishment/ upgradation of 230kV and 110kV Substations	18.69	19.62	20.61
	<b>Total Transmission</b>	<b>131.60</b>	<b>132.53</b>	<b>145.35</b>
<b>B</b>	<b>Distribution Schemes</b>	<b>Rs. Crs</b>		
1	R-APDRP Part-A Works	4.81	4.81	-
2	R-APDRP Part-B Works	35.34	35.34	-
3	System Improvement Schemes	7.20	7.80	8.00
4	Development Schemes	9.85	10.35	10.50
5	Rural Electrification (BNP)	0.70	0.75	0.80
6	100% Metering Programme	3.60	3.75	4.00
7	Conversion of HT Overhead lines into UG cables	4.32	4.54	4.77
	<b>Total Distribution</b>	<b>65.82</b>	<b>67.34</b>	<b>28.07</b>
	<b>Total Capital Expenditure</b>	<b>197.42</b>	<b>199.87</b>	<b>173.42</b>

6.10.3 Detailed scheme wise capital expenditure is given in Annexure 5, Annexure 6 and Annexure 7 of this Petition.

6.10.4 As seen from the table, majority of the capital expenditure is diverted towards establishment of new substations and system strengthening under R-APDRP works. Also significant amount of capital expenditure is towards renovation and modernization / augmentation of system capacity. The proposed capital expenditure will definitely be helpful to achieve the loss targets set by PED in its distribution loss trajectory and to meet any additional load surging due to increase in demand.

### 6.11 R-APDRP Schemes

6.11.1 The Ministry of Power/ Government of India, in its 11th five year plan had launched the Restructured APDRP scheme. The objective of the Restructured APDRP Scheme is to provide quality and reliable power supply to the consumers and to bring down the AT&C losses.

6.11.2 Restructured Accelerated Power Development and Reforms Programme (R-APDRP) focuses on:



- ✓ Actual demonstrable performance in loss reduction;
- ✓ Establishment of reliable and automated systems for sustained collection of accurate base line data and
- ✓ Adoption of information technology in the areas of accounting and auditing which will enable objective evaluation of the programme of utility before and after implementation of the programme.

6.11.3 It is a centrally sponsored scheme. Under the programme, the Government of India has sanctioned projects that aim at establishment of reliable and automated systems for sustained collection of accurate base line data and the adoption of information technology in the area of energy accounting. The Power Finance Corporation has been nominated as the nodal agency to make the above program operational.

6.11.4 The project is being carried out in two parts where

PART A: will cover preparation of base-line data for the project area covering consumer indexing, GIS mapping, metering of distribution transformers and feeders and automatic data logging for all distribution transformers and feeders. It will also include adoption of IT applications for meter reading, billing and collection, energy accounting and auditing.

PART B: covers renovation, modernisation and strengthening of 11kV Sub Station and distribution systems.

6.11.5 Puducherry will be sharing Data Centre and Data Recovery Centre with Tamil Nadu as suggested by PFC and has appointed M/s ITI, Bangalore in consortium with M/s Navayuga Infotech Pvt. Ltd as the IT implementing agency (ITIA).

6.11.6 PED has proposed to carry out a detailed study of the existing network for evolving DPR for works covered under Part-B scheme through consultant. DPR for part-B for Puducherry town has been submitted to PFC.

6.11.7 CPRI, Bangalore has been appointed as SCADA/ DMS consultant (SDC) and the DPR for SCADA/DMS has been submitted to PFC.

## **6.12 Funding of Capital Expenditure**

6.12.1 PED plans on funding majority of its capital expenditure through loan from Japan International Co-Operation Agency (JICA). The works carried out under R-APDRP (Part A&B) is funded by Power Finance Corporation.

6.12.2 **Loan from JICA:** PED is in the process of availing the proposed JICA loan at the earliest to carry out significant improvement in the transmission and distribution system in the UT of Puducherry.

6.12.3 Snapshot of the proposed JICA loan:

- A cost estimate for executing various transmission and distribution works amounting to Rs. 700 Cr.
- The cost of works in the transmission system is estimated at Rs. 264.00 Cr primarily focusing on provision of new substations, augmentation of substations, renovation and modernization of existing substations including new transmission lines, EHV cable system and capacitor banks.
- The works for distribution system strengthening is estimated at Rs. 436 Cr covering provision of new HT Feeders, HT and LT cables, high voltage distribution system (HVDS), automatic power factor controller (APFC panels) in distribution transformer's (DT's), new DT's and replacement of aged transformers with energy efficient DT's and AMR/AMI Metering System.
- The above improvement works are planned for long term and the works are to be planned accordingly.

6.12.3.1 The funding pattern of PED for its proposed capital expenditure plan is submitted as follows.

**Table 6-15: Funding of CAPEX for the Control Period**

Sr. No.	Sources of Funds	Component	FY 2015-16	FY 2016-17	FY 2017-18
1	Japan International Co-Operation Agency (JICA)	Debt	112.91	112.91	124.75
2	Power Finance Corporation (PFC)	Debt/ Grant*	40.15	40.15	-
<b>A</b>	<b>Total Debt (1+2)</b>		<b>153.06</b>	<b>153.06</b>	<b>124.75</b>
3	PED Funding from Budgetary Allocation	Equity	44.36	46.81	48.68
<b>B</b>	<b>Total Equity (3)</b>		<b>44.36</b>	<b>46.81</b>	<b>48.68</b>
<b>C</b>	<b>Total Capital Expenditure (A+B)</b>		<b>197.42</b>	<b>199.87</b>	<b>173.43</b>
<b>D</b>	<b>Debt : Equity Ratio</b>		<b>78:22</b>	<b>77:23</b>	<b>72:28</b>

\* PFC disbursement may be converted as grant on achieving the targets.

6.12.4 Based on the above funding the average debt equity ratio is 75:25. However the ratio may change based on the change in the debt component.

6.12.5 With respect to JICA loan, the process of availing the loan is still at a nascent stage and therefore the loan profile at present cannot be determined. However, it is

expected that the servicing of the JICA loan including the hedging and interest cost will be ~6%. Therefore, PED submits that the details about the JICA loan and the servicing of the same will be submitted to the Hon'ble Commission once the details are finalized.

6.12.6 The disbursement from PFC has been availed against the scheme under R-APDRP Part A and B. As per the Central Government scheme the same may be converted into grant if the operational targets are achieved. In case of non-achievement of those operational targets the same disbursements will be considered as loan which may have an interest rate of 12% - 13%. Therefore this is an early stage at present to consider the PFC disbursement as loan or grant.

6.12.7 With respect to the above submission, PED requests the Hon'ble Commission to approve the capital expenditure and funding of the capital expenditure as submitted.

### 6.13 Gross Fixed Assets and Depreciation

6.13.1 PED has proposed capitalisation of the assets during the control period in the ratio of 60:40 of the capital expenditure whereby 60% of the capitalisation in the first year and 40% in the succeeding years of the control period.

6.13.2 Also, as per regulation 23 of the MYT regulations, 2014, depreciation shall be calculated for each year of the Control Period on the original cost of the fixed assets of the corresponding year.

6.13.3 The rate of depreciation considered is as per the CERC (Terms and Conditions of Tariff) Regulations, 2014.

**Table 6-16: GFA and Depreciation for the Control Period**

Particulars	FY 2015-16	FY 2016-17	FY 2017-18
Opening Value of Assets at the beginning of the year	611.59	730.04	928.93
Additions during the year	118.45	198.89	184.01
Gross Fixed Assets at the end of the year	730.04	928.93	1,112.94
<b>Depreciation</b>	35.21	43.45	53.44
<b>Average Depreciation Rate</b>	5.25%	5.24%	5.23%

6.13.1 In view of the above, the Hon'ble commission is requested to allow the depreciation charges as provided above for the control period.

## 6.14 Interest on Loan

6.14.1 As per regulation 24 (b) of MYT Regulations, 2014,

*“(b) If the equity deployed is more than 30% of the capital cost, equity in excess of 30% shall be treated as normative loan.*

*Provided that where equity actually deployed is less than 30% of the capital cost, the actual loan shall be considered for determination of interest on loans.*

*(e) The repayment for the control period shall be deemed to be equal to the depreciation allowed for the year.”*

6.14.2 The Interest on loan for the Control Period based on MYT regulations, 2014 is tabulated below.

**Table 6-17: Interest on Loan for the Control Period**

Sr. No.	Particulars	FY 2015-16	FY 2016-17	FY 2017-18
1	Opening Normative Loan	118.44	166.15	261.92
2	Add: Normative Loan during the Year	82.92	139.22	128.80
3	Less: Normative Repayment	35.21	43.45	53.44
4	<b>Closing Normative Loan</b>	<b>166.15</b>	<b>261.92</b>	<b>337.28</b>
5	Average Normative Loan	142.30	214.03	299.60
6	Rate of Interest (@SBAR rate)	0.15	0.15	0.15
7	<b>Interest on Normative Loan</b>	<b>20.99</b>	<b>31.57</b>	<b>44.19</b>
8	Other Finance Charges	3.88	4.07	4.28
9	<b>Total Interest &amp; Finance Charges</b>	<b>24.87</b>	<b>35.64</b>	<b>48.47</b>

6.14.3 It is submitted that it has considered a normative debt funding of 70% on capitalization of fixed assets during MYT Control period. The rate of interest considered is prevailing Prime Lending Rate of the State Bank of India as on 1st April of that relevant year.

6.14.4 Along with the normative interest calculated and claimed in the table highlighted above, it is submitted that certain financial charges are also incurred by the department which are related to charges claimed by the bank charges, finance charges, etc. which are claimed along with the interest in Table 6-17 of the Petition.

6.14.5 The Hon’ble Commission is requested to approve the Interest & Finance Charges proposed during the MYT Control period and as provided in Format 10A of the Tariff Filing Formats.

## 6.15 Interest on Working Capital

6.15.1 As per Regulation 25 of JERC MYT Regulations, 2014, interest on Working Capital for

retail supply activity of the licensee shall consist of for one month:

- Receivables for two months of billing
- Less power purchase cost of one month
- Less consumer security deposit but excluding bank guarantee/ fixed deposit receipt
- Inventory for two months based on annual requirement for previous year.

6.15.2 PED submits that in the MYT Regulations, Inventory for two months has been specified to be excluded from the Working Capital Requirement. However, PED submits that the inventory is the part of the assets whereby the working capital is blocked and hence may not be excluded / subtracted from the working capital requirement but need to be added in estimating the whole working capital requirement and therefore same has been added in the Petition formats. The interest on working capital considered is the base rate for SBI on the 01<sup>st</sup> April of the relevant financial year.

6.15.3 However, the interest on working capital claimed by PED for the control period is nil.

## **6.16 Provision for Bad Debts**

6.16.1 As per Clause 32 of MYT Regulations, 2014 it is stated that

*Bad and doubtful debt shall be limited to 1% of the receivables in the true-up, subject to the condition that amount of bad and doubtful debt is actually written-off in the licensee's books of accounts.*

6.16.2 Since the amount is to be claimed at the time-up of true-up limited to 1% of the receivables, the same is not claimed in the MYT Petition and may be claimed at the time of true-up in case such cost has been incurred.

## **6.17 Interest on Security Deposits**

6.17.1 PED submits that MYT Regulations 2014 is silent for claiming of interest on security deposit however, clause 29 (b) of the Regulations under the head "Non-Tariff Income" states that Interest on security deposits, in excess of the rate specified by the Commission shall be considered as Non Tariff income of the Licensees.

6.17.2 PED feels that there is a contradiction to the clause and the amount to be claimed under the Interest on Security Deposit and therefore, PED has claimed interest on security deposit in line with the Regulation 25 of JERC (for the State of Goa and Union Territories (Terms and Conditions for Determination of Tariff) Regulations, 2009. The provision of interest on security deposits is to be made at the bank rate

and therefore the prevailing Bank rate of 9 % as notified by Reserve Bank of India with effect from 28<sup>th</sup> January 2014 is considered.

**Table 6-18: Interest on Security Deposit for MYT Control Period**

Sr. No.	Particulars	FY 2015-16	FY 2016-17	FY 2017-18
1	Opening Security Deposit	151.06	178.64	206.22
2	Add: Deposits during the Year	27.58	27.58	27.58
5	<b>Closing Security Deposit</b>	<b>178.64</b>	<b>206.22</b>	<b>233.79</b>
6	<b>Bank Rate</b>	9.00%	9.00%	9.00%
7	<b>Interest on Security Deposit</b>	<b>14.84</b>	<b>17.32</b>	<b>19.80</b>

6.17.3 PED submits that deposit during the year is considered equivalent to FY 2013-14 amount. The Hon'ble Commission is requested to approve the Interest on Security Deposit as proposed in the MYT Petition.

### 6.18 Return on Capital Base/ Net Fixed Assets

6.18.1 The proviso of Regulation 27 of MYT Regulations 2014 provides for entitlement for Return on Equity. As per the regulations, RoE is allowed @16% on 30% of the capital base or actual equity, whichever is lower. However, assets funded by consumer contribution, capital subsidies/grants and corresponding depreciation shall not form part of the capital base.

6.18.2 In line with the regulation and the methodology proposed in the MYT Regulations, 2014, PED has calculated the Return on Equity as outlined in the following table for MYT Control Period.

**Table 6-19: Return on Equity for Control Period.**

Rs. Cr.

Sr. No.	Particulars	R.E	Ensuing Year (Projection)		
		FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
1	2		3	4	5
1	Gross block of the year	611.59	730.04	928.93	1,112.94
2	Less accumulated depreciation	305.50	340.71	384.16	437.60
3	Less accumulated consumer contribution	9.92	9.92	9.92	9.92
4	<b>Net Capital Base of the year</b>	<b>296.17</b>	<b>379.41</b>	<b>534.85</b>	<b>665.41</b>
5	Equity - 30% of Net Capital Base	88.85	113.82	160.46	199.62
6	<b>Return on Equity - 30%</b>		<b>16.21</b>	<b>21.94</b>	<b>28.81</b>

6.18.3 PED submits that the RoE claimed during each year of the control period is calculated on an average basis and therefore, the capital base of FY 2014-15. In view of above, the Hon'ble Commission is requested to kindly allow the above Return on Equity as submitted in the petition for the MYT control Period.

## 6.19 Non-Tariff Income

6.19.1 The amount received by the licensee on account of non-tariff Income shall be deducted from the aggregate revenue requirement in calculating the net revenue requirement of such licensee. The non-tariff Income comprises of metering, late payment charges, interest on staff loans, income from trading, reconnection fee, UI sales/ Sales to Exchanges and miscellaneous income among others. However, sales from UI has not been considered in MYT Control Period and therefore income from the same is not highlighted and other component of non-tariff income has been escalated by 5%.

6.19.2 The details of the non-tariff income are provided in Format 20 of the Tariff filing formats and the same is also outlined in the following table:

**Table 6-20: Non-Tariff Income for the Control Period**

Particulars	FY 2015-16	FY 2016-17	FY 2017-18
Non-Tariff Income	3.79	3.98	4.17

6.19.3 PED requests the Hon'ble commission to approve the non-tariff income as projected for the Control Period.

## 6.20 Revenue from Sale of Power at Existing Tariff

6.20.1 The Revenue from Tariff for MYT Control period based on the existing tariff is outlined below for assessing the Revenue gap / (surplus) for the Control period.

**Table 6-21: Revenue from Sale of Power for the Control Period**

Sr. No.	Category of Consumer	Sales (Mus)	Revenue (Rs. Crs)	Sales (Mus)	Revenue (Rs. Crs)	Sales (Mus)	Revenue (Rs. Crs)
		FY 2015-16		FY 2016-17		FY 2017-18	
<b>LT Category</b>							
1	Domestic & Cottage	652.84	159.27	698.03	170.03	746.35	181.53
2	OHOB	10.00	1.07	10.00	1.07	10.00	1.07
3	Commercial	193.70	96.29	209.20	103.81	225.93	111.93
4	Agriculture	56.60	1.81	56.63	1.81	56.63	1.81
5	Public lighting	30.61	16.47	32.14	17.15	33.74	17.87
6	LT Industrial including Water Tank	289.53	130.92	308.72	139.58	329.21	148.82
7	Temporary supply - LT&HT	21.00	18.90	22.05	19.85	23.15	20.84
	<b>Total LT</b>	<b>1,254.28</b>	<b>424.73</b>	<b>1,336.77</b>	<b>453.30</b>	<b>1,425.01</b>	<b>483.86</b>
<b>HT Category</b>							
9	HT 1 Industrial / Commercial	994.33	552.52	1,063.93	587.99	1,138.41	625.89
10	HT 2 - Government & water tank	53.00	32.10	56.18	34.29	59.55	36.64
11	HT 3 - EHT	366.30	203.76	388.28	215.66	411.58	228.26
12	<b>Total HT</b>	<b>1,413.63</b>	<b>788.37</b>	<b>1,508.40</b>	<b>837.93</b>	<b>1,609.54</b>	<b>890.79</b>
13	<b>Total from HT &amp; LT</b>	<b>2,667.91</b>	<b>1,213.10</b>	<b>2,845.16</b>	<b>1,291.23</b>	<b>3,034.55</b>	<b>1,374.65</b>

6.20.2 PED hereby submits that the revenue as per the revised estimates does not consist of FPPCA charges and additional surcharge. In view of above, the Hon'ble Commission is requested to kindly allow Revenue at existing tariff as proposed for MYT Control Period.

## 6.21 ARR for the Control Period

6.21.1 Based on the parameters discussed above, the projection of Annual Revenue Requirement (ARR) of PED for the MYT Control Period is as follows:

**Table 6-22: ARR for the Control Period**

Sr. No.	Item of expense	Proposed by licensee		
		FY 2015-16	FY 2016-17	FY 2017-18
1	2	3	4	5
1	Cost of fuel			
2	Cost of power purchase	1,108.87	1,250.59	1,384.50
3	Employee costs	80.91	86.91	93.36
4	R&M expenses	18.35	21.90	27.87
5	Administration and General expenses	5.76	6.18	6.64
6	Depreciation	35.21	43.45	53.44
7	Interest charges (including interest on working capital)	24.87	35.64	48.47
8	Return on NFA /Equity	16.21	21.94	28.81
9	Provision for Bad Debt			
10	Interest on Consumer Security Deposit	14.84	17.32	19.80
<b>11</b>	<b>Total Revenue Requirement</b>	<b>1,305.01</b>	<b>1,483.95</b>	<b>1,662.89</b>
12	Less: Non Tariff Income	3.79	3.98	4.17
<b>13</b>	<b>Net Revenue Requirement (11-12)</b>	<b>1,301.22</b>	<b>1,479.97</b>	<b>1,658.72</b>

6.21.2 The Annual Revenue Requirement for the control period is based on certain assumptions with respect to current projection and expected strategic plans to be undertaken in future. However, the impacts of any uneven internal or external parameters have not been considered in the current projections. While PED would aggressively pursue the goals envisaged in the Petition, however a change in such assumed parameters may impact the operational performance.

## 6.22 Revenue Gap for MYT Control Period

6.22.1 The revenue gap as calculated on the basis of the projection for MYT Control Period is shown in the table below:



**Table 6-23: Revenue Gap for the Control Period**

<b>Particulars</b>	<b>FY 2015-16</b>	<b>FY 2016-17</b>	<b>FY 2017-18</b>
Aggregate Revenue Requirement	1301.22	1479.97	1658.72
Revenue from Tariff (Excl. Surcharge)	1213.10	1291.23	1374.65
Revenue Gap/ (Surplus)	88.12	188.74	284.07
Total Revenue Gap/ (Surplus) for MYT		560.93	

6.22.2 In view of above, the Hon'ble Commission is requested to kindly allow the total revenue gap of MYT Control Period of Rs. 560.93 to be recovered during FY 2015-16 to FY 2017-18.

6.22.3 PED in the subsequent chapters has proposed the required tariff hike to recover the total gap from FY 2009-10 to FY 2017-18 after adjusting the Regulatory Assets with the surcharge collected as directed by the Hon'ble Commission.

## **CHAPTER 7. ADDITIONAL CLAIMS, REGULATORY ASSETS AND TOTAL REVENUE GAP**

### **7.1 Preamble**

- 7.1.1 PED in determining the ARR and retails supply tariff for the MYT control period i.e. FY 2015-16 to FY 2017-18 has been guided by the provisions of the Electricity Act 2003, National Tariff Policy, MYT Regulations 2014 and any other applicable law, enactments, Orders, etc as amended from time to time.
- 7.1.2 PED submits that this section covers the additional claims apart from the revenue gap claimed while computing ARR of the respective years, treatment of regulatory assets as approved by the Hon'ble Commission and the total revenue gap to be recovered in MYT Control period i.e. FY 2015-16 to FY 2017-18.
- 7.1.3 This section overall provides a detailed overview of each and every claim considered in calculation of total revenue gap of PED. Also the revenue gap comprises of the Gap / (Surplus) of six years (i.e. From FY 2011-12 to FY 2017-18) whereas the treatment of regulatory assets have been considered for 4 years (i.e. from FY 2009-10 to FY 2012-13) in line with the previous tariff order and the recovery against the regulatory assets.

### **7.2 Additional Claim**

- 7.2.1 PED submits that in the previous tariff order dated 25<sup>th</sup> April 2014, apart from the approval of ARR for FY 2014-15, the Hon'ble Commission has also allowed two additional cost components such as Provision on Security deposits as well as RPO Obligations which are claimed on a cumulative basis in the MYT Petition. PED has calculated each component for the respective years and has claimed the same in Revenue Gap as a separate component after adjusting the actual cost already claimed in the respective years. The detailed justifications are as outlined below:

#### **7.2.2 Interest on Security Deposit Provision**

- 7.2.2.1 PED submits that the interest on security deposit to the consumers were not paid for previous years and accordingly the Hon'ble Commission has not allowed the same during the true-up of FY 2009-10 and FY 2010-11 and also during provisional true-up for FY 2011-12.
- 7.2.2.2 PED submits that due to delay in abstraction of security deposit data of old LT consumers, the payment of interest on security deposit to such consumers are delayed.

7.2.2.3 In the last tariff order dated 25<sup>th</sup> April 2014, the Hon'ble Commission has given directions to make payment on the interest on security deposit due to the consumers and accordingly the provision of the amount of pending interest on security deposit due to the consumers was allowed in the ARR of FY 2014-15. This provision was allowed considering that this provisioning would enable PED to discharge its obligations and make all pending payments in this regard. Considering the obligations of making payment to the consumers, the Hon'ble Commission allowed interest on security deposit from FY 2009-10 to FY 2011-12 and FY 2013-14 in Tariff Order dated 25<sup>th</sup> April 2014 and for FY 2012-13 in Tariff Order dated 10<sup>th</sup> April 2013. The details of Interest on security deposit allowed by the Hon'ble Commission are highlighted in the table below:

**Table 7-1: Interest on Security Deposit allowed by Hon'ble Commission**

Particulars	Interest on Security Deposit approved by JERC (Rs. Crs)						Total
	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	
Bank Rate (%age)	6.00%	6.00%	6.00%	9.50%	8.50%	8.75%	
Interest on Security Deposit (Rs Cr)	2.99	3.18	3.61	12.67	7.18	9.60	39.22
Total provisioning (Rs Cr)	9.78			29.44			
Tariff Order Date	25th April 2014			15th April 2013	25th April 2014		

7.2.2.4 As can be outlined from the above table, the total security deposit allowed by the Hon'ble Commission is ~Rs. 39.22 Crs from FY 2009-10 to FY 2014-15. In tariff order dated 25<sup>th</sup> April 2014, in the interest of the stakeholders, the Hon'ble Commission has allowed the provisions of the pending amount to be paid as interest on security deposit for the FY 2009-10 to FY 2011-12 in the ARR of FY 2014-15.

7.2.2.5 PED submits that since the interest on security deposit were not paid in past years i.e. from FY 2009-10 to FY 2013-14, the same has not been included in the computation of ARR. Also, of the total liability of interest on security deposit to be payable to consumers, ~Rs. 4 Crs is estimated to be paid to the consumers in FY 2014-15. However, PED request the Hon'ble Commission to allow the provisions of actual security deposit from FY 2009-10 to FY 2014-15 (after excluding estimated amount to be paid in FY 2014-15), to be included in the Revenue Gap to be recovered in the MYT control period from FY 2015-16 to FY 2017-18.

7.2.2.6 PED hereby submits the detailed calculation of provisions of interest on security deposit estimated to be paid to the consumers in MYT Control period as outlined in the following table:

**Table 7-2: Interest on Security Deposit allowed by Hon'ble Commission**

Sr. No.	Particulars	Previous Year (Audit)		Previous Year (Provisional)	Current Year (Rev.Est)
		FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15
1	2	3	4	5	6
1	Opening Security Deposit	64.25	73.03	95.90	123.48
2	Add: Deposits during the Year	8.78	22.87	27.58	27.58
3	Less: Deposits refunded	-	-	-	-
4	Less: Deposits in form of BG/FDR	-	-		
5	<b>Closing Security Deposit</b>	<b>73.03</b>	<b>95.90</b>	<b>123.48</b>	<b>151.06</b>
6	<b>Bank Rate</b>	6.00%	9.50%	8.50%	9.00%
7	<b>Interest on Security Deposit *</b>	<b>4.12</b>	<b>8.02</b>	<b>9.32</b>	<b>12.35</b>
8	<b>Cumulative Security Deposit of Past Years</b>	<b>33.82</b>			
9	<b>Security Deposit Paid</b>	-	-	-	<b>4.00</b>
10	Balance Security Deposit to be Paid during control Period	<b>29.82</b>			

7.2.2.7 In line with the above submission, PED request the Hon'ble Commission to allow the provision of unpaid security deposit of Rs. 29.82 Crs to be included in the total revenue gap to be recovered in MYT control period i.e. FY 2015-16 to FY 2017-18.

### 7.2.3 Cumulative RPO

7.2.3.1 As per Joint Electricity Regulatory Commission for state of Goa & Union Territories (Procurement of Renewable energy) Regulations, 2010 and as amended on 19<sup>th</sup> February 2013, quantum of Renewable Purchase Obligations has been specified for each year whereby each distribution licensee needs to purchase electricity (in kWh) from renewable energy sources, at a defined minimum percentage of the total consumption of all the consumers in its area during a year.

7.2.3.2 PED submits that it is obliged to comply with the Renewable Purchase Obligation but however it has not been able to meet its RPO targets for the previous years, starting FY 2010-11.

7.2.3.3 It is submitted that PED currently does not purchase power from renewable energy sources and to meet this obligation, it purchases Renewable Energy Certificates. Considering the importance of development and promotion of renewable power; PED has already initiated the action for procurement of renewable power and has planned to purchase actual energy from solar power projects likely to be setup in UT of Puducherry.

7.2.3.4 PED further submits that Ministry of New and Renewable Energy (MNRE) has confirmed allocation of 10 MW of solar power under batch 1 phase 2 of JNNSM

Scheme at the levelised tariff of Rs. 5.50 per unit for 25 years. PED has already sent necessary communication for availing 10 MW Solar Power to Solar Energy Corporation of India.

7.2.3.5 It is submitted that these are futuristic action to meet the RPO for the future period by PED. However, the backlog of RPO of the previous year from FY 2010-11 onwards is required to be fulfilled of which part has already been completed by purchase of non-solar RECs in FY 2014-15. PED requests the Hon'ble Commission to allow fulfilment of RPO commitment including the backlog of the previous year's till FY 2013-14 during the MYT Control Period.

7.2.3.6 PED further submits that the RPO obligations can be met either through the purchase of energy from renewable sources or through REC certificates. However, considering the availability of the renewable power, PED has proposed to clear the backlog through purchase of RECs at the prevailing floor price, as per the latest CERC order dated August 23' 2011, which is Rs. 9300 per MWh for solar and Rs. 1500 per MWh for non-solar. It is submitted that CERC has proposed the reduction of solar price but final regulation are still awaited. Therefore, in the petition, the current prevailing price has been considered for calculation of RPO commitment. PED proposes to buy the backlog of RECs in the MYT Control period and request the Hon'ble Commission to approve the same.

7.2.3.7 PED submits that the provisioning of RPO cost in the accounts is based on the accrual basis which debits the power purchase cost to the limit of RPO to be purchased and not actually purchased. Therefore reconciliation of RPO cost between provision and actually purchased is highlighted in the following table:

**Table 7-3: Reconciliation of RPO cost with accounts (Provision vis-à-vis actually paid)**

Particulars	Rs. Crs
<b>RPO Claimed in the accounts</b>	
FY 2011-12	-
FY 2012-13	8.65
FY 2013-14	15.71
<b>Total RPO claimed in Accounts</b>	<b>24.36</b>
<b>RPO actually Purchased</b>	
FY 2012-13	7.31
FY 2013-14	17.05
<b>Total RPO Actually Purchased</b>	<b>24.36</b>
Amount additionally claimed to be set off in RPO Calculations	-

7.2.3.8 The actual REC purchased by PED are outlined in the following table:

**Table 7-4: Actual REC Purchased**

Sr. No	Type of REC	MUs Purchase	Cost (Rs. Crs)	Purchase Date
1.	Non-Solar	48	7.31	26/12/2012
2.	Non-Solar	50	7.61	26/12/2013
3.	Non-Solar	62	9.44	26/03/2014
4.	Non-Solar	19	13.78	Proposed in FY 2014-15
5.	Solar	6	6.00	
<b>6.</b>	<b>Total Non-Solar</b>	<b>185</b>	<b>38.14</b>	
<b>7.</b>	<b>Total Solar</b>	<b>6</b>	<b>6.00</b>	
<b>8.</b>	<b>Total RPO</b>	<b>191</b>	<b>44.14</b>	

7.2.3.9 The net cumulative backlog of RPO till FY 2014-15 after adjusting the actual REC purchased during the period of FY 2011-12 to FY 2014-15 to be purchased in MYT Control Period are outlined in the following table:

**Table 7-5: Cumulative RPO to be claimed in MYT Control Period**

S.No	Description	Unit	Previous Year (Audit)			Previous Year (Provisional)	Current Year (Rev.Est)	Cumulative RPO to be purchased in Control Period
			FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	
1	Sales Within State	MUs	2,182.48	2,321.29	2,474.98	2,365.72	2,480.78	
2	RPO Obligation	%	<b>1.00%</b>	<b>2.00%</b>	<b>3.00%</b>	<b>3.00%</b>	<b>3.30%</b>	
	- Solar	%	0.25%	0.30%	0.40%	0.40%	0.60%	
	- Non Solar	%	0.75%	1.70%	2.60%	2.60%	2.70%	
3	RPO Obligation	<b>MUs</b>	<b>21.82</b>	<b>46.43</b>	<b>74.25</b>	<b>70.97</b>	<b>81.87</b>	<b>295.34</b>
	- Solar	MUs	5.46	6.96	9.90	9.46	14.88	<b>46.67</b>
	- Non Solar	MUs	16.37	39.46	64.35	61.51	66.98	<b>248.67</b>
4	Actual RPO Purchased	<b>MUs</b>	-	-	<b>48.00</b>	<b>112.00</b>	<b>25.00</b>	<b>185.00</b>
	- Solar	MUs	-	-	-	-	6.00	<b>6.00</b>
	- Non Solar	MUs	-	-	48.00	112.00	19.00	<b>179.00</b>
5	Cumulative RPO Obligation	<b>MUs</b>	<b>21.82</b>	<b>68.25</b>	<b>94.50</b>	<b>53.47</b>	<b>110.34</b>	<b>110.34</b>
	- Solar	MUs	5.46	12.42	22.32	31.78	40.67	40.67
	- Non Solar	MUs	16.37	55.83	72.18	21.69	69.67	69.67
6	Floor Price of REC Certificates /MWH							<b>Rs. 48.27 Crs</b>
	- Solar	Rs./MWH			9300			Rs. 37.82 Crs
	- Non Solar	Rs./MWH			1500			Rs. 10.45 Crs
7	Excess RPO claimed in ARR	Rs. Crs						Rs. 0.00 Crs
8	<b>Net RPO Cost to be claimed in MYT Control Period</b>	<b>Rs. Crs</b>						<b>Rs. 48.27 Crs</b>

7.2.3.10 Based on above submission, PED requests the Hon'ble Commission to allow net cumulative backlog of RPO to be purchased during the MYT Control Period.

### **7.3 Treatment of Regulatory Assets and Net Gap:**

#### **7.3.1 Regulatory Asset**

7.3.1.1 In a general term, Regulatory assets include previously-incurred losses that are in the nature of deferred expenditure and that can be recovered from consumers in future if allowed by regulatory authorities.

7.3.1.2 As per the Guidance Note on Accounting for Rate Regulated Activities, issued by ICAI, a Regulatory Asset is defined as follows:

*“A regulatory asset is an entity’s right to recover fixed or determinable amounts of money towards incurred costs as a result of the actual or expected actions of its regulator under the applicable regulatory framework”*

7.3.1.3 The National Tariff Policy has also prescribed guidelines for allowing the facility of regulatory assets to be recovered with carrying cost. In cases where regulatory asset is proposed to be adopted, it should be ensured that the return on equity should not become unreasonably low in any year so that the capability of the licensee to borrow is not adversely affected.

7.3.1.4 It is submitted that a distribution business is a regulated business whereby the business activities creates a gap between operational and accounting situations that would not have arisen in the absence of such regulation. With cost-of-service regulation, there is a direct link between the costs that an entity is expected to incur and its expected revenue as the rates is set to allow the entity to recover its expected costs. However, there could be a significant time lag between incurrence of costs by the entity and their recovery through tariffs. Recovery of certain costs may be provided for by regulation either before or after the costs are incurred. Also, the need for creation of regulatory assets can be due to any or all of the following reasons:

- such as infrequent revision of tariffs,
- variation in the actual and estimated values of major expenditure along with their reasons and treatment;
- gap between the total validated expenditure and total estimated revenue;
- difference between the cost estimated and approved by the appropriate authority;
- effect of prescribed and achieved milestones for loss reduction and sharing of efficiencies and losses;

#### **7.3.2 Creation of Regulatory Assets**

7.3.2.1 As specified under Tariff Order dated 12<sup>th</sup> June 2012, the Hon'ble Commission was of the opinion that creation of regulatory asset is unavoidable in view of the accumulation of revenue gap from the period FY 2009-10 to FY 2012-13 due to load growth, increase in power purchase costs, and increase in other costs and no tariff revision since FY 2009-10. In the said tariff order, the issue of the regulatory assets was dealt in line which is stated as below:

*“The gap for FY 2012-13 along with the approved revenue gap of the previous years from FY 2009-10 to FY 2011-12 of Rs. 320.56 Cr is considered as Regulatory Asset to be amortized in the subsequent years. The option to liquidate the whole revenue gap would result in huge tariff increases for each of the consumer categories, which may not be in the best interest of the consumers and the licensee.*

.....

*In line with the JERC Tariff Regulations, the proposed regulatory asset would be amortised over a period of three years starting from FY 2013-14”.*

7.3.2.2 Considering the above order, the Hon'ble Commission has allowed to amortise the regulatory assets as approved over a period of three years starting from FY 2013-14. The Hon'ble Commission increased the tariff for FY 2013-14 and bridged the gap for the year and also approved an additional surcharge of 10% over the revenue from tariff excluding OHOB and Agriculture consumers. The Hon'ble Commission also suggested requesting the government to avail a one time support of Rs. 360.28 Crs. PED would like to submit that the decision on the same is being considered by the Government of Puducherry.

### 7.3.3 Recovery of Regulatory Assets

7.3.3.1 As specified under Tariff Order dated 12<sup>th</sup> June 2012, the recovery of the regulatory asset was initiated from FY 2013-14 onwards. PED submits that the calculation of regulatory assets has been revised as compared to the amount approved in Tariff Order dated 12<sup>th</sup> June 2012, 10<sup>th</sup> April 2013 and 25<sup>th</sup> April 2014 due to the fact that the current Regulatory assets has been worked out based on the actual audited accounts for FY 2011-12 and FY 2012-13.

7.3.3.2 The calculation of the recovery of Regulatory Assets (10% Surcharge) is carried out independently and has not been included in the Revenue of the relevant year in which it was collected. Therefore, the gap of FY 2012-13 and FY 2013-14 is calculated purely on the basis of the revenue charged to the consumers excluding the surcharge calculated and the cost incurred in that corresponding year. The 10% surcharge as collected from consumers in FY 2013-14 and FY 2014-15 are



adjusted against the regulatory assets which is the cumulative revenue gap from FY 2009-10 to FY 2012-13.

7.3.3.3 The calculation of the regulatory assets and the recovery of the same from the consumers are outlined in the following table:

**Table 7-6: Cumulative Gap calculation over the years**

Rs. Crs

Sr. No.	Item of expense	Proposed by licensee	Approved by Commission	Revised by Licensee
1	FY 2009-10	59.54	59.54	59.54
2	FY 2010-11	96.19	96.19	96.19
3	FY 2011-12	371.00	346.01	352.18
4	FY 2012-13	151.87	179.10	125.57
6	Less: Government Support	(360.00)	(360.28)	(360.28)
7	<b>Regulatory Assets</b>	<b>318.60</b>	<b>320.55</b>	<b>273.20</b>
8	Recovery of Regulatory Assets from Consumers			
a	<i>FY 2013-14</i>	105.00	104.36	101.76
b	<i>FY 2014-15</i>	108.00	113.19	110.50
9	<b>Total Estimated Regulatory Assets recovered</b>	<b>213.00</b>	<b>217.55</b>	<b>212.27</b>
10	Proposed Recovery in FY 2015-16	105.60	103.00	<b>60.93</b>
10	Proposed % Recovery in FY 2015-16 as additional Surcharge on existing tariff			<b>5.02%</b>

7.3.4 As can be analysed from the above table, against actual regulatory assets of Rs. 273.20 Crs (based on the audited accounts), the actual recovery in FY 2013-14 and estimated recovery in FY 2014-15 will be ~Rs. 212.27 Crs and therefore, PED proposes to recover the balance regulatory assets in FY 2015-16 considering the revision in surcharge from 10% to 5.02%.

7.3.5 PED requests the Hon`ble Commission to approve the recovery of regulatory assets in FY 2015-16 considering 5.02% Surcharge.

#### **7.4 Revenue Gap for MYT Control Period**

7.4.1 PED submits that the said current petition covers 7 years which includes True-up for FY 2011-12 and FY 2012-13, Provisional True-up of FY 2013-14, APR of FY 2014-15 and MYT Control period from FY 2015-16 to FY 2017-18. However, for the gap from FY 2011-12 to FY 2012-13 (including Past Gaps of FY 2009-10 to FY 2010-11) is adjusted against the recovery of the Regulatory assets and therefore the Revenue Gap is calculated along with the additional adjustment from FY 2013-14 to FY 2017-18 which is proposed to be recovered in the MYT Control period. PED submits that

the increase in tariff shall be proposed considering the cumulative gap over the years. The calculation of revenue Gap is shown below:

**Table 7-7: Calculation of Revenue Gap for FY 2013-14 to FY 2017-18**

Rs. Crs

Particulars	Previous Year (Provisional)	Current Year (Rev.Est)	Ensuing Year (Projections)		
	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
Net ARR	1,110.13	1,133.27	1,301.22	1,479.97	1,658.72
Less: Revenue at Existing Tariffs excluding Surcharge but including FPPCA	1,045.53	1,142.72	1,213.10	1,291.23	1,374.65
<b>Revenue Gap for the year</b>	<b>64.60</b>	<b>(9.45)</b>	<b>88.12</b>	<b>188.74</b>	<b>284.07</b>
<b>Opening Balance of Gap</b>	<b>-</b>	<b>64.60</b>	<b>133.24</b>	<b>221.37</b>	<b>410.11</b>
<b>Addition during the Year</b>					
Gap during the corresponding year	64.60	(9.45)	88.12	188.74	284.07
<b>Additional Past Recoveries to be claimed in MYT period</b>					
<i>Accumulated RPO to be purchase in MYT Period</i>		48.27			
<i>Accumulated Interest on Security Deposit to be paid in MYT Period</i>		29.82			
<b>Total Cumulative Gap for years</b>	<b>64.60</b>	<b>133.24</b>	<b>221.37</b>	<b>410.11</b>	<b>694.17</b>

## CHAPTER 8. PROPOSAL FOR REVISION IN TARIFF FOR RETAIL SALE OF ELECTRICITY DURING MYT CONTROL PERIOD

### 8.1 Preamble

8.1.1 This section elucidates the proposed revision in the retail tariff and proposed amendments in the retail tariff schedule to be applicable for MYT Control Period i.e. FY 2015-16 to FY 2017-18. PED prays the Hon'ble Commission to approve the revision of retail tariff for MYT Control Period i.e. FY 2015-16 to FY 2017-18 as proposed for different categories of consumers, applicable from April 1 '2015.

### 8.2 Tariff Design Principles

8.2.1 Over the years, Hon'ble Commission has been guided by the Electricity Act, 2003 and the National Tariff Policy while determining retail tariffs across the Union Territory, Puducherry. Hon'ble Commission has always laid emphasis on adoption of factors that encourages economy, efficiency, effective performance and improved conditions of supply. On these lines Hon'ble Commission, in this order too, may apply similar principles keeping in view the ground realities.

8.2.2 PED opines that there is an urgent need for ensuring recovery of cost of service from consumers to make the sector viable. At the same time some minimum level of support is required to make electricity affordable for very poor category as electricity is a basic minimum need and an essential driver of growth.

8.2.3 **Full Cost Recovery:** PED submits that the proposed petition is based on almost full cost recovery model of the total revenue gap computed for MYT control period. PED is of the opinion that since this is the first control period of three years, it needs to work on commercial principles to sustain growth and avoid any financial losses.

8.2.4 **Economic Use of Electricity:** PED suggests that Hon'ble Commission may provide such provisions in order where by electricity is used efficiently by all consumers and consumers pay reasonable tariffs. Such guidelines / provisions may help PED and consumers in giving signals for restricting consumption / efficient use of electricity and bring in discipline in consumption by having appropriate price indicators.

8.2.5 PED suggests the Tariff Philosophy to be adopted as under while framing the terms and conditions of the tariff schedule.

### 8.3 Philosophy of Tariff Design

8.3.1 PED submits that considering the total proposed Revenue Gap of Rs. 694.17 Crs to be recovered within the three years of the MYT Control period i.e. FY 2015-16 to FY 2017-18, the tariff hike is designed in a way whereby fixed and energy charges have been increased for each category of consumers at equal rate.

8.3.2 PED submits that one of the principles of tariff design is full cost recovery and economic use of electricity. PED feels that for economic use of electricity, it is necessary that the importance of electricity needs to be realised by all the consumers and therefore, an equal hike has been proposed in percentage term for each category of consumers without any discrimination.

8.3.3 PED submits that the category and slab-wise tariff has been proposed keeping in mind the tariff philosophy and full cost recovery. Further, it is submitted that PED has proposed to recover almost the entire gap till the control period which includes the recovery of regulatory assets of 5.02% in FY 2015-16.

8.3.4 For recovery of gap, PED has proposed following hike in percentage (%) terms for the first MYT control period i.e. FY 2015-16 to FY 2017-18:

**Table 8-1: Tariff hike (%)**

Particulars	FY 2015-16		FY 2016-17		FY 2017-18	
	Fixed Charges	Energy Charges	Fixed Charges	Energy Charges	Fixed Charges	Energy Charges
% Hike in Tariff	7.00%	7.00%	9.50%	10.00%	9.50%	10.00%

8.3.5 Based on the proposed % hike, the resultant trajectory of Fixed and Energy Charges for recovery of gap proposed for FY 2015-16 to FY 2017-18 is outlined below:

**Table 8-2: Summary of Existing and Proposed Tariff Rates for MYT Control Period (FY 2015-16 to FY 2017-18)**

Sr. No.	Category of Consumer	Existing Tariff for FY 2014-15		Proposed Tariff for FY 2015-16		Proposed Tariff for FY 2016-17		Proposed Tariff for FY 2017-18	
		Fixed Charge (Rs/kW; Rs/kVA; Rs/HP; Rs/Month/Connection)	Energy Charges RS/kWh	Fixed Charge (Rs/kW; Rs/kVA; Rs/HP; Rs/Month/Connection)	Energy Charge (Rs/kWh)	Fixed Charge (Rs/kW; Rs/kVA; Rs/HP; Rs/Month/Connection)	Energy Charge (Rs/kWh)	Fixed Charge (Rs/kW; Rs/kVA; Rs/HP; Rs/Month/Connection)	Energy Charge (Rs/kWh)
<b>1(a)</b>	<b>Domestic &amp; Cottage</b>								
	<b>0 - 100</b>	30.00	1.05	32.00	1.12	35.00	1.24	38.00	1.36
	<b>101 - 200</b>	30.00	1.60	32.00	1.71	35.00	1.88	38.00	2.07
	<b>201 - 300</b>	30.00	3.10	32.00	3.32	35.00	3.65	38.00	4.01
	<b>&gt;300</b>	30.00	3.85	32.00	4.12	35.00	4.53	38.00	4.98
<b>1 (b)</b>	<b>OHOB</b>	25.00		27.00	-	30.00	-	33.00	-
<b>2</b>	<b>Commercial</b>								
	<b>0 - 100</b>	70.00	3.85	75.00	4.12	82.00	4.53	90.00	4.98
	<b>101 - 250</b>	70.00	4.55	75.00	4.87	82.00	5.36	90.00	5.89
	<b>&gt; 250</b>	70.00	5.00	75.00	5.35	82.00	5.89	90.00	6.47
<b>3</b>	<b>Agriculture</b>								
	<b>Small farmers</b>	8.00	-	9.00	-	10.00	-	11.00	-
	<b>Other farmers</b>	25.00	-	27.00	-	30.00	-	33.00	-
<b>4</b>	<b>Public lighting</b>	50.00	4.40	54.00	4.71	59.00	5.18	65.00	5.70
<b>5</b>	<b>LT Industrial &amp; Water Tanks</b>								
	<b>All Consumption</b>	80.00	4.50	86.00	4.82	94.00	5.30	103.00	5.83
<b>6</b>	<b>Temporary supply</b>								
<b>6 (a)</b>	<b>Light Load</b>	200.00	9.00	214.00	9.63	234.00	10.59	257.00	11.65
<b>6 (b)</b>	<b>Special Illumination</b>	500.00	9.00	535.00	9.63	586.00	10.59	642.00	11.65
<b>6 (c)</b>	<b>Load exceeding 97kW/ 130HP</b>	500.00	9.00	300.00	9.63	329.00	10.59	360.00	11.65
<b>7</b>	<b>Hoardings/ Signboards</b>	100.00	7.00	107.00	7.49	117.00	8.24	128.00	9.06
<b>8</b>	<b>HT - I Industrial &amp; Commercial</b>								
<b>8 (a)</b>	<b>I(a) upto CD 5000 kVA (Industrial/IT/ITES)</b>	220.00	4.70	235.00	5.03	257.00	5.53	281.00	6.09
<b>8 (b)</b>	<b>I(b) upto CD 5000 kVA (Commercial)</b>	220.00	4.70	235.00	5.03	257.00	5.53	281.00	6.09
<b>9</b>	<b>HT - II Government &amp; water tank</b>	220.00	4.80	235.00	5.14	257.00	5.65	281.00	6.21
<b>10</b>	<b>HT - III EHT (above 5000 kVA)</b>	240.00	4.70	257.00	5.03	281.00	5.53	308.00	6.09

8.3.6 PED submits that the level of cost recovery from different consumer categories is broadly within the limits stipulated by the National Tariff Policy. However, there is a need for some level of cross subsidy given the socio-economic reality of the consumer base in the UT. The amendment to the Electricity Act 2003 which eliminated the requirement to completely eliminate cross subsidy is also an

acknowledgement of the requirement to continue with a certain level of cross subsidy for some more time.

8.3.7 PED requests the Hon'ble Commission to approve the proposed tariff in order to recover almost the entire gap of Rs. 694.17 Crs during the control period.

#### 8.4 Revenue Due to Tariff Revision

8.4.1 The table below summarizes the revenue proposed to be recovered by PED using the above tariff rates:

**Table 8-3: Proposed Additional Revenue to meet Revenue Gap**

Particulars	Previous Year (Provisional)	Current Year (Rev. Est.)	Ensuing Year		
	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
Opening Balance	-	64.60	133.24	221.37	410.11
Gap for the Year	64.60	(9.45)	88.12	188.74	284.07
<b>Additional Past recoverable to be claimed in MYT period</b>					
<i>Accumulated RPO to be purchased in MYT period</i>		48.27			
<i>Accumulated interest on security deposit to be paid in MYT period</i>		29.82			
Closing Balance	64.60	133.24	221.37	410.11	694.17
Carrying Cost @14.50%	4.68	14.34			
Total Revenue Gap to be Recovered	<b>713.20</b>				
<b>Additional Revenue from Proposed Tariff</b>			84.80	227.41	402.67
<b>Total Additional Revenue from Proposed Tariff</b>	<b>714.88</b>				

8.4.2 PED submits that in line with Clause 8(4) of the MYT Regulations, 2014, it has claimed the carrying cost only for the gap for FY 2013-14 and FY 2014-15 as the earlier gap has been addressed by the Hon'ble Commission to be adjusted with the Regulatory assets recovery. The interest rate considered is equivalent to the interest rate approved for working capital borrowings.

8.4.3 PED also submits that Clause 31 of the MYT Regulations, 2014 allows the carrying cost on the Regulatory assets in line with the State Bank Advance Rate (SBAR) for the tenure for which regulatory asset has been created. Therefore, PED prays to allow the carrying cost on the Regulatory Assets as approved by the Hon'ble Commission.

## CHAPTER 9. SEGREGATION OF WHEELING AND RETAIL SUPPLY BUSINESS

### 9.1 Allocation Matrix

9.1.1 The Hon'ble Commission has issued JERC (Multi Year Distribution Tariff) Regulations, 2014 which is effective from 1st April 2015 onwards and the control period is for three years i.e. FY 2015-16 to FY 2017-18.

9.1.2 As per clause 33 of MYT Regulations, it is stated that the distribution licensee need to maintain separate books of accounts for wheeling and retail supply business. It is submitted that the Hon'ble Commission is aware that the subject being naive in nature, the distribution licensee may not have the accounts segregated based on the wheeling and retail supply business. Therefore it is clearly stated in the regulation that in the absence of such accounts, the ratio of the segregation may be decided by the Hon'ble Commission based on the data obtained from the distribution licensee.

9.1.3 However, in the similar clause, the Hon'ble Commission has clearly stated that the following broad principles shall be followed for allocation of costs towards wheeling business and supply business, out of the total annual revenue requirements determined:

- Power purchase cost shall be allocated to the supply business;
- Operation and maintenance expenses shall be segregated between wheeling and supply businesses in such manner as may be determined by the Commission;
- Majority of the capital expenditure related expenses, viz., depreciation, interest and return on equity, shall be included under the wheeling business

9.1.4 As the Hon'ble Commission has rightly assessed, the present accounts of licensee is at a consolidated level and the licensee does not have segregated accounts for each of the businesses. It is submitted that PED at present is using old accounts system & therefore retrieving old information would be very a daunting task. A detailed analysis is required to arrive at the expenses based on the nature of the business. Further, certain segments of business cannot be segregated in to two business categories e.g. sub-station which caters to both wires and supply business.

9.1.5 Since PED does not keep segregated accounts; it has to rely on certain assumptions for segregation of total expenses into wires and supply business. However, in line with the Regulation, the licensee is also endeavoured to analyse the expenses and incomes attributable to each business and has followed the following principles of

allocating Wheeling and Supply cost:

- 9.1.6 **Distribution Wheeling/Wires** function consists of transporting of electricity from transmission lines (typically transmission ends at 33kV/66kV) to consumers. Major activities involved are setting up of network consisting of the poles, wires, transformers etc. to take the electricity physically to the consumer.
- 9.1.7 **Retail Supply** function also known as merchant function is sale of electricity to the end consumers. Major activities involved are procurement of electricity from wholesaler or bulk supplier, pricing of electricity, sale of electricity including connection of consumer to the network, metering of energy used by consumers, billing for electricity supplied, collection of bills for energy use and disconnection of service on non-payment of bills.
- 9.1.8 The proposed allocation is based on the basis that the distribution network up to consumer meter is part of the wires business and the infrastructure beyond meter is part of the Retail Supply business. The proposed approach for allocation of expenditure between Wires and Retail Supply is discussed below:

**1. Power Purchase Expenses including transmission charges**

PED has contracted sufficient power for 24X7 supply to the consumers in the UT of Puducherry. On the basis of its power procurement plan, it is further expected that the consumers in the UT would be availing 24X7 supply. PED also agrees that procurement of electricity from wholesaler or bulk supplier for sale to end consumers is the main activity of retail supply business and therefore 100% of the cost of the power is allocated to the Supply business.

Further, entire transmission charges paid to Transmission Licensee is also allocated to the retail supply business.

**2. Allocation of Capital Cost**

The major components that form retail supply asset are meters and billing equipment's and similarly, majority of the plant and machinery, lines and cables form distribution assets. Other fixed assets like buildings, office equipment's, furniture and fixtures, vehicles etc. may be apportioned considering predominant usage concept.

Considering the general principles of segregation of capital cost (i.e. Interest on Loan, RoE, Depreciation) into wires and supply business and considering the fact that the distribution business of PED is dispersed in four regions having more dependence on the wire business, PED at present has considered a ratio of 90%



to Wheeling Business and 10% to Supply Business.

### **3. Employee Expenses**

To segregate the employee cost PED has used the basis of employee requirement to undertake the Retail Supply business. PED has done an evaluation on the number of employees that could be allocated to the Wires and Retail Supply business and the efforts undertaken to carry out such work.

The responsibility towards maintenance of a highly efficient distribution system and the accountability towards discharge of the duties as a service provider have to be shared by the engineers and employees of the PED. The Electricity Department has a technical work force of over 2192 employees of different ranks who perform multifaceted technical functions and duties, viz., maintaining power supply, metering, billing, revenue collections, customer services etc. The total sanctioned employee strength of the department is 2804 of which 2192 belong to technical cadre and 612 belong to Non-Technical (ministerial) cadre which ultimately results into 78% technical cadre and 22% non-technical (ministerial) Cadre.

Majority of the non-technical employees works for wires business involving functions such as revenue, stores, administration and establishment. Further, some of the technical employees also work for supply business. PED has assumed the allocation of number of employees to wires and supply business as 75% and 25% respectively. PED has assumed the same ratio for allocation of employee expenses to wires and supply business.

### **4. Administration & General Expenses**

A&G expenses related to power purchase, metering, billing and collection, financing expenses on loan related to retail supply business can be allocated to retail supply business. Office expenses like telephone, stationery, electricity, lease rent etc. can be apportioned between Wires and Retail Supply business on the basis of predominant usage concept. The following principle has been adopted for calculation of ratio of wheeling and supply business for each and every cost component of A&G business:

- Rent Rates & Taxes in the ratio of allocation of capital cost of 90% and 10% to wheeling and supply business;
- Office expenses and Professional Charges includes the appointment of internal auditor for maintaining the accounts and fixed assets register as well as the legal / regulatory fees and payment to consultant for filing of ARR petition. Therefore it includes the mixed component of Capital Cost and supply business and therefore it is considered lower than capital cost

allocation ratio but higher than the employee expenses i.e. 80: 20 ratio for wheeling and supply business;

- Advertisement & Publicity expenses and incentives to consumers has been allocated 100% to supply business;
- Other A&G charges and material related expenses are allocated equally to wheeling and supply business;

Based on the above itemized allocation principle for each cost component of A&G expenses, the overall ratio comes to around 60:40 ratio for Wheeling and Supply business which has been considered for allocation purpose.

#### **5. Repair & Maintenance Expenses**

As discussed earlier, the distribution network up to consumer meter is part of the wires business and the infrastructure beyond meter is part of the Retail Supply business. Therefore, majority of R&M is required for the portion up to consumer meter and infrastructure beyond consumer meter or other supply related equipment's don't require that much R&M. Considering this fact, R&M expenses are allocated as 90% to Wires Business and 10% to Supply Business.

#### **6. Interest on Working Capital and interest on Security Deposit**

Working capital is mainly required to meet the liabilities relating to fuel / power purchase however certain part of working capital is also required to meet the payments of the suppliers for capital works. Considering this fact, interest expenses on working capital is considered in the ratio of 22:78 of wheeling and supply business respectively which is in line with the approach adopted by the Hon'ble Commission in past orders. However, interest on security deposit being related totally to retail supply consumers, 100% of such cost is allocated to Supply Business.

#### **7. Provision for Bad Debts**

Bad debts are inseparable incidents of the retail supply business of electricity distribution. Provision for Bad Debts is associated with the business risk mainly related to supply business and therefore 100% is allocated to Supply Business.

#### **8. Non-Tariff Income**

Since almost all the non-tariff income comes from supply related activities, the entire non-tariff income is allocated to Supply Business.

9.1.9 Considering the assumptions discussed above, PED has worked out the ratio to segregate the expenses under Retail Supply and Wires Business. The same ratios have been used to segregate its ARR for the MYT control period i.e. FY 2015-16 to FY 2017-18.

**Table 9-1: Assumptions for segregation of Retail Supply and Wires Business Expenses**

Sr. No.	Item of expense	Wire Business	Supply Business	Wire Business	Supply Business	Total	Wire Business	Supply Business	Total	Wire Business	Supply Business	Total
		%	%	FY 2015-16			FY 2016-17			FY 2017-18		
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Cost of fuel											
2	Cost of power purchase	0%	100%	-	1,108.87	1,108.87	-	1,250.59	1,250.59	-	1,384.50	1,384.50
3	Employee costs	75%	25%	60.68	20.23	80.91	65.18	21.73	86.91	70.02	23.34	93.36
4	R&M expenses	90%	10%	16.51	1.83	18.35	19.71	2.19	21.90	25.08	2.79	27.87
5	Administration and General expenses	60%	40%	3.45	2.30	5.76	3.71	2.47	6.18	3.99	2.66	6.64
6	Depreciation	90%	10%	31.69	3.52	35.21	39.11	4.35	43.45	48.10	5.34	53.44
7	Interest & Financial charges	90%	10%	22.38	2.49	24.87	32.08	3.56	35.64	43.62	4.85	48.47
8	Interest on Working Capital	22%	78%	-	-	-	-	-	-	-	-	-
9	Return on NFA /Equity	90%	10%	14.59	1.62	16.21	19.75	2.19	21.94	25.93	2.88	28.81
10	Provision for Bad Debt	0%	100%	-	-	-	-	-	-	-	-	-
11	Interest on Consumer Security Deposit	0%	100%	-	14.84	14.84	-	17.32	17.32	-	19.80	19.80
12	<b>Total Revenue Requirement</b>			<b>149.31</b>	<b>1,155.70</b>	<b>1,305.01</b>	<b>179.54</b>	<b>1,304.41</b>	<b>1,483.95</b>	<b>216.74</b>	<b>1,446.16</b>	<b>1,662.89</b>
13	Less: Non Tariff Income	0%	100%	-	3.79	3.79	-	3.98	3.98	-	4.17	4.17
14	<b>Net Revenue Requirement (12-13)</b>			<b>149.31</b>	<b>1,151.91</b>	<b>1,301.22</b>	<b>179.54</b>	<b>1,300.43</b>	<b>1,479.97</b>	<b>216.74</b>	<b>1,441.98</b>	<b>1,658.72</b>
17	<b>Energy sales (MU) *</b>			<b>2,667.91</b>	<b>2,667.91</b>	<b>2,667.91</b>	<b>2,845.16</b>	<b>2,845.16</b>	<b>2,845.16</b>	<b>3,034.55</b>	<b>3,034.55</b>	<b>3,034.55</b>
18	<b>Average Cost of Supply (Rs/kWh)</b>			<b>0.56</b>	<b>4.32</b>	<b>4.88</b>	<b>0.63</b>	<b>4.57</b>	<b>5.20</b>	<b>0.71</b>	<b>4.75</b>	<b>5.47</b>

9.1.10 PED submits that the percentage allocation for segregation of Retail Supply and Wires Business Expenses is purely on the basis of assumptions and cannot be treated as basis for any accounting purposes. PED categorically submits that this segregation is only for the purpose of the determination of aggregate revenue requirement for the purpose of MYT Petition only.

## CHAPTER 10. DETERMINATION OF OPEN ACCESS CHARGES

### 10.1 Determination of Open Access Charges

10.1.1 As per the provisions of Electricity Act 2003 the distribution utilities are mandated with Universal Service Obligation to consumers. Nationwide, the present tariff structure has cross subsidization mechanism whereby the tariff for some category of consumers are lower than cost of supply to them.

10.1.2 Typical Open Access consumers are required to bear transmission charges, transmission losses, wheeling charges, wheeling losses, reactive charges, cross subsidy surcharge, additional surcharge, standby charges etc as may be applicable depending upon the voltage level at which open access power is availed and the charges as may be approved by Hon'ble Commission from time to time. In the past Hon'ble Commission has determined the open access charges including cross subsidy surcharge payable by a consumer availing open access to the Distribution System as provided in Open Access Regulations.

10.1.3 Section 42 (2) of the Electricity Act 2003 provides following provisions wherein the powers have been given to State Commissions for specifying cross subsidy surcharge. The relevant is reproduced as under:

*“The State Commission shall introduce open access in such phases and subject to such conditions, (including the cross subsidies, and other operational constraints) as may be specified within one year of the appointed date by it and in specifying the extent of open access in successive phases and in determining the charges for wheeling, it shall have due regard to all relevant factors including such cross subsidies, and other operational constraints:*

*Provided that such open access shall be allowed on payment of a surcharge in addition to the charges for wheeling as may be determined by the State Commission:*

*Provided further that such surcharge shall be utilised to meet the requirements of current level of cross subsidy within the area of supply of the distribution licensee:*

*Provided also that such surcharge and cross subsidies shall be progressively reduced in the manner as may be specified by the State Commission:*

*Provided also that such surcharge shall not be leviable in case open access is provided to a person who has established a captive generating plant for carrying the electricity to the destination of his own use:"*

*"to provide non-discriminatory open access to its transmission system for use by-  
(i) any licensee or generating company on payment of the transmission charges ;  
or*

*(ii) any consumer as and when such open access is provided by the State Commission under sub-section (2) of section 42, on payment of the transmission charges and a surcharge thereon, as may be specified by the State Commission:*

*Provided that such surcharge shall be utilised for the purpose of meeting the requirement of current level cross-subsidy:*

*Provided further that such surcharge and cross subsidies shall be progressively reduced in the manner as may be specified by the State Commission:*

*Provided also that the manner of payment and utilisation of the surcharge shall be specified by the State Commission:*

10.1.4 Section 86 deals with the functions of State Commission and its sub-section (1) (a) reads as follows:

*"86. (1) The State Commission shall discharge the following functions, namely:*

*(a) determine the tariff for generation, supply, transmission and wheeling of electricity, wholesale, bulk or retail, as the case may be, within the State:*

*Provided that where open access has been permitted to a category of consumers under section 42, the State Commission shall determine only the wheeling charges and surcharge thereon, if any, for the said category of consumers;"*

10.1.5 As mandated in the Electricity Act 2003 and JERC Regulations and various Orders of Hon'ble Commission, it is necessary that both cross subsidy surcharge and additional surcharge are imposed on the open access consumers. As regards to the calculation of cross subsidy surcharge it is to mention that cross subsidy surcharge shall be determined as per the formula specified in National Tariff Policy which has been followed by Hon'ble Commission from time to time. Therefore, PED requests the Hon'ble Commission to determine the Open Access charges wheeling charges and

cross subsidy charges every time while determining the tariff.

## 10.2 Allocation of Wheeling Cost

10.2.1 PED submits that the allocation of network and supply cost has been considered in line with the allocation principles adopted in Chapter 9 of this petition. PED submits that it does not maintain audited accounts for voltage wise assets. However, based on the engineering study and certain assumptions, PED has arrived at the segregation of cost. PED would like to emphasize that this statement is only based on engineering estimate as it does not have accurate audited data.

## 10.3 Voltage wise Wheeling Charges

10.3.1 PED submits that the apportionment of wheeling charges has to account for losses and therefore in the absence of the voltage wise details, PED has considered the bifurcation of wheeling cost based on the sales and losses at each voltage level. The voltage wise loss levels are taken as approved by the Commission in the Tariff Order of FY 2014-15. The table depicting the same is shown below:

**Table 10-1: Voltage wise Loss**

<b>Voltage Level</b>	<b>Loss</b>
EHT	1.0%
HT-33/22/11KV	5.0%
LT	13.9%
Total	12.0%

10.3.2 The wheeling charges calculation is provided in the table below:

**Table 10-2: Wheeling charges for MYT Control Period**

Particulars	UoM	S.No.	FY 2015-16	FY 2016-17	FY 2017-18
Wheeling Cost	Rs.Crs	a	149.31	179.54	216.74
Wheeling Cost at EHT	Rs.Crs	b=ax49%	73.16	87.97	106.20
Wheeling Cost at HT	Rs.Crs	c=ax9%	13.44	16.16	19.51
Wheeling Cost at LT	Rs.Crs	d=ax42%	62.71	75.41	91.03
Energy Input at Discom Periphery	MU	e	3,023.13	3,214.87	3,419.21
<b>Wheeling Charge at EHT Level</b>	<b>Rs/kWh</b>	<b>F=b/ex10</b>	<b>0.24</b>	<b>0.27</b>	<b>0.31</b>
EHT Losses	%	g	1.00%	1.00%	1.00%
EHT Losses	MU	h	30.23	32.15	34.19
Sales at EHT Level	MU	i	366.30	388.28	411.58
Energy Input at HT	MU	j=e-h-i	2,626.59	2,794.44	2,973.44
<b>Wheeling Charge at HT Level</b>	<b>Rs/kWh</b>	<b>k=c/jx10</b>	<b>0.05</b>	<b>0.06</b>	<b>0.07</b>
HT Losses	%	l	5.00%	5.00%	5.00%
HT Losses	MU	m	131.33	139.72	148.67
Sales at HT Level	MU	n	1,047.33	1,120.11	1,197.96
Energy Input at LT	MU	o=j-m-n	1,447.93	1,534.61	1,626.81
<b>Wheeling Charge at LT Level</b>	<b>Rs/kWh</b>	<b>p=d/ox10</b>	<b>0.43</b>	<b>0.49</b>	<b>0.56</b>
Sales at LT Level	MU	q	1,254.28	1,336.77	1,425.01
LT Losses	MU	r=o-q	193.66	197.84	201.80
LT Losses	%	%	13.4%	12.9%	12.4%
<b>Total Losses</b>	MU	s=r+m+h	355.22	369.71	384.66
	%		11.75%	11.50%	11.25%

10.3.3 The apportionment of the wheeling cost has been considered in the ratio of 49:9:42 between EHT, HT and LT respectively (as considered in the last tariff order dated April 10' 2014).

10.3.4 The Hon'ble Commission may consider the submissions as provided in above paragraphs & approve the proposed wheeling charges.

## CHAPTER 11. CROSS SUBSIDY SURCHARGE AND ALLOCATION OF COST TO SERVE

### 11.1 Background for Cross Subsidy Surcharge

11.1.1 Section 2 (47) of the said Electricity Act defines “Open Access”, while Section 42 of the said Act inter – alia mandates the Distribution Licensee to provide Open Access to eligible consumers, subject to payment of Cross Subsidy Surcharge, Additional Surcharge & other applicable charges.

11.1.2 Section 86 (1) (a) of the said Act inter – alia mandates the Hon’ble Commission to determine Cross Subsidy Surcharge, Additional Surcharge & other applicable charges payable by the consumers opting for open access.

11.1.3 National Electricity Policy as stipulated by the Central Government provides that – Under sub – section (2) of Section 42 of the Act, a surcharge is to be levied by the respective State Commissions on consumers switching to alternate supplies under open access. This is to compensate the host distribution licensee serving such consumers who are permitted Open Access under Section 42 (2), for loss of cross subsidy element built into the tariff of such consumers. An additional surcharge may also be levied under sub – section (4) of section 42 of the said Act for meeting the fixed cost of the distribution licensee arising out of obligation to supply in cases where consumers are allowed open access.

11.1.4 National Tariff Policy further provides the “Surcharge Formula” as follows:

$$S = T - [C (1 + L/100) + D]$$

Where,

S is surcharge

T is tariff payable by relevant category of consumers

C is weighted average cost of power purchase of top 5% at the margin excluding liquid fuel based generation and renewable power

D is wheeling charges

L is the system Losses for the applicable voltage level.

### 11.2 Computation of Cross Subsidy Surcharge for MYT Control Period

11.2.1 PED submits that the transmission and distribution business has not yet been segregated and it continues to function as an integrated utility. Since the expenses of the utility are consolidated and has therefore considered “NIL” transmission charges for the open access consumers in the UT.



### 11.2.2 Computation of “C”

11.2.3 Computation of “C” is based on the projected power purchase quantum and price after merit order principle for MYT control period as submitted in the Form 4 of the Regulatory Formats. Computation of “C” can be taken as the price of power from the allocated sources to be the weighted average power purchase cost of top 5% at the margin. Therefore, the “C” computed for PED is shown in the following table:

**Table 11-1: Calculation of ‘C’ based on ARR of MYT Control Period**

Particulars	Station	Energy Procured (MU)	Avg. Rate (Rs/kWh)	Total Power Purchase Cost(Rs.Cr)
<b>C =</b>				
<b>FY 2015-16</b>				
5% of the Power Procurement		<b>158.24</b>	<b>3.69</b>	<b>58.44</b>
	Tuticorin NLC Project	64.47	3.83	24.71
	NLC TPS II Stage I	93.77	3.60	33.73
<b>FY 2016-17</b>				
5% of the Power Procurement		<b>168.33</b>	<b>3.82</b>	<b>64.34</b>
	Tuticorin NLC Project	64.47	4.01	25.83
	NLC TPS II (Expn)	103.85	3.71	38.51
<b>FY 2017-18</b>				
5% of the Power Procurement		<b>179.08</b>	<b>4.03</b>	<b>72.12</b>
	Tuticorin NLC Project	64.47	4.19	27.01
	NLC TPS II (Expn)	114.60	3.94	45.11

### 11.2.4 Computation of CSS

11.2.4.1 PED submits that the apportionment of wheeling charges has to account for losses and therefore in the absence of the voltage wise details, PED has considered the bifurcation of wheeling cost based on the sales and losses at each voltage level. The Voltage wise loss levels “L” are taken as approved by the Commission in the Tariff Order of FY 2014-15.

11.2.4.2 The projected wheeling charges “D” as shown in the **Chapter 10** at the respective voltage level are used for calculation of Cross Subsidy Surcharge.

11.2.4.3 The Tariff (ABR) “T” of HT category consumers is considered based on the proposed tariff by PED to recover the Gap. Since the Tariff payable by the consumers is inclusive of the Surcharge to be recovered against the Regulatory Assets, the proposed surcharge is also included while calculating the Tariff of the HT consumers.

11.2.4.4 The category wise CSS applicable is arrived on consideration of the components ABR, C, L & D from the above referred respective sections. The CSS is thus provided below:-

**Table 11-2: Calculation of Cross Subsidy Surcharge for MYT Control Period**

Calculation of CSS for MYT Control Period							
Particulars	Sales	Revenue from Proposed Tarrif	Average Tariff T	Cost of Power C	Wheeling Charges D	Loss L	Cross Subsidy Surcharge CSS
	MUs	Rs. Crs	Rs./Kwh	Rs./Kwh	Rs./Kwh	%	Rs./Kwh
<b>FY 2015-16</b>							
HT1 Industrial / Commercial	994.33	618.82	6.22	3.69	0.05	5.00%	2.29
HT2 Govt. & Water Tank	53.00	34.33	6.48	3.69	0.05	5.00%	2.55
HT3 EHT	366.30	218.04	5.95	3.69	0.24	1.00%	1.98
<b>FY 2016-17</b>							
HT1 Industrial / Commercial	1,063.93	691.28	6.50	3.69	0.05	5.00%	2.57
HT2 Govt. & Water Tank	56.18	40.29	7.17	3.69	0.05	5.00%	3.24
HT3 EHT	388.28	253.63	6.53	3.69	0.24	1.00%	2.56
<b>FY 2017-18</b>							
HT1 Industrial / Commercial	1138.408	808.76	7.10	3.69	0.05	5.00%	3.18
HT2 Govt. & Water Tank	59.5508	47.29	7.94	3.69	0.05	5.00%	4.01
HT3 EHT	411.5794	295.14	7.17	3.69	0.24	1.00%	3.20

11.2.5 PED requests the Hon'ble Commission to approve the Cross Subsidy Surcharge & related Open Access Charges for MYT control period i.e. FY 2015-16 to FY 2017-18 as proposed.

### 11.3 Additional Surcharge

11.3.1 PED submits that it will approach Hon'ble Commission separately on case to case basis seeking approval for 'Additional Surcharge'.

### 11.4 Allocation of Cost to Serve

11.4.1 It is submitted that Clause 36 of MYT Regulations, 2014 specifies that the distribution licensee shall compute the consumer category-wise cost of supply as per the methodology elaborated in the Regulations.

11.4.2 PED submits that for computing the consumer category wise Cost of supply, it is necessary to carry out the detailed load study considering the seasonal fluctuations as well as the system load factor. There is also a need to carry out the detail Demand analysis (incl. analysis on system loading, hourly load curves, peak maximum Demand (PMD), Simultaneous Maximum Demand (SMD), coincidental and non-coincidental peaks) and transmission and distribution loss assessment based on historical and real time data.

11.4.3 Such detailed study is usually carried out on a sample feeder basis selected in a

scientific manner whereby selection of such feeders and consumer samples for load studies and loss studies should be representative of the consumer groups/network types etc.

11.4.4 It is also submitted that as per MYT Regulations, 2014, the Hon'ble Commission have also stated that while allocating the demand related cost, the basis of average coincident peak demand of the tariff categories (average of past 12 months) is required to be undertaken. The clause as per Regulations is stated as below:

*(i) Allocation of Demand Costs: Demand costs of all three functions shall be allocated among consumer categories on the basis of average coincident peak demand of the tariff categories (average of past 12 months). To facilitate determination of average coincident peak demand for the various tariff categories, load research shall be made an integral part of the operations of the DISCOMs and systematic load research exercises shall be initiated.*

11.4.5 PED humbly submits that considering the above factors, the computation of consumer category-wise cost of supply, a detailed analysis is required which is a time consuming process. PED is yet to carry out the load research exercise which also needs to undertake the seasonal fluctuation and considering such short time, it is difficult to submit the consumer category-wise cost of supply. Therefore, PED requests the Hon'ble Commission to exempt PED from submission of consumer category-wise cost of supply considering the above submission.

## CHAPTER 12. COMPLIANCE OF THE DIRECTIVES OF HON'BLE COMMISSION

### 12.1 Preamble

12.1.1 This section lists the directives issued by the Hon'ble Commission in the previous tariff order and the status of their compliances.

### 12.2 Status of Compliance

Table 12-1: Status of Compliance of directives

Sl. No.	Directives	Hon'ble Commission Observation made in the Tariff Order FY 2014-15	Compliance by the Electricity Department Puducherry
1.	Annual Statement of Accounts	It is observed that the final audited accounts for FY 2011-12 and FY 2012-13 have not been submitted before the Commission. The final true-up of FY 2011-12 and FY 2012-13 is also pending for want of audited accounts. The Commission directs the Petitioner to prepare the audited accounts for FY 2011-12 and FY 2012-13 and file true-up based on these. The Petitioner is directed to expedite the process in order to arrive at the correct revenue gap for the utility and avoid accumulation of losses.	Audit of FY 2011-12 & FY 2012-13 has been completed and the same has been furnished for Truing up of FY 2011-12 & FY 2012-13 respectively along with this petition. Unaudited accounts have been prepared and the same is attached for provisional true up of FY 2013-14. Audit of accounts for FY 2013-14 is expected to be completed by February 2015 and the same will be furnished to the commission immediately. Hence, it is prayed that the directive may be dropped.
2.	Preparation of Asset and Depreciation Register	The submission of the Fixed Asset Register (FAR) for FY 2009-10 and FY 2010-11 has been noted. The Petitioner is required to prepare the FAR along with the audited accounts and submit the same along with the true-up petition of the respective year. Separate directions for	Asset and Depreciation Registers have been prepared for the FY 2011-12, FY 2012-13 & FY 2013-14. Audit of accounts along with Asset and Depreciation Registers for the FY 2011-12 & FY 2012-13 has been completed. Audit of FY 2013-14 is awaited.

Sl. No.	Directives	Hon'ble Commission Observation made in the Tariff Order FY 2014-15	Compliance by the Electricity Department Puducherry
		each true-up year would not be issued and the FAR is required to be submitted before the Commission along with the true-up petition of the respective year.	Hence, it is prayed that the directive may be dropped.
3.	Accounting of security deposits etc. under appropriate head of accounts	The efforts of the Petitioner in this regard have been noted. For LT consumers, the process of payment of interest on security deposit should be expedited. Further, the Petitioner is directed to provide the split of the consumer security deposit amount into bank guarantee, fixed deposit and cash forms for analysis during the true-up of the respective year. The Commission further directs the Petitioner to pay interest on security deposit for FY 2009-10, FY 2010-11, FY 2011-12, FY 2012-13 and FY 2013-14 and submit the status report by June 30' 2014 failing which the Commission would be constrained to initiate action u/s 142 of Electricity Act 2003.	In case of HT consumers the payment of interest on security deposits has been made for the year FY 2012-13, FY 2013-14 and FY 2014-15. For LT consumers, FY 2012-13 & FY 2013-14 security deposits has been paid to Town O & M Division of Puducherry and to Mahe Region.  With respect to Yanam region, the sanction of the Government for payment of interest on security deposit for FY 2012-13 & FY 2013-14 is under process.
4.	Energy Audit and T&D Losses	The Commission appreciates the efforts made by the licensee towards compliance of the Commission's directive. Quarterly progress report on the status of the above compliance should be submitted to the Commission and the implementation of the mentioned programs by the licensee should be completed. RAPDRP implementation should be expedited and DTR implementation as stated above should be carried out.	At present, meters are available at the voltage levels of 230 KV, 110KV, 22 KV and 11 KV in all the EHT sub stations. The sanction of the Government has been received for providing metering arrangements for 1220 Nos. of distribution transformers. The work order for the same is proposed to be issued shortly. The required energy meters have already been purchased. In case of Karaikal region energy meters have been fixed in 24 number of distribution transformers.

Sl. No.	Directives	Hon'ble Commission Observation made in the Tariff Order FY 2014-15	Compliance by the Electricity Department Puducherry
5.	Estimation of the consumption by agriculture pump-sets	The efforts of the licensee in this regard are noted. However, the results of the sampling exercise have still not been submitted before the Commission. The pending compliance should be ensured and the results presented before the Commission. This would help in assessing the true consumption of the agriculture category and present an accurate analysis before the Commission.	As directed by the Hon'ble Commission, PED has taken initiatives to provide meters at the distribution transformers feeding power supply predominantly to the agriculture consumers and assess the actual energy consumption per HP of agriculture consumers. 97 energy meters have been fixed and analysis is being undertaken by the Department.
6.	Management Information System	The status report on the compliance of the above directive and progress of implementation of the MIS in the Department should be submitted to the Commission by September 30 of 2014.	Government of India has extended the last date for completion of Part – A, R-APDRP Scheme up to March 2015. After completion of the R-APDRP Scheme the necessary MIS inputs will be submitted to the Commission.
7.	Metering of consumer installations / replacement of non-functional or defective Meters	<p><i>“Even after 2 years, the petitioner has not given the status of the defective meters installed in this category of consumers. Procurement process to install meters should be expedited and action plan to install these meters be given by 30th September 2012.”</i></p> <p>The efforts of the Petitioner are appreciated. The status report on the compliance of the above directive should be submitted before the Commission by September 30' 2014. The pending task of the replacement of the remaining meters should be completed.</p>	<p>Regarding replacement of non-functional and defective meters, the department has procured 50,000 numbers of single phase energy meters and 9,000 numbers of three phase energy meters for this purpose. Out of 50,000 meters, 45,500 have already been allotted to different sections for replacement of defective /struck up meters. The replacement of struck up meters have been carried out under war footing basis.</p> <p>During H1 of FY 2014-15, 8548 nos of meters were replaced. Further, the Department proposes to place orders for purchase of 22,000 &amp; 10,000 nos of single phase &amp; three phase electronic meters at a cost of Rs</p>

Sl. No.	Directives	Hon'ble Commission Observation made in the Tariff Order FY 2014-15	Compliance by the Electricity Department Puducherry
			2.5 crores. It is further programmed to procure under RAPDRP scheme 30,000 & 12,000 nos of single phase & three phase electronic meters with AMR compatibility for Rs 8 crores.
8.	Billing and Collection Efficiency	The Commission understands that efforts are being made by the Petitioner in this regard; however, Metering, Billing and Collection (MBC) module is yet to be implemented. The status report should be submitted before the Commission by September 30' 2014. Further, RAPDRP should be implemented as improvement of billing and collection is linked to the implementation of the RAPDRP programme.	Government of India has extended the last date for completion of Part – A, R-APDRP Scheme up to March 2015. After completion of the R-APDRP Scheme the billing and collection efficiency will drastically improve. On completion of the above work necessary report will be submitted to the Commission.
9.	Collection of arrears	The status report on the liquidation plan should be submitted before the Commission by June 30' 2014. The process of collection of arrears should be expedited.	Arrears to a tune of Rs.80 Crores has been collected from the consumers up to June '2014. The Department has initiated special drive to collect outstanding arrears both from Government and private sectors. The respective Head of the Departments has been addressed to pay special attention to clear arrears. The Government of Puducherry is releasing an amount of Rs. 100 Crores for liquidating the arrears of all public sector undertaking and Government Departments.
10.	Load Shedding and ensuring proper service to the consumers	The submission of the Petitioner is noted. The status report on the compliance of the directive should be submitted to the Commission by September 30' 2014.	Sanction of the Government has been obtained for Man power employment for Customer Care Centre. IT implementing Agency is about to set up the Customer Care Centre.

Sl. No.	Directives	Hon'ble Commission Observation made in the Tariff Order FY 2014-15	Compliance by the Electricity Department Puducherry
11.	Demand Side Management and Energy Conservation	The efforts of the Petitioner are appreciated. The study report on demand side management and energy conservation should be submitted before the next ARR & tariff filing.	<p>As a part of Demand side management with the approval of the Hon'ble commission, the Electricity Department, Puducherry is implementing the scheme namely Demand side management energy efficient lighting programme (DELP). EESL has so far distributed about 6.00 Lakhs numbers of 7 W LED bulbs for the households in the all the regions of Puducherry for replacement of 60 W ICL. Further Department has submitted a proposal to the government for constituting DSM cell in accordance with DSM regulations of the Hon'ble Commission.</p> <p>The Government of Puducherry is also planning to replace the existing street lights with LED fittings. Under pilot project, so far 250 nos of LED streetlights have been provided. The Government of Puducherry had constituted a high level committee for further examination. On finalisation of scheme, detailed report will be submitted to Hon'ble Commission.</p>
12.	Pilferage of Energy	<i>"Submission is noted. Quarterly progress reports on the status of the functioning of the enforcement cell should be submitted to the Commission. The concerned officials should see that the inspection of services is carried out regularly and status reports submitted to the Commission in a timely manner. Theft of energy should be identified and action taken against the culprits.</i>	Quarterly progress report has been submitted to the Hon'ble commission vide letter No. 135 ED/SE-I/EE-II/F-ARR /2014-15 dated 11-09-2014. Further the Department has submitted a petition No. 140 of 2013 seeking for directions/ Clarifications in supply code and First Amendment pertaining to unauthorized use of Electricity and theft of Energy. On receipt of the above



Sl. No.	Directives	Hon'ble Commission Observation made in the Tariff Order FY 2014-15	Compliance by the Electricity Department Puducherry
		<p><i>Action taken report should also be submitted to the Commission, on the identified misuse of the supply of electricity. The concerned official should submit a quarterly report before the Commission."</i></p> <p>The Commission's comments as per the last tariff order are yet to be complied. Status of compliance of the above directive should be furnished to the Commission by June 30' 2014.</p>	<p>clarification/ direction, the intensity of Inspection will be increased.</p>
13.	Employee Cost/Manpower Study	<p><i>"The submission of the Petitioner is noted. The restructuring plan as stated by the Petitioner should be submitted to the Commission. The status on the approval of the Central Government be submitted to the Commission."</i></p> <p>Compliance is awaited. The status report on the compliance of the above directive should be submitted to the Commission by September 30' 2014.</p>	<p>At present the proposed restructuring of the Department is in advanced stage in Ministry of Finance / Government of India.</p>
14.	Load Forecasting study	<p><i>"The Petitioner is directed to conduct a detailed load forecasting study for short term (2-5 years), medium term (7-10 years) and long term (15-25 years) in order to understand the load requirements in their area at various periods and submit to the Commission along with the next tariff petition."</i></p> <p>The compliance on the above directive is awaited. Status report on the measures taken to comply with the</p>	<p>The short term forecasting for 3 years have been furnished in the Business Plan of the Department. The same has been filed on 29-09-2014. A medium and long term forecast would be prepared shortly.</p>

Sl. No.	Directives	Hon'ble Commission Observation made in the Tariff Order FY 2014-15	Compliance by the Electricity Department Puducherry
		above directive should be submitted before the Commission by September 30' 2014.	
15.	Bill Payment	<p><i>"Commission appreciates the efforts made by the Petitioner in this regard. The progress of the above facilities as mentioned by the Petitioner should be submitted to the Commission by September 2013. The process of speedy implementation of the RAPDRP should be carried out."</i></p> <p>Submission of the Petitioner has been noted. The status report on the compliance of the above directive should be submitted before the Commission by September 30' 2014.</p>	<p>Various modes of Collections are proposed to be introduced under R-APDRP such as</p> <p>(a) Internet payment gateway of various banks;</p> <p>(b) 24x7 bill collection counter at the customer care Centre for any consumer to pay the dues at any time;</p> <p>(c) Normal bill collection counter at the section offices for any consumer to pay the dues and;</p> <p>(d) Common bill collection counter proposed to be located at select locations in Puducherry / Karaikal region.</p> <p>For HT and LT consumers' arrangement have been made with State Bank of India for online payment.</p>
16.	Rural Electrification	<p><i>"The Petitioner is directed to submit the status of rural electrification in their area along with the detailed plan for rural electrification with the timeline proposed to achieve the complete electrification of rural area. The same should be furnished by 31st October 2012."</i></p> <p>The Petitioner has already complied with the above directive and hence this directive is dropped.</p>	The directive has been dropped.
17.	Capital expenditure	A separate detailed capital expenditure plan should be	Capital expenditure for the next three years FY 2015-18

Sl. No.	Directives	Hon'ble Commission Observation made in the Tariff Order FY 2014-15	Compliance by the Electricity Department Puducherry
		filed before the Commission in terms of the regulations. The scheme-wise year-wise expenditure should be highlighted before the Commission along with the cost-benefit analysis of each scheme and funding sources. Separate approval of the capital expenditure plan should be obtained from the Commission.	has been submitted along with the Business Plan for approval of the Hon'ble Commission.
19.	Enforcement Cell	The submission of the Petitioner is noted. Quarterly status reports should be submitted regularly to the Commission.	Quarterly progress report has been submitted to the Hon'ble Commission vide letter No. 135 ED/SE-I/EE-II/F-ARR /2014-15 dated 11-09-2014. Further the Department has submitted a petition No. 140 of 2013 seeking for directions/ Clarifications in supply code and First Amendment pertaining to unauthorized use of electricity and theft of energy. On receipt of the above clarification/ direction, the intensity of inspection will be increased.
20.	Voltage wise Categorization	The submission of the Petitioner is noted. This directive is therefore dropped.	The Directive has already been dropped by the Hon'ble Commission.
21.	Data on the consumption and load profile of Advertisement Hoardings, Sign boards, Signages, etc	The submission of the Petitioner is noted	The Directive has already been dropped by the Hon'ble Commission.
22.	Supply of energy to agriculture consumers	The submission of the Petitioner is noted; however, full compliance with the above directive is awaited. Status report on the progress of the above directive should be submitted before the Commission by September 30	97 energy meters have been installed in the DTRs predominantly feeding the Agriculture Consumers.

Sl. No.	Directives	Hon'ble Commission Observation made in the Tariff Order FY 2014-15	Compliance by the Electricity Department Puducherry
		2014.	
23.	Assessment of the open access consumers	The submission of the Petitioner is noted. Status report on the progress of implementation of open access in the licensee area should be submitted before the Commission by September 30' 2014.	No applications have been received by the Department for Open Access so far. The approval of the Government has been sought for Separation of SLDC from the Department.
24.	Connected Load/Contract Demand based fixed charges for LT Industrial and Commercial categories	The submission of the Petitioner is noted. The pending compliance as submitted by the Petitioner should be ensured.	On full implementation of R-APDRP programme the fixed charges based on the connected load would be implemented for both LT /Commercial and Industrial consumers.
25.	True-up Petition for the respective years	The submission of the Petitioner is noted. However, in absence of the audited accounts for FY 2011-12 & FY 2012-13, the true-up for the respective years have yet not been filed before the Commission. The same should be submitted before the Commission in order to correctly assess the revenue gap of the utility. It was expected that the true-up for FY 2011-12 & FY 2012-13 would be filed before the Commission this time along with the tariff petition for FY 2014-15. The Commission does not appreciate the delay in filing the true-up petitions for the respective years and the same should be filed before the Commission on time. It is expected that the future true-ups would be submitted on time, in order to carry forward the past gaps. The Commission would take strict action in case the true-ups are not submitted on time and no benefit would be	Audit of FY 2011-12 & 2012-13 has been completed and the same has been furnished for Truing up of FY 2011-12 & FY 2012-13 respectively along with this petition. Unaudited accounts have been prepared and the same is attached for provisional true up of FY 2013-14. Audit of accounts for FY 2013-14 is expected to be completed by February 2015 and the same will be furnished to the Commission immediately. Hence, it is prayed that the directive may be dropped.

Sl. No.	Directives	Hon'ble Commission Observation made in the Tariff Order FY 2014-15	Compliance by the Electricity Department Puducherry
		allowed as a pass through to the Petitioner on account of delay in filing the true-up petitions	
26.	Short-term procurement of power by the licensee	The submission of the Petitioner is noted. This directive is therefore dropped	This Directive is dropped.
27.	Proposal of the Energy Charges for the agriculture category	The submission of the Petitioner is noted. The same should be submitted as per the time- line mentioned by the Petitioner.	The work of providing energy meter to the agriculture category is under process. The sample reading will be studied and proposal for energy based tariff will be submitted for the FY 2016-17.
28.	Public grievance meeting	The Petitioner is directed to convene monthly meetings with the consumers to discuss/sort out issues of consumers in the licensee area related to the supply of power/ electricity/ connections by ED-Puducherry	Public Grievance meeting has been conducted in the Town area of Puducherry, one meeting has been held at Mahe & Yanam respectively. The consumer's related matters have been addressed to. Further public grievance meeting in all Division are proposed to be convened in the months of December'14, January '15 & February'15.

## **CHAPTER 13. PROPOSED TARIFF SCHEDULE FOR MYT CONTROL PERIOD**

### **13.1 Tariff Schedule for FY 2015-16 to FY 2017-18**

13.1.1 The tariff indicated in this tariff schedule is the tariff rate proposed to be payable by the consumers of Union Territory of Puducherry.

13.1.2 These tariffs are exclusive of electricity duty, tax on sale of electricity, taxes and other charges levied by the Government or other competent authorities from time to time.

13.1.3 Unless otherwise agreed to, these tariffs for power supply are applicable to single point of supply.

13.1.4 The power supplied to a consumer shall be utilized only for the purpose for which supply is taken and as provided for in the tariff. If energy supplied for a specific purpose under a particular tariff is used for a different purpose, not contemplated in the contract for supply and / or for which higher tariff is applicable, it will be deemed as unauthorized use of electricity and shall be dealt with for assessment under the provisions of section 126 of the Electricity Act, 2003 & Supply Code Regulation notified by JERC. Provided that,

- a) If a portion of the domestic premises limited to only one room is used for running small household business having connection under domestic category, such connection shall be billed under domestic category provided that the total monthly consumption of the consumer (including consumption for above mentioned small household business) does not exceed 150 kWh.
- b) If either more than one room or only one room having monthly consumption exceeding 150 kWh for consecutive three months is detected in the domestic premises being used for mixed purposes having domestic connection, such connection shall further be billed under commercial category until a separate connection of appropriate tariff is taken for that portion used for non-domestic purpose.

13.1.5 If connected load of a domestic category is found to be at variance from the sanctioned/ contracted load as a result of replacement of appliances such as lamps, fans, fuses, switches, low voltage domestic appliances, fittings, it shall not fall under Section 126 and Section 135 of the EA 2003.

#### 13.1.6 Power Factor Charges for HT and EHT

The monthly average power factor shall mean the ratio expressed as percentage of total kWh to total kVAh supplied during the month. The ratio shall be rounded up to two figures.

- a) The monthly average power factor of the supply shall be maintained by the consumer not less than 0.90 (lagging). If the monthly average power factor of a consumer falls below 90% (0.9 lagging), such consumer shall pay a surcharge in addition to his normal tariff @ 1% on billed demand and energy charges for each fall of 0.01 in power factor upto 0.7(lagging).
- b) In case the monthly average power factor of the consumer is more than 95% (0.95 lagging), a power factor incentive @ 0.5% on demand and energy charges shall be given for each increase of 0.01 in power factor above 0.95 (lagging).
- c) If the average power factor falls below 0.70 (lagging) consecutively for 3 months, the licensee reserves the right to disconnect the consumer's service connection without prejudice for the levy of the surcharge.
- d) The power factor shall be rounded off to two decimal places. For example, 0.944 shall be treated as 0.94 and 0.946 shall be treated as 0.95.

13.1.7 If the consumer fails to pay the energy bill presented to him by the due date, the Department shall have the right to disconnect the supply after giving 15 days' notice as per provision of the Act & Supply Code Regulation.

13.1.8 Fixed charges, wherever applicable, will be charged on pro-rata basis from the date of release of connection. Fixed charges, wherever applicable, will be double as and when bi-monthly billing is carried out, Similarly slabs of energy consumption will also be considered accordingly in case of bi-monthly billing.

13.1.9 The billing in case of HT/EHT shall be on the maximum demand recorded during the month or 75% of contracted demand, whichever is higher. If in any month, the recorded maximum demand of the consumer exceeds its contracted demand, that portion of the demand in excess of the contracted demand shall be billed at double the normal rate. Similarly, energy consumption corresponding to excess demand shall also be billed at double the normal rate. The definition of the maximum demand would be in accordance with the provisions of the Supply Code Regulation. If such over-drawl is more than 20% of the contract demand then the connections shall be disconnected immediately.

**Explanation:** Assuming the contract demand as 100 KVA, maximum demand at 120 KVA and total energy consumption as 12000 kWh, then the consumption corresponding to the contract demand will be 10000 kWh ( $12000 \times 100 / 120$ ) and consumption corresponding to the excess demand will be 2000 kWh. This excess demand of 20 KVA and excess consumption of 2000 kWh will be billed at twice the respective normal rate. Such connections drawing more than 120 kVA, shall be disconnected immediately.

13.1.10 Unless specifically stated to the contrary, the figures of energy charges relates to Rs per unit (kWh) charge for energy consumed during the month.

13.1.11 **Delayed payment surcharge** shall be applicable to all categories of consumers. Delayed payment surcharge of 2% per month or part thereof shall be levied on all arrears of bills. Such surcharge shall be rounded off to the nearest multiple of one rupee. Amount less than 50 paise shall be ignored and amount of 50 paise or more shall be rounded off to next rupee. In case of permanent disconnection, delayed payment surcharge shall be charged only upto the month of permanent disconnection.

13.1.12 **Advance Payment Rebate:** If payment is made in advance well before commencement of consumption period for which bill is prepared, a rebate @ 1% per month shall be given on the amount (excluding security deposit) which remains with the licensee at the end of the month. Such rebate, after adjusting any amount payable to the licensee, shall be credited to the account of the consumer.

13.1.13 **Prompt Payment Rebate:** If payment is made at least 7 days in advance of the due date of payment a rebate for prompt payment @ 0.25 % of the bill amount shall be given. Those consumers having arrears shall not be entitled for such rebate.

13.1.14 **Time of Day (ToD) tariff**

- i. Under the Time of Day (ToD) Tariff, electricity consumption and maximum demand in respect of HT/EHT consumers for different periods of the day, i.e. normal period, peak load period and off-peak load period, shall be recorded by installing a ToD meter.
- ii. The maximum demand and consumption recorded in different periods shall be billed at the following rates on the tariff applicable to the consumer.



**Table 13-1: ToD Time Period and Charges**

<b>Time of Use</b>	<b>Demand Charges</b>	<b>Energy Charges</b>
Normal Period (6:00am to 6:00 pm)	Normal Rate	Normal Rate of Energy Charges
Evening Peak Load Period (6:00 pm to 10:00 pm)	Normal Rate	120% of normal rate of energy charges
Off-peak load period (10:00pm to 6:00 am)	Normal Rate	90% of normal rate of energy charges

- iii. Applicability and Terms and Conditions of TOD tariff
- a) TOD tariff shall be **optional** unless otherwise specifically stated to the contrary in the tariff order
  - b) The facility of aforesaid TOD tariff shall not be available to HT/EHT consumers having captive power plants and/or availing supply from other sources through wheeling of power.
  - c) The HT/EHT industrial consumers who have installed standby generating plants shall also be eligible for the aforesaid TOD tariff.
  - d) In the event of applicability of TOD tariff to a consumer, all other terms and conditions of the applicable tariff shall continue to apply.

13.1.15 The adjustment on account of Fuel and Power Purchase Cost variation shall be calculated in accordance with FPPCA formula separately notified by the Commission under the Regulation. Such charges shall be recovered / refunded in accordance with the terms and conditions specified in the FPPCA formula.

13.1.16 As regards to the recovery of the past gap, the same will be levied as proposed in the Petition as an additional surcharge of 5.02% to be levied to all consumers above tariff rates on the fixed and energy charges (excluding taxes etc.) towards the recovery of the past accumulated deficit for FY 2015-16 only. However, the Agriculture and OHOB category would be excluded from the levy of this surcharge.

13.1.17 The values of the 'K' factor applicable for the different consumer categories for use in the FPPCA formula shall be as specified in this Tariff Order for FY 2015-16.

13.1.18 Schedule of service charges and other charges would be as approved in the tariff order.

## **13.2 Low Tension Supply Domestic Purposes**

### 13.2.1 Domestic Purposes (A2)

1. This tariff is applicable to services for lights, fans, air-conditioning, heating and other small domestic appliances etc used for:
  - a) Genuine domestic purposes including common services for stair-case, lifts, water tanks in the purely domestic apartments.
  - b) Supply to actual places of public worship such as temples, mosques, churches etc.
  - c) Ashrams and Mutts, non-commercial orphanage homes and old people homes run by religious and charitable institutions, social welfare and voluntary organizations.
  - d) Youth hostels, Harijan hostels, Rehabilitation Centres, Anganwadies and Balwadies run by Social Welfare Department.
  - e) For own residences where one room is set apart for the purpose of consultation by doctors, lawyers, engineers, architects and auditors.
  - f) To handloom in residence of handloom weavers (regardless of the fact whether outside labour is employed or not) and to handloom in sheds erected.
  - g) To the residences where supply from a house is extended to tailoring shops, job typing, document writing, laundry pressing, and small caterers set up in the verandah of the house with small lighting load only (one tube light only).
  
2. The charges for domestic service are as indicated in the table below:

**Table 13-2: Existing and Proposed Charges for Domestic Category**

Consumption Range	Existing Charges		Proposed Charges					
	FC (Rs/ Connection / Month)	EC (Rs/ kWh)	FY 2015-16		FY 2016-17		FY 2017-18	
			FC (Rs/ Connection / Month)	EC (Rs/ kWh)	FC (Rs/ Connection / Month)	EC (Rs/ kWh)	FC (Rs/ Connection / Month)	EC (Rs/ kWh)
0-100 units per month	30.00	1.05	32.00	1.12	35.00	1.24	38.00	1.36
101-200 units per month	30.00	1.60	32.00	1.71	35.00	1.88	38.00	2.07
201-300 units per month	30.00	3.10	32.00	3.32	35.00	3.65	38.00	4.01
Above 300 units per Month	30.00	3.85	32.00	4.12	35.00	4.53	38.00	4.98

3. The method of billing of charges shall be as explained below (specifically for FY 2015-16).

- a) Say units billed in a month are 80 units. Then the fixed charges will be Rs. 30/month and energy charges Rs. 89.6 (80 units X Rs 1.12/unit).
- b) In case the units billed are 275, then the fixed charges will be Rs. 32/month and energy charges will be Rs 532 (100 units X 1.12 + 100 units X 1.71 + 75 units X 3.32).

### 13.2.2 HUT SERVICES (A3)

1. For supply to bonafide hut services with only two numbers of 40W Florescent Tube Lights.
2. The charges for hut services (OBOH) are as indicated in table below:

**Table 13-3: Existing and Proposed Charges for Hut Category**

Description	Existing Fixed Charges	Proposed Fixed Charges		
		FY 2015-16	FY 2016-17	FY 2017-18
Hut Services/ OHOB	Rs. 25 per connection per month	Rs. 27 per connection per month	Rs. 30 per connection per month	Rs. 33 per connection per month

**Note:**

- a. *Hut is defined as a living place not exceeding 300 sq. ft. or 27.87 sq.m. with mud wall/brick wall or thatched wall and thatched roof only. Hut does not include farm huts. If any of the conditions is changed at a later stage, this concessional supply will be discontinued and the consumer will have to take metered supply.*
- b. *The tariff under this item is also applicable for houses constructed for economically weaker sections under the "Chief Minister's 5000 houses programme" and houses constructed by the District Rural Development Agency under Indira Awaas Yojana and by the Adi Dravidar Welfare Department having a living space not exceeding 300 sq. ft. or 27.87 sq.*
- c. *The consumer under this category should use only two numbers of 40 watts florescent tube lights. He should not use bulbs/tube lights of higher wattage or connect any other electrical equipment/ appliances other than those mentioned above. Supply from such services should not be tapped for any other purposes including functions, public meetings and also for neighboring huts. If at any time, any unauthorized load or extension, use of higher wattage bulbs or use of service for other purposes is detected, the service will be disconnected forthwith.*

### 13.2.3 COMMERCIAL (A1)

1. This tariff is for lights and combined installation of lights and fans, mixed loads of lights and power, heating and air-conditioning applicable to:

- a) Non-domestic and non-industrial consumers, trade and commercial premises.
- b) Educational institutions, hostels, public libraries.
- c) Hotels, restaurants, boarding and lodging homes
- d) Hospitals, Private clinics, Nursing Homes, Diagnostic Centre's, X-ray Units etc.
- e) IT related development centres and service centres.
- f) Common services for stair-case, lifts, water tanks etc in the purely commercial /combination of commercial and domestic.

2. The charges are as indicated in the table below.

**Table 13-4: Existing and Proposed Charges for Commercial Category**

Consumption Range	Existing Charges		Proposed Charges					
	FC (Rs/ Connection / Month)	EC (Rs/ kWh)	FY 2015-16		FY 2016-17		FY 2017-18	
			FC (Rs/ Connection / Month)	EC (Rs/ kWh)	FC (Rs/ Connection/ Month)	EC (Rs/ kWh)	FC (Rs/ Connection / Month)	EC (Rs/ kWh)
0-100 units per month	70.00	3.85	75.00	4.12	82.00	4.53	90.00	4.98
101-250 units per month	70.00	4.55	75.00	4.87	82.00	5.36	90.00	5.89
Above 250 units per month	70.00	5.00	75.00	5.35	82.00	5.89	90.00	6.47

## AGRICULTURE SERVICES (D)

### Agriculture/ Cottage Industries etc.

#### 13.2.4 Agriculture (D1)

For supply to bonafide agricultural services with a connected load of not less than 3 HP per service.

**Table 13-5: Existing and Proposed Charges for Agriculture Category**

Description	Existing Fixed Charges	Proposed Fixed Charges		
		FY 2015-16	FY 2016-17	FY 2017-18
Small Farmers	Rs. 8.00 per HP per month	Rs. 9.00 per HP per month	Rs. 10.00 per HP per month	Rs. 11.00 per HP per month
Small Farmers	Rs. 25.00 per HP per Month plus Service Charges Rs. 225 per service per annum	Rs. 27.00 per HP per Month plus Service Charges Rs. 225 per service per annum	Rs. 30.00 per HP per Month plus Service Charges Rs. 225 per service per annum	Rs. 33.00 per HP per Month plus Service Charges Rs. 225 per service per annum

**Note:**

- a. *Electricity will be supplied under the tariff category "Small farmers" to those consumers whose families are solely dependent on the income derived from their agricultural land holding, which should not exceed two and half acres of wet land or five acres of dry land. A certificate to this effect from Revenue authority shall be produced. "Small farmer means a person whose total holding, whether as owner, tenant or mortgaged with possession or partly in one capacity and partly in another, does not exceed two-and-a half acres of wet lands or five acres of dry land. In computing the extent of land held by a person who holds wet and dry lands, two acres of dry land shall be taken as equivalent to one acre of wet land.*
- b. *The above concession will be withdrawn if resale of energy or unauthorized load / extension or use for other purpose is detected by the Department.*
- c. *Agricultural power loads below 3 HP will be charged under Tariff Category A1. A bonafide farmer may use his motor in the Agricultural Service for allied agricultural purposes such as sugarcane crushing, thrashing etc. with the prior approval of concerned Executive Engineer (Operation & Maintenance), Electricity Department.*
- d. *Power supply to Farm Houses shall be metered separately and charged under domestic tariff (A2).*

**Payment of Tariff Charges by Agriculture Consumers**

- a. The Tariff shall be collected in three equal installments payable in April, August and December in each year. The installments shall be payable before the 15th of the respective months. The service charges of Rs 225 per annum shall also be collected in three installments of Rs. 75, Rs. 75 and Rs. 75 along with installment of fixed charges in April, August and December months.
- b. For new service, the first installment shall be proportionate to the number of whole months remaining till the month in which the first installment is due. Fraction of a month shall be reckoned as a whole month

**13.2.5 Cottage Industries /Poultry Farms/ Horticulture/Pisciculture (D2)**

It is applicable to bonafide cottage industries, horticultural nurseries including plant tissue culture media, bonafide poultry farms and pisciculture.

The charges are as indicated in the table below:

**Table 13-6: Existing and Proposed Charges for Cottage Industry**

Consumption Range	Existing Charges		Proposed Charges					
	FC (Rs/ Connection / Month)	EC (Rs/ kWh)	FY 2015-16		FY 2016-17		FY 2017-18	
			FC (Rs/ Connection / Month)	EC (Rs/ kWh)	FC (Rs/ Connection/ Month)	EC (Rs/ kWh)	FC (Rs/ Connection / Month)	EC (Rs/ kWh)
0-100 units per month	30.00	1.05	32.00	1.12	35.00	1.24	38.00	1.36
101-200 units per month	30.00	1.60	32.00	1.71	35.00	1.88	38.00	2.07
201-300 units per month	30.00	3.10	32.00	3.32	35.00	3.65	38.00	4.01
Above 300 units per Month	30.00	3.85	32.00	4.12	35.00	4.53	38.00	4.98

**Note:**

1. *Cottage industries*

*The following conditions should be satisfied in order that an industry may be classified as a bona fide cottage industry:*

- a) *It should be conducted entirely within the home, the home being deemed to be permanent residence of the proprietor.*
- b) *The industry shall not cause any residence to constitute a factory within the meaning of the Factories Act, 1948.*
- c) *Not more than two persons outside the immediate family of the proprietor shall be employed in the factory.*
- d) *It should be certified by the Director of Industries that the industry for which power is used is a cottage industry.*
- e) *The produce is not purely utilized mainly for the domestic consumption of the proprietor but should also be available for sale to the public.*

2. *Poultry farms*

*The following conditions should be satisfied in order that the service may be classified as a bona fide poultry farm.*

- a) *The capacity of the farm shall be a minimum of 100 birds and maximum of 5,000 birds (both layer and broiler birds).*
- b) *The application of the beneficiary seeking such concession shall be verified and recommended by the Animal Husbandry Department.*

3. *Horticultural/ Pisciculture*

*The applications of the beneficiary seeking such concession shall be verified and recommended by the Director, Agriculture Department. For Pisciculture, applications*

*of the beneficiary seeking such concession shall be verified and recommended by the Director, Fisheries Department.*

### 13.2.6 Public Lighting

- a. The tariff for public lighting will be as follows:

**Table 13-7: Existing and Proposed Charges for Public Lighting**

Description	Existing Charges		Proposed Charges					
	FC (Rs/ Pole/ Month)	EC (Rs/ kWh)	FY 2015-16		FY 2016-17		FY 2017-18	
			FC (Rs/ Pole/ Month)	EC (Rs/ kWh)	FC (Rs/ Pole/ Month)	EC (Rs/ kWh)	FC (Rs/ Pole/ Month)	EC (Rs/ kWh)
Public Lighting	50.00	4.40	54.00	4.71	59.00	5.18	65.00	5.70

- b. This tariff will also apply to public lighting in markets, bus stands, traffic signals, high mast lights on public ways, public parks, public lighting in notified industrial estates.

### 13.2.7 LT Industrial (C)

- a. Applicable to low tension industrial consumers including lighting in the industrial services and Water Tanks including lighting in premises maintained by State Government Departments/ Undertakings and local bodies.
- b. The charges are as indicated in the table below.

**Table 13-8: Existing and Proposed Charges for LT Industrial**

Consumption Range	Existing Charges		Proposed Charges					
	FC (Rs/ Connection/ Month)	EC (Rs/ KWh)	FY 2015-16		FY 2016-17		FY 2017-18	
			FC (Rs/ Connection/ Month)	EC (Rs/ KWh)	FC (Rs/ Connection/ Month)	EC (Rs/ KWh)	FC (Rs/ Connection/ Month)	EC (Rs/ KWh)
All units	80.00	4.50	86.00	4.82	94.00	5.30	103.00	5.83

#### **LT Supply Limit for all LT Categories:**

For single phase connection, the connected load shall not exceed 4 kW, and for 3 phase connection, the connected load shall not exceed 130 HP or 97 kW

## 13.3 High Tension Supply

### 13.3.1 High Tension – I

#### High Tension I (a)

- Applicable to industrial establishments, IT and ITES based Companies registered under Factories Act/ Companies Act with Contracted Maximum

Demand upto 5000 kVA.

### High Tension I (b)

- For Commercial Establishments including Laboratories, Hotels, Marriage Halls, Cinema Theatres, Private Educational Institutions, Private Hospitals, Shopping Malls, Telephone Exchanges, broadcasting companies with contracted maximum demand upto 5000 kVA.

13.3.2 The demand and the energy charges are as indicated in the table below:

**Table 13-9: Existing and Proposed Charges for High Tension I(a) and I(b) Category**

Consumption Range	Existing Charges		Proposed Charges					
	FC (Rs/ kVA/ Month)	EC (Rs/ KWh)	FY 2015-16		FY 2016-17		FY 2017-18	
			FC (Rs/ kVA/ Month)	EC (Rs/ KWh)	FC (Rs/ kVA/ Month)	EC (Rs/ KWh)	FC (Rs/ kVA/ Month)	EC (Rs/ KWh)
HT I (a) For contract demand upto 5000kVA	220.00	4.70	235.00	5.03	257.00	5.53	281.00	6.09
HT I (b) For contract demand upto 5000kVA	220.00	4.70	235.00	5.03	257.00	5.53	281.00	6.09

13.3.3 The billing shall be on the maximum demand recorded during the month or 75% of contracted demand whichever is higher. If in any month, the recorded maximum demand of the consumer exceeds its contracted demand, that portion of the demand in excess of the contracted demand will be billed at double the normal rate. Similarly, energy consumption corresponding to excess demand shall also be billed at double the normal energy rate. The definition of the maximum demand would be in accordance with the provisions of the Supply Code Regulation. If such over-drawl is more than 20% of the contract demand then the connections shall be disconnected immediately.

#### Explanation:

Assuming the contract demand as 100 kVA, maximum demand at 120 kVA and total energy consumption as 12000 units, then the consumption corresponding to the contract demand will be 10,000 units (12000 X 100/ 120) and consumption corresponding to the excess demand will be 2000 units. This excess demand of 20 kVA and excess consumption of 2000 units will be billed at twice the respective normal rate. E.g. in case of HT(I) (a) category (FY 2015-16), excess demand and consumption will be billed at the rate of Rs 470 per kVA per month and Rs 10.06/kWh respectively.



### 13.3.4 High Tension – II

- Applicable to State and Central Government establishments of non-industrial and non-commercial nature.
- The fixed/demand charges and energy charges are as indicated in the table below.

**Table 13-10: Existing and Proposed Charges for High Tension II Category**

Description	Existing Charges		Proposed Charges					
	FC/ Demand (Rs/ kVA/ Month)	EC (Rs/ KWh)	FY 2015-16		FY 2016-17		FY 2017-18	
			FC/ Demand (Rs/ kVA/ Month)	EC (Rs/ KWh)	FC/ Demand (Rs/ kVA/ Month)	EC (Rs/ KWh)	FC/ Demand (Rs/ kVA/ Month)	EC (Rs/ KWh)
HT II	220.00	4.80	235.00	5.14	257.00	5.65	281.00	6.21

- The billing shall be the maximum demand recorded during the month or 75% of contracted demand whichever is higher. If in any month, the recorded maximum demand of the consumer exceeds its contracted demand, that portion of the demand in excess of the contracted demand will be billed at double the normal rate. Similarly, energy consumption corresponding to excess demand shall also be billed at double the normal energy rate. The definition of the maximum demand would be in accordance with the provisions of the Supply Code Regulation. If such over-drawl is more than 20% of the contract demand then the connections shall be disconnected immediately.

### 13.3.5 High Tension – III

- Applicable to all types of industries supplied at 110 kV or 132 kV as the case may be
- The demand and energy charges are as indicated in the table below:

**Table 13-11: Existing and Proposed Charges for High Tension III Category**

Description	Existing Charges		Proposed Charges					
	FC/ Demand (Rs/ kVA/ Month)	EC (Rs/ KWh)	FY 2015-16		FY 2016-17		FY 2017-18	
			FC/ Demand (Rs/ kVA/ Month)	EC (Rs/ KWh)	FC/ Demand (Rs/ kVA/ Month)	EC (Rs/ KWh)	FC/ Demand (Rs/ kVA/ Month)	EC (Rs/ KWh)
HT III	240.00	4.70	257.00	5.03	281.00	5.53	308.00	6.09

- The billing shall be the maximum demand recorded during the month or 75% of contracted demand whichever is higher. If in any month, the recorded maximum demand of the consumer exceeds its contracted demand, that

portion of the demand in excess of the contracted demand will be billed at double the normal rate. Similarly, energy consumption corresponding to excess demand shall also be billed at double the normal energy rate. The definition of the maximum demand would be in accordance with the provisions of the Supply Code Regulation. If such over-drawl is more than 20% of the contract demand then the connections shall be disconnected immediately.

**Supply Voltage for all HT categories**

The supply voltage for HT consumer’s upto 5000 kVA will be 33 kV, 22 kV or 11 kV as the case may be. New High Tension consumers who want to avail a contract demand above 5000 KVA or existing High Tension consumers who want to enhance their demand beyond total contract demand of 5000 kVA should avail power at 110 KV or 132 KV as the case may be.

**13.4 Temporary Supply**

- a. The tariff applicable and minimum charges for the temporary supply of energy will be as follows:

**Table 13-12: Existing and Proposed Charges for Temporary Supply**

Description	Existing Charges		Proposed Charges					
	Minimum charge	Tariff applicable for entire consumption (Rs./kWh)	FY 2015-16		FY 2016-17		FY 2017-18	
			Minimum charge	Tariff applicable for entire consumption (Rs./kWh)	Minimum charge	Tariff applicable for entire consumption (Rs./kWh)	Minimum charge	Tariff applicable for entire consumption (Rs./kWh)
Lights or combined installation of lights and fans, motive power, heating and others	Rs. 200 per connection per month or part thereof	9.00	Rs. 214 per connection per month or part thereof	9.63	Rs. 234 per connection per month or part thereof	10.59	Rs. 257 per connection per month or part thereof	11.65
Special illumination	Rs. 500 per connection per month or part thereof	9.00	Rs. 535 per connection per month or part thereof	9.63	Rs. 586 per connection per month or part thereof	10.59	Rs. 642 per connection per month or part thereof	11.65
Construction and testing purpose for load exceeding 130 HP or 97 kW	Rs. 500 per connection per month or part thereof	9.00	Rs. 300 per kVA per month or part thereof	9.63	Rs. 329 per kVA per month or part thereof	10.59	Rs. 360 per kVA per month or part thereof	11.65

**NOTE:**

- a) *The rate for Special illumination shall apply to weddings, garden-parties and other Private/Government functions when the illumination is obtained through bulbs fastened in other surfaces of wall of buildings, on trees and poles inside the compound and in pandal etc., outside the main building.*
- b) *In cases where such Special illumination is done in the existing regular services the energy utilized for such illumination shall be metered separately and the consumption will be charged under Special illumination charge as levied under temporary supply.*
- c) *Wherever such Special illumination is done unauthorized, a penal charge of Rs. 500 for service shall be levied in addition to the existing tariff of the installation.*
- d) *Other conditions for connection of line and service connection charges, dismantling, security deposit etc. will be as per the rules now in force.*
- e) *For supply required at short notice that is within three days from the date of application for temporary service connections, an urgency charge of Rs. 50 shall be paid along with other normal tariff charges.*

**13.5 Hoardings/ Signboards**

- a. Electricity for lighting external advertisements, external hoardings and displays at departments stores, malls, multiplexes, theatres, clubs, hotels, bus shelters, Railway Stations shall be separately metered and charged at the tariff applicable for “Advertisements and Hoardings” category, except such displays which are for the purpose of indicating / displaying the name and other details of the shop, commercial premises itself. Such use of electricity shall be covered under the prevailing tariff for such shops or commercial premises. The connection for “Advertisements and Hoardings” category would be covered under the permanent supply of connection.
- b. The tariff applicable and minimum charges for hoardings/ signboards will be as follows:

**Table 13-13: Existing and Proposed Charges for Hoardings/ Signboards**

Description	Existing Charges		Proposed Charges					
	FC (Rs/ kVA/ Month or part thereof)	EC (Rs/ KWh)	FY 2015-16		FY 2016-17		FY 2017-18	
			FC/ Demand (Rs/ kVA/ Month)	EC (Rs/ KWh)	FC/ Demand (Rs/ kVA/ Month)	EC (Rs/ KWh)	FC/ Demand (Rs/ kVA/ Month)	EC (Rs/ KWh)
Hoardings/ Signboards	100.00	7.00	107.00	7.49	117.00	8.24	128.00	9.06

## CHAPTER 14. PROPOSED SCHEDULE OF SERVICES AND CHARGES

### 14.1 Charges for service connections

14.1.1 The following table shows the charges for service connections

Table 14-1: Proposed Service Connection Charges

	Particulars	Category	Existing Charges (Rs.)	Proposed Charges [Rs]
(A)	New LT/ HT overhead service lines	(i) One hut one Bulb	Nil	Nil
		(ii) Other single phase Services	250	250
		(iii) Three phase Services	500	500
		(iv) L.T C.T operated Meter services	3000	3000
		(v) H.T Services	5000	5000
(B)	New LT underground service lines	(i) Single Phase services -	500	500
		(ii) Three phase Services	1000	1000
(C)	Rating / re-rating of services	(i) Single phase Services	125	125
		(ii) Three phase Services	250	250
		(iii) L.T C.T operated Meter service	1500	1500
		(iv) H.T Service	2500	2500

**Note:** The above charges under (A) & (B) will be applicable for addition or alteration or reduction of connected load and enhancement or reduction of CMD or alteration of internal Electrical installations.

### 14.2 Testing of installation

14.2.1 Testing for servicing a new installation (or of an extension or alteration) - For the first test No Charge. Subsequent testing warranted due to absence of contractor or his representative (or) due to defects in wiring of consumer's premises or at the request of the consumer or at occasions that warrant testing of installations for the second time for reasons attributable to the consumers

Table 14-2: Proposed Testing of Installation Charges

Particulars	Existing Charges (Rs.)	Proposed Charges (Rs.)
(i) Domestic lighting / Commercial lighting / Agriculture Services	200	200
(ii) Other LT Services	900	900
(iii) HT/EHT Services	7500	7500

### 14.3 Testing of meters & metering arrangements

#### 14.3.1 For testing of meter at the instance of the consumer

**Table 14-3: Proposed Testing of Metering Charges**

Particulars	Existing Charges (Rs.)	Proposed Charges (Rs.)
(i) Single phase direct meter	150	150
(ii) Three phase direct meter upto 50 A	200	200
(iii) L.T C.T coil test	800	800
(iv) H.T Tri-vector Meter (0.5 class accuracy or CT operated LT meters.	1500	1500
(v) H.T Tri-vector Meter (0.2 class accuracy)	2000	2000
(vi) H.T Metering Cubicle	3500	3500

### 14.4 Testing of HT/EHT consumer protective equipment

**Table 14-4: Proposed Testing of HT/EHT Consumer Equipment Charges**

Particulars	Existing Charges (Rs.)	Proposed Charges (Rs.)
Testing charges for protective relays (Earth fault, line fault etc.)	4500	4500
Testing charges for one set of current transformer.	4500	4500
Testing charges for one set of potential transformers.	4500	4500
Testing charges for one set of circuit breaker	4500	4500
Testing charges for measurement of earth resistance.	3000	3000
Testing charges for Transformer oils	500	500

### 14.5 Disconnection / Re-connection charges

**Table 14-5: Proposed Disconnection/Reconnection Charges**

Particulars	Existing Charges (Rs.)	Proposed Charges (Rs.)
(i) Disconnection of L.T service on request	100	100
(ii) Disconnection of HT service on request	500	500
(iii) Reconnection of L.T Service (on all occasions).	100	100
(iv) Reconnection of HT Service (on all occasions).	500	500

### 14.6 Title transfer of services

**Table 14-6: Proposed Disconnection/Reconnection Charges**

Particulars	Existing Charges (Rs.)	Proposed Charges (Rs.)
(i) Domestic	250	250
(ii) Commercial lighting installation	500	500
(iii) All other LT installation	1000	1000
(iv) HT/EHT Services	2000	2000

#### 14.7 Furnishing of certified copies

Table 14-7: Proposed Certified Copies Charges

Particulars	Existing Charges (Rs.)	Proposed Charges (Rs.)
(i) Issue of duplicate Monthly bills for a month.	10	10
(ii) Contractor's completion-cum-test report	10	10
(iii) Ledger extract	20.00 / calendar year or part thereof.	20.00 / calendar year or part thereof.
(iv) Agreement	50	50
(v) Estimate	50	50

#### 14.8 Meter rent charges

Table 14-8: Proposed Meter Rent Charges

	Particulars	Existing Charges (Rs.)	Proposed Charges (Rs.)
(i)	Single-phase meter	10/- per meter/ month. or part thereof	10/- per meter/ month. or part thereof
(ii)	Three phase meter	25/- per meter/ month. or part thereof	25/- per meter/ month. or part thereof
(iii)	LT C.T operated meters	200/- per meter/ month. or part hereof	200/- per meter/ month. or part hereof
(iv)	HT/EHT metering equipments	500/- per meter/ month .or part thereof	500/- per meter/ month .or part thereof

#### 14.9 Fuse renewal charges

Table 14-9: Proposed Fuse Renewable Charges

Particulars	Existing Charges (Rs.)	Proposed Charges (Rs.)
(i) Domestic	-NIL	-NIL
(ii) Commercial	50	50
(iii) L.T Industrial	50	50
(iv) High Tension/Extra High Tension installation	250	250

#### 14.10 Shifting of meter board at consumer's request

Table 14-10: Proposed Shifting of meter board Charges

Particulars	Existing Charges (Rs.)	Proposed Charges (Rs.)
(i) LT single phase supply	125	125
(ii) LT Three phase supply	250	250

## **CHAPTER 15. PRAYER TO THE HON'BLE COMMISSION**

### **15.1 Prayer to the Hon'ble Commission**

The Electricity Department, Government of Puducherry (PED) respectfully prays to the Hon'ble Commission to:

1. Condone the delay in submission of the Multi Year Tariff (MYT) petition.
2. Admit the petition seeking Final True up for FY 2011-12 and FY 2012-13, Provisional True Up for FY 2013-14, Annual Performance Review for FY 2014-15 and Multi-Year Tariff Petition for FY 2015-16 to FY 2017-18 as per the provisions of JERC (Multi Year Distribution Tariff) Regulations, 2014;
3. Approve the total recovery of Final True up of FY 2011-12 and FY 2012-13, Provisional True Up for FY 2013-14, Annual Performance Review for FY 2014-15 and Aggregate Revenue Requirement for FY 2015-16 to FY 2017-18 and other claims as proposed by PED along with the carrying cost.
4. Review the provisional actual performance of FY 2013-14, and approve the Aggregate Revenue Requirement (ARR), and gap for FY 2013-14, subject to final approval on the basis of true-up based on audited accounts
5. Approve the consolidated gap till FY 2012-13 as regulatory assets as proposed in the petition and allow the balance recovery of the regulatory assets in FY 2015-16.
6. Approve the Aggregate Revenue Requirement (ARR), Expected Revenue from Charges (ERC) and the gap for MYT Control Period i.e. FY 2015-16 to FY 2017-18.
7. To allow cost related to accumulated RPO and past interest on security deposit into ARR of MYT Control Period of FY 2015-16 to FY 2017-18.
8. To Exempt PED from submission of consumer category-wise cost of supply considering the submission made in the petition.
9. Grant approval for the schedule of tariff, charges for services and schedule of

charges along with the surcharge as made in the petition for FY 2015-16 to FY 2017-18.

10. To exempt PED from introducing Time of Day (ToD) Tariff in FY 2015-16 for HT consumers.
11. Grant any other relief as the Hon'ble Commission may consider appropriate. The petitioner craves leave of the Hon'ble Commission to allow further submission, addition and alteration to this petition as may be necessary from time to time.
12. 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.

The petitioner declares that the subject matter of the petition has not been raised by the petitioner before any other competent forum, and that no other competent forum is currently seized of the matter or has passed any order in relation thereto.



## **Annexure 1: REGULATORY FORMATS**

**Format 1 – Energy Demand (FY 2011-12 to FY 2014-15)**

Category of Consumer	FY 2011-12 (Actual)			FY 2012-13 (Actual)			FY 2013-14 (Provisional)			FY 2014-15 (Revised Estimates)		
	Consumers [No]	Connected load [HP / kVA]	Sales [MUs]	Consumers [No]	Connected load [HP / kVA]	Sales [MUs]	Consumers [No]	Connected load [HP / kVA]	Sales [MUs]	Consumers [No]	Connected load [HP / kVA]	Sales [MUs]
Domestic	246,437	-	537.39	258252	0	581.11	272198	-	600.00	281766	0	691.94
Hut services	35,466	-	9.84	35490	0	10.00	35537	-	12.09	35539	0	12.00
Commercial	41,943	-	167.68	43479	0	182.30	45311	-	181.00	46510.9	0	187.84
Agriculture	6,828	59,538	56.56	6859	59742	56.80	6810	59,538	57.00	6836	59538	57.00
Public lighting	48,384	-	24.00	48485	0	27.90	49524	-	26.00	49890.6	0	26.00
Industrial	5,955	-	133.59	6057	0	142.53	6253	-	174.50	6314.1	0	161.72
Water tanks	80	-	50.80	85	0	54.71	85	-	51.60	110	0	37.40
Temporary supply	-	-	14.00	0	0	20.27	0	-	10.10	0	0	14.00
<b>Total LT</b>	<b>385,093</b>	<b>59,538</b>	<b>993.86</b>	<b>398,707</b>	<b>59,742</b>	<b>1,075.62</b>	<b>415,718</b>	<b>59,538</b>	<b>1,112.29</b>	<b>426,967</b>	<b>59,538</b>	<b>1,187.90</b>
Industrial	308	166,105	351.83	361	274996	957.92	363	270,500	815.45	340	287010	826.42
Commercial	93	119,237	622.77	58	17950	57.46	71	20,450	62.56	75	25721	71.52
Government Establishment and Water Tank	43	18,526	45.03	45	16200	45.48	49	18,500	48.77	51	22918	59.60
Industrial EHT	7	104,540	307.80	7	86200	338.50	7	90,500	326.65	7	104483	335.34
<b>Total HT</b>	<b>451</b>	<b>408,407</b>	<b>1,327.43</b>	<b>471</b>	<b>395346</b>	<b>1,399.36</b>	<b>490</b>	<b>399,950</b>	<b>1,253.43</b>	<b>473</b>	<b>440132</b>	<b>1,292.88</b>
Total metered	343,250	408,407	2,254.89	356,829	395,346	2,408.18	373,861	399,950	2,296.63	385,065	440,132	2,411.78
Total unmetered	42,294	59,538	66.40	42,349	59,742	66.80	42,347	59,538	69.09	42,375	59,538	69.00
<b>Total</b>	<b>385,544</b>	<b>467,945</b>	<b>2,321.29</b>	<b>399,178</b>	<b>455,088</b>	<b>2,474.98</b>	<b>416,208</b>	<b>459,488</b>	<b>2,365.72</b>	<b>427,440</b>	<b>499,670</b>	<b>2,480.78</b>

**Format 1 – Energy Demand (FY 2015-16 to FY 2017-18) MYT Control Period**

Category of Consumer	FY 2015-16 (Ensuing Year)			FY 2016-17 (Ensuing Year)			FY 2017-18 (Ensuing Year)		
	Consumers [No]	Connected load [HP / kVA]	Sales [MUs]	Consumers [No]	Connected load [HP / kVA]	Sales [MUs]	Consumers [No]	Connected load [HP / kVA]	Sales [MUs]
Domestic	294,202	-	652.84	307,186	-	698.03	320,744	-	746.35
Hut services	35,539	-	10.00	35,539	-	10.00	35,539	-	10.00
Commercial	48,173	-	193.70	49,894	-	209.20	51,676	-	225.93
Agriculture	6,836	59,538	56.60	6,836	59,538	56.63	6,836	59,538	56.63
Public lighting	50,055	-	30.61	50,220	-	32.14	50,385	-	33.74
Industrial	6,504	-	235.98	6,699	-	252.50	6,900	-	270.17
Water tanks	113	-	53.55	117	-	56.23	120	-	59.04
Temporary supply	-	-	21.00	-	-	22.05	-	-	23.15
<b>Total LT</b>	<b>441,421</b>	<b>59,538</b>	<b>1,254.28</b>	<b>456,491</b>	<b>59,538</b>	<b>1,336.77</b>	<b>472,201</b>	<b>59,538</b>	<b>1,425.01</b>
Industrial	351	294,363	944.61	362	301,976	1,010.74	373	309,858	1,081.49
Commercial	77	28,293	49.72	80	31,122	53.20	82	34,235	56.92
Government Establishment and Water Tank	53	25,210	53.00	56	27,731	56.18	59	30,504	59.55
Industrial EHT	7	109,695	366.30	7	115,167	388.28	7	120,912	411.58
<b>Total HT</b>	<b>488</b>	<b>457,561</b>	<b>1,413.63</b>	<b>504</b>	<b>475,996</b>	<b>1,508.40</b>	<b>521</b>	<b>495,509</b>	<b>1,609.54</b>
Total metered	399,535	457,561	2,601.31	414,620	475,996	2,778.53	430,347	495,509	2,967.92
Total unmetered	42,375	59,538	66.60	42,375	59,538	66.63	42,375	59,538	66.63
<b>Total</b>	<b>441,910</b>	<b>517,099</b>	<b>2,667.91</b>	<b>456,995</b>	<b>535,534</b>	<b>2,845.16</b>	<b>472,722</b>	<b>555,047</b>	<b>3,034.55</b>

**Format 2 - Information regarding Distribution Loss of Licensee**

Particulars	Calculation	Unit	Previous Year (Audited)		Previous Year (Provisional)	Current Year (Rev.Est)	Ensuing Year (Projections)		
			FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
Generation (own as well as any other connected generation net after deducting auxiliary consumption) within area of supply of DISCOM *	A	MU	235.73	216.49	241.22	114.95	229.90	229.90	229.90
Input energy (metered Import) received at interface points of DISCOM network.	B	MU	2,954.00	2,982.87	2,661.63	2,765.27	2,793.23	2,984.98	3,189.32
Input energy (metered Export) by the DISCOM at interface points of DISCOM network.	C	MU	(516.47)	(347.06)	(183.79)	(41.80)			
<b>Total energy available for sale within the licensed area to the consumers of the DISCOM</b>	<b>D=A+B+C</b>	<b>MU</b>	<b>2,673.26</b>	<b>2,852.30</b>	<b>2,719.06</b>	<b>2,838.42</b>	<b>3,023.13</b>	<b>3,214.87</b>	<b>3,419.21</b>
Energy billed to metered consumers within the licensed area of the DISCOM	E	MU	2,254.89	2,408.18	2,296.63	2,411.78	2,601.31	2,778.53	2,967.92
Energy billed to un-metered consumers within the licensed area of the DISCOM **	F	MU	66.40	66.80	69.09	69.00	66.60	66.63	66.63
<b>Total energy billed</b>	<b>G=E+F</b>	<b>MU</b>	<b>2,321.29</b>	<b>2,474.98</b>	<b>2,365.72</b>	<b>2,480.78</b>	<b>2,667.91</b>	<b>2,845.16</b>	<b>3,034.55</b>
Amount billed to consumer within the licensed area of DISCOM (incl FPPCA)	H	Rs.Crs	690.48	884.55	1,147.29	1,253.22	1,213.10	1,291.23	1,374.65
Amount realized by the DISCOM out of the amount Billed at H	I	Rs.Crs	671.71	801.81	1,031.59	1,190.56	1,152.44	1,226.67	1,305.92
<b>Collection efficiency (%) (= Revenue realized/ Amount billed)</b>	<b>J=(I/H)x100</b>	<b>%</b>	<b>97.28%</b>	<b>90.65%</b>	<b>89.92%</b>	<b>95.00%</b>	<b>95.00%</b>	<b>95.00%</b>	<b>95.00%</b>
<b>Energy realized by the DISCOM</b>	<b>K=L x G</b>	<b>MU</b>	<b>2,258.17</b>	<b>2,243.47</b>	<b>2,127.14</b>	<b>2,356.74</b>	<b>2,534.51</b>	<b>2,702.90</b>	<b>2,882.82</b>
<b>Distribution loss (%)</b>	<b>L={(D-G)/D}x100</b>	<b>%</b>	<b>13.17%</b>	<b>13.23%</b>	<b>13.00%</b>	<b>12.60%</b>	<b>11.75%</b>	<b>11.50%</b>	<b>11.25%</b>
<b>AT&amp;C Loss (%)</b>	<b>M={(D-K)/D}x100</b>	<b>%</b>	<b>15.53%</b>	<b>21.35%</b>	<b>21.77%</b>	<b>16.97%</b>	<b>16.16%</b>	<b>15.93%</b>	<b>15.69%</b>

**Format 3 – Energy Balance (in MUs)**

Item	April-March (Actuals)		April-March (Provisional)	April-March (R.E.)	Ensuing Year (Projections)		
	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
<b>Energy Requirement</b>							
Metered Sales	2,254.89	2,408.18	2,296.63	2,411.78	2,601.31	2,778.53	2,967.92
Unmetered Sales	66.40	66.80	69.09	69.00	66.60	66.63	66.63
<b>Total Sales within the UT</b>	<b>2,321.29</b>	<b>2,474.98</b>	<b>2,365.72</b>	<b>2,480.78</b>	<b>2,667.91</b>	<b>2,845.16</b>	<b>3,034.55</b>
Sales to common pool consumers / UI	516.47	347.06	183.79	41.80	-	-	-
<b>Total Sales</b>	<b>2,837.76</b>	<b>2,822.05</b>	<b>2,549.51</b>	<b>2,522.58</b>	<b>2,667.91</b>	<b>2,845.16</b>	<b>3,034.55</b>
<b>T&amp;D Losses</b>							
Loss (%)	13.17%	13.23%	13.00%	12.60%	11.75%	11.50%	11.25%
Loss (MU)	351.97	377.31	353.34	357.64	355.22	369.71	384.66
<b>Total Energy Requirement</b>	<b>3,189.74</b>	<b>3,199.36</b>	<b>2,902.86</b>	<b>2,880.22</b>	<b>3,023.13</b>	<b>3,214.87</b>	<b>3,419.21</b>
<b>Energy Availability</b>							
Net thermal generation (Own+ IPP + Share from Central Stations)	3,339.08	3,311.31	2,984.63	2,991	3,165	3,367	3,582
Net hydel generation (own+shared)							
Power purchase from Common Pool / UI / Traders / Exchange / Others		9.51	26.33	25.34			
<b>Net Power Purchased (1+2+3)</b>	<b>3,339.08</b>	<b>3,320.82</b>	<b>3,010.96</b>	<b>3,016.76</b>	<b>3,164.80</b>	<b>3,366.54</b>	<b>3,581.54</b>
Transmission Losses	149.35	121.46	108.11	136.54	141.67	151.66	162.32
<b>Total Energy Availability (4-5-6)</b>	<b>3,189.74</b>	<b>3,199.36</b>	<b>2,902.86</b>	<b>2,880.22</b>	<b>3,023.13</b>	<b>3,214.87</b>	<b>3,419.21</b>

**Format 4 – Power Purchase Cost for FY 2011-12**

Source	Capacity (MW)	Firm allocation to Licensee		Purchase (MU)	External losses (%)	Energy recd. by Licensee (MU)	VC (Ps/ Unit)	FC (Rs. Crore)	VC (Rs.Crore)	Others (Rs.Crore)	Total (Rs.Crore)
		%	MW								
<b>Central Sector Power Stations</b>											
<b>NTPC</b>	<b>5,100</b>	<b>4%</b>	<b>225</b>	<b>1,599.03</b>	<b>5%</b>	<b>1,519.07</b>	<b>152.35</b>	<b>107.37</b>	<b>243.62</b>	<b>51.51</b>	<b>402.50</b>
RSTPS Stage I & II	2100	5%	109	804.34	5%	764.12	139.43	38.39	112.15	17.74	168.28
RSTPS Stage -III	500	5%	27	191.36	5%	181.79	159.76	17.60	30.57	5.78	53.95
Talcher Stage- II	2000	4%	80	538.33	5%	511.41	161.31	40.75	86.84	27.97	155.56
Simhadri Stage- II	500	2%	9	65.00	5%	61.75	216.21	10.63	14.05	0.02	24.71
<b>NLC</b>	<b>1890</b>	<b>7%</b>	<b>124</b>	<b>829.04</b>	<b>5%</b>	<b>787.58</b>	<b>179.87</b>	<b>54.74</b>	<b>149.12</b>	<b>4.21</b>	<b>208.07</b>
NLC TPS II Stage I	630	12%	77	509.81	5%	484.32	179.54	27.23	91.53	2.69	121.45
NLC TPS II Stage II	840	4%	30	207.65	5%	197.26	179.66	11.53	37.30	1.09	49.92
NLC TPS I (Expn)	420	4%	17	111.58	5%	106.00	181.75	15.98	20.28	0.43	36.70
<b>NPCIL</b>	<b>1320</b>	<b>4%</b>	<b>47</b>	<b>238.79</b>	<b>5%</b>	<b>226.85</b>	265.91	-	<b>63.50</b>	<b>5.38</b>	<b>68.87</b>
MAPS	440	2%	8	40.22	5%	38.21	182.55	-	7.34	0.82	8.16
KAPS Stage I	880	4%	39	198.57	5%	188.64	282.79	-	56.15	4.56	60.71
<b>Others</b>				<b>436.50</b>	<b>4%</b>	<b>420.49</b>	<b>194.80</b>	-	<b>85.03</b>	<b>2.46</b>	<b>87.49</b>
TNEB (Pondy)				68.53	4%	65.79	183.77	-	12.59	0.00	12.60
TNEB (Karaikal)				331.58	4%	318.31	183.77	-	60.93	0.00	60.94
KSEB				36.39	0%	36.39	316.00	-	11.50	2.45	13.95
<b>OVER/ UNDER DRAWAL</b>							-	-		-	-
<b>Within State Generations</b>											
PPCL	<b>33</b>	<b>100%</b>	<b>33</b>	<b>235.73</b>	<b>0%</b>	235.73	188.49	<b>17.47</b>	<b>44.43</b>	<b>11.83</b>	<b>73.74</b>
<b>OTHER CHARGES</b>										<b>65.99</b>	<b>65.99</b>
<i>PGCIL Transmission Charges, Wheeling &amp; Other Charges</i>										63.80	63.80
Others										0.63	0.63

Source	Capacity (MW)	Firm allocation to Licensee		Purchase (MU)	External losses (%)	Energy recd. by Licensee (MU)	VC (Ps/Unit)	FC (Rs. Crore)	VC (Rs. Crore)	Others (Rs. Crore)	Total (Rs. Crore)
		%	MW								
<i>SRLDC</i>										0.92	0.92
<i>PCKL</i>										0.65	0.65
<b>Rebate</b>										(16.04)	(16.04)
<b>Other Adjustments</b>										<b>207.13</b>	<b>207.13</b>
<i>Additional payment due to True-up</i>										89.31	89.31
<i>Additional payment due to TNEB Billing @ Rs. 3.10/kWh for the years 2009-10, 2010-11 and 2011-12</i>										117.82	117.82
<b>RPO</b>										-	-
<b>Total</b>	<b>8,342.50</b>	<b>5%</b>	<b>429.31</b>	<b>3,339.08</b>	<b>4.47%</b>	<b>3,189.74</b>	<b>175.40</b>	<b>179.59</b>	<b>585.69</b>	<b>332.47</b>	<b>1,097.74</b>

**Format 4 – Power Purchase Cost for FY 2012-13**

Source	Capacity (MW)	Firm allocation to Licensee		Purchase (MU)	External losses (%)	Energy recd. by Licensee (MU)	VC (Ps/ Unit)	FC (Rs. Crore)	VC (Rs. Crore)	Others (Rs. Crore)	Supplementary (Rs. Crore)	Total (Rs. Crore)
		%	MW									
<b>Central Sector Power Stations</b>												
<b>NTPC</b>	<b>5,100</b>	<b>4%</b>	<b>225</b>	<b>1,579.11</b>	<b>3.97%</b>	<b>1,516.42</b>	<b>165.09</b>	<b>123.17</b>	<b>260.70</b>	<b>2.89</b>	<b>16.11</b>	<b>402.86</b>
RSTPS Stage I & II	2,100	5%	109	782.87	3.97%	751.79	168.06	44.86	131.57	1.46	8.13	186.01
RSTPS Stage –III	500	5%	27	165.51	3.97%	158.94	209.96	16.64	34.75	0.45	2.52	54.36
Talcher Stage- II	2,000	4%	80	514.60	3.97%	494.17	43.61	20.31	22.44	0.31	0.61	43.67
Simhadri Stage- II	500	2%	9	116.14	3.97%	111.53	619.43	41.36	71.94	0.67	3.38	117.35
Other Charges of NTPC											1.47	1.47
<b>NLC</b>	<b>1,890</b>	<b>7%</b>	<b>124</b>	<b>820.89</b>	<b>3.97%</b>	<b>788.30</b>	<b>194.87</b>	<b>59.68</b>	<b>159.97</b>	<b>0.56</b>	<b>3.65</b>	<b>223.86</b>
NLC TPS II Stage I	630	12%	77	504.17	3.97%	484.15	197.42	31.52	99.53	0.50	3.27	134.82
NLC TPS II Stage II	840	4%	30	195.03	3.97%	187.29	197.42	12.30	38.50	-	(0.22)	50.57
NLC TPS I (Expn)	420	4%	17	121.69	3.97%	116.86	180.22	15.87	21.93	0.06	0.60	38.46
<b>NPCL</b>	<b>1,320</b>	<b>4%</b>	<b>47</b>	<b>248.49</b>	<b>3.97%</b>	<b>238.62</b>	<b>280.92</b>	<b>-</b>	<b>69.81</b>	<b>0.59</b>	<b>0.51</b>	<b>70.90</b>
MAPS	440	2%	8	43.87	3.97%	42.13	200.97	-	8.82	0.09	0.09	9.00
KAPS Stage I	880	4%	39	204.62	3.97%	196.50	298.06	-	60.99	0.50	0.42	61.90
<b>Others</b>				<b>446.34</b>	<b>3.66%</b>	<b>430.02</b>	<b>336.76</b>	<b>3.60</b>	<b>150.31</b>	<b>4.76</b>	<b>(0.00)</b>	<b>158.67</b>
TNEB (Pondy)				79.58	4.00%	76.40	334.41	-	26.61	-	-	26.61
TNEB (Karaikal)				328.37	4.00%	315.24	328.01	-	107.71	1.79	-	109.49
Vallur Thermal				3.13	0.00%	3.13	210.51	1.01	0.66	(0.21)	(0.00)	1.45
KSEB				35.26	0.00%	35.26	434.75	2.59	15.33	3.19	-	21.11
<b>OVER/ UNDER DRAWAL</b>				9.51	<b>0.00%</b>	9.51	359.05	-	3.41	-	-	<b>3.41</b>
<b>Within State Generations</b>												<b>79.61</b>
<b>PPCL</b>	<b>33</b>	<b>100%</b>	<b>33</b>	<b>216.49</b>	<b>0.00%</b>	<b>216.49</b>	<b>252.79</b>	<b>24.88</b>	<b>54.73</b>	<b>-</b>	<b>-</b>	<b>79.61</b>
<b>OTHER CHARGES</b>							<b>-</b>	<b>-</b>	<b>-</b>	<b>60.03</b>		<b>60.03</b>
<i>PGCIL Transmission Charges, Wheeling &amp; Other Charges</i>							-	-	-	58.95		58.95
<i>POSOCO</i>							-	-	-	0.91		0.91
<i>PCKL / KPTCL</i>							-	-	-	0.17		0.17
<b>RPO</b>										8.65		8.65
<b>Rebate</b>							-	-	-	(15.53)		(15.53)
<b>Total</b>	<b>8,343</b>	<b>5%</b>	<b>429</b>	<b>3,320.82</b>	<b>3.66%</b>	<b>3,199.36</b>	<b>210.47</b>	<b>211.33</b>	<b>698.92</b>	<b>61.95</b>	<b>20.26</b>	<b>992.47</b>



**Format 4 – Power Purchase Cost for FY 2013-14**

Source	Capacity (MW)	Firm allocation to Licensee		Purchase (MU)	External losses (%)	Energy recd. by Licensee (MU)	VC (Ps/ Unit)	FC (Rs. Crore)	VC (Rs.Crore)	Others (Rs.Crore)	Supplementary (Rs. Crore)	Total (Rs.Crore)
		%	MW									
<b>Central Sector Power Stations</b>												
<b>NTPC</b>	<b>5,600</b>	<b>4.16%</b>	<b>233</b>	<b>1,333.83</b>	<b>4.00%</b>	<b>1,280.47</b>	<b>192.62</b>	<b>108.59</b>	<b>256.92</b>	<b>2.52</b>	<b>10.67</b>	<b>378.70</b>
RSTPS Stage I & II	2,100	5.20%	109	623.49	4.00%	598.55	208.67	39.23	130.11	0.42	-	169.75
RSTPS Stage -III	500	5.40%	27	136.49	4.00%	131.03	261.15	14.15	35.64	0.09	-	49.88
Talcher Stage- II	2,000	4.00%	80	492.83	4.00%	473.12	148.42	39.88	73.15	1.96	-	114.99
Simhadri Stage- II	1,000	1.67%	17	81.02	4.00%	77.78	222.51	15.33	18.03	0.05	-	33.41
Other Charges								-	-	-	10.67	10.67
<b>NLC</b>	<b>1,890</b>	<b>6.58%</b>	<b>124</b>	<b>782.79</b>	<b>4.00%</b>	<b>751.48</b>	<b>229.51</b>	<b>45.64</b>	<b>179.66</b>	<b>0.76</b>	<b>6.34</b>	<b>232.40</b>
NLC TPS II Stage I & II	1,470	7.29%	107	664.55	4.00%	637.97	230.61	32.92	153.25	0.15	5.59	191.92
NLC TPS I (Expn)	420	4.08%	17	118.25	4.00%	113.52	223.36	12.71	26.41	0.61	0.75	40.48
<b>NPCIL</b>	<b>2,320</b>	<b>3.71%</b>	<b>86</b>	<b>311.27</b>	<b>4.00%</b>	<b>298.82</b>	<b>271.36</b>	<b>-</b>	<b>84.47</b>	<b>0.11</b>	<b>1.56</b>	<b>86.14</b>
MAPS	440	1.90%	8	32.23	4.00%	30.94	231.05	-	7.45	-	(0.01)	7.44
KAPS Stage I	880	4.40%	39	245.62	4.00%	235.79	300.69	-	73.85	0.08	0.99	74.92
Kudankulam	1,000	3.90%	39	33.43	4.00%	32.09	94.72	-	3.17	0.03	0.58	3.78
<b>Others</b>				<b>315.51</b>	<b>3.48%</b>	<b>304.52</b>	<b>343.14</b>	<b>12.52</b>	<b>108.26</b>	<b>0.73</b>	<b>0.25</b>	<b>121.77</b>
TNEB (Pondy)				14.64	4.00%	14.06	347.03	-	5.08	0.00	0.25	5.34
TNEB (Karaikal)				222.29	4.00%	213.40	347.00	-	77.13	0.00	-	77.14
Vallur Thermal Project				37.83	4.00%	36.32	212.44	9.72	8.04	(0.11)	-	17.65
KSEB				40.75	0.00%	40.75	442.00	2.80	18.01	0.83	-	21.64
<b>OVER/ UNDER DRAWAL</b>				<b>26.33</b>	<b>0.00%</b>	<b>26.33</b>	<b>86.48</b>	<b>-</b>	<b>2.28</b>	<b>-</b>	<b>-</b>	<b>2.28</b>
<b>Within State Generations</b>												
<b>PPCL</b>	<b>33</b>	<b>100.00 %</b>	<b>33</b>	<b>241.22</b>	<b>0.00%</b>	<b>241.22</b>	<b>291.60</b>	<b>23.59</b>	<b>70.34</b>	<b>0.14</b>	<b>6.40</b>	<b>100.47</b>
<b>OTHER CHARGES</b>												
<i>PGCIL Transmission Charges, Wheeling &amp; Other Charges</i>							-	-	-	67.25	-	67.25
<i>POSOCO</i>							-	-	-	0.92	-	0.92
<i>PCKL</i>							-	-	-	0.87	-	0.87
<b>RPO</b>										15.71		15.71
<b>Rebate</b>										(12.46)		(12.46)
<b>Total</b>	<b>9,843</b>	<b>4.83%</b>	<b>476</b>	<b>3,010.96</b>	<b>3.59%</b>	<b>2,902.86</b>	<b>233.13</b>	<b>190.34</b>	<b>701.93</b>	<b>76.55</b>	<b>25.22</b>	<b>994.04</b>

**Format 4 – Power Purchase Cost for FY 2014-15**

Source	Capacity (MW)	Firm allocation to Licensee		Net Gen. Avail. (MU)	Avail. / PLF (in %)	Purchase (MU)	External losses (%)	Energy recd. by Licensee (MU)	VC (Ps/ Unit)	FC (Rs. Crore)	VC (Rs.Crore)	Others (Rs.Crore)	Supplementary (Rs. Crore)	Total (Rs.Crore)
		%	MW											
<b>Central Sector Power Stations</b>														
<b>NTPC</b>	<b>5,600</b>	<b>3.63%</b>	<b>203</b>	<b>37,935.18</b>		<b>1,385.12</b>	<b>5.00%</b>	<b>1,315.87</b>	<b>210.78</b>	<b>92.66</b>	<b>291.96</b>	<b>0.60</b>	<b>11.60</b>	<b>396.81</b>
RSTPS Stage I & II	2,100	4.47%	94	14,620.22	85%	653.52	5.00%	620.85	239.98	32.45	156.83	0.04	(0.24)	189.08
RSTPS Stage -III	500	4.74%	24	3,399.10	83%	161.12	5.00%	153.06	250.17	11.52	40.31	0.01	0.15	52.00
Talcher Stage- II	2,000	3.44%	69	13,328.34	85%	458.49	5.00%	435.57	145.71	38.29	66.81	0.54	0.22	105.87
Simhadri Stage- II	1,000	1.70%	17	6,587.52	80%	111.99	5.00%	106.39	250.11	10.39	28.01	0.01	0.48	38.88
<b>NLC</b>	<b>1,890</b>	<b>6.50%</b>	<b>123</b>	<b>13,441.04</b>		<b>889.55</b>	<b>5.00%</b>	<b>845.07</b>	<b>216.24</b>	<b>65.29</b>	<b>192.36</b>	<b>0.31</b>	<b>5.59</b>	<b>263.55</b>
NLC TPS II Stage I	630	12.09%	76	4,613.72	95%	557.80	5.00%	529.91	218.01	35.30	121.61	0.10	1.00	158.01
NLC TPS II Stage II	840	3.53%	30	5,629.18	85%	198.71	5.00%	188.77	217.95	12.12	43.31	0.03	0.32	55.79
NLC TPS I (Expn)	420	4.16%	17	3,198.14	95%	133.04	5.00%	126.39	206.26	17.87	27.44	0.17	0.40	45.89
<b>NPCIL</b>	<b>2,320</b>	<b>3.58%</b>	<b>83</b>			<b>390.20</b>	<b>5.00%</b>	<b>370.69</b>	<b>236.40</b>	<b>-</b>	<b>92.24</b>	<b>0.56</b>	<b>1.83</b>	<b>94.63</b>
MAPS	440	1.82%	8	2,428.27	70%	44.19	5.00%	41.98	202.74	-	8.96	0.07	0.07	9.10
KAPS Stage I	880	4.09%	36	5,689.09	82%	232.68	5.00%	221.05	298.32	-	69.41	0.46	1.76	71.63
Kudunkulam	1,000	3.90%	39	-		113.32	5.00%	107.65	122.37	-	13.87	0.03	-	13.90
<b>Others</b>	<b>1,000</b>	<b>1.70%</b>	<b>17</b>			<b>562.11</b>	<b>3.87%</b>	<b>540.36</b>	<b>330.61</b>	<b>18.11</b>	<b>185.84</b>	<b>(0.03)</b>	<b>-</b>	<b>203.92</b>
Others														-
TNEB (Pondy)						-	4.00%	-	-	-	-	-	-	-
TNEB (Karaikal)						428.72	4.00%	411.57	347.00	-	148.77	0.02	-	148.78
Vallur Thermal Project	1,000	1.70%	17	5,405.80	66%	91.90	5.00%	87.30	197.89	15.12	18.19	(0.04)	-	33.26
KSEB						41.49	0.00%	41.49	455.22	2.99	18.89	-	-	21.88
<b>OVER/ UNDER DRAWAL</b>						<b>25.34</b>	<b>0.00%</b>	<b>25.34</b>	<b>54.49</b>	<b>-</b>	<b>1.38</b>	<b>-</b>	<b>-</b>	<b>1.38</b>
<b>Within State Generations</b>														-
<b>PPCL</b>	<b>33</b>	<b>100%</b>	<b>33</b>	<b>229.90</b>	<b>85%</b>	<b>114.95</b>	<b>-</b>	<b>114.95</b>	<b>285.96</b>	<b>25.09</b>	<b>32.87</b>	<b>(0.98)</b>	<b>-</b>	<b>56.98</b>
<b>OTHER CHARGES</b>						<b>-</b>			<b>-</b>	<b>-</b>	<b>-</b>	<b>63.38</b>	<b>-</b>	<b>63.38</b>
<i>PGCIL Transmission Charges, Wheeling &amp; Other Charges</i>												61.63		61.63
<i>POSOCO</i>												0.84		0.84
<i>PCKL</i>												0.90		0.90
<b>RPO Compliance Cost</b>												19.78		19.78
<b>Rebate</b>												(12.49)		(12.49)
<b>Total</b>	<b>10,842.50</b>	<b>4%</b>	<b>458.44</b>			<b>3,367.27</b>	<b>4.60%</b>	<b>3,212.28</b>	<b>236.59</b>	<b>201.15</b>	<b>796.65</b>	<b>71.13</b>	<b>19.02</b>	<b>1,087.95</b>

**Format 4 – Power Purchase Cost for FY 2015-16**

Source	Capacity (MW)	Firm allocation to Licensee		Gen. Avail. (MU)	Avail. / PLF (in %)	Purchase (MU)	External losses (%)	Energy recd. by Licensee (MU)	VC (Ps/ Unit)	FC (Rs. Crore)	VC (Rs.Crore)	Total (Rs.Crore)
		%	MW									
<b>Central Sector Power Stations</b>												
<b>NTPC</b>	<b>5,600</b>	<b>4%</b>	<b>203</b>	<b>37,935.18</b>		<b>1,383.15</b>	<b>5%</b>	<b>1,313.99</b>	<b>221.26</b>	<b>96.36</b>	<b>306.04</b>	<b>402.40</b>
RSTPS Stage I & II	2,100	4%	94	14,620.22	85%	653.52	5%	620.85	251.98	33.75	164.68	198.43
RSTPS Stage –III	500	5%	24	3,399.10	83%	161.12	5%	153.06	262.68	11.98	42.32	54.31
Talcher Stage- II	2,000	3%	69	13,328.34	85%	458.49	5%	435.57	153.00	39.82	70.15	109.97
Simhadri Stage- II	1,000	2%	17	6,587.52	80%	110.01	5%	104.51	262.61	10.80	28.89	39.69
												-
<b>NLC</b>	<b>1,890</b>	<b>7%</b>	<b>123</b>	<b>13,441.04</b>		<b>886.35</b>	<b>5%</b>	<b>842.04</b>	<b>227.09</b>	<b>67.90</b>	<b>201.28</b>	<b>280.37</b>
NLC TPS II Stage I	630	12%	76	4,613.72	95%	557.80	5%	529.91	228.92	36.71	127.69	164.40
NLC TPS II Stage II	840	4%	30	5,629.18	85%	198.71	5%	188.77	228.85	12.61	45.47	58.08
NLC TPS I (Expn)	420	4%	17	3,198.14	95%	129.84	5%	123.35	216.57	18.59	28.12	46.71
<b>NPCL</b>	<b>2,320</b>	<b>4%</b>	<b>82</b>	<b>10,876.77</b>		<b>381.18</b>	<b>5%</b>	<b>362.12</b>	<b>301.60</b>	<b>-</b>	<b>114.97</b>	<b>114.97</b>
MAPS	440	2%	8	2,428.27	70%	44.19	5%	41.98	212.88	-	9.41	9.41
KAPS Stage I	880	4%	36	5,689.09	82%	232.68	5%	221.05	313.24	-	72.89	72.89
Kudankulam	1,000	4%	38	2,759.40	70%	104.31	5%	99.09	313.24	-	32.67	32.67
<b>Others</b>	<b>2,000</b>	<b>1%</b>	<b>27</b>	<b>12,999.84</b>	<b>-</b>	<b>517.68</b>	<b>4%</b>	<b>496.87</b>	<b>320.54</b>	<b>30.00</b>	<b>165.94</b>	<b>196.19</b>
Others												-
TNEB (Pondy)			-									-
TNEB (Karaikal)			-			300.32	4%	288.31	364.35	-	109.42	109.42
Vallur Thermal Project	1,000	2%	17	6,552.48	80%	111.39	5%	105.82	207.79	15.72	23.15	38.87
Tuticorin NLC Project *	1,000	1%	10	6,447.36	80%	64.47	5%	61.25	210.00	11.17	13.54	24.71
KSEB	-					41.49	0%	41.49	477.98	3.11	19.83	22.94
<b>OVER/ UNDER DRAWAL</b>												
<b>Within State Generations</b>												
<b>PPCL</b>	<b>33</b>	<b>100%</b>	<b>33</b>	<b>229.90</b>	<b>85%</b>	<b>229.90</b>	<b>0%</b>	<b>229.90</b>	<b>300.26</b>	<b>26.09</b>	<b>69.03</b>	<b>95.12</b>
<b>OTHER CHARGES</b>												
<i>PGCIL Transmission Charges, Wheeling &amp; Other Charges</i>	-	-	-	-	-							71.78
<i>POSO</i>												1.05
<i>PCKL</i>												0.95
<b>RPO Compliance Cost</b>												31.89
<b>Rebate</b>												(13.10)
<b>Total</b>	<b>11,842.50</b>	<b>4%</b>	<b>467.24</b>	<b>75,482.72</b>		<b>3,398.26</b>	<b>5%</b>	<b>3,244.91</b>	<b>252.26</b>	<b>220.36</b>	<b>857.25</b>	<b>1,181.62</b>

\*The availability of power from these plants is subject to signing of MoU/ CoD of the plant in the years considered for power purchase.

**Format 4 – Power Purchase Cost for FY 2016-17**

Source	Capacity (MW)	Firm allocation to Licensee		Gen. Avail. (MU)	Avail. / PLF (in %)	Purchase (MU)	External losses (%)	Energy recd. by Licensee (MU)	VC (Ps/ Unit)	FC (Rs. Crore)	VC (Rs.Crore)	Total (Rs.Crore)
		%	MW									
<b>Central Sector Power Stations</b>												
<b>NTPC</b>	<b>5,600</b>	<b>4%</b>	<b>203</b>	<b>37,935.18</b>		<b>1,383.15</b>	<b>5%</b>	<b>1,313.99</b>	<b>232.32</b>	<b>100.22</b>	<b>321.34</b>	<b>421.55</b>
RSTPS Stage I & II	2,100	4%	94	14,620.22	85%	653.52	5%	620.85	264.58	35.10	172.91	208.01
RSTPS Stage –III	500	5%	24	3,399.10	83%	161.12	5%	153.06	275.82	12.46	44.44	56.90
Talcher Stage- II	2,000	3%	69	13,328.34	85%	458.49	5%	435.57	160.65	41.42	73.66	115.07
Simhadri Stage- II	1,000	2%	17	6,587.52	80%	110.01	5%	104.51	275.74	11.23	30.33	41.57
<b>NLC</b>	<b>2,390</b>	<b>6%</b>	<b>141</b>	<b>17,185.94</b>		<b>1,018.55</b>	<b>5%</b>	<b>967.62</b>	<b>238.54</b>	<b>88.01</b>	<b>242.97</b>	<b>330.98</b>
NLC TPS II Stage I	630	12%	76	4,613.72	95%	557.80	5%	529.91	240.36	38.18	134.07	172.25
NLC TPS II Stage II	840	4%	30	5,629.18	85%	198.71	5%	188.77	240.29	13.11	47.75	60.86
NLC TPS I (Expn)	420	4%	17	3,198.14	95%	129.84	5%	123.35	227.40	19.33	29.53	48.86
NLC TPS II (Expn) *	500	4%	18	3,744.90	95%	132.19	5%	125.59	239.19	17.39	31.62	49.01
<b>NPCL</b>	<b>2,320</b>	<b>4%</b>	<b>82</b>	<b>13,636.17</b>		<b>485.49</b>	<b>5%</b>	<b>461.21</b>	<b>319.31</b>	<b>-</b>	<b>155.02</b>	<b>155.02</b>
MAPS	440	2%	8	2,428.27	70%	44.19	5%	41.98	223.52	-	9.88	9.88
KAPS Stage I	880	4%	36	5,689.09	82%	232.68	5%	221.05	328.90	-	76.53	76.53
Kudankulam	1,000	4%	38	5,518.80	70%	208.61	5%	198.18	328.90	-	68.61	68.61
<b>Others</b>	<b>2,000</b>	<b>1%</b>	<b>27</b>	<b>13,000</b>	<b>-</b>	<b>526.68</b>	<b>4%</b>	<b>505.52</b>	<b>337.36</b>	<b>31.20</b>	<b>177.68</b>	<b>208.89</b>
Others												-
TNEB (Pondy)									-	-		-
TNEB (Karaikal)						309.33	4%	296.96	382.57	-	118.34	118.34
Vallur Thermal Project	1,000	2%	17	6,552.48	80%	111.39	5%	105.82	218.18	16.35	24.30	40.66
Tuticorin NLC Project *	1,000	1%	10	6,447.36	80%	64.47	5%	61.25	220.50	11.62	14.22	25.83
KSEB	-					41.49	0%	41.49	501.88	3.23	20.82	24.06
<b>OVER/ UNDER DRAWAL</b>												
<b>Within State Generations</b>												-
<b>PPCL</b>	<b>33</b>	<b>100%</b>	<b>33</b>	<b>229.90</b>	<b>85%</b>	<b>229.90</b>	<b>0%</b>	<b>229.90</b>	<b>315.27</b>	<b>27.14</b>	<b>72.48</b>	<b>99.62</b>
<b>OTHER CHARGES</b>												82.48
<i>PGCIL Transmission Charges, Wheeling &amp; Other Charges</i>	-	-	-	-	-							80.39
<i>POSOCO</i>												1.10
<i>PCKL</i>												0.99
<b>RPO Compliance Cost</b>												42.38
<b>Rebate</b>												(13.94)
<b>Total</b>	<b>12,343</b>	<b>4%</b>	<b>485</b>	<b>81,987</b>		<b>3,643.76</b>	<b>5%</b>	<b>3,478.24</b>	<b>266.07</b>	<b>246.57</b>	<b>969.49</b>	<b>1,284.60</b>

\*The availability of power from these plants is subject to signing of MoU/ CoD of the plant in the years considered for power purchase.

**Format 4 – Power Purchase Cost for FY 2017-18**

Source	Capacity (MW)	Firm allocation to Licensee		Gen. Avail. (MU)	Avail. / PLF (in %)	Purchase (MU)	External losses (%)	Energy recd. by Licensee (MU)	VC (Ps/ Unit)	FC (Rs. Crore)	VC (Rs.Crore)	Total (Rs.Crore)
		%	MW									
<b>Central Sector Power Stations</b>												
<b>NTPC</b>	<b>5,600</b>	<b>4%</b>	<b>203</b>	<b>37,935.18</b>		<b>1,383.15</b>	<b>5%</b>	<b>1,313.99</b>	<b>243.94</b>	<b>104.22</b>	<b>337.40</b>	<b>441.63</b>
RSTPS Stage I & II	2,100	4%	94	14,620.22	85%	653.52	5%	620.85	277.81	36.51	181.55	218.06
RSTPS Stage –III	500	5%	24	3,399.10	83%	161.12	5%	153.06	289.61	12.96	46.66	59.62
Talcher Stage- II	2,000	3%	69	13,328.34	85%	458.49	5%	435.57	168.68	43.07	77.34	120.41
Simhadri Stage- II	1,000	2%	17	6,587.52	80%	110.01	5%	104.51	289.53	11.68	31.85	43.53
<b>NLC</b>	<b>2,390</b>	<b>6%</b>	<b>141</b>	<b>17,185.94</b>		<b>1,018.55</b>	<b>5%</b>	<b>967.62</b>	<b>250.47</b>	<b>91.53</b>	<b>255.12</b>	<b>346.65</b>
NLC TPS II Stage I	630	12%	76	4,613.72	95%	557.80	5%	529.91	252.38	39.71	140.78	180.48
NLC TPS II Stage II	840	4%	30	5,629.18	85%	198.71	5%	188.77	252.30	13.63	50.14	63.77
NLC TPS I (Expn)	420	4%	17	3,198.14	95%	129.84	5%	123.35	238.77	20.10	31.00	51.11
NLC TPS II (Expn) *	500	4%	18	3,744.90	95%	132.19	5%	125.59	251.15	18.09	33.20	51.29
<b>NPCIL</b>	<b>2,320</b>	<b>4%</b>	<b>82</b>	<b>13,636.17</b>		<b>485.49</b>	<b>5%</b>	<b>461.21</b>	<b>335.27</b>	<b>-</b>	<b>162.77</b>	<b>162.77</b>
MAPS	440	2%	8	2,428.27	70%	44.19	5%	41.98	234.70	-	10.37	10.37
KAPS Stage I	880	4%	36	5,689.09	82%	232.68	5%	221.05	345.34	-	80.36	80.36
Kudankulam	1,000	4%	38	5,518.80	70%	208.61	5%	198.18	345.34	-	72.04	72.04
<b>Others</b>	<b>2,000</b>	<b>1%</b>	<b>27</b>	<b>13,000</b>	<b>-</b>	<b>535.96</b>	<b>4%</b>	<b>514.43</b>	<b>355.05</b>	<b>32.45</b>	<b>190.29</b>	<b>222.75</b>
Others	-	-	-	-	-	-	-	-	-	-	-	-
TNEB (Pondy)	-	-	-	-	-	-	-	-	-	-	-	-
TNEB (Karaikal)	-	-	-	-	-	318.61	4%	305.86	401.70	-	127.98	127.98
Vallur Thermal Project	1,000	2%	17	6,552.48	80%	111.39	5%	105.82	229.08	17.01	25.52	42.53
Tuticorin NLC Project *	1,000	1%	10	6,447.36	80%	64.47	5%	61.25	231.53	12.08	14.93	27.01
KSEB	-	-	-	-	-	41.49	0%	41.49	526.97	3.36	21.86	25.23
<b>OVER/ UNDER DRAWAL</b>												
<b>Within State Generations</b>												
<b>PPCL</b>	<b>33</b>	<b>100%</b>	<b>33</b>	<b>229.90</b>	<b>85%</b>	<b>229.90</b>	<b>0%</b>	<b>229.90</b>	<b>331.03</b>	<b>28.22</b>	<b>76.10</b>	<b>104.33</b>
<b>OTHER CHARGES</b>												
<i>PGCIL Transmission Charges, Wheeling &amp; Other Charges</i>												84.63
<i>POSO</i>												1.16
<i>PCKL</i>												1.04
<b>RPO Compliance Cost</b>												55.08
<b>Rebate</b>												(14.83)
<b>Total</b>	<b>12,343</b>	<b>4%</b>	<b>485</b>	<b>81,987.02</b>		<b>3,653.04</b>	<b>5%</b>	<b>3,487.15</b>	<b>279.68</b>	<b>256.43</b>	<b>1,021.69</b>	<b>1,350.13</b>

\*The availability of power from these plants is subject to signing of MoU/ CoD of the plant in the years considered for power purchase.

**Format 4 A – Power Purchase Cost (Under MoD) for FY 2014-15**

Source	Capacity (MW)	Firm allocation to Licensee		Purchase (MU)	External losses (%)	Energy recd. by Licensee (MU)	VC (Ps/ Unit)	FC (Rs. Crore)	VC (Rs.Crore)	Others (Rs.Crore)	Supplementary (Rs. Crore)	Total (Rs.Crore)
		%	MW									
<b>Central Sector Power Stations</b>												
<b>NTPC</b>	<b>5,600</b>	4%	<b>203</b>	<b>1,034.62</b>	<b>5.00%</b>	<b>982.89</b>	198.88	<b>92.66</b>	<b>205.77</b>	<b>0.60</b>	<b>0.62</b>	<b>299.64</b>
RSTPS Stage I & II	2,100	4%	94	507.15	5.00%	481.79	239.98	32.45	121.71	0.04	(0.24)	153.96
RSTPS Stage -III	500	5%	24	47.22	5.00%	44.86	250.17	11.52	11.81	0.01	0.15	23.50
Talcher Stage- II	2,000	3%	69	458.49	5.00%	435.57	145.71	38.29	66.81	0.54	0.22	105.87
Simhadri Stage- II	1,000	2%	17	21.76	5.00%	20.67	250.11	10.39	5.44	0.01	0.48	16.31
<b>NLC</b>	<b>1,890</b>	<b>7%</b>	<b>123</b>	<b>889.55</b>	<b>5.00%</b>	<b>845.07</b>	<b>216.24</b>	<b>65.29</b>	<b>192.36</b>	<b>0.31</b>	<b>1.72</b>	<b>259.69</b>
NLC TPS II Stage I	630	12%	76	557.80	5.00%	529.91	218.01	35.30	121.61	0.10	1.00	158.01
NLC TPS II Stage II	840	4%	30	198.71	5.00%	188.77	217.95	12.12	43.31	0.03	0.32	55.79
NLC TPS I (Expn)	420	4%	17	133.04	5.00%	126.39	206.26	17.87	27.44	0.17	0.40	45.89
<b>NPCIL</b>	<b>2,320</b>	<b>4%</b>	<b>83</b>	<b>390.20</b>	<b>5.00%</b>	<b>370.69</b>	<b>200.86</b>	-	<b>78.37</b>	<b>0.95</b>	<b>1.83</b>	<b>81.15</b>
MAPS	440	2%	8	44.19	5.00%	41.98	202.74	-	8.96	0.49	0.07	9.52
KAPS Stage I	880	4%	36	232.68	5.00%	221.05	298.32	-	69.41	0.46	1.76	71.63
Kudunkulam	1,000	4%	39	113.32	5.00%	107.65	122.37	-	13.87	0.03	-	13.90
<b>Others</b>				<b>562.11</b>	<b>3.70%</b>	<b>541.28</b>	<b>330.61</b>	<b>18.11</b>	<b>185.84</b>	<b>(0.03)</b>	-	<b>203.92</b>
Others												
TNEB (Pondy)				-	4.00%	-	-	-	-	-	-	-
TNEB (Karaikal)				428.72	4.00%	411.57	347.00	-	148.77	0.02	-	148.78
Vallur Thermal Project				91.90	4.00%	88.22	197.89	15.12	18.19	(0.04)	-	33.26
KSEB				41.49	0.00%	41.49	455.22	2.99	18.89	-	-	21.88
<b>OVER/ UNDER DRAWAL</b>				25.34	<b>0.00%</b>	25.34	54.49	-	1.38	-	-	<b>1.38</b>
<b>Within State Generations</b>												
<b>PPCL</b>	33	100%	33	114.95	<b>0.00%</b>	114.95	285.96	25.09	32.87	(0.98)	-	56.98
<b>OTHER CHARGES</b>												
<i>PGCIL Transmission Charges, Wheeling &amp; Other Charges</i>										61.63	-	61.63
<i>POSO</i>										0.84	-	0.84
<i>PCKL</i>										0.90	-	0.90
<b>RPO Compliance Cost</b>										19.78	-	19.78
<b>Rebate</b>										(12.49)	-	(12.49)
<b>Total</b>	<b>9,843</b>	<b>4%</b>	<b>441</b>	<b>3,016.76</b>	<b>4.53%</b>	<b>2,880.22</b>	<b>230.91</b>	<b>201.15</b>	<b>696.59</b>	<b>71.52</b>	<b>4.17</b>	<b>973.43</b>

**Format 4 A – Power Purchase Cost (Under MoD) for FY 2015-16**

Source	Capacity (MW)	Firm allocation to Licensee		Purchase (MU)	External losses (%)	Energy recd. by Licensee (MU)	VC (Ps/ Unit)	FC (Rs. Crore)	VC (Rs.Crore)	Total (Rs.Crore)
		%	MW							
<b>Central Sector Power Stations</b>										
<b>NTPC</b>	<b>5,600</b>	4%	<b>203</b>	<b>1,149.69</b>	<b>5.00%</b>	<b>1,092.20</b>	212.86	<b>96.36</b>	<b>244.72</b>	<b>341.08</b>
RSTPS Stage I & II	2,100	4%	94	653.52	5.00%	620.85	251.98	33.75	164.68	198.43
RSTPS Stage -III	500	5%	24	37.67	5.00%	35.79	262.68	11.98	9.89	21.88
Talcher Stage- II	2,000	3%	69	458.49	5.00%	435.57	153.00	39.82	70.15	109.97
Simhadri Stage- II	1,000	2%	17	-	5.00%	-	262.61	10.80	-	10.80
<b>NLC</b>	<b>1,890</b>	<b>7%</b>	<b>123</b>	<b>886.35</b>	<b>5.00%</b>	<b>842.04</b>	<b>227.09</b>	<b>67.90</b>	<b>201.28</b>	<b>269.19</b>
NLC TPS II Stage I	630	12%	76	557.80	5.00%	529.91	228.92	36.71	127.69	164.40
NLC TPS II Stage II	840	4%	30	198.71	5.00%	188.77	228.85	12.61	45.47	58.08
NLC TPS I (Expn)	420	4%	17	129.84	5.00%	123.35	216.57	18.59	28.12	46.71
<b>NPCIL</b>	<b>2,320</b>	<b>4%</b>	<b>82</b>	<b>381.18</b>	<b>5.00%</b>	<b>362.12</b>	<b>301.60</b>	-	<b>114.97</b>	<b>114.97</b>
MAPS	440	2%	8	44.19	5.00%	41.98	212.88	-	9.41	9.41
KAPS Stage I	880	4%	36	232.68	5.00%	221.05	313.24	-	72.89	72.89
Kudankulam	1,000	4%	38	104.31	5.00%	99.09	313.24	-	32.67	32.67
<b>Others</b>	<b>2,000.00</b>	<b>1%</b>	<b>27.00</b>	<b>517.68</b>	<b>4.02%</b>	<b>496.87</b>	<b>320.54</b>	<b>30.00</b>	<b>165.94</b>	<b>195.94</b>
TNEB (Pondy)	-	-	-	-	-	-	-	-	-	-
TNEB (Karaikal)	-	-	-	300.32	4.00%	288.31	364.35	-	109.42	109.42
Vallur Thermal Project	1,000	2%	17	111.39	5.00%	105.82	207.79	15.72	23.15	38.87
Tuticorin NLC Project *	1,000	1%	10	64.47	5.00%	61.25	210.00	11.17	13.54	24.71
KSEB	-	-	-	41.49	0.00%	41.49	477.98	3.11	19.83	22.94
<b>OVER/ UNDER DRAWAL</b>										
<b>Within State Generations</b>										
<b>PPCL</b>	33	-	33	229.90	0.00%	229.90	300.26	26.09	69.03	95.12
<b>OTHER CHARGES</b>										
<i>PGCIL Transmission Charges, Wheeling &amp; Other Charges</i>	-	-	-	-	0.00%	-	-	-	-	71.78
<i>POSOCO</i>	-	-	-	-	0.00%	-	-	-	-	1.05
<i>PCKL</i>	-	-	-	-	0.00%	-	-	-	-	0.95
<b>RPO Compliance Cost</b>										31.89
<i>Rebate</i>										(13.10)
<b>Total</b>	<b>11,842.50</b>	<b>4%</b>	<b>467.24</b>	<b>3,164.80</b>	<b>4%</b>	<b>3,023.13</b>	<b>251.50</b>	<b>220.36</b>	<b>795.93</b>	<b>1,108.87</b>

\*The availability of power from these plants is subject to signing of MoU/ CoD of the plant in the years considered for power purchase.

**Format 4 A – Power Purchase Cost (Under MoD) for FY 2016-17**

Source	Capacity (MW)	Firm allocation to Licensee		Purchase (MU)	External losses (%)	Energy recd. by Licensee (MU)	VC (Ps/ Unit)	FC (Rs. Crore)	VC (Rs.Crore)	Total (Rs.Crore)
		%	MW							
<b>Central Sector Power Stations</b>										
<b>NTPC</b>	<b>5,600</b>	4%	<b>203</b>	<b>1,105.92</b>	<b>5.00%</b>	<b>1,050.62</b>	221.49	<b>100.22</b>	<b>244.95</b>	<b>345.17</b>
RSTPS Stage I & II	2,100	4%	94	647.42	5.00%	615.05	264.58	35.10	171.30	206.40
RSTPS Stage –III	500	5%	24		5.00%	-	275.82	12.46	-	12.46
Talcher Stage- II	2,000	3%	69	458.49	5.00%	435.57	160.65	41.42	73.66	115.07
Simhadri Stage- II	1,000	2%	17		5.00%	-	275.74	11.23	-	11.23
<b>NLC</b>	<b>2,390</b>	<b>6%</b>	<b>141</b>	<b>1,018.55</b>	<b>5.00%</b>	<b>967.62</b>	<b>238.54</b>	<b>88.01</b>	<b>242.97</b>	<b>330.98</b>
NLC TPS II Stage I	630	12%	76	557.80	5.00%	529.91	240.36	38.18	134.07	172.25
NLC TPS II Stage II	840	4%	30	198.71	5.00%	188.77	240.29	13.11	47.75	60.86
NLC TPS I (Expn)	420	4%	17	129.84	5.00%	123.35	227.40	19.33	29.53	48.86
NLC TPS II (Expn) *	500	4%	18	132.19	5.00%	125.59	239.19	17.39	31.62	49.01
<b>NPCL</b>	<b>2,320</b>	<b>4%</b>	<b>82</b>	<b>485.49</b>	<b>5.00%</b>	<b>461.21</b>	<b>319.31</b>	-	<b>155.02</b>	<b>155.02</b>
MAPS	440	2%	8	44.19	5.00%	41.98	223.52	-	9.88	9.88
KAPS Stage I	880	4%	36	232.68	5.00%	221.05	328.90	-	76.53	76.53
Kudankulam	1,000	4%	38	208.61	5.00%	198.18	328.90	-	68.61	68.61
<b>Others</b>	<b>2,000.00</b>	<b>1%</b>	<b>27.00</b>	<b>526.68</b>	<b>4.02%</b>	<b>505.52</b>	<b>337.36</b>	<b>31.20</b>	<b>177.68</b>	<b>208.89</b>
TNEB (Karaikal)				309.33	4.00%	296.96	382.57	-	118.34	118.34
Vallur Thermal Project	1,000	2%	17	111.39	5.00%	105.82	218.18	16.35	24.30	40.66
Tuticorin NLC Project *	1,000	1%	10	64.47	5.00%	61.25	220.50	11.62	14.22	25.83
KSEB				41.49	0.00%	41.49	501.88	3.23	20.82	24.06
<b>OVER/ UNDER DRAWAL</b>										
<b>Within State Generations</b>										
<b>PPCL</b>	33		33	229.90	0.00%	229.90	315.27	27.14	72.48	99.62
<b>OTHER CHARGES</b>										<b>82.48</b>
<i>PGCIL Transmission Charges, Wheeling &amp; Other Charges</i>										80.39
<i>POSOCO</i>										1.10
<i>PCKL</i>										0.99
<b>RPO Compliance Cost</b>										42.38
<b>Rebate</b>										(13.94)
<b>Total</b>	<b>12,342.50</b>	<b>4%</b>	<b>484.89</b>	<b>3,366.54</b>	<b>5%</b>	<b>3,214.87</b>	<b>265.29</b>	<b>246.57</b>	<b>893.10</b>	<b>1,250.59</b>

\*The availability of power from these plants is subject to signing of MoU/ CoD of the plant in the years considered for power purchase.



**Format 4 A – Power Purchase Cost (Under MoD) for FY 2017-18**

Source	Capacity (MW)	Firm allocation to Licensee		Purchase (MU)	External losses (%)	Energy recd. by Licensee (MU)	VC (Ps/ Unit)	FC (Rs. Crore)	VC (Rs.Crore)	Total (Rs.Crore)
		%	MW							
<b>Central Sector Power Stations</b>										
<b>NTPC</b>	<b>5,600</b>	4%	<b>203</b>	<b>1,311.64</b>	<b>5.00%</b>	<b>1,246.06</b>	241.45	<b>104.22</b>	<b>316.70</b>	<b>420.93</b>
RSTPS Stage I & II	2,100	4%	94	653.52	5.00%	620.85	277.81	36.51	181.55	218.06
RSTPS Stage –III	500	5%	24	161.12	5.00%	153.06	289.61	12.96	46.66	59.62
Talcher Stage- II	2,000	3%	69	458.49	5.00%	435.57	168.68	43.07	77.34	120.41
Simhadri Stage- II	1,000	2%	17	38.50	5.00%	36.58	289.53	11.68	11.15	22.83
<b>NLC</b>	<b>2,390</b>	<b>6%</b>	<b>141</b>	<b>1,018.55</b>	<b>5.00%</b>	<b>967.62</b>	<b>250.47</b>	<b>91.53</b>	<b>255.12</b>	<b>346.65</b>
NLC TPS II Stage I	630	12%	76	557.80	5.00%	529.91	252.38	39.71	140.78	180.48
NLC TPS II Stage II	840	4%	30	198.71	5.00%	188.77	252.30	13.63	50.14	63.77
NLC TPS I (Expn)	420	4%	17	129.84	5.00%	123.35	238.77	20.10	31.00	51.11
NLC TPS II (Expn) *	500	4%	18	132.19	5.00%	125.59	251.15	18.09	33.20	51.29
<b>NPCL</b>	<b>2,320</b>	<b>4%</b>	<b>82</b>	<b>485.49</b>	<b>5.00%</b>	<b>461.21</b>	<b>335.27</b>	-	<b>162.77</b>	<b>162.77</b>
MAPS	440	2%	8	44.19	5.00%	41.98	234.70	-	10.37	10.37
KAPS Stage I	880	4%	36	232.68	5.00%	221.05	345.34	-	80.36	80.36
Kudankulam	1,000	4%	38	208.61	5.00%	198.18	345.34	-	72.04	72.04
<b>Others</b>	<b>2,000.00</b>	<b>1%</b>	<b>27.00</b>	<b>535.96</b>	<b>4.02%</b>	<b>514.43</b>	<b>355.05</b>	<b>32.45</b>	<b>190.29</b>	<b>222.75</b>
TNEB (Karaikal)				318.61	4.00%	305.86	401.70	-	127.98	127.98
Vallur Thermal Project	1,000	2%	17	111.39	5.00%	105.82	229.08	17.01	25.52	42.53
Tuticorin NLC Project *	1,000	1%	10	64.47	5.00%	61.25	231.53	12.08	14.93	27.01
KSEB				41.49	0.00%	41.49	526.97	3.36	21.86	25.23
<b>OVER/ UNDER DRAWAL</b>										
<b>Within State Generations</b>										
<b>PPCL</b>	33	100%	33	229.90	0.00%	229.90	331.03	28.22	76.10	104.33
<b>OTHER CHARGES</b>										86.83
<i>PGCIL Transmission Charges, Wheeling &amp; Other Charges</i>										84.63
<i>POSOCO</i>										1.16
<i>PCKL</i>										1.04
<b>RPO Compliance Cost</b>										55.08
<b>Rebate</b>										(14.83)
<b>Total</b>	<b>12,342.50</b>	<b>4%</b>	<b>484.89</b>	<b>3,581.54</b>	<b>5%</b>	<b>3,419.21</b>	<b>279.48</b>	<b>256.43</b>	<b>1,000.98</b>	<b>1,384.50</b>

\*The availability of power from these plants is subject to signing of MoU/ CoD of the plant in the years considered for power purchase.

**Format 4 A –Information Regarding RPO**

Description	Unit	Previous Year (Audit)			Previous Year (Provisional)	Current Year (Rev.Est)	Cumulative RPO to be purchased in Control Period	Ensuing Year (Projections)		
		FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15		FY 2015-16	FY 2016-17	FY 2017-18
<b>Sales Within State</b>	MUs	2,182.48	2,321.29	2,474.98	2,365.72	2,480.78		2,667.91	2,845.16	3,034.55
<b>RPO Obligation</b>	%	<b>1.00%</b>	<b>2.00%</b>	<b>3.00%</b>	<b>3.00%</b>	<b>3.30%</b>		<b>3.55%</b>	<b>3.95%</b>	<b>4.30%</b>
- Solar	%	0.25%	0.30%	0.40%	0.40%	0.60%		0.85%	1.15%	1.50%
- Non Solar	%	0.75%	1.70%	2.60%	2.60%	2.70%		2.70%	2.80%	2.80%
<b>RPO Obligation</b>	<b>MUs</b>	<b>21.82</b>	<b>46.43</b>	<b>74.25</b>	<b>70.97</b>	<b>81.87</b>		<b>94.71</b>	<b>112.38</b>	<b>130.49</b>
- Solar	MUs	5.46	6.96	9.90	9.46	14.88		22.68	32.72	45.52
- Non Solar	MUs	16.37	39.46	64.35	61.51	66.98		72.03	79.66	84.97
<b>RPO Purchase</b>	<b>MUs</b>									
- Solar	MUs					6.00				
- Non Solar	MUs			48.00	112.00	19.00				
<b>Cumulative RPO Obligation</b>										
- Solar	MUs	5.46	12.42	22.32	31.78	40.67	40.67			
- Non Solar	MUs	16.37	55.83	72.18	21.69	69.67	69.67			
<b>Floor Price of REC Certificates /MWH</b>										
- Solar	Rs./MWH					9300				
- Non Solar	Rs./MWH					1500				
<b>Amount for RPO Compliance</b>										
- Solar	Rs. Crs						37.82	21.09	30.43	42.33
- Non Solar	Rs. Crs						10.45	10.81	11.95	12.75
<b>Total (Rs Crores)</b>	<b>Rs. Crs</b>						<b>48.27</b>	<b>31.89</b>	<b>42.38</b>	<b>55.08</b>
<b>Excess RPO claimed in ARR</b>	<b>Rs. Crs</b>						<b>0.00</b>			
<b>Net RPO Cost to be claimed in MYT Control Period</b>	<b>Rs. Crs</b>						<b>48.27</b>			

**Format 6 – CAPITAL BASE AND RETURN**

**(Rs. Crore)**

Particulars	Previous Year (Actuals)		Previous Year (Est.)	Current Year (Rev. Est)
	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15
Gross block at beginning of the year	458.34	480.48	555.30	563.59
Opening CWIP	77.31	94.69	56.30	102.99
Less accumulated depreciation	211.42	229.29	251.25	274.63
Less Opening Debt	13.16	16.01	14.21	26.37
<b>Net block at beginning of the year</b>	<b>311.07</b>	<b>329.88</b>	<b>346.13</b>	<b>365.58</b>
Less accumulated consumer contribution	3.22	5.35	8.00	9.92
<b>Net fixed assets at beginning of the year</b>	<b>307.85</b>	<b>324.53</b>	<b>338.13</b>	<b>355.66</b>
<b>Reasonable return @3% of NFA</b>	<b>9.24</b>	<b>9.74</b>	<b>10.14</b>	<b>10.67</b>

**(Rs. Crore)**

Particulars	R.E	Ensuing Year (Projection)		
	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
Gross block of the year	611.59	730.04	928.93	1,112.94
Less accumulated depreciation	305.50	340.71	384.16	437.60
Less accumulated consumer contribution	9.92	9.92	9.92	9.92
<b>Net Capital Base of the year</b>	<b>296.17</b>	<b>379.41</b>	<b>534.85</b>	<b>665.41</b>
Equity - 30% of Net Capital Base	88.85	113.82	160.46	199.62
<b>Return on Equity - 30%</b>		<b>16.21</b>	<b>21.94</b>	<b>28.81</b>

\* - RoE for MYT control period in line with MYT Regulations 2014.

**Format 6 A – DETAILS OF GFA / WIP AND CONSUMER CONTRIBUTION**

Sr. No.	Particulars	WIP	Fixed Assets
1	As on 31st March of previous year (10-11)	77.31	458.34
	Add capital expenditure during FY 2011-12	43.78	
	Add capitalised during FY 2011-12		26.39
	<b>Total:</b>	<b>121.09</b>	<b>484.73</b>
	Less transferred to fixed assets	26.39	
	Less: Deductions from Fixed assets		4.25
2	As on 31st March of Previous year (11-12)	<b>94.69</b>	<b>480.48</b>
	Add capital expenditure during FY 2012-13	36.46	
	Add capitalised during FY 2012-13		74.81
	<b>Total:</b>	<b>131.16</b>	<b>555.30</b>
	Less transferred to fixed assets	<b>74.86</b>	
	Less: Deductions from Fixed assets		-
3	As on 31st March of Previous year (12-13)	<b>56.30</b>	<b>555.30</b>
	Add capital expenditure during FY 2013-14	54.98	
	Add capitalised during FY 2013-14		8.29
	<b>Total:</b>	<b>111.28</b>	<b>563.59</b>
	Less transferred to fixed assets	<b>8.29</b>	
	Less: Deductions from Fixed assets		-
4	As on 31st March of Previous year (13-14)	<b>102.99</b>	<b>563.59</b>
	Add capital expenditure during FY 2014-15	115.76	
	Add capitalised during FY 2014-15		48.00
	<b>Total:</b>	<b>218.75</b>	<b>611.59</b>
	Less transferred to fixed assets	48.00	
5	As on 31st March of Current year (14-15)	<b>170.75</b>	<b>611.59</b>
	Add capital expenditure during FY 2015-16	197.42	
	Add capitalised during FY 2015-16		118.45
	<b>Total:</b>	<b>368.17</b>	<b>730.04</b>
	Less transferred to fixed assets	118.45	
6	As on 31st March of ensuing year (15-16)	<b>249.72</b>	<b>730.04</b>
	Add capital expenditure during FY 2016-17	199.87	
	Add capitalised during FY 2016-17		198.89
	<b>Total:</b>	<b>449.59</b>	<b>928.93</b>
	Less transferred to fixed assets	198.89	
7	As on 31st March of Ensuing year (16-17)	<b>250.70</b>	<b>928.93</b>
	Add capital expenditure during FY 2017-18	173.43	
	Add capitalised during FY 2017-18		184.01
	<b>Total:</b>	<b>424.13</b>	<b>1,112.94</b>
	Less transferred to fixed assets	184.01	
<b>8</b>	<b>As on 31st March of ensuing year (17-18)</b>	<b>240.12</b>	<b>1,112.94</b>

**Details of Consumer contribution**

Sr.	Particulars	Amount
A	<b>Accumulated Depreciation</b>	
1	As on 31st March of previous year (10-11) *	211.42
2	Add: Depreciation for Previous year (11-12)	17.87
3	As on 31st March of Previous year (11-12)	229.29
4	Add: Depreciation for Previous year (12-13)	21.96
5	As on 31st March of Previous year (12-13)	<b>251.25</b>
6	Add: Depreciation for Previous year (13-14)	23.38
7	As on 31st March of Previous year (13-14)	<b>274.63</b>
8	Add: Depreciation for current year (14-15)	30.86
9	As on 31st March of current year (14-15)	<b>305.50</b>
7	<b>Consumers Contribution</b>	
1	As on 31st March of previous year (10-11) *	3.22
2	Add: Consumer Contribution for Previous year (11-12)	2.13
3	As on 31st March of Previous year (11-12)	5.35
4	Add: Consumer Contribution for Previous year (12-13)	2.65
5	As on 31st March of Previous year (12-13)	<b>8.00</b>
6	Add: Consumer Contribution for Previous year (13-14)	1.92
7	As on 31st March of Previous year (13-14)	<b>9.92</b>
8	Add: Consumer Contribution for current year (14-15)	-
9	As on 31st March of current year (14-15)	<b>9.92</b>

**Format 7 – COST OF FIXED ASSETS**

Assets group	Value of assets at the beginning of previous year *	Addition during previous year	Value of assets sold/ disposed off	Closing balance at the end of previous year	Addition during previous year	Value of assets sold/ disposed off	Closing balance at the end of previous year	Addition during previous year	Closing balance at the end of previous year	Addition during previous year	Closing balance at the end of previous year	Addition during previous year	Closing balance at the end of previous year	Addition during previous year	Closing balance at the end of previous year	Addition during previous year	Closing balance at the end of previous year
	2011-12	2011-12	2011-12	2011-12	2012-13	2012-13	2012-13	2013-14	2013-14	2014-15	2014-15	2015-16	2015-16	2016-17	2016-17	2017-18	2017-18
Land and Land rights	4.55	2.80	-	7.35	-		7.35		7.35		7.35	1.90	9.25	3.17	12.42	1.27	13.69
Building	13.70	-	-	13.70	3.67		17.37		17.37		17.37		17.37		17.37		17.37
Plant & Machinery	244.21	14.38	2.69	255.89	46.46		302.35	6.96	309.31	13.00	322.31	30.89	353.19	51.85	405.04	48.29	453.33
Lines and Cables Network	161.63	8.75	1.55	168.83	24.53		193.36	1.26	194.62	35.00	229.62	83.50	313.12	140.18	453.31	130.55	583.86
Vehicles	1.82	0.07	-	1.89	-		1.89		1.89		1.89		1.89		1.89		1.89
Furniture and Fixtures	0.11	-	-	0.11	0.02		0.13		0.13		0.13		0.13		0.13		0.13
Office Equipment's	0.84	-	-	0.84	0.00		0.84		0.84		0.84		0.84		0.84		0.84
IT Equipments	1.67	0.12	-	1.79	0.14		1.93	0.07	2.00		2.00		2.00		2.00		2.00
Testing & Measuring equipment's	3.04	0.28	-	3.32	(0.01)		3.32		3.32		3.32	2.16	5.48	3.69	9.17	3.90	13.07
SCADA Centre	26.77	-		26.77	-		26.77		26.77		26.77		26.77		26.77		26.77
<b>Total</b>	<b>458.34</b>	<b>26.39</b>	<b>4.25</b>	<b>480.48</b>	<b>74.81</b>	<b>-</b>	<b>555.30</b>	<b>8.29</b>	<b>563.59</b>	<b>48.00</b>	<b>611.59</b>	<b>118.45</b>	<b>730.04</b>	<b>198.89</b>	<b>928.93</b>	<b>184.01</b>	<b>1,112.94</b>

**Format 8 – DETAILS OF WORK IN PROGRESS**

(Rs. Crore)

Sr. No.	Particulars	Previous Year (Audit)		Previous Year (Provisional)	Current Year (Rev.Est)	Ensuing Year (Projections)		
		FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
1	Opening Balance	77.31	94.69	56.30	102.99	170.75	249.72	56.30
2	Add: New Investments	43.78	36.46	54.98	115.76	197.42	199.87	173.43
3	Total	121.09	131.16	111.28	218.75	368.17	449.59	229.73
4	Less Investment Capitalized	26.39	74.86	8.29	48.00	118.45	198.89	184.01
5	Closing Balance	94.69	56.30	102.99	170.75	249.72	250.70	45.72

**Format 9 – INTEREST CAPITALISED**

(Rs. Crore)

Sr. No.	Interest Capitalized	Previous Year (Audit)		Previous Year (Provisional)	Current Year (Rev.Est)	Ensuing Year (Projections)		
		FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
1	WIP	94.69	56.30	102.99	170.75	249.72	250.70	45.72
2	GFA* at the end of the year	480.48	555.30	563.59	611.59	730.04	928.93	1,112.94
3	WIP+GFA at the end of the year	575.18	611.59	666.58	782.34	979.76	1,179.63	1,158.66
4	Interest (excluding interest on WCL*)	5.67	11.01	13.91	15.69	20.99	31.57	44.19
5	Interest Capitalized	-	-	-	-	3.98	4.68	7.82

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

### Format 10 – DETAILS OF LOANS

#### Details of loans for FY 2011-12 (Actuals) (Rs. Crore)

Sl. No.	Particulars (source)	Opening balance	Rate of interest *	Addition during the year	Repayment during the year	Closing balance	Amount of Interest paid
1	SLR Bonds						
2	Non SLR Bonds						
3	LIC						
4	REC						
5	Commercial Banks						
6	Letter of Credit Charges						
7	Lease rental	13.16	8.22%		1.65	11.51	1.02
8	PFC			4.50		4.50	-
9	GPF						-
10	CSS						-
11	Working capital loan						
12	Others						
13	<b>Total</b>	<b>13.16</b>		<b>4.50</b>	<b>1.65</b>	<b>16.01</b>	<b>1.02</b>
14	Add Govt. loan						
	-State Govt.						
	-Central Govt.						
	<b>Total</b>	-		-	-	-	-
15	<b>Total (13+14)</b>	<b>13.16</b>		<b>4.50</b>	<b>1.65</b>	<b>16.01</b>	<b>1.02</b>
16	Less capitalization						
17	<b>Net interest</b>	<b>13.16</b>		<b>4.50</b>	<b>1.65</b>	<b>16.01</b>	<b>1.02</b>
18	<b>Add prior period</b>						
19	<b>Total interest</b>	<b>13.16</b>		<b>4.50</b>	<b>1.65</b>	<b>16.01</b>	<b>1.02</b>
20	<b>Finance charges</b>						<b>1.32</b>
21	<b>Total Interest and Finance Charges</b>	<b>13.16</b>		<b>4.50</b>	<b>1.65</b>	<b>16.01</b>	<b>2.35</b>

#### Details of loans for FY 2012-13 (Actuals) (Rs. Crore)

Sl. No.	Particulars (source)	Opening balance	Rate of interest *	Addition during the year	Repayment during the year	Closing balance	Amount of Interest paid
1	SLR Bonds						
2	Non SLR Bonds						
3	LIC						
4	REC					-	-
5	Commercial Banks						
6	Letter of Credit Charges						
7	Lease rental	11.51	8.22%		1.79	9.71	0.78
8	PFC	4.50	11.50%			4.50	0.52
9	GPF						
10	CSS						
11	Working capital loan						
12	Others						
13	<b>Total</b>	<b>16.01</b>		<b>-</b>	<b>1.79</b>	<b>14.21</b>	<b>1.30</b>
14	Add Govt. loan						
	-State Govt.						
	-Central Govt.						
	<b>Total</b>	-		-	-	-	-
15	<b>Total (13+14)</b>	<b>16.01</b>		<b>-</b>	<b>1.79</b>	<b>14.21</b>	<b>1.30</b>
16	Less capitalization #						
17	<b>Net interest</b>	<b>16.01</b>		<b>-</b>	<b>1.79</b>	<b>14.21</b>	<b>1.30</b>
18	<b>Add prior period</b>						
19	<b>Total interest</b>	<b>16.01</b>		<b>-</b>	<b>1.79</b>	<b>14.21</b>	<b>1.30</b>
20	<b>Finance charges</b>						<b>2.09</b>
21	<b>Total Interest and Finance Charges</b>	<b>16.01</b>		<b>-</b>	<b>1.79</b>	<b>14.21</b>	<b>3.39</b>



### Format 10 – DETAILS OF LOANS

#### Details of loans for FY 2013-14 (Provisional) (Rs. Crore)

Sl. No.	Particulars (source)	Opening balance	Rate of interest *	Addition during the year	Repayment during the year	Closing balance	Amount of Interest paid
1	SLR Bonds						
2	Non SLR Bonds						
3	LIC						
4	REC					-	-
5	Commercial Banks						
6	Letter of Credit Charges						
7	Lease rental	9.71	8.22%		1.95	7.77	0.64
8	PFC	4.50	11.50%	14.10		18.60	0.52
9	GPF						
10	CSS						
11	Working capital loan						
12	Others						
13	<b>Total</b>	<b>14.21</b>		<b>14.10</b>	<b>1.95</b>	<b>26.37</b>	<b>1.16</b>
14	Add Govt. loan						
	-State Govt.						
	-Central Govt.						
	<b>Total</b>	-	-	-	-	-	-
15	<b>Total (13+14)</b>	<b>14.21</b>	-	<b>14.10</b>	<b>1.95</b>	<b>26.37</b>	<b>1.16</b>
16	Less capitalization #						
17	<b>Net interest</b>	<b>14.21</b>	-	<b>14.10</b>	<b>1.95</b>	<b>26.37</b>	<b>1.16</b>
18	<b>Add prior period</b>						
19	<b>Total interest</b>	<b>14.21</b>	-	<b>14.10</b>	<b>1.95</b>	<b>26.37</b>	<b>1.16</b>
20	<b>Finance charges</b>						<b>3.52</b>
21	<b>Total Interest and Finance Charges</b>	<b>14.21</b>	-	<b>14.10</b>	<b>1.95</b>	<b>26.37</b>	<b>4.68</b>

#### Details of loans for FY 2014-15 (Revised Estimates) (Rs. Crore)

Sl. No.	Particulars (source)	Opening balance	Rate of interest *	Addition during the year	Repayment during the year	Closing balance	Amount of Interest paid
1	SLR Bonds	-					-
2	Non SLR Bonds	-					-
3	LIC	-					-
4	REC	-				-	-
5	Commercial Banks	-					-
6	Letter of Credit Charges	-					-
7	Lease rental	7.77	8.22%		2.64	5.13	0.53
8	PFC	18.60	12.25%	15.00	-	33.60	3.20
9	GPF	-					-
10	CSS	-					-
11	Working capital loan	-					-
12	Others	-					-
13	<b>Total</b>	<b>26.37</b>		<b>15.00</b>	<b>2.64</b>	<b>38.73</b>	<b>3.73</b>
14	Add Govt. loan	-					-
	-State Govt.	-					-
	-Central Govt.	-					-
	<b>Total</b>	-	-	-	-	-	-
15	<b>Total (13+14)</b>	<b>26.37</b>		<b>15.00</b>	<b>2.64</b>	<b>38.73</b>	<b>3.73</b>
16	Less capitalization #	-					-
17	<b>Net interest</b>	<b>26.37</b>	-	<b>15.00</b>	<b>2.64</b>	<b>38.73</b>	<b>3.73</b>
18	<b>Add prior period</b>						
19	<b>Total interest</b>	<b>26.37</b>	-	<b>15.00</b>	<b>2.64</b>	<b>38.73</b>	<b>3.73</b>
20	<b>Finance charges</b>						<b>3.69</b>
21	<b>Total Interest and Finance Charges</b>	<b>26.37</b>	-	<b>15.00</b>	<b>2.64</b>	<b>38.73</b>	<b>7.42</b>

### Format 10 – DETAILS OF LOANS

#### Details of loans for FY 2015-16 (Ensuing Year) (Rs. Crore)

Sl. No.	Particulars (source)	Opening balance	Rate of interest *	Addition during the year	Repayment during the year	Closing balance	Amount of Interest paid
1	SLR Bonds	-				-	-
2	Non SLR Bonds	-				-	-
3	LIC	-				-	-
4	REC	-				-	-
5	Commercial Banks	-				-	-
6	Letter of Credit Charges	-				-	-
7	Lease rental	5.13	8.22%		2.64	2.49	0.31
8	PFC / REC *	33.60	12.25%	40.15		73.75	6.58
9	GPF	-				-	-
10	CSS	-				-	-
11	Working capital loan	-				-	-
12	Others/ JICA	-	6%	112.91		112.91	3.39
13	<b>Total</b>	<b>38.73</b>		<b>153.06</b>	<b>2.64</b>	<b>189.15</b>	<b>10.28</b>
14	Add Govt. loan	-				-	-
	-State Govt.	-				-	-
	-Central Govt.	-				-	-
	<b>Total</b>	-	-	-	-	-	-
15	<b>Total (13+14)</b>	<b>38.73</b>		<b>153.06</b>	<b>2.64</b>	<b>189.15</b>	<b>10.28</b>
16	Less capitalization #						<b>3.98</b>
17	<b>Net interest</b>	<b>38.73</b>		<b>153.06</b>	<b>2.64</b>	<b>189.15</b>	<b>6.29</b>
18	<b>Add prior period</b>						
19	<b>Total interest</b>	<b>38.73</b>	-	<b>153.06</b>	<b>2.64</b>	<b>189.15</b>	<b>6.29</b>
20	<b>Finance charges</b>						<b>3.88</b>
21	<b>Total Interest and Finance Charges</b>	<b>38.73</b>	-	<b>153.06</b>	<b>2.64</b>	<b>189.15</b>	<b>10.17</b>

# - Interest Capitalisation considered as 40% of the interest

#### Details of loans for FY 2016-17 (Ensuing Year) (Rs. Crore)

Sl. No.	Particulars (source)	Opening balance	Rate of interest *	Addition during the year	Repayment during the year	Closing balance	Amount of Interest paid
1	SLR Bonds	-	-			-	-
2	Non SLR Bonds	-	-			-	-
3	LIC	-	-			-	-
4	REC	-	-			-	-
5	Commercial Banks	-	-			-	-
6	Letter of Credit Charges	-	-			-	-
7	Lease rental	2.49	8%		2.49	-	0.10
8	PFC / REC *	73.75	12%	40.15		113.90	11.49
9	PFC - Loan No.18003004	-				-	-
10	PFC - Loan No.18233001 to 004	-				-	-
11	Working capital loan	-				-	-
12	Others/JICA	112.91	6%	112.91		225.82	10.16
13	<b>Total</b>	<b>189.15</b>		<b>153.06</b>	<b>2.49</b>	<b>339.72</b>	<b>21.76</b>
14	Add Govt. loan	-				-	-
	-State Govt.	-				-	-
	-Central Govt.	-				-	-
	<b>Total</b>	-	-	-	-	-	-
15	<b>Total (13+14)</b>	<b>189.15</b>		<b>153.06</b>	<b>2.49</b>	<b>339.72</b>	<b>21.76</b>
16	Less capitalization #						<b>4.68</b>
17	<b>Net interest</b>	<b>189.15</b>		<b>153.06</b>	<b>2.49</b>	<b>339.72</b>	<b>17.08</b>
18	<b>Add prior period</b>						
19	<b>Total interest</b>	<b>189.15</b>	-	<b>153.06</b>	<b>2.49</b>	<b>339.72</b>	<b>17.08</b>
20	<b>Finance charges</b>						<b>4.07</b>
21	<b>Total Interest and Finance Charges</b>	<b>189.15</b>	-	<b>153.06</b>	<b>2.49</b>	<b>339.72</b>	<b>21.15</b>

**Format 10 – DETAILS OF LOANS**

**Details of loans for FY 2017-18 (Ensuing Year)**

(Rs. Crore)

Sl. No.	Particulars (source)	Opening balance	Rate of interest *	Addition during the year	Repayment during the year	Closing balance	Amount of Interest paid
1	SLR Bonds	-	-			-	-
2	Non SLR Bonds	-	-			-	-
3	LIC	-	-			-	-
4	REC	-	-			-	-
5	Commercial Banks	-	-			-	-
6	Letter of Credit Charges	-	-			-	-
7	Lease rental	-	8%			-	-
8	PFC / REC *	113.90	12%	-		113.90	13.95
9	PFC - Loan No.18003004	-				-	-
10	PFC - Loan No.18233001 to 004	-				-	-
11	Working capital loan	-				-	-
12	Others/JICA	225.82	6%	124.75		350.57	17.29
13	<b>Total</b>	<b>339.72</b>		<b>124.75</b>	-	<b>464.47</b>	<b>31.24</b>
14	Add Govt. loan	-					
	-State Govt.	-					
	-Central Govt.	-					
	<b>Total</b>	-	-	-	-	-	-
15	<b>Total (13+14)</b>	<b>339.72</b>		<b>124.75</b>	-	<b>464.47</b>	<b>31.24</b>
16	Less capitalization #						<b>7.82</b>
17	<b>Net interest</b>	<b>339.72</b>		<b>124.75</b>	-	<b>464.47</b>	<b>23.42</b>
18	<b>Add prior period</b>						
19	<b>Total interest</b>	<b>339.72</b>	-	<b>124.75</b>	-	<b>464.47</b>	<b>23.42</b>
20	<b>Finance charges</b>						<b>4.28</b>
21	<b>Total Interest and Finance Charges</b>	<b>339.72</b>	-	<b>124.75</b>	-	<b>464.47</b>	<b>27.70</b>

# - Interest Capitalisation considered as 40% of the interest and previous year interest added

**Format 10A – NORMATIVE LOAN & INTEREST CALCULATION**

(Rs. Crore)

Particulars	Previous Year (Actuals)		Previous Year (Est.)	Current Year (Rev. Est)	Ensuing Year (Projection)		
	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
Opening Normative Loan	36.17	51.03	98.30	94.27	118.44	166.15	261.92
Add: Normative Loan during the Year	18.48	52.37	5.80	33.60	82.92	139.22	128.80
Less: Normative Repayment	3.62	5.10	9.83	9.43	35.21	43.45	53.44
<b>Closing Normative Loan</b>	<b>51.03</b>	<b>98.30</b>	<b>94.27</b>	<b>118.44</b>	<b>166.15</b>	<b>261.92</b>	<b>337.28</b>
Average Normative Loan	<b>43.60</b>	<b>74.66</b>	<b>96.28</b>	<b>106.36</b>	<b>142.30</b>	<b>214.03</b>	<b>299.60</b>
Rate of Interest (@SBAR rate)	13.00%	14.75%	14.45%	14.75%	14.75%	14.75%	14.75%
<b>Interest on Normative Loan</b>	<b>5.67</b>	<b>11.01</b>	<b>13.91</b>	<b>15.69</b>	<b>20.99</b>	<b>31.57</b>	<b>44.19</b>
Other Finance Charges	1.32	2.09	3.52	3.69	3.88	4.07	4.28
<b>Total Interest &amp; Finance Charges</b>	<b>6.99</b>	<b>13.10</b>	<b>17.43</b>	<b>19.38</b>	<b>24.87</b>	<b>35.64</b>	<b>48.47</b>

**Format 11 – INFORMATION REGARDING RESTRUCTURING OF OUTSTANDING LOANS  
DURING THE FY 2011-12 TO FY 2017-18**

Sr. No.	Source of loan	Amount of original loan (Rs. Crores)	Old rate of interest	Amount already restructured	Revised rate of interest	Amount now being restructured (Rs. Crores)	New rate of interest
				(Rs. Crores)			
1							

NIL

**Format 12 – VALUE OF ASSETS AND DEPRECIATION CHARGES**

Name of the Assets	Rate of Dep*	Previous Year (Actual)				Provisional		Revised Estimates		Ensuing Year (Control Period)					
		FY 2011-12		FY 2012-13		FY 2013-14		FY 2014-15		FY 2015-16		FY 2016-17		FY 2017-18	
		Opening Assets	Depn. charges	Opening Assets	Depn. charges	Opening Assets	Depn. charges	Opening Assets	Depn. charges	Opening Assets	Depn. charges	Opening Assets	Depn. charges	Opening Assets	Depn. charges
Land and Land rights	0.00%	4.55	-	7.35	-	7.35		7.35	-	7.35	-	9.25	-	12.42	-
Building	3.34%	13.70	0.45	13.70	0.45	17.37	0.58	17.37	0.58	17.37	0.58	17.37	0.58	17.37	0.58
Plant & Machinery	5.28%	244.21	10.17	255.89	12.14	302.35	13.57	309.31	16.67	322.31	17.83	353.19	20.02	405.04	22.66
Lines and Cables Network	5.28%	161.63	5.53	168.83	7.67	193.36	7.54	194.62	11.20	229.62	14.33	313.12	20.23	453.31	27.38
Vehicles	9.50%	1.82	0.09	1.89	0.08	1.89	0.07	1.89	0.18	1.89	0.18	1.89	0.18	1.89	0.18
Furniture and Fixtures	6.33%	0.11	0.00	0.11	0.01	0.13	0.00	0.13	0.01	0.13	0.01	0.13	0.01	0.13	0.01
Office Equipments	6.33%	0.84	0.04	0.84	0.04	0.84	0.04	0.84	0.05	0.84	0.05	0.84	0.05	0.84	0.05
IT Equipments	15.00 %	1.67	0.08	1.79	0.07	1.93	0.08	2.00	0.30	2.00	0.30	2.00	0.30	2.00	0.30
Testing & Measuring Equipments	5.28%	3.04	0.17	3.32	0.17	3.32	0.16	3.32	0.18	3.32	0.23	5.48	0.39	9.17	0.59
SCADA Centre	6.33%	26.77	1.34	26.77	1.33	26.77	1.32	26.77	1.69	26.77	1.69	26.77	1.69	26.77	1.69
<b>Total</b>		<b>458.34</b>	<b>17.87</b>	<b>480.48</b>	<b>21.96</b>	<b>555.30</b>	<b>23.38</b>	<b>563.59</b>	<b>30.86</b>	<b>611.59</b>	<b>35.21</b>	<b>730.04</b>	<b>43.45</b>	<b>928.93</b>	<b>53.44</b>

**Format 13 – REPAIR AND MAINTENANCE EXPENSES**

(Rs. Crore)

Sr. No	Particulars	Previous Year (Audit)		Previous Year (Provisional)	Current Year (Rev.Est)	Ensuing Year (Projections)		
		FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
1	Plant & machinery	7.20	5.30	7.36	10.45			
2	Building	0.55						
3	Minor R&M works	8.42	4.62	6.10	8.67			
4	<b>Total</b>	<b>16.18</b>	<b>9.92</b>	<b>13.46</b>	<b>19.12</b>	<b>18.35</b>	<b>21.90</b>	<b>27.87</b>
5	Add/Deduct share of others (To be specified)							
6	<b>Total expenses</b>	16.18	9.92	13.46	19.12	18.35	21.90	27.87
7	Less : Capitalized							
8	<b>Net expenses</b>	16.18	9.92	13.46	19.12	18.35	21.90	27.87
9	Add: prior period							
10	<b>Total expenses charged to revenue as R&amp;M expenses</b>	<b>16.18</b>	<b>9.92</b>	<b>13.46</b>	<b>19.12</b>	<b>18.35</b>	<b>21.90</b>	<b>27.87</b>

**Format 14 – NO. OF EMPLOYEES**

Sr. No.	Particulars	Previous Year (Audit)		Previous Year (Provisional)	Current Year (Rev.Est)	Ensuing Year (Projections)		
		FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
1	Number of employees as on 1st April	2,293.00	2,361.00	2,179.00	2,149.00	2,069.00	1,982.00	1,907.00
2	Employees on deputation/ foreign service as on 1st April	10.00	10.00	54.00	-	-	-	-
4	<b>Total number of employees as on 1st April (1+2)</b>	<b>2,303.00</b>	<b>2,371.00</b>	<b>2,233.00</b>	<b>2,149.00</b>	<b>2,069.00</b>	<b>1,982.00</b>	<b>1,907.00</b>
3	Recruitment	111.00	-	-	-	-	-	-
5	Number of employees retired/ retiring during the year	43.00	138.00	84.00	80.00	87.00	75.00	82.00
6	<b>Number of employees at the end of the year (4-5)</b>	<b>2,371.00</b>	<b>2,233.00</b>	<b>2,149.00</b>	<b>2,069.00</b>	<b>1,982.00</b>	<b>1,907.00</b>	<b>1,825.00</b>

**Format 15 –EMPLOYEE COST**

**(Rs. Crore)**

Particulars	Previous Year (Audit)		Previous Year (Provisional)	Current Year (Rev.Est)	Ensuing Year (Projections)		
	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
<b>Salaries&amp; Allowances</b>							
Salary	66.44	73.44	82.67	84.74	91.03	97.79	105.05
Wages	0.12	0.61	0.59	0.70	0.75	0.81	0.87
Stipend	0.32	0.35	0.35	0.40	0.43	0.46	0.50
Transport Allowance	0.44	0.46	0.62	0.53	0.56	0.61	0.65
Overtime allowance	0.95	0.58	0.81	0.67	0.72	0.78	0.83
<b>Total</b>	<b>68.26</b>	<b>75.43</b>	<b>85.04</b>	<b>87.04</b>	<b>93.50</b>	<b>100.44</b>	<b>107.90</b>
Less: Add/Deduct share of others	1.75	<b>1.16</b>	<b>1.15</b>	1.34	1.44	1.55	1.66
<b>Total</b>	<b>66.51</b>	<b>74.27</b>	<b>83.90</b>	<b>85.70</b>	<b>92.06</b>	<b>98.90</b>	<b>106.24</b>
Less: Amount capitalized	9.40	9.00	11.20	10.39	11.16	11.98	12.87
Net amount	<b>57.11</b>	<b>65.27</b>	<b>72.70</b>	<b>75.32</b>	<b>80.91</b>	<b>86.91</b>	<b>93.36</b>
Add : prior period expenses	-	-					-
<b>Total Employee Expenses</b>	<b>57.11</b>	<b>65.27</b>	<b>72.70</b>	<b>75.32</b>	<b>80.91</b>	<b>86.91</b>	<b>93.36</b>

**Format 16 –ADMINISTRATION AND GENERAL EXPENSES**

(Rs. Crore)

Particulars	Previous Year (Audit)		Previous Year (Provisional)	Current Year (Rev.Est)	Ensuing Year (Projections)		
	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
Rent, rates & taxes	0.41	0.41	0.43	0.32	0.35	0.37	0.40
Other Professional charges including Regulatory Expenses (License + Petition Fees)	1.35	0.91	2.43	1.94	2.09	2.24	2.41
Office Expenses including Legal, Professional & Special Service Charges	1.60	1.57	1.77	1.83	1.96	2.11	2.26
Advertisement & Publicity	0.06	0.07	0.24	0.08	0.09	0.09	0.10
Other A&G Charges	0.05	0.01	0.04	0.01	0.01	0.02	0.02
Other professional charges				-	-	-	-
Conveyance & Travel expense				-	-	-	-
Electricity & water charges					-	-	-
Others	0.37	0.39	0.37		-	-	-
Freight					-	-	-
Incentives to consumers			1.17	1.17	1.26	1.35	1.45
Grant - in - Aid			0.72		-	-	-
Other material related expenses	0.16	0.09	0.07		-	-	-
<b>Total</b>	<b>4.00</b>	<b>3.45</b>	<b>7.25</b>	<b>5.36</b>	<b>5.76</b>	<b>6.18</b>	<b>6.64</b>
Add/Deduct share of others (to be specified)							
<b>Total expenses</b>	<b>4.00</b>	<b>3.45</b>	<b>7.25</b>	<b>5.36</b>	<b>5.76</b>	<b>6.18</b>	<b>6.64</b>
Less: Capitalized							
<b>Net expenses</b>	<b>4.00</b>	<b>3.45</b>	<b>7.25</b>	<b>5.36</b>	<b>5.76</b>	<b>6.18</b>	<b>6.64</b>
Add: Prior period							
<b>Total A&amp;G Expenses charged to revenue</b>	<b>4.00</b>	<b>3.45</b>	<b>7.25</b>	<b>5.36</b>	<b>5.76</b>	<b>6.18</b>	<b>6.64</b>



**Format 17 – INFORMATION REGARDING BAD AND DOUBTFUL DEBTS**

(Rs. Crore)

Particulars	Previous Year (Audit)		Previous Year (Provisional)	Current Year (Rev.Est)	Ensuing Year (Projections)		
	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
Amount of receivables (audited)	336.02	425.52	532.12	532.12	532.12	532.12	532.12
Bad and doubtful debts actually written-off in the books of accounts	-	-					
Provision made for debts in ARR	-	-					

**Format 18 – INFORMATION REGARDING WORKING CAPITAL**

Particulars	Previous Year (Audit)		Previous Year (Provisional)	Current Year (Rev.Est)
	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15
Power Purchase Cost - 1 Month	91.48	82.71	82.84	81.12
Employee Cost - 1 Month	4.76	5.44	6.06	6.28
Administration & General Expenses - 1 Month	0.33	0.29	1.12	0.45
R&M Cost - 1 Month	1.35	0.83	0.60	1.59
Less: Security Deposit Opening Bal.	64.25	73.03	95.90	123.48
<b>Total</b>	<b>33.67</b>	<b>16.23</b>	<b>(5.28)</b>	<b>(34.04)</b>
<b>Interest Rate</b>	13.00%	14.75%	14.45%	14.75%
<b>Interest on working capital</b>	<b>4.38</b>	<b>2.39</b>	-	-

\* - Working Capital for Previous and Current year as per JERC (Terms and Conditions for Determination of Tariff) Regulations, 2009

Sr. No.	Particulars	Ensuing Year (Projections)		
		FY 2015-16	FY 2016-17	FY 2017-18
1	Two Months Receivable	216.87	246.66	276.45
2	Power Purchase Cost for one month	92.41	104.22	115.38
3	Total Consumer Security Deposit	178.64	206.22	233.79
4	Consumer Security Deposit excluding Bank Guarantee/ Fixed Deposit Receipts	178.64	206.22	233.79
5	Inventory for two months based on Aggregate Revenue Requirement of previous year**	51.20	51.20	51.20
6	<b>Total (1-2-4+5)</b>	<b>(2.97)</b>	<b>(12.57)</b>	<b>(21.51)</b>
7	<b>Interest Rate</b>	14.75%	14.75%	14.75%
8	<b>Interest on working capital</b>	-	-	-

\* - Working Capital for ensuing year as per MYT Regulations 2014

\*\* - Inventory considered based on FY 2013-14 provisional figures and multiplied by two

**Format 18A – INFORMATION ON SECURITY DEPOSIT FROM CONSUMERS**

Rs.Crores

Particulars	Previous Year (Audit)		Previous Year (Provisional)	Current Year (Rev.Est)	Ensuing Year (Projections)		
	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
Opening Security Deposit	64.25	73.03	95.90	123.48	151.06	178.64	206.22
Add: Deposits during the Year	8.78	22.87	27.58	27.58	27.58	27.58	27.58
<b>Closing Security Deposit</b>	<b>73.03</b>	<b>95.90</b>	<b>123.48</b>	<b>151.06</b>	<b>178.64</b>	<b>206.22</b>	<b>233.79</b>
<b>Bank Rate</b>	6.00%	9.50%	8.50%	9.00%	9.00%	9.00%	9.00%
<b>Interest on Security Deposit</b>	<b>4.12</b>	<b>8.02</b>	<b>9.32</b>	<b>12.35</b>	<b>14.84</b>	<b>17.32</b>	<b>19.80</b>

**Format 18B – PROVISIONS OF INTEREST ON SECURITY DEPOSITS FROM CONSUMERS**

Rs.Crores

Particulars	Previous Year (Audit)		Previous Year (Provisional)	Current Year (Rev.Est)
	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15
Opening Security Deposit	64.25	73.03	95.90	123.48
Add: Deposits during the Year	8.78	22.87	27.58	27.58
Less: Deposits refunded	-	-	-	-
Less: Deposits in form of BG/FDR	-	-	-	-
<b>Closing Security Deposit</b>	<b>73.03</b>	<b>95.90</b>	<b>123.48</b>	<b>151.06</b>
<b>Bank Rate</b>	6.00%	9.50%	8.50%	9.00%
<b>Interest on Security Deposit *</b>	<b>4.12</b>	<b>8.02</b>	<b>9.32</b>	<b>12.35</b>
<b>Cumulative Security Deposit of Past Years</b>	<b>33.82</b>			
<b>Security Deposit Paid</b>	-	-	-	<b>4.00</b>
Balance Security Deposit to be Paid during control Period	<b>29.82</b>			

**Format 19 – INFORMATION REGARDING FOREIGN EXCHANGE RATE VARIATION (FERV)**

Particulars	Previous Year (Audit)		Previous Year (Provisional)	Current Year (Rev.Est)	Ensuing Year (Projections)		
	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
Amount of liability provided	NIL						
Amount recovered							
Amount adjusted							

**Format 20 – NON-TARIFF INCOME**

Particulars	Previous Year (Audit)		Previous Year (Provisional)	Current Year (Rev.Est)	Ensuing Year (Projections)		
	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
Meter/service rent							
Late payment surcharge							
UI Sales / Sales to Exchange	167.78	103.42	24.84	1.27			
Wheeling charges under open access							
Income from trading	0.18	0.10	0.08	0.09	0.09	0.10	0.10
Income staff welfare activities							
Misc. Receipts/income	2.88	4.66	3.35	3.52	3.69	3.88	4.07
<b>Total income</b>	<b>170.83</b>	<b>108.18</b>	<b>28.28</b>	<b>4.87</b>	<b>3.79</b>	<b>3.98</b>	<b>4.17</b>
Add: Prior Period income							
<b>Total Non Tariff income</b>	<b>170.83</b>	<b>108.18</b>	<b>28.28</b>	<b>4.87</b>	<b>3.79</b>	<b>3.98</b>	<b>4.17</b>

**Format 21 – REVENUE FROM OTHER BUSINESS**

Particulars	(Amount in Crores Rupees)						
	Previous Year (Audit)		Previous Year (Provisional)	Current Year (Rev.Est)	Ensuing Year (Projections)		
	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
Total revenue from other business							
Income from other business to be considered for licensed business as per regulations	NIL						

**Format 22 – LEASE DETAILS**

Name of Lesser	Gross Assets (Rs. Crore)	Lease entered on	Lease Rentals ( Crs/pm)	Primary period ended/ ending by	Secondary period ending by
Power Grid	23.07	07-01-2002	0.22	06-01-2017	NA

**Format 23 – WHOLESALE PRICE INDEX (ALL COMMODITIES)**

Period	WPI	Increase over previous year
Financial Year 2010-11	143.33	
Financial Year 2011-12	156.13	8.93%
Financial Year 2012-13	167.62	7.36%
Financial Year 2013-14	177.64	5.98%
Average WPI of last three years		7.42%

**Format 24 – EQUITY AND LOAN**

Period	Amount of equity (Rs. Crore) *	Amount of loan (Rs. Crore)	Ratio of equity & loan
As on March 31 of FY2011-12	429.46	51.03	89 : 11
As on March 31 of FY 2012-13	457.00	98.30	82 : 18
As on March 31 of FY 2013-14	469.32	94.27	83 : 17
As on March 31 of FY 2014-15	505.23	106.36	83 : 17
As on March 31 of FY 2015-16	587.74	142.30	81 : 19
As on March 31 of FY 2016-17	714.90	214.03	77 : 23
As on March 31 of FY 2017-18	813.34	299.60	73 : 27

**Format 25 – ANNUAL REVENUE REQUIREMENT FOR FY 2011-12 (ACTUALS)**

**(Rs. in Crores)**

Sr. No.	Item of expense	Proposed by licensee	Revised by Licensee	Approved by the Commission	Actuals as per Accounts
1	Cost of fuel				
2	Cost of power purchase	997.30	1,110.25	1,095.08	1,097.74
3	Employee costs	52.55	56.59	54.15	57.11
4	Administration and General expenses	3.91	4.44	4.44	4.00
5	R&M Expenses	10.34	16.17	16.17	16.18
6	Depreciation	25.07	20.28	20.28	17.87
7	Interest charges (including interest on working capital)	12.35	15.26	7.87	11.37
8	Return on NFA /Equity	12.27	9.33	9.33	9.24
9	Provision for Bad Debt				
10	Interest on Consumer Security Deposit				-
<b>11</b>	<b>Total Revenue Requirement</b>	<b>1,113.79</b>	<b>1,232.33</b>	<b>1,207.32</b>	<b>1,213.50</b>
12	Less: Non-Tariff Income	147.10	170.83	170.83	170.83
<b>13</b>	<b>Net Revenue Requirement (11-12)</b>	<b>966.69</b>	<b>1,061.50</b>	<b>1,036.49</b>	<b>1,042.67</b>
14	Revenue from Tariff	696.60	690.50	690.50	690.48
<b>15</b>	<b>Net Gap (13-14)</b>	<b>270.09</b>	<b>371.00</b>	<b>346.01</b>	<b>352.18</b>
<b>16</b>	<b>Energy sales (MU) *</b>	<b>2,317.53</b>	<b>2,321.04</b>	<b>2,317.48</b>	<b>2,321.29</b>
<b>17</b>	<b>Average Cost of Supply (Rs/kWh)</b>	<b>4.17</b>	<b>4.57</b>	<b>4.47</b>	<b>4.49</b>

\* -Energy Sales doesn't includes sale through UI / Export to Exchange

**Format 25 – ANNUAL REVENUE REQUIREMENT FOR FY 2012-13 (ACTUALS)**

**(Rs. in Crores)**

Sr. No.	Item of expense	Proposed by licensee	Revised by Licensee	Approved by the Commission	Actuals as per Accounts
1	Cost of fuel				
2	Cost of power purchase	1,027.40	988.74	893.23	992.47
3	Employee costs	60.97	57.32	58.40	65.27
4	R&M expenses	17.06	19.76	17.06	9.92
5	Administration and General expenses	4.93	2.56	4.84	3.45
6	Depreciation	23.39	21.78	23.39	21.96
7	Interest charges (including interest on working capital)	15.92	11.59	24.04	15.49
8	Return on NFA /Equity	10.03	10.03	9.96	9.74
9	Provision for Bad Debt	-	-	-	-
10	Interest on Consumer Security Deposit	-	-	-	-
<b>11</b>	<b>Total Revenue Requirement</b>	<b>1,159.70</b>	<b>1,111.76</b>	<b>1,030.92</b>	<b>1,118.30</b>
12	Less: Non-Tariff Income	163.02	106.89	51.88	108.18
<b>13</b>	<b>Net Revenue Requirement (11-12)</b>	<b>996.68</b>	<b>1,004.87</b>	<b>979.04</b>	<b>1,010.12</b>
14	Revenue from Tariff *	792.60	853.00	799.94	884.55
<b>15</b>	<b>Net Gap (13-14)</b>	<b>204.08</b>	<b>151.87</b>	<b>179.10</b>	<b>125.57</b>
<b>16</b>	<b>Energy sales (MU)</b>	<b>2,853</b>	<b>2,822</b>	<b>2,494</b>	<b>2,475</b>
<b>17</b>	<b>Average Cost of Supply (Rs/kWh)</b>	<b>3.49</b>	<b>3.56</b>	<b>3.93</b>	<b>4.08</b>

\* Note: Revenue from Tariff includes FPPCA but doesn't includes sale through UI / Export to Exchange

**Format 25 – ANNUAL REVENUE REQUIREMENT FOR FY 2013-14 (PROVISIONAL ACTUALS)**

**(Rs. in Crores)**

Sr. No.	Item of expense	Proposed by licensee	Revised by Licensee	Approved by the Commission	Actuals as per Accounts
1	Cost of fuel				
2	Cost of power purchase including RPO Provision to meet obligation of the previous years	1,049.64	984.77	1,002.78	994.04
3	Employee costs	67.60	69.69	64.73	72.70
4	Administration and General expenses	5.35	3.96	3.96	7.25
5	R&M expenses	17.64	20.15	18.06	13.46
6	Depreciation	25.03	23.65	23.65	23.38
7	Interest charges (including interest on working capital)	15.91	12.92	21.06	17.43
8	Return on NFA /Equity	10.95	9.85	9.87	10.14
9	Provision for Bad Debt	-	-	-	-
10	Interest on Consumer Security Deposit	-	-	-	-
11	Amortization of the regulatory asset proposed for previous years	92.60	-	-	-
<b>12</b>	<b>Total Revenue Requirement</b>	<b>1,284.73</b>	<b>1,125.00</b>	<b>1,144.11</b>	<b>1,138.40</b>
13	Less: Non-Tariff Income	144.30	16.50	16.50	28.28
<b>14</b>	<b>Net Revenue Requirement (12-13)</b>	<b>1,140.43</b>	<b>1,108.50</b>	<b>1,127.61</b>	<b>1,110.13</b>
15	Revenue from Tariff *	833.80	1,089.13	1,084.99	1,045.53
<b>16</b>	<b>Revenue Gap (14-15)</b>	<b>306.63</b>	<b>19.37</b>	<b>42.62</b>	<b>64.60</b>
17	Additional Surcharge		105.00	104.36	101.76
<b>18</b>	<b>Net Revenue Gap after Surcharge (16-17)</b>	<b>306.63</b>	<b>(85.63)</b>	<b>(61.74)</b>	<b>(37.16)</b>
<b>19</b>	<b>Energy sales (MU)</b>	<b>2,897.10</b>	<b>2,542.53</b>	<b>2,498.65</b>	<b>2,366</b>
<b>20</b>	<b>Average Cost of Supply (Rs/kWh)</b>	<b>3.94</b>	<b>4.36</b>	<b>4.51</b>	<b>4.69</b>

\* Note: Revenue from Tariff includes FPPCA but doesn't includes sale through UI / Export to Exchange

**Format 25 – ANNUAL REVENUE REQUIREMENT FOR FY 2014-15 (REVISED ESTIMATES)**

**(Rs. in Crores)**

Sr. No.	Item of expense	Proposed by licensee	Approved by the Commission	Revised by Licensee
1	Cost of fuel			
2	Cost of power purchase	996.73	962.58	973.43
3	Employee costs	76.28	68.53	75.32
4	Administration and General expenses	4.25	4.19	5.36
5	R&M Expenses	20.56	19.12	19.12
6	Depreciation	26.45	26.45	30.86
7	Interest charges (including interest on working capital)	16.12	25.23	19.38
8	Return on NFA /Equity	9.99	10.00	10.67
9	Provision for Bad Debt			
10	Interest on Consumer Security Deposit		9.78	4.00
<b>11</b>	<b>Total Revenue Requirement</b>	<b>1,150.38</b>	<b>1,125.89</b>	<b>1,138.14</b>
12	Less: Non-Tariff Income	0.50	0.50	4.87
<b>13</b>	<b>Net Revenue Requirement (11-12)</b>	<b>1,149.87</b>	<b>1,125.39</b>	<b>1,133.27</b>
14	Revenue from Tariff *	1,080.67	1,134.59	1,142.72
<b>15</b>	<b>Revenue Gap (13-14)</b>	<b>69.20</b>	<b>(9.20)</b>	<b>(9.45)</b>
16	Additional Surcharge	108.00	113.19	110.50
<b>17</b>	<b>Net Revenue Gap after Surcharge (15-16)</b>	<b>(38.80)</b>	<b>(122.39)</b>	<b>(119.95)</b>
18	Gap of Previous Years (17 (a) to 17 (e))	<b>672.98</b>	<b>723.45</b>	<b>698.08</b>
a	<i>FY 2009-10</i>	59.54	59.54	59.54
b	<i>FY 2010-11</i>	96.19	96.19	96.19
c	<i>FY 2011-12</i>	346.01	346.01	352.18
d	<i>FY 2012-13</i>	151.87	179.10	125.57
e	<i>FY 2013-14</i>	19.37	42.62	64.60
<b>19</b>	<b>Total Gap (15 + 18)</b>	<b>742.18</b>	<b>714.25</b>	<b>688.63</b>
20	Collection of Surcharge	<b>213.00</b>	<b>217.55</b>	<b>212.27</b>
	<i>FY 2013-14</i>	105.00	104.36	101.76
	<i>FY 2014-15</i>	108.00	113.19	110.50
21	Expected Subsidy from Government	360.00	360.28	360.28
22	Net Revenue Gap after Surcharge and Government Subsidy (19-20-21)	<b>169.18</b>	<b>136.42</b>	116.08
<b>22</b>	<b>Energy sales (MU)</b>	<b>2,524.70</b>	<b>2,502.09</b>	<b>2,480.78</b>
<b>23</b>	<b>Average Cost of Supply (Rs/kWh)</b>	<b>4.55</b>	<b>4.50</b>	<b>4.57</b>

\* Note: Revenue from Tariff includes FPPCA but doesn't includes sale through UI / Export to Exchange

**Format 25 – PROJECTION OF ANNUAL REVENUE REQUIREMENT FOR ENSUING YEAR (MYT PERIOD FY 2015-16 TO FY 2017-18)**

**(Rs. in Crores)**

Sr. No.	Item of expense	Proposed by licensee		
		FY 2015-16	FY 2016-17	FY 2017-18
1	Cost of fuel			
2	Cost of power purchase	1,108.87	1,250.59	1,384.50
3	Employee costs	80.91	86.91	93.36
4	R&M expenses	18.35	21.90	27.87
5	Administration and General expenses	5.76	6.18	6.64
6	Depreciation	35.21	43.45	53.44
7	Interest charges (including interest on working capital)	24.87	35.64	48.47
8	Return on NFA /Equity	16.21	21.94	28.81
9	Provision for Bad Debt			
10	Interest on Consumer Security Deposit	14.84	17.32	19.80
<b>11</b>	<b>Total Revenue Requirement</b>	<b>1,305.01</b>	<b>1,483.95</b>	<b>1,662.89</b>
12	Less: Non-Tariff Income	3.79	3.98	4.17
<b>13</b>	<b>Net Revenue Requirement (11-12)</b>	<b>1,301.22</b>	<b>1,479.97</b>	<b>1,658.72</b>
14	Revenue from Existing Tariff *	<b>1,213.10</b>	<b>1,291.23</b>	<b>1,374.65</b>
<b>15</b>	<b>Net Gap (13-14) **</b>	<b>88.12</b>	<b>188.74</b>	<b>284.07</b>
<b>16</b>	<b>Energy sales (MU)</b>	<b>2,667.91</b>	<b>2,845.16</b>	<b>3,034.55</b>
<b>17</b>	<b>Average Cost of Supply (Rs/kWh)</b>	<b>4.88</b>	<b>5.20</b>	<b>5.47</b>

\* Note: Revenue from Tariff doesn't includes FPPCA and UI sale. Also, additional surcharge not considered in Control Period

\*\* - Treatment of Gap and impact on Tariff shown separately



**Format 25 A – TREATMENT OF REGULATORY ASSETS**

**(Rs. in Crores)**

Item of expense	Proposed by licensee	Approved by Commission	Revised by Licensee
FY 2009-10	59.54	59.54	59.54
FY 2010-11	96.19	96.19	96.19
FY 2011-12	371.00	346.01	352.18
FY 2012-13	151.87	179.10	125.57
Less: Government Support	(360.00)	(360.28)	(360.28)
<b>Regulatory Assets</b>	<b>318.60</b>	<b>320.55</b>	<b>273.20</b>
Recovery of Regulatory Assets from Consumers			
<i>FY 2013-14</i>	105.00	104.36	101.76
<i>FY 2014-15</i>	108.00	113.19	110.50
<b>Total Estimated Regulatory Assets recovered</b>	<b>213.00</b>	<b>217.55</b>	<b>212.27</b>
Proposed Recovery in FY 2015-16	105.60	103.00	<b>60.93</b>
Proposed % Recovery in FY 2015-16 as additional Surcharge on existing tariff			<b>5.02%</b>

**Format 25 B – BRIEF GAP SUMMARY**

Particulars	Previous Year (Provisional)	Current Year (Rev.Est)	Ensuing Year (Projections)		
	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
Net ARR	1,110.13	1,133.27	1,301.22	1,479.97	1,658.72
Less: Revenue at Existing Tariffs excluding Surcharge	1,045.53	1,142.72	1,213.10	1,291.23	1,374.65
<b>Revenue Gap for the year</b>	<b>64.60</b>	<b>(9.45)</b>	<b>88.12</b>	<b>188.74</b>	<b>284.07</b>
<b>Opening Balance of Gap</b>		<b>64.60</b>	<b>133.24</b>	<b>221.37</b>	<b>410.11</b>
Add: Past Gap					
<i>Gap for FY 2013-14</i>	64.60				
<i>Gap for FY 2014-15</i>		(9.45)			
<i>Gap during MYT Control Period</i>			88.12	188.74	284.07
<b>Net Cumulative Gap</b>		<b>55.15</b>	<b>221.37</b>	<b>410.11</b>	<b>694.17</b>
<b>Additional Past recoveries</b>					
Accumulated RPO to be purchase in MYT Period		48.27			
Accumulated Interest on Security Deposit to be paid in MYT Period		29.82			
Balance Regulatory Gap to be recovered from MYT Control Period		<b>133.24</b>	<b>221.37</b>	<b>410.11</b>	<b>694.17</b>

**Format 26 – REVENUE AT EXISTING TARIFF (ACTUALS FY 2011-12)**

Sr. No.	Category of Consumer	No of Consumers	Energy Sale (MUs)	Contracted Maximum Demand (KW/kVA)	Revenue (Rs Crore)		
					Demand Charges	Energy Charges	Total Billing
1	Domestic & Cottage						
a	0 – 100	87,290	140.35		-	8.42	8.42
b	101 – 200	54,924	89.77		-	8.08	8.08
c	201 – 300	30,881	72.34		-	11.94	11.94
d	>300	73,341	234.93		-	46.99	46.99
e	OHOB	35,466	9.84		0.64	-	0.64
f	<b>Total</b>	<b>281,903</b>	<b>547.23</b>	<b>-</b>	<b>0.64</b>	<b>75.42</b>	<b>76.06</b>
2	Commercial						
a	0 – 100	6,548	26.18		0.20	5.63	5.83
b	101 – 250	5,071	20.27		0.16	6.39	6.55
c	> 250	30,324	121.23		0.92	44.25	45.17
d	<b>Total</b>	<b>41,943</b>	<b>167.68</b>	<b>-</b>	<b>1.28</b>	<b>56.26</b>	<b>57.54</b>
3	Agriculture						
a	Small farmers	956	5.09	5,439	0.01	-	0.01
b	Other farmers	5,872	51.47	54,099	0.66	-	0.66
c	<b>Total</b>	<b>6,828</b>	<b>56.56</b>	<b>59,538</b>	<b>0.67</b>	<b>-</b>	<b>0.67</b>
4	Public lighting	48,384	24.00	-	-	6.96	6.96
5	LT Industrial						
a	0 – 1000	3,499	18.10	-	0.10	4.71	4.81
b	> 1000	2,456	115.48	-	0.07	32.34	32.41
c	Water tank	80	50.80	-	0.00	14.73	14.73
d	<b>Total</b>	<b>6,035</b>	<b>184.39</b>	<b>-</b>	<b>0.18</b>	<b>51.78</b>	<b>51.96</b>
6	Temporary supply - LT&HT	-	14.00	-	-	7.00	7.00
7	<b>Total LT</b>	<b>385,093</b>	<b>994</b>	<b>59,538</b>	<b>2.77</b>	<b>197.42</b>	<b>200.19</b>
8	HT 1 Industrial						
A.i	Contract Demand upto 20000 - 100000	217	190.79	85,980	16.00	56.28	72.28
A.ii	Contract Demand upto 2000>100000	91	161.04	80,125	14.91	49.92	64.84
B	<b>Total</b>	<b>308</b>	<b>352</b>	<b>166,105</b>	<b>30.92</b>	<b>106.21</b>	<b>137.12</b>
9	Commercial - Contract Demand upto 5000 kVA	93	622.77	119,237	22.89	196.17	219.07
10	HT 2 - Government & water tank	43	45.03	18,526	4.23	12.83	17.07
11	HT 3 – EHT	7	307.80	104,540	20.08	96.96	117.04
12	<b>Total HT</b>	<b>451</b>	<b>1,327.43</b>	<b>408,407</b>	<b>78.12</b>	<b>412.17</b>	<b>490.29</b>
13	<b>Total</b>	<b>385,544</b>	<b>2,321.29</b>		<b>80.89</b>	<b>609.59</b>	<b>690.48</b>

**Format 26 – REVENUE AT EXISTING TARIFF (ACTUALS FY 2012-13)**

Sr. No.	Category of Consumer	No of Consumers	Energy Sale (MUs)	Contracted Demand (KW/kVA)	Revenue (Rs Crore)			
					Demand Charges	Energy Charges	FPPCA Charges	Total Billing
<b>1</b>	Domestic & Cottage							
A	0 – 100	100,718	135.23		0.50	8.11		8.62
B	101 – 200	56,815	93.23		0.28	8.39		8.67
C	201 – 300	46,485	112.00		0.23	18.48		18.71
D	>300	54,233	240.65		0.27	48.13		48.40
E	OHOB	35,490	10.00		0.82	-		0.82
F	<b>Total</b>	<b>293,742</b>	<b>591.11</b>	-	<b>2.11</b>	<b>83.11</b>	-	<b>85.22</b>
<b>2</b>	Commercial							
A	0 – 100	6,957	10.90		0.24	2.66		2.90
B	101 – 250	6,522	16.80		0.23	6.06		6.29
C	> 250	30,001	154.60		1.05	64.80		65.85
D	<b>Total</b>	<b>43,479</b>	<b>182.30</b>	-	<b>1.52</b>	<b>73.53</b>	-	<b>75.05</b>
<b>3</b>	Agriculture							
A	Small farmers	958	10.30	5,439	0.04	-		0.04
B	Other farmers	5,901	46.50	54,303	1.75	-		1.75
C	<b>Total</b>	<b>6,859</b>	<b>56.80</b>	<b>59,742</b>	<b>1.79</b>	-	-	<b>1.79</b>
<b>4</b>	Public lighting	48,485	27.90	-	-	9.49		9.49
<b>5</b>	LT Industrial							
A	0 – 1000	3,574	84.09	-	0.13	27.47		27.60
B	> 1000	2,483	58.44	-	0.09	20.50		20.59
C	Water tank	85	54.71	-	0.00	19.97		19.97
D	<b>Total</b>	<b>6,142</b>	<b>197.24</b>	-	<b>0.21</b>	<b>67.94</b>	-	<b>68.16</b>
<b>6</b>	Temporary supply - LT&HT	-	20.27	-	-	11.84		11.84
<b>7</b>	<b>Total LT</b>	<b>398,707</b>	<b>1,075.62</b>	<b>59,742</b>	<b>5.63</b>	<b>245.91</b>	-	<b>251.54</b>
<b>8</b>	HT 1 Industrial							
a i	Contract Demand upto 20000 - 100000	220	70.74	68,350	14.42	24.11		38.53
a ii	Contract Demand upto >100000	105	326.68	79,145	16.70	116.24		132.94
b	Contract Demand 2000 kVA to 5000 kVA	36	560.50	127,501	28.31	206.92		235.22
c	<b>Total</b>	<b>361</b>	<b>957.92</b>	<b>274,996</b>	<b>59.43</b>	<b>347.27</b>	-	<b>406.70</b>
<b>9</b>	Commercial - Contract Demand upto 5000 kVA	58	57.46	17,950	3.10	22.17		25.27
<b>10</b>	HT 2 - Government & water tank	45	45.48	16,200	4.18	15.05		19.23
<b>11</b>	HT 3 – EHT	7	338.50	86,200	18.27	120.73		139.01
<b>12</b>	<b>Total HT</b>	<b>471</b>	<b>1,399.36</b>	<b>395,346</b>	<b>84.99</b>	<b>505.22</b>	-	<b>590.21</b>
<b>13</b>	<b>Total</b>	<b>399,178</b>	<b>2,474.98</b>		<b>90.62</b>	<b>751.13</b>	<b>42.80</b>	<b>884.55</b>

**Format 26 – REVENUE AT EXISTING TARIFF (PROVISIONAL ACTUALS FY 2013-14)**

Sr. No.	Category of Consumer	No of Consumers	Energy Sale (MUs)	Contracted Demand (KW/kVA)	Revenue (Rs Crore)						
					Demand Charges	Energy Charges	FPPCA Charges	Accrual	Total Billing	10% Surcharge	Total
1	Domestic & Cottage										
a	0 – 100	108,879	210.00	-	2.61	21.00			23.61	2.36	25.97
b	101 – 200	59,884	132.00	-	1.44	19.80			21.24	2.12	23.36
c	201 – 300	48,995	78.00	-	1.76	21.84			23.60	2.36	25.96
d	>300	54,440	180.00	-	1.96	63.00			64.96	6.50	71.46
e	OHOB	35,537	12.09	-	1.07	-			1.07		1.07
f	<b>Total</b>	<b>307,735</b>	<b>612.09</b>	<b>-</b>	<b>8.84</b>	<b>125.64</b>	<b>-</b>	<b>-</b>	<b>134.48</b>	<b>13.34</b>	<b>147.82</b>
2	Commercial										
a	0 - 100	7,250	28.96	-	0.52	10.14			10.66	1.07	11.72
b	101 - 250	6,796	21.72	-	0.49	9.77			10.26	1.03	11.29
c	> 250	31,265	130.32	-	2.25	65.16			67.41	6.74	74.15
d	<b>Total</b>	<b>45,311</b>	<b>181.00</b>	<b>-</b>	<b>3.26</b>	<b>85.07</b>	<b>-</b>		<b>88.33</b>	<b>8.83</b>	<b>97.17</b>
3	Agriculture										
a	Small farmers	958	8.00	5,439	0.05	-			0.05		0.05
b	Other farmers	5,852	49.00	54,099	1.75	-			1.75		1.75
c	<b>Total</b>	<b>6,810</b>	<b>57.00</b>	<b>59,538</b>	<b>1.81</b>	<b>-</b>	<b>-</b>		<b>1.81</b>	<b>-</b>	<b>1.81</b>
4	Public lighting	49,524	26.00	-	2.97	10.92			13.89	1.39	15.28
5	LT Industrial										
a	0 – 1000	3,627	104.70	-	0.26	45.02			45.28	4.53	49.81
b	> 1000	2,626	69.80	-	0.19	31.41			31.60	3.16	34.76
c	Water tank	85	51.60	-	0.01	23.74			23.74	2.37	26.12
d	<b>Total</b>	<b>6,338</b>	<b>226.10</b>	<b>-</b>	<b>0.46</b>	<b>100.17</b>	<b>-</b>		<b>100.62</b>	<b>10.06</b>	<b>110.69</b>
6	Temporary supply - LT&HT	-	10.10	-	-	9.09			9.09	0.91	10.00
7	<b>Total LT</b>	<b>415,718</b>	<b>1,112</b>	<b>59,538</b>	<b>17.34</b>	<b>330.89</b>	<b>-</b>		<b>348.22</b>	<b>34.54</b>	<b>382.76</b>
8	HT 1 Industrial										
a.i	Contract Demand upto 2000 kVA (0 – 100000)	224	190.01	57,000	13.68	82.65		-	96.33	9.63	105.97
a.ii	Contract Demand upto 2000 kVA (>100000)	96	163.05	80,500	19.32	73.37		-	92.69	9.27	101.96
b	Contract Demand 2000 kVA to 5000 kVA	43	462.39	133,000	35.11	217.32		-	252.44	25.24	277.68
c	<b>Total</b>	<b>363</b>	<b>815</b>	<b>270,500</b>	<b>68.11</b>	<b>373.35</b>	<b>-</b>	<b>-</b>	<b>441.46</b>	<b>44.15</b>	<b>485.61</b>
9	Commercial - Contract Demand upto 5000 kVA	71	62.56	20,450	5.40	29.40			34.80	3.48	38.28
10	HT 2 - Government & water tank	49	48.77	18,500	4.88	22.43		-	27.32	2.73	30.05
11	HT 3 – EHT	7	326.65	90,500	21.72	146.99		-	168.71	16.87	185.58
12	<b>Total HT</b>	<b>490</b>	<b>1,253.43</b>	<b>399,950</b>	<b>100.11</b>	<b>572.18</b>	<b>-</b>	<b>-</b>	<b>672.29</b>	<b>67.23</b>	<b>739.52</b>
13	<b>Total</b>	<b>416,208</b>	<b>2,365.72</b>	<b>459488</b>	<b>117.45</b>	<b>903.07</b>	<b>22.76</b>	<b>2.54</b>	<b>1,045.82</b>	<b>101.76</b>	<b>1,147.59</b>

**Format 26 – REVENUE AT EXISTING TARIFF (REVISED ESTIMATES FY 2014-15)**

Sr. No.	Category of Consumer	No of Consumers	Energy Sale (MUs)	Contracted Demand (KW/kVA)	Revenue (Rs Crore)					
					Demand Charges	Energy Charges	FPPCA Charges	Total Billing	10% Surcharge	Total
1	Domestic & Cottage									
A	0 – 100	112,706	242.80	-	4.06	25.49	-	29.55	2.96	32.51
B	101 – 200	61,989	152.62	-	2.23	24.42	-	26.65	2.67	29.32
C	201 – 300	50,718	90.20	-	1.83	27.96	-	29.79	2.98	32.77
D	>300	56,353	206.32	-	2.03	79.43	-	81.46	8.15	89.61
E	OHOB	35,539	12.00	-	1.07	-	-	1.07	-	1.07
F	<b>Total</b>	<b>317,305</b>	<b>703.94</b>	-	<b>11.21</b>	<b>157.31</b>	-	<b>168.52</b>	<b>16.75</b>	<b>185.26</b>
2	Commercial									
A	0 – 100	7,442	30.04	-	0.63	11.57	-	12.19	1.22	13.41
B	101 – 250	6,977	22.54	-	0.59	10.26	-	10.84	1.08	11.93
C	> 250	32,093	135.26	-	2.70	67.63	-	70.33	7.03	77.36
D	<b>Total</b>	<b>46,511</b>	<b>187.84</b>	-	<b>3.91</b>	<b>89.45</b>	-	<b>93.36</b>	<b>9.34</b>	<b>102.69</b>
3	Agriculture									
A	Small farmers	958	8.00	5,439	0.05	-	-	0.05	-	0.05
B	Other farmers	5,878	49.00	54,099	1.76	-	-	1.76	-	1.76
C	<b>Total</b>	<b>6,836</b>	<b>57.00</b>	<b>59,538</b>	<b>1.81</b>	-	-	<b>1.81</b>	-	<b>1.81</b>
4	Public lighting	49,891	26.00	-	2.99	11.44	-	14.43	1.44	15.88
5	LT Industrial & Water Tanks									
A	<b>Total</b>	<b>6,424</b>	<b>199.12</b>	-	0.62	89.60	-	90.22	9.02	99.24
6	Temporary supply - LT&HT	-	14.00	-	-	12.60	-	12.60	1.26	13.86
7	<b>Total LT</b>	<b>426,967</b>	<b>1,187.90</b>	<b>59,538</b>	<b>20.53</b>	<b>360.40</b>	-	<b>380.94</b>	<b>37.81</b>	<b>418.74</b>
8	HT 1 Industrial									
A	I(a) up to CD 5000kVA (Industrial/IT/ITES)	340	826.42	287,010	75.77	388.42	-	464.19	46.42	510.60
B	I(b) up to CD 5000kVA (Commercial)	75	71.52	25,721	6.79	33.61	-	40.40	4.04	44.45
10	HT 2 - Government & water tank	51	59.60	22,918	6.05	28.61	-	34.66	3.47	38.12
11	HT 3 – EHT	7	335.34	104,483	30.09	157.61	-	187.70	18.77	206.47
12	<b>Total HT</b>	<b>473</b>	<b>1,292.88</b>	<b>440,132</b>	<b>118.70</b>	<b>608.25</b>	-	<b>726.95</b>	<b>72.70</b>	<b>799.65</b>
13	<b>Total</b>	<b>427,440</b>	<b>2,480.78</b>	<b>499,670</b>	<b>139.24</b>	<b>968.65</b>	<b>34.83</b>	<b>1,142.72</b>	<b>110.50</b>	<b>1,253.22</b>

**Format 26 – REVENUE AT EXISTING TARIFF (ENSUING YEAR FY 2015-16)**

Sr. No.	Category of Consumer	No of Consumers	Energy Sale (MUs)	Contracted Demand (KW/kVA)	Revenue (Rs Crore)		
					Demand Charges	Energy Charges	Total Billing
<b>1</b>	Domestic & Cottage						
A	0 – 100	117,681	228	-	4.24	23.99	28.23
B	101 – 200	64,724	144	-	2.33	22.98	25.31
C	201 – 300	52,956	85	-	1.91	26.31	28.22
D	>300	58,840	196	-	2.12	75.40	77.52
E	OHOB	35,539	10	-	1.07	-	1.07
F	<b>Total</b>	<b>329,741</b>	<b>662.84</b>	-	<b>11.66</b>	<b>148.68</b>	<b>160.34</b>
<b>2</b>	Commercial						
A	0 – 100	7,708	31	-	0.65	11.93	12.58
B	101 – 250	7,226	23	-	0.61	10.58	11.18
C	> 250	33,239	139	-	2.79	69.73	72.53
D	<b>Total</b>	<b>48,173</b>	<b>193.70</b>	-	<b>4.05</b>	<b>92.24</b>	<b>96.29</b>
<b>3</b>	Agriculture						
A	Small farmers	958	8.00	5,439	0.05	-	0.05
B	Other farmers	5,878	48.60	54,099	1.76	-	1.76
C	<b>Total</b>	<b>6,836</b>	<b>56.60</b>	<b>59,538</b>	<b>1.81</b>	-	<b>1.81</b>
<b>4</b>	Public lighting	50,055	30.61	-	3.00	13.47	16.47
<b>5</b>	LT Industrial & Water Tanks						
A	<b>Total</b>	<b>6,617</b>	<b>289.53</b>	-	<b>0.64</b>	<b>130.29</b>	<b>130.92</b>
<b>6</b>	Temporary supply - LT&HT	-	21.00	-	-	18.90	18.90
<b>7</b>	<b>Total LT</b>	<b>441,421</b>	<b>1,254.28</b>	<b>59,538</b>	<b>21.15</b>	<b>403.58</b>	<b>424.73</b>
<b>8</b>	HT 1 Industrial & Commercial						
A	I(a) up to CD 5000kVA (Industrial/IT/ITES)	351	944.61	294,363	77.71	443.97	521.68
B	I(b) up to CD 5000kVA (Commercial)	77	49.72	28,293	7.47	23.37	30.84
<b>9</b>	HT 2 - Government & water tank	53	53.00	25,210	6.66	25.44	32.10
<b>10</b>	HT 3 – EHT	7	366.30	109,695	31.59	172.16	203.76
<b>11</b>	<b>Total HT</b>	<b>488</b>	<b>1,413.63</b>	<b>457,561</b>	<b>123.43</b>	<b>664.94</b>	<b>788.37</b>
<b>12</b>	<b>Total</b>	<b>441,910</b>	<b>2,667.91</b>	<b>517,099</b>	<b>144.58</b>	<b>1,068.52</b>	<b>1,213.10</b>

**Format 26 – REVENUE AT EXISTING TARIFF (ENSUING YEAR FY 2016-17)**

Sr. No.	Category of Consumer	No of Consumers	Energy Sale (MUs)	Contracted Demand (KW/kVA)	Revenue (Rs Crore)		
					Demand Charges	Energy Charges	Total Billing
<b>1</b>	Domestic & Cottage						
A	0 – 100	122,875	244	-	4.42	25.65	30.08
B	101 – 200	67,581	154	-	2.43	24.57	27.00
C	201 – 300	55,294	91	-	1.99	28.13	30.12
D	>300	61,437	209	-	2.21	80.62	82.83
E	OHOB	35,539	10	-	1.07	-	1.07
F	<b>Total</b>	<b>342,725</b>	<b>708.03</b>	-	<b>12.12</b>	<b>158.98</b>	<b>171.10</b>
<b>2</b>	Commercial						
A	0 – 100	7,983	33	-	0.67	12.89	13.56
B	101 – 250	7,484	25	-	0.63	11.42	12.05
C	> 250	34,427	151	-	2.89	75.31	78.20
D	<b>Total</b>	<b>49,894</b>	<b>209.20</b>	-	<b>4.19</b>	<b>99.62</b>	<b>103.81</b>
<b>3</b>	Agriculture						
A	Small farmers	958	8	5,439	0.05	-	0.05
B	Other farmers	5,878	49	54,099	1.76	-	1.76
C	<b>Total</b>	<b>6,836</b>	<b>56.63</b>	<b>59,538</b>	<b>1.81</b>	-	<b>1.81</b>
<b>4</b>	Public lighting	50,220	32.14	-	3.01	14.14	17.15
<b>5</b>	LT Industrial & Water Tanks						
A	<b>Total</b>	<b>6,815</b>	<b>308.72</b>	-	<b>0.65</b>	<b>138.93</b>	<b>139.58</b>
<b>6</b>	Temporary supply - LT&HT	-	22.05	-	-	19.85	19.85
<b>7</b>	<b>Total LT</b>	<b>456,491</b>	<b>1,336.77</b>	<b>59,538</b>	<b>21.79</b>	<b>431.51</b>	<b>453.30</b>
<b>8</b>	HT 1 Industrial & Commercial						
A	I(a) up to CD 5000kVA (Industrial/IT/ITES)	362	1,010.74	301,976	79.72	475.05	554.77
B	I(b) up to CD 5000kVA (Commercial)	80	53.20	31,122	8.22	25.00	33.22
<b>9</b>	HT 2 - Government & water tank	56	56.18	27,731	7.32	26.97	34.29
<b>10</b>	HT 3 – EHT	7	388.28	115,167	33.17	182.49	215.66
<b>11</b>	<b>Total HT</b>	<b>504</b>	<b>1,508.40</b>	<b>475,996</b>	<b>128.43</b>	<b>709.51</b>	<b>837.93</b>
	<b>Total</b>	<b>456,995</b>	<b>2,845.16</b>	<b>535,534</b>	<b>150.22</b>	<b>1,141.01</b>	<b>1,291.23</b>



**Format 26 – REVENUE AT EXISTING TARIFF (ENSUING YEAR FY 2017-18)**

Sr. No.	Category of Consumer	No of Consumers	Energy Sale (MUs)	Contracted Demand (KW/kVA)	Revenue (Rs Crore)		
					Demand Charges	Energy Charges	Total Billing
1	Domestic & Cottage						
A	0 – 100	128,298	261.22	-	4.62	27.43	32.05
B	101 – 200	70,564	164.20	-	2.54	26.27	28.81
C	201 – 300	57,734	97.03	-	2.08	30.08	32.16
D	>300	64,149	223.91	-	2.31	86.20	88.51
E	OHOB	35,539	10.00	-	1.07	-	1.07
F	<b>Total</b>	<b>356,283</b>	<b>756.35</b>	<b>-</b>	<b>12.61</b>	<b>169.98</b>	<b>182.59</b>
2	Commercial						
A	0 – 100	8,268	36.15	-	0.69	13.92	14.61
B	101 – 250	7,751	27.11	-	0.65	12.34	12.99
C	> 250	35,657	162.67	-	3.00	81.33	84.33
D	<b>Total</b>	<b>51,676</b>	<b>225.93</b>	<b>-</b>	<b>4.34</b>	<b>107.59</b>	<b>111.93</b>
3	Agriculture						
A	Small farmers	958	8.00	5,439	0.05	-	0.05
B	Other farmers	5,878	48.63	54,099	1.76	-	1.76
C	<b>Total</b>	<b>6,836</b>	<b>56.63</b>	<b>59,538</b>	<b>1.81</b>	<b>-</b>	<b>1.81</b>
4	Public lighting	50,385	33.74	-	3.02	14.85	17.87
5	LT Industrial & Water Tanks						
A	<b>Total</b>	<b>7,020</b>	<b>329.21</b>	<b>-</b>	<b>0.67</b>	<b>148.14</b>	<b>148.82</b>
6	Temporary supply - LT&HT	-	23.15	-	-	20.84	20.84
7	<b>Total LT</b>	<b>472,201</b>	<b>1,425.01</b>	<b>59,538</b>	<b>22.46</b>	<b>461.40</b>	<b>483.86</b>
8	HT 1 Industrial & Commercial						
A	I(a) up to CD 5000kVA (Industrial/IT/ITES)	373	1,081.49	309,858	81.80	508.30	590.10
B	I(b) up to CD 5000kVA (Commercial)	82	56.92	34,235	9.04	26.75	35.79
9	HT 2 - Government & water tank	59	59.55	30,504	8.05	28.58	36.64
10	HT 3 – EHT	7	411.58	120,912	34.82	193.44	228.26
11	<b>Total HT</b>	<b>521</b>	<b>1,609.54</b>	<b>495,509</b>	<b>133.72</b>	<b>757.08</b>	<b>890.79</b>
	<b>Total</b>	<b>472,722</b>	<b>3,034.55</b>	<b>555,047</b>	<b>156.17</b>	<b>1,218.48</b>	<b>1,374.65</b>

**Format 27 – REVENUE AT PROPOSED TARIFF (ENSUING YEAR FY 2015-16)**

Sr. No.	Category of Consumer	No of Consumers	Energy Sale (MUs)	Demand (KW/kVA)	Fixed Charge (Rs./kW/kVA/BHP/Month/Connection)	Energy Charge (Rs/kWh)	Revenue (Rs Crore)					
							Fixed Charges	Energy Charges	Total	Surcharge	Total	
<b>1</b>	Domestic & Cottage											
A	0 - 100	117,681	228.49	-	32	1.12	4.52	25.67	30.19	1.42	31.61	
B	101 - 200	64,724	143.62	-	32	1.71	2.49	24.59	27.07	1.27	28.35	
C	201 - 300	52,956	84.87	-	32	3.32	2.03	28.15	30.18	1.42	31.60	
D	>300	58,840	195.85	-	32	4.12	2.26	80.68	82.94	3.90	86.84	
E	OHOB	35,539	10.00	-	27	-	1.15	-	1.15		1.15	
F	<b>Total</b>	<b>329,741</b>	<b>662.84</b>				<b>12.45</b>	<b>159.09</b>	<b>171.54</b>	<b>8.01</b>	<b>179.55</b>	
<b>2</b>	Commercial											
A	0 - 100	7,708	30.99	-	75	4.12	0.69	12.77	13.46	0.63	14.09	
B	101 - 250	7,226	23.24	-	75	4.87	0.65	11.32	11.97	0.56	12.53	
C	> 250	33,239	139.47	-	75	5.35	2.99	74.61	77.61	3.65	81.25	
D	<b>Total</b>	<b>48,173</b>	<b>193.70</b>	-			<b>4.34</b>	<b>98.70</b>	<b>103.03</b>	<b>4.84</b>	<b>107.88</b>	
<b>3</b>	Agriculture											
A	Small farmers	958	8.00	5,439	9	-	0.06		0.06		0.06	
B	Other farmers	5,878	48.60	54,099	27	-	1.88		1.88		1.88	
C	<b>Total</b>	<b>6,836</b>	<b>56.60</b>	<b>59,538</b>			<b>1.94</b>	<b>-</b>	<b>1.94</b>	<b>-</b>	<b>1.94</b>	
<b>4</b>	Public lighting	50,055	30.61	-	54	4.71	3.24	14.41	17.65	0.83	18.48	
<b>5</b>	LT Industrial & Water Tanks											
A	<b>Total</b>	<b>6,617</b>	<b>289.53</b>	-	<b>86</b>	<b>4.82</b>	<b>0.68</b>	<b>139.41</b>	<b>140.09</b>	<b>6.58</b>	<b>146.67</b>	
<b>6</b>	Temporary supply - LT&HT	-	21.00	-	535	9.63	-	20.22	20.22	0.95	21.17	
<b>7</b>	<b>Total LT</b>	<b>441,421</b>	<b>1,254.28</b>	<b>59,538</b>	-	-	<b>22.65</b>	<b>431.83</b>	<b>454.48</b>	<b>21.22</b>	<b>475.70</b>	
<b>8</b>	HT 1 Industrial											
A	I(a) up to CD 5000kVA (Industrial/IT/ITES)	350.62	944.61	2,94,362.97	235	5.03	83.01	475.05	558.06	26.23	584.28	
B	I(b) up to CD 5000kVA (Commercial)	77	49.72	28,293	235	5.03	7.98	25.00	32.98	1.55	34.53	
C	<b>Total</b>	<b>428</b>	<b>994.33</b>	<b>322,656</b>			<b>90.99</b>	<b>500.05</b>	<b>591.04</b>	<b>27.78</b>	<b>618.82</b>	
<b>9</b>	HT 2 - Government & water tank	53	53.00	25,210	235	5.14	7.11	27.22	34.33	1.61	35.94	
<b>10</b>	HT 3 - EHT	7	366.30	109,695	257	5.03	33.83	184.21	218.04	10.25	228.29	
<b>11</b>	<b>Total HT</b>	<b>488</b>	<b>1,413.63</b>	<b>457,561</b>			<b>131.93</b>	<b>711.48</b>	<b>843.41</b>	<b>39.64</b>	<b>883.05</b>	
<b>12</b>	<b>Total</b>	<b>441,910</b>	<b>2,667.91</b>				<b>154.58</b>	<b>1,143.31</b>	<b>1,297.90</b>	<b>60.86</b>	<b>1,358.75</b>	

**Format 27 – REVENUE AT PROPOSED TARIFF (ENSUING YEAR FY 2016-17)**

Sr. No.	Category of Consumer	No of Consumers	Energy Sale (MUs)	Demand (KW/kVA)	Fixed Charge (Rs./kW/kVA/BHP/Month/Connection)	Energy Charge (Rs/kWh)	Revenue (Rs Crore)		
							Fixed Charges	Energy Charges	Total
1	Domestic & Cottage								
A	0 – 100	122,875	244.31	-	35	1.24	5.16	30.19	35.35
B	101 – 200	67,581	153.57	-	35	1.88	2.84	28.92	31.76
C	201 – 300	55,294	90.74	-	35	3.65	2.32	33.11	35.43
D	>300	61,437	209.41	-	35	4.53	2.58	94.89	97.47
E	OHOB	35,539	10.00	-	30	-	1.28	-	1.28
F	<b>Total</b>	<b>342,725</b>	<b>708.03</b>	-	-	-	<b>14.18</b>	<b>187.11</b>	<b>201.30</b>
2	Commercial								
A	0 – 100	7,983	33.47	-	82	4.53	0.79	15.17	15.95
B	101 – 250	7,484	25.10	-	82	5.36	0.74	13.44	14.18
C	> 250	34,427	150.62	-	82	5.89	3.39	88.64	92.03
D	<b>Total</b>	<b>49,894</b>	<b>209.20</b>	-			<b>4.91</b>	<b>117.25</b>	<b>122.16</b>
3	Agriculture								
A	Small farmers	958	8.00	5,439	10	-	0.07	-	0.07
B	Other farmers	5,878	48.63	54,099	30	-	2.08	-	2.08
C	<b>Total</b>	<b>6,836</b>	<b>57</b>	<b>59,538</b>			<b>2.14</b>	-	<b>2.14</b>
4	Public lighting	50,220	32.14	-	59	5.18	3.56	16.64	20.20
5	LT Industrial & Water Tanks								
A	<b>Total</b>	<b>6,815</b>	<b>309</b>	-	<b>94</b>	<b>5.30</b>	<b>0.77</b>	<b>163.52</b>	<b>164.28</b>
6	Temporary supply - LT&HT	-	22.05	-	586	10.59	-	23.36	23.36
7	<b>Total LT</b>	<b>456,491</b>	<b>1,336.77</b>	<b>59,538</b>	-	-	<b>25.56</b>	<b>507.88</b>	<b>533.44</b>
8	HT 1 Industrial & Commercial								
A	I(a) up to CD 5000kVA (Industrial/IT/ITES)	361	1,010.74	3,01,976	257	5.53	93.13	559.13	652.26
B	I(b) up to CD 5000kVA (Commercial)	80	53.20	31,122	257	5.53	9.60	29.43	39.03
C	<b>Total</b>	<b>441</b>	<b>1,063.93</b>	<b>333,098</b>			<b>102.73</b>	<b>588.56</b>	<b>691.28</b>
9	HT 2 - Government & water tank	56	56.18	27,731	257	5.65	8.55	31.74	40.29
10	HT 3 – EHT	7	388.28	115,167	281	5.53	38.83	214.79	253.63
11	<b>Total HT</b>	<b>504</b>	<b>1,508.40</b>	<b>475,996</b>	-	-	<b>150.11</b>	<b>835.09</b>	<b>985.20</b>
12	<b>Total</b>	<b>456,995</b>	<b>2,845.16</b>	<b>535,534</b>			<b>175.67</b>	<b>1,342.97</b>	<b>1,518.65</b>

**Format 27 – REVENUE AT PROPOSED TARIFF (ENSUING YEAR FY 2017-18)**

Sr. No.	Category of Consumer	No of Consumers	Energy Sale/ Demand (MUs)	Contracted Maximum Demand (KW/kVA)	Fixed Charge (Rs/kW Rs/kVA Rs/BHP Rs/Month/ Connection)	Energy Charge (Rs/kWh)	Revenue (Rs Crore)		
							Fixed Charges	Energy Charges	Total
1	Domestic & Cottage								
A	0 – 100	128,298	261.22	-	38	1.36	5.85	35.51	41.36
B	101 – 200	70,564	164.20	-	38	2.07	3.22	34.01	37.23
C	201 – 300	57,734	97.03	-	38	4.01	2.63	38.94	41.57
D	>300	64,149	223.91	-	38	4.98	2.93	111.61	114.53
E	OHOB	35,539	10.00	-	33	-	1.41	-	1.41
F	<b>Total</b>	<b>356,283</b>	<b>756.35</b>	-	-	-	<b>16.03</b>	<b>220.07</b>	<b>236.11</b>
2	Commercial								
A	0 – 100	8,268	36.15	-	90	4.98	0.89	18.02	18.91
B	101 – 250	7,751	27.11	-	90	5.89	0.84	15.97	16.81
C	> 250	35,657	162.67	-	90	6.47	3.85	105.30	109.15
D	<b>Total</b>	<b>51,676</b>	<b>225.93</b>	-	-	-	<b>5.58</b>	<b>139.29</b>	<b>144.87</b>
3	Agriculture								
A	Small farmers	958	8.00	5,439	11	-	0.07	-	0.07
B	Other farmers	5,878	48.63	54,099	33	-	2.27	-	2.27
C	<b>Total</b>	<b>6,836</b>	<b>56.63</b>	<b>59,538</b>	-	-	<b>2.34</b>	-	<b>2.34</b>
4	Public lighting	50,385	33.74	-	65	5.70	3.93	19.22	23.15
5	LT Industrial & Water Tanks								
A	<b>Total</b>	<b>7,020</b>	<b>329.21</b>	-	<b>103</b>	<b>5.83</b>	<b>0.87</b>	<b>191.80</b>	<b>192.67</b>
6	Temporary supply - LT&HT	-	23.15	-	642	11.65	-	26.98	26.98
7	<b>Total LT</b>	<b>472,201</b>	<b>1,425.01</b>	-	-	-	<b>28.76</b>	<b>597.37</b>	<b>626.13</b>
8	HT 1 Industrial & Commercial								
A	I(a) up to CD 5000kVA (Industrial/IT/ITES)	373	1081.49	3,09,858	281	6.09	104.48	658.09	762.58
B	I(b) up to CD 5000kVA (Commercial)	82	56.92	34,235	281	6.09	11.54	34.64	46.18
C	<b>Total</b>	<b>455</b>	<b>1,138</b>	<b>344,093</b>	-	-	<b>116.03</b>	<b>692.73</b>	<b>808.76</b>
9	HT 2 - Government & water tank	59	59.55	30,504	281	6.21	10.29	37.01	47.29
10	HT 3 – EHT	7	411.58	120,912	308	6.09	44.69	250.45	295.14
11	<b>Total HT</b>	<b>521</b>	<b>1,609.54</b>	<b>495,509</b>	-	-	<b>171.00</b>	<b>980.19</b>	<b>1,151.19</b>
12	<b>Total</b>	<b>472,722</b>	<b>3,034.55</b>	<b>495,509</b>	-	-	<b>199.76</b>	<b>1,577.56</b>	<b>1,777.32</b>

**Annexure 2: AUDITED ACCOUNTS OF FY 2011-12**

**Annexure 3: AUDITED ACCOUNTS OF FY 2012-13**

**Annexure 4: UN-AUDITED ACCOUNTS OF FY 2013-14**

**Annexure 5: LIST OF PROPOSED WORKS UNDER JICA LOAN\* -- TRANSMISSION STRENGTHENING SCHEMES (all Figures in Rs. Crs)**

Sl.No.	Particulars	Projection			Remarks
		FY 2015-16	FY 2016-17	FY 2017-18	
1	Establishment of 110/22 KV Lawspet SS, 110 KV cable laying works from 110/22 KV Kurumbapet Sub Station	18.00	18.00	24.00	* Preliminary Project Report sent to Government of India for scrutiny. * Loan size amount not finalised. * DPR for availing Loan is to be prepared. * In principle Approval/Sanction from Government of India not yet received. * Proposed work is to be carried out only on financial tie up.
2	Establishment of 230/110 KV Auto SS at Karaikal	8.09	8.09	10.79	
3	Establishment of Thondamanatham 110/22 KV SS with 2x25 MVA Power Transformer capacity.	3.12	3.12	4.16	
4	Augmentation of Capacity of Transformer at Bahour Auto SS from 80 MVA to 100 MVA	6.00	6.00	8.00	
5	Provision of additional 100 MVA Power Transformer at Villianur 230 KV SS	3.00	3.00	4.00	
6	Renovation and Modernisation of Villianur 230 KV Auto SS	4.50	4.50	3.00	
7	Establishment of 110/22 SS with 2x25 MVA Power Transformer near Thavalakuppam including Land acquisition and associated line portion	7.50	7.50	10.00	
8	Establishment of 110/22 SS with 2x25 MVA Power Transformer near Thirubuvanaipalayam including Land acquisition and associated line portion	7.50	7.50	10.00	
9	Establishment of 110/22 SS with 2x16 MVA Power Transformer at Vanjoore (Karaikal) including Land acquisition and associated line portion	7.50	7.50	10.00	
10	Laying of 110 KV cables to proposed Lawspet 110/22 KV SS from Kurumbapet and Vengata Nagar SS	18.00	18.00	24.00	
11	Augmentation of Transgormer capacity at Villanur 110 KV SS with each 2x25 MVA Power Transformer capacity	1.50	1.50	2.00	
12	Renovation and Modernisation and Augmentation of Transformer capacities at Kalapet 110/22 KV SS with 2x16 MVA.	3.00	3.00	4.00	



Sl.No.	Particulars	Projection			Remarks
		FY 2015-16	FY 2016-17	FY 2017-18	
13	Renovation and Modernisation and Augmentation of Transformer capacities at Thettampakkam 110/22 KV SS with 2x16 MVA	3.00	3.00	4.00	
14	Renovation and Modernisation of 110/22-11 KV Marapalam SS	2.40	2.40	3.20	
15	Renovation and Modernisation of 110/11 KV Surakudy SS, Karaikal	1.20	1.20	1.60	
16	Replacement of Capacitor Banks at various Sub Stations.	1.50	1.50	2.00	
17	Erection/ establishment/ upgradation of 230kV and 110kV SS	18.69	19.62	20.61	

**Annexure 6: LIST OF ONGOING WORKS -- TRANSMISSION STRENGTHENING SCHEMES (all Figures in Rs. Crs)**

Sl. No.	Particulars	Total cost	Expenditure booked upto FY 2013-14	Projection			Remarks
				FY 2014-15 Balance payment	FY 2015-16	FY 2016-17	
1	Establishment of 110/11 KV Vengata Nagar SS	44.65	43.46	1.18	0.00	0.00	REC Loan. Balance payment to be made on receipt of final bill for additional quantity/ deviations.
2	Establishment of Thondamanatham 110/22 KV SS with 2x25 MVA Power Transformer capacity.	11.61	1.16	10.44			balance to be met from Plan fund/JICA Tentative estimate cost
3	Villianur 110/22 KV Sub Station R & M works	6.26	5.92	0.35	0.00	0.00	
4	Strengthening of 110 KV Villianur - Bahour line	6.60	4.95	1.65			
5	Extension of 2 nd circuit of 110 KV Villianur - Bahour line from 230/110 KV Auto Sub Station	0.73	0.07	0.07	0.29	0.29	
6	Land Acquisition for the proposed 110/22 KV Lawspet Sub Station.	10.26	1.75		3.17	3.17	Amount paid
			2.18				Proposal sent to Government
7	Establishment of 230/110kV Auto SS at Karaikal	30.30	3.03		13.64	13.64	Tentative estimate cost
<b>R-APDRP</b>							
1	R-APDRP PART- A works	13.79	4.17*		4.81**	4.81**	PFC Loan
							* loan availed
							**loan to be availed
2	R-APDRP PART- B works	84.78	14.10*		35.34**	35.34**	PFC Loan
							* loan availed
							**loan to be availed

**Annexure 7: PROJECTION OF OUTLAYS FOR THE DISTRIBUTION SCHEMES DURING THE PERIOD 2015-16 TO 2017-18 (all Figures in Rs. Crs)**

Sl. No.	Name of Scheme	Expenditure booked during FY 2013-14	Projection of outlays			
			FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
1	System improvement for reduction of transmission and distribution losses	5.91	5.86	7.20	7.80	8.00
2	Extension and development of power supply to all categories of consumers and street lights	9.79	11.11	9.85	10.35	10.50
3	Rural electrification (BNP)	0.59	0.66	0.70	0.75	0.80
4	Providing meters for all consumers under 100% metering programme	0.55	3.12	3.60	3.75	4.00
5	Conversion of HT overhead Lines in to UG cables	3.68	4.12	4.32	4.54	4.77