



## DELHI ELECTRICITY REGULATORY COMMISSION

Viniyamak Bhawan, 'C' Block, Shivalik, Malviya Nagar, New Delhi- 110017.

F.11(1388/DERC/2016-17/

### Petition No. 19/2017

**In the matter of:** Petition for True-up for FY 2014-15 and review of Aggregate Revenue Requirement (ARR) for the FY 2015-16 and Business Plan and MYT Petition for 3<sup>rd</sup> Control Period FY 2016-17 to FY 2020-21 and Corresponding Tariff determination for FY 2016-17.

**And**

### Petition No. 28/2017

**In the matter of:** Petition for True-up for FY 2015-16, Revised ARR for FY 2016-17 and corresponding determination of Tariff for FY 2017-18.

New Delhi Municipal Council  
Through its : Secretary  
Palika Kendra,  
New Delhi.

...Petitioner/Licensee

**Coram: Sh. B. P. Singh, Member.**

### ORDER

(Date of Order: 31.08.2017)

M/s. New Delhi Municipal Council filed aforesaid Petition No. 19 of 2017 for True-up for FY 2014-15 and review of Aggregate Revenue Requirement (ARR) for the FY 2015-16 and Business Plan and MYT Petition for 3<sup>rd</sup> Control Period FY 2016-17 to FY 2020-21 and Corresponding Tariff determination for FY 2016-17, admitted by the Commission vide Order dated 26.05.2017; and Petition No. 28 of 2017 for True-up for FY 2015-16, Revised ARR for FY 2016-17 and corresponding determination of Tariff for FY 2017-18, admitted by the Commission vide Order dated 07.06.2017. The Petitions along with Executive summary were uploaded on the website of the Commission seeking response of the stakeholders. This was also widely publicised through advertisement in newspapers. In response to the advertisement the Commission received comments from the Stakeholders, which have been replied to by the Petitioner. The comments and suggestions of the stakeholders, the submissions made during the public hearing held on 19.07.2017 and the arguments advanced by the Petitioner have been taken into consideration.

After having considered the above, the Commission in exercise of the power vested in it by the Electricity Act, 2003 and Delhi Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulations, 2017, hereby pass this Tariff Order signed, dated and issued on 31.08.2017.

The Petitioner shall take immediate steps to implement the said Order, so as to make the revised tariffs applicable from 01.09.2017.

This Tariff Order shall remain in force till replaced by a subsequent Tariff Order and/or is amended, reviewed or modified, in accordance with the provisions of the Electricity Act, 2003 and the Regulations made there under.



(B. P. Singh)  
Member

## CONTENTS

<b>A1: INTRODUCTION .....</b>	<b>8</b>
<b>A2: RESPONSE FROM STAKEHOLDERS .....</b>	<b>20</b>
ISSUE 1: PUBLIC HEARING AND OBJECTION PROCESS .....	20
ISSUE 2: MYT REGULATION & BUSINESS PLAN .....	22
ISSUE 4: TARIFF FOR DMRC .....	30
ISSUE 5: ENERGY AUDIT.....	33
<b>A3: TRUE UP OF FY 2014-15 AND FY 2015-16 .....</b>	<b>35</b>
Background .....	35
Energy Sales .....	35
AT&C Loss .....	37
Power Purchase Quantum.....	42
Power Purchase Cost.....	44
Non-Tariff Income .....	51
Capital Expenditure and Capitalisation .....	52
Depreciation .....	53
Working Capital.....	55
Regulated Rate Base .....	56
Return on Capital Employed.....	58
Income-Tax .....	59
Aggregate Revenue Requirement.....	60
Revenue (Gap)/Surplus .....	61
<b>A4: AGGREGATE REVENUE REQUIREMENT FOR FY 2017-18.....</b>	<b>63</b>
Energy Sales .....	63
Estimated Sales for FY 2017-18 .....	66
Domestic Consumers .....	66
Non-Domestic Consumers.....	67
Mixed Load Consumers .....	67
Small Industrial Power .....	67
Public Lighting.....	67
Delhi Metro Rail Corporation (DMRC) .....	68
Other Categories .....	68
Approved Sales for FY 2017-18.....	68
Revenue at Existing Tariff .....	68
Distribution Loss .....	70
Energy Requirement .....	71
Power Purchase Quantum.....	72
Power Purchase Cost.....	77
Renewable Power Purchase Obligation (RPO) .....	78
Solar.....	78
Non Solar .....	79
Transmission Losses and Charges .....	81
Energy Balance.....	83
Sale of Surplus Power .....	84
Rebate on Power Purchase and Transmission Charges .....	85
Total Power Purchase Cost.....	86

Operation and Maintenance Expenses .....	86
Administrative Department and Civil Engineering Department Expenses .....	89
Capitalisation .....	90
Depreciation .....	91
Working Capital.....	92
Non-Tariff Income .....	93
Return on Capital Employed .....	94
Return on Capital Employed .....	95
Income Tax.....	95
Aggregate Revenue Requirement.....	96
<b>A5: TARIFF DESIGN .....</b>	<b>98</b>
<b>A6: DIRECTIVES .....</b>	<b>118</b>
<b>Annexure I .....</b>	<b>121</b>
<b>Annexure II .....</b>	<b>123</b>
<b>Annexure III .....</b>	<b>132</b>

Table 1: Issues discussed in State Advisory Committee Meeting .....	11
Table 2: List of Correspondence with the Petitioner .....	13
Table 3: RPO Target as submitted by DISCOM .....	28
Table 4: RPO approved by the Commission .....	30
Table 5: Category-wise energy sales during FY 2014-15 & FY 2015-16 (MU) .....	36
Table 6: Trued Up Energy Sales for FY 2014-15 & FY 2015-16 (MU) .....	37
Table 7: AT&C Loss for FY 2014-15 & FY 2015-16.....	37
Table 8: Computation of AT&C Loss for FY 2014-15 & FY 2015-16 .....	38
Table 9: Computation of AT&C Loss for FY 2014-15 & FY 2015-16 .....	38
Table 10: Trued up AT&C losses approved by the Commission .....	40
Table 11: AT&C loss for FY 2014-15 approved by the Commission.....	40
Table 12: AT&C loss for FY 2015-16 approved by the Commission.....	41
Table 13: Computation of penalty due to Under Achievement in AT&C loss targets for FY 2014-15.....	41
Table 14: Computation of penalty due to Under Achievement in AT&C loss targets for FY 2015-16.....	41
Table 15: Power Purchase Quantum for FY 2014-15 & FY 2015-16 (MU) .....	42
Table 16: Details of Power Purchase Quantum from Long-Term Sources Station Wise (MU).....	43
Table 17: Details of Short Term Power Purchase (in MU) .....	44
Table 18: Long term Power Purchase Cost submitted by Petitioner (Rs. Crore.) .....	44
Table 19: Short term Power Purchase Cost submitted by Petitioner (Rs. Crore.) .....	45
Table 20: Power Purchase Cost (in Rs. Crore) .....	45
Table 21: Details of Short term power sales (Rs. CrORE.).....	45
Table 22: Amount of rebate availed during FY 2014-15 & FY 2015-16 (Rs. Crore) .....	46
Table 23: Gross Power Purchase Cost during FY 2014-15 & FY 2015-16(Rs. Crore) .....	46
Table 24: Total Power Purchase Cost as approved by the Commission (Rs. Crore.).....	48
Table 25: Actual O&M Expenses for FY 2014-15 & FY 2015-16 .....	49
Table 26: True-up O&M Expenses approved by the Commission (Rs. Crore.).....	49
Table 27: Actual O&M Expenses for FY 2014-15 & FY 2015-16(Rs. Crore) .....	50
Table 28: Actual Non- Tariff income submitted by the Petitioner (Rs.Crore).....	51
Table 29 : Trued-up Non Tariff Income approved for FY 2014-15 (Rs. Crore) .....	52
Table 30: Trued-up Non Tariff Income approved for FY 2015-16 (Rs. Crore) .....	52
Table 31: Actual GFA for FY2014-15 and FY 2015-16 (Rs. Crore) .....	53
Table 32: True-up GFA as approved by the Commission for FY 2014-15 & FY 2015-16.....	53
Table 33: Actual Depreciation for FY 2014-15 and FY 2015-16 (Rs. Crore) .....	54
TABLE 34: CUMULATIVE DEPRECIATION ON FIXED ASSETS (RS. CRORE).....	54
Table 35: True-up of Actual Depreciation approved by the Commission (Rs. Crore) .....	54
TABLE 36: DETERMINATION OF WORKING CAPITAL REQUIREMENT FOR FY 2014-15 AND FY 2015-16 (RS. CRORE) .....	55
Table 37: Working Capital considered for FY 2014-15 & FY 2015-16 (Rs. Crore).....	56
Table 38: Regulated Rate Base for FY 2014-15 & FY 2015-16 (Rs. Crore).....	56
Table 39: RRB considered by the Commission (Rs. Crore) .....	57
Table 40: Return on Capital Employed for FY 2014-15 and FY 2015- 16 .....	58
Table 41 : Return on Capital Employed (RoCE) approved.....	59
Table 42: Income-Tax Determination for FY 2014-15 and FY 2015-16.....	59
Table 43: Aggregate Revenue Requirement for FY 2014-15 & FY 2015-16 (Rs. Crore).....	60
Table 44: Aggregate Revenue Requirement now approved (Rs. Crore).....	60
Table 45: Revenue (Gap/Surplus) for FY 2014-15 & FY 2015-16 (Rs. Crore) .....	61
Table 46: Revenue (Gap/SURLUS) for FY 2014-15 & FY 2015-16 (Rs. Crore).....	61

Table 47: Net Revenue Surplus/ (Gap) at the end of FY 2015-16 (Rs Crore) .....	62
Table 48: Escalation Rates for Electricity Sales for FY 2017-18 .....	63
Table 49: Category-wise Energy Sales for FY 2017-18 (MU) .....	64
Table 50: Projected Category-wise Number of Consumers and Load for FY 2017-18 .....	64
Table 51 : Energy sales from FY 2010-11 to FY 2015-16 (MU) .....	65
Table 52 : Five years' CAGR (%) .....	65
Table 53 : No. of Consumers and Connected Load (kW) for FY 2017-18.....	66
Table 54 : Category-wise Energy Sales approved by the Commission for FY 2017-18 (MU) ..	68
Table 55 : Category-wise Projected Revenue at Existing Tariff for FY 2017-18 (Rs. Crore) ....	69
Table 56: Power Factor considered by the Commission for FY 2017-18 .....	70
Table 57 : Revenue estimated by the Commission for FY 2017-18 at the existing tariff .....	70
Table 58: AT&C Loss for FY 2017-18 .....	71
Table 59 : Distribution Loss target and collection efficiency for FY 2017-18 (%).....	71
Table 60: Energy Requirement Projections for FY 2017-18 .....	72
Table 61 : Approved Energy Requirement for FY 2017-18 .....	72
Table 62: Energy Availability Assumptions.....	72
Table 63: PLF and Auxiliary Consumption Assumptions .....	74
Table 64: Energy Availability Projections for FY 2017-18 .....	75
Table 65: Energy available for FY 2017-18 (MU) .....	75
Table 66: Re-allocation of Power effective September 2017 onwards .....	76
Table 67: Power Allocation for FY 2017-18 approved by the Commission.....	77
Table 68: Power Purchase Cost from various sources for FY 2017-18 .....	77
Table 69: Power Purchase Cost from various sources for FY 2017-18 .....	78
Table 70: Solar RPO for FY 2017-18 .....	78
Table 71: Non-Solar RPO for FY 2017-18.....	79
Table 72: Targets for Renewable Power Purchase Obligation .....	79
Table 73: .....	79
Table 74: Floor and Forbearance Price for Non-Solar and Solar RECs.....	80
Table 75 Approved Cost of Power purchase to meet RPO .....	81
Table 76: Transmission Losses and Charges for FY 2017-18 (in MU) .....	82
Table 77 Transmission Losses and Charges for FY 2017-18 approved by the Commission....	82
Table 78: Energy Balance Projections for FY 2017-18 (in MU).....	83
Table 79: Energy Balance for FY 2017-18.....	83
Table 80: Sale of Surplus Power for FY 2017-18.....	84
Table 81: Approved sale of surplus power for FY 2017-18 .....	84
Table 82: Rebate on Power Purchase and Transmission Charges for FY 2017-18 .....	85
Table 83: Power Purchase Cost for FY 2017-18.....	85
Table 84: Rebate on Power purchase and Transmission Charges approved for FY 2017-18 .	86
Table 85 : Total Power purchase Cost approved by the Commission for FY 2017-18.....	86
Table 86: Escalation Factor for O&M Expenses.....	88
Table 87: O&M Expenses Projected for FY 2017-18 (Rs. Crore).....	88
Table 88 : Gross O&M Expenses approved for FY 2017-18 (Rs. Crore) .....	89
Table 89: Allocation of Administrative and Civil Engineering Department Expenses (Rs. Crore).....	90
Table 90: Capitalisation for FY 2017-18 (Rs. Crore) .....	91
Table 91: Projected Depreciation of Fixed Assets for FY 2017-18 (Rs. Crore) .....	91
Table 92 : GFA and Depreciation considered for FY 2017-18 (Rs. Crore) .....	92
Table 93: Projected Working Capital for FY 2017-18.....	93
Table 94: Working Capital as approved for FY 2017-18.....	93

Table 95: Projected Non-Tariff Income for FY 2017-18 .....	93
Table 96: RRB for FY 2017-18 (Rs. Crore) .....	94
Table 97: RRB considered by the Commission for FY 2017-18 (Rs. Crore) .....	94
Table 98: Return on Capital Employed for FY 2017-18 (Rs. Crore).....	95
Table 99: RoCE approved for FY 2017-18.....	95
Table 100: Income Tax for FY 2017-18 (Rs. Crore) .....	96
Table 101: Projected ARR for FY 2017-18 (Rs. Crore) .....	96
Table 102: ARR approved for FY 2017-18 (Rs. Cr.) .....	97
Table 103: Revenue Surplus/(Gap) for FY 2017-18 (Rs. Cr.) .....	97
Table 104: Revenue at Revised Tariffs for FY 2017-18 for 12 months (Rs. Crore) .....	99
Table 105: Revenue at 5 months (Apr'17 to Aug'17) at Existing Tariff and 7 months at Revised Tariff (Sept'17 to Mar '18) for FY 2017-18 .....	99



## List of Abbreviation

Abbreviation	Explanation
ARR	Aggregate Revenue Requirement
A&G	Administrative and General
AAD	Advance Against Depreciation
ABT	Availability Based Tariff
ACD	Advance Consumption Deposit
AMR	Automated Meter Reading
APDRP	Accelerated Power Development and Reforms Program
AT&C	Aggregate Technical and Commercial
ATE	Appellate Tribunal for Electricity
BEST	Birhanmumbai Electric Supply and Transport
BHEL	Bharat Heavy Electricals Limited
BIS	Bureau of Indian Standards
BPTA	Bulk Power Transmission Agreement
BRPL	BSES Rajdhani Power Limited
BST	Bulk Supply Tariff
BTPS	Badarpur Thermal Power Station
BYPL	BSES Yamuna Power Limited
CAGR	Compounded Annual Growth Rate
CCGT	Combined Cycle Gas Turbine
CEA	Central Electricity Authority
CERC	Central Electricity Regulatory Commission
CFL	Compact Fluorescent Lamp
CGHS	Cooperative Group Housing Societies
CGS	Central Generating Stations
CIC	Central Information Commission
CISF	Central Industrial Security Force
CoS	Cost of Supply
CPI	Consumer Price Index
CPRI	Central Power Research Institute
CPSUs	Central Power Sector Utilities
CSGS	Central Sector Generating Stations
CWIP	Capital Work in Progress
DA	Dearness Allowance
DDA	Delhi Development Authority
DERA	Delhi Electricity Reform Act
DERC	Delhi Electricity Regulatory Commission
DIAL	Delhi International Airport Limited
DISCOMs	Distribution Companies (BRPL, BYPL, TPDDL & NDMC)
DMRC	Delhi Metro Rail Corporation
DPCL	Delhi Power Company Limited
DTL	Delhi Transco Limited
DVB	Delhi Vidyut Board
DVC	Damodar Valley Corporation



Abbreviation	Explanation
EHV	Extra High Voltage
EPS	Electric Power Survey
FBT	Fringe Benefit Tax
FPA	Fuel Price Adjustment
GFA	Gross Fixed Assets
GIS	Geographical Information System
GoNCTD	Government of National Capital Territory of Delhi
GTPS	Gas Turbine Power Station
HEP	Hydro Electric Power
HPSEB	Himachal Pradesh State Electricity Board
HRA	House Rent Allowance
HT	High Tension
HVDS	High Voltage Distribution System
IDC	Interest During Construction
IGI Airport	Indira Gandhi International Airport
IPGCL	Indraprastha Power Generation Company Limited
JJ Cluster	Jhuggi Jhopadi Cluster
KSEB	Kerala State Electricity Board
LED	Light Emitting Diode
LIP	Large Industrial Power
LT	Low Tension
LVDS	Low Voltage Distribution System
MCD	Municipal Corporation of Delhi
MES	Military Engineering Service
MLHT	Mixed Load High Tension
MMC	Monthly Minimum Charge
MoP	Ministry of Power
MTNL	Mahanagar Telephone Nigam Limited
MU	Million Units
MYT	Multi Year Tariff
NABL	National Accreditation Board for Testing and Calibration of Laboratories
NAPS	Narora Atomic Power Station
NCT	National Capital Territory
NCTPS	National Capital Thermal Power Station
NDLT	Non Domestic Low Tension
NDMC	New Delhi Municipal Council
NEP	National Electricity Policy
NGO	Non Government Organisation
NHPC	National Hydroelectric Power Corporation
NPCIL	Nuclear Power Corporation of India Limited
NRPC	Northern Regional Power Committee
NTI	Non Tariff Income
NTP	National Tariff Policy
O&M	Operations and Maintenance

Abbreviation	Explanation
OCFA	Original Cost of Fixed Assets
PGCIL	Power Grid Corporation of India
PLF	Plant Load Factor
PLR	Prime Lending Rate
PPA	Power Purchase Agreement / Power Purchase Adjustment
PPCL	Pragati Power Corporation Limited
PTC	Power Trading Corporation
PWD	Public Works Department
R&M	Repair and Maintenance
RAPS	Rajasthan Atomic Power Station
REA	Regional Energy Account
RoCE	Return on Capital Employed
ROE	Return on Equity
RRB	Regulated Rate Base
RTI	Right to Information
RWA	Resident Welfare Associations
SBI	State Bank of India
SERC	State Electricity Regulatory Commission
SIP	Small Industrial Power
SJVNL	Satluj Jal Vidyut Nigam Limited
SLDC	State Load Despatch Centre
SPD	Single Point Delivery
SPUs	State Power Utilities
SVRS	Special Voluntary Retirement Scheme
THDC	Tehri Hydro Development Corporation
ToD	Time of Day
TOWMCL	Timarpur Okhla Waste Management Company (P) Limited
TPDDL	Tata Power Delhi Distribution Limited
TPS	Thermal Power Station
UI	Unscheduled Interchange
UoM	Units of Measurement
WACC	Weighted Average Cost of Capital
WC	Working Capital
WPI	Wholesale Price Index

**A1: INTRODUCTION**

- 1.1 This Order relates to the Petition filed by New Delhi Municipal Council (hereinafter referred to as 'NDMC' or the 'Petitioner') for True-up of expenses for FY 2014-15 & FY 2015-16 for Distribution Business in terms of Delhi Electricity Regulatory Commission (Terms and Conditions for Determination of Wheeling Tariff and Retail Supply Tariff) Regulations, 2011 (hereinafter referred to as the 'MYT Regulation, 2011') and approval of Aggregate Revenue Requirement & Tariff for FY 2017-18 in terms of Delhi Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulations, 2017 (hereinafter referred to as the Tariff Regulations 2017).

**New Delhi Municipal Council (NDMC)**

- 1.2 New Delhi Municipal Council (NDMC) is a Municipal Council engaged in the distribution of electricity to the consumers in the New Delhi area under Sections 195 to 201 of the New Delhi Municipal Council Act, 1994. NDMC is a Deemed Licensee under the Electricity Act, 2003 in respect of the specified area in New Delhi.

**Delhi Electricity Regulatory Commission**

- 1.3 Delhi Electricity Regulatory Commission (hereinafter referred to as 'DERC' or the Commission') was constituted by the GoNCTD on 03.03.1999 and it became operational from 10.12.1999.
- 1.4 The Commission's approach to Regulation is driven by the Electricity Act, 2003, the National Electricity Plan, the National Tariff Policy and the Delhi Electricity Reform Act, 2000 (hereinafter referred to as 'DERA'). The Electricity Act, 2003 (EA 2003) mandates the Commission to take measures conducive to the development and management of the electricity industry in an efficient, economic, and competitive manner which inter-alia includes tariff determination.

**The State Advisory Committee Meeting**

- 1.5 The Commission has, since constitution of the State Advisory Committee on 27.03.2003, held 16<sup>th</sup> meetings so far. In the 16<sup>th</sup> State Advisory Committee Meeting held on 29.03.2017, the Commission discussed the following:

**Table 1: Issues discussed in State Advisory Committee Meeting**

S. No.	Issues Discussed
i.	Billing and Metering Audit of Distribution Licensees.
ii.	Implementation of UJALA scheme by Distribution Licensees in collaboration with EESL for distribution of LED bulbs, LED tubes and BEE5

S. No.	Issues Discussed
	star rated fans under Demand side Management(DSM)
iii.	Energy Audit of DISCOMs.
iv.	Draft DERC (Supply Code and Performance Standards) Regulations, 2017.
v.	Funding of Pension Trust.

### Multi Year Tariff Regulations

- 1.6 The Commission issued Tariff Regulations vide gazette notification dated 31.01.2017 specifying Terms and Conditions for Determination of Tariff for Distribution of electricity under the Multi Year Tariff (MYT) framework. Further the operational norms for Distribution utilities have also been approved by the Commission in Delhi Electricity Regulatory Commission Business Plan Regulations, 2017 under Tariff Regulations for the period FY 2017-18 to FY 2019-20.
- 1.7 The Commission issued '2<sup>nd</sup> MYT Regulations' vide Order dated 02.12.2011 specifying Terms and Conditions for Determination of Tariff for Distribution of electricity under the Multi Year Tariff (MYT) framework for the period FY 2012-13 to FY 2014-15.
- 1.8 The Commission vide order dated October 22, 2014 has extended the MYT period of FY 2012-13 to FY 2014-15 for a further period of one year till FY 2015-16.

### Filing and Acceptance of Petition

- 1.9 NDMC has filed its petition before the Commission on 18.04.2016 for "Annual Revenue Requirement (ARR) for the FY 2016-17, Revised ARR for FY 2015-16, True up expenses for FY 2014-15 and final True Up for Control Period up to FY 2013-14"
- 1.10 Further, NDMC has filed its petition before the Commission on 29.05.2017 for "Annual Revenue Requirements (ARR) for FY 2017-18, revised ARR for FY 2016-17, True up of expenses for FY 2015-16 and Final True up for control period up to FY 2014-15".
- 1.11 The Commission admitted both the petitions vide its Orders dated 26.05.2017 and 07.06.2017 for True Up and Tariff Determination respectively subject to clarifications / additional information, if any, which would be sought from the Petitioner from time to time. A copy of the Admission Order is enclosed as **Annexure I** to this Order.

### Interaction with the Petitioner

- 1.12 The Order has referred at numerous places to various actions taken by the "Commission". It may be mentioned for the sake of clarity, that the term

“Commission” in most of the cases refers to the Officers of the Commission and the Staff Consultants appointed by the Commission for carrying out the due diligence on the petition filed by the Petitioner, obtaining and analyzing information/clarifications received from the Petitioner and submitting all issues for consideration by the Commission.

- 1.13 For this purpose, the Commission Officers and Staff Consultants held discussions with the Petitioner, obtained information/clarifications wherever required and carried out technical validation with regard to the information provided.
- 1.14 The Commission held public hearing on 19.07.2017 to take a final view with respect to various issues concerning the principles and guidelines for tariff determination. The Commission has considered due diligence conducted by the Officers of the Commission and the Staff Consultants in arriving at its final decision. The use of the term “Commission” may, therefore, be read in the context of the above clarification.
- 1.15 A preliminary scrutiny/analysis of the petition submitted by the Petitioner was conducted and certain deficiencies were observed. Accordingly, deficiency notes were issued to the Petitioner. Further, additional information/clarifications were solicited from the Petitioner as and when required. The Commission and the Petitioner also discussed key issues raised in the petition, which included details of capital expenditure and capitalisation plan, allocation of expenses into Wheeling and Retail Supply Business, AT&C loss reduction trajectory, liability towards SVRS expenditure, etc. The Petitioner submitted additional information through various letters, as listed in **Table 2**.
- 1.16 The Commission also conducted multiple validation sessions with the Petitioner during which discrepancies in the petition and additional information required by the Commission were sought. Subsequently, the Petitioner submitted replies to the issues raised in these sessions and provided documentary evidence to substantiate its claims regarding various submissions.
- 1.17 The replies of the Petitioner, as mentioned in the **Table2** as follows have been considered for approval of the ARR of the Petitioner:

**Table 2: List of Correspondence with the Petitioner**

Sl. No.	Letter No.	Letter Dated	Subject
1	D-1358/EE (Power)/17	31.03.2017	Statement of Loan, Power Procurement Plan & others

Sl. No.	Letter No.	Letter Dated	Subject
			as required by DERC.
2	D-1440/EE (Power)/17	18.07.2017	Reply of query of DERC during Prudence Check dated 04.07.2012 to 12.07.2017
3	D-1445/EE (Power)/17	25.07.2017	Reply of query of DERC during Prudence Check on dated 21.07.2017
4	F.9(183)/DERC/DS/2017-18/C.F.5747/604	19.06.2017	NDMC has not submitted the actual claim on account of GFA addition from FY 2005-06 to FY 2013-14 with scheme wise details on yearly basis till date with 1 week from date of receipt of this letter.
5	E. mail form DERC	04.07.2017	NDMC to Submit information / documents in the Commission for prudence check.
6	F.9(183)/DERC/DS/2017-18/C.F.5747/780	13.07.2017	NDMC to Submit to billing data base for verification of revenue billed as per form 2.1 (a) for prudence check.

### Public Notice

1.18 The Commission published a Public Notice in the following newspapers on 07.06.2017 inviting comments from stakeholders on the Tariff petitions filed by the Petitioners latest by 27.06.2017:

- |    |                          |            |
|----|--------------------------|------------|
| a) | Indian Express (English) | 07.06.2017 |
| b) | The Pioneer (English)    | 07.06.2017 |
| c) | Times of India (English) | 07.06.2017 |
| d) | Hindustan (Hindi)        | 07.06.2017 |
| e) | Dainik Jagaran (Hindi)   | 07.06.2017 |
| f) | Educator (Punjabi)       | 07.06.2017 |

1.19 Copies of the above Public Notices are available on Commissions website ([www.derc.gov.in](http://www.derc.gov.in)).

1.20 The Petitioner also published a Public Notice indicating salient features of its petition

for inviting comments from the stakeholders and requesting to submit response on the petition on or before 27.06.2017 in the following newspapers on the respective dates mentioned alongside:

- |                                  |            |
|----------------------------------|------------|
| a) The Hindustan Times (English) | 20.06.2017 |
| b) The Times of India (English)  | 20.06.2017 |
| c) Hindustan (Hindi)             | 20.06.2017 |
| d) Qaumi Patrika (Punjabi)       | 20.06.2017 |
| e) Pratap (Urdu)                 | 21.06.2017 |

1.21 Copies of the above Public Notices are available on Commissions website ([www.derc.gov.in](http://www.derc.gov.in)).

1.22 A copy of the petition was also made available for purchase from the head-office of the Petitioner on any working day between 11 A.M. and 4 P.M. on payment of Rs.100/- for hard copy of each petition either by cash or demand draft/pay order. A copy of the complete petition was also uploaded on the website of the Commission, as well as that of the Petitioner, requesting for comments of the stakeholders thereon.

1.23 At the request of the stakeholders, the Commission extended the last date for filing objections and suggestions up to 18.07.2017 for which the public notice was issued in the following newspapers on the respective dates mentioned along side:

- |                              |            |
|------------------------------|------------|
| a) Pioneer (English)         | 25.06.2017 |
| b) Hindustan Times (English) | 25.06.2017 |
| c) Mail Today (English)      | 25.06.2017 |
| d) Hindustan (Hindi)         | 25.06.2017 |
| e) Punjab Kesari (Hindi)     | 25.06.2017 |
| f) Rashtriya Sahara (Hindi)  | 25.06.2017 |

1.24 Copies of the above Public Notices are available on Commissions website ([www.derc.gov.in](http://www.derc.gov.in)).

1.25 In order to extend help to the stakeholders in understanding the ARR Petition and filing their comments, the Commission prepared a Executive Summary highlighting salient features of the Tariff Petition filed by the Petitioner, which was uploaded on



the Commission's website. In this regard, three officers of the Commission viz. Joint Director (Tariff-Finance) , Joint Director (Engineering) and Joint Director (PS&E) were nominated for discussion on the ARR Petitions. This was duly highlighted in the Public Notices published by the Commission.

1.26 Further, the Commission published a Public Notice indicating the venue, date and time of public hearing on 4<sup>th</sup> and 5<sup>th</sup> July, 2017 in the following newspapers on the respective dates mentioned alongside:

a) Pioneer (English)	25.06.2017
b) Hindustan Times (English)	25.06.2017
c) Mail Today (English)	25.06.2017
d) Hindustan (Hindi)	25.06.2017
e) Punjab Kesari (Hindi)	25.06.2017
f) Rashtriya Sahara (Hindi)	25.06.2017

1.27 Copies of the above Public Notices are available on Commissions website ([www.derc.gov.in](http://www.derc.gov.in)).

1.28 At the request of the stakeholders, the Commission extended the date of Public hearing from 04<sup>th</sup> and 05<sup>th</sup> of July 2017 to 19<sup>th</sup> of July 2017 .The public notice was issued in the following newspapers on the respective dates mentioned along side:

a) Pioneer (English)	02.07.2017
b) Hindustan Times (English)	02.07.2017
c) Mail Today (English)	02.07.2017
d) Indian Express (English)	02.07.2017
e) Hindustan (Hindi)	02.07.2017
f) Punjab Kesari (Hindi)	02.07.2017
g) Dainik Jagran (Hindi)	02.07.2017
h) Jadid in dinon (Urdu)	02.07.2017
i) The Jan Ekta (Punjabi)	02.07.2017

1.29 Copies of the above Public Notices are available on Commissions website ([www.derc.gov.in](http://www.derc.gov.in)).

1.30 The Commission received written comments from stakeholders. The comments of

the stakeholders were also forwarded to the Petitioner who, responded to the comments of the stakeholders with a copy of its replies to the Commission. The Commission invited all stakeholders, including those who had filed their objections and suggestions, to attend the Public Hearing. List of the stakeholders who submitted their comments on True-up of expense for FY 2014-15 & FY 2015-16 and approval of Aggregate Revenue Requirement & Tariff for FY 2017-18 is enclosed as **Annexure 2**.

- 1.31 The public hearings was held at the Auditorium of Scope Convention Centre, Scope Complex, New Delhi for all stakeholders on 19.07.2017 to discuss the issues related to the petition filed by the Petitioner. The issues and concerns voiced by various stakeholders have been examined by the Commission. The major issues discussed during the public hearing and/or written comments made by the stakeholders, the responses of the Petitioner thereon and the views of the Commission, have been summarized in Chapter A2 List of Stakeholders/consumers who attended the public hearing is enclosed as **Annexure 3**.

### Layout of the Order

- 1.32 This Order is organised into 5 Chapters:
- a) **Chapter A1** provides details of the tariff setting process and the approach of the Order.
  - b) **Chapter A3** provides details/analysis of the True up for FY 2014-15 & FY 2015-16.
  - c) **Chapter A4** provides analysis of the petition for determination of the Aggregate Revenue Requirement for FY 2017-18.
  - d) **Chapter A5** provides details of the possible options for determination of Wheeling and Retail Supply Tariff for all consumer categories for FY 2017-18, and the approach adopted by the Commission in its determination.
  - e) **Chapter A6** provides details of the Directives of the Commission.
- 1.33 The Order contains following Annexure, which are an integral part of the Tariff Order:
- a) **Annexure I** - Admission Order.
  - b) **Annexure II** - List of the stakeholders who submitted their comments on True-up of expense for FY 2014-15 & FY 2015-16 and approval of Aggregate Revenue Requirement & Tariff for FY 2017-18.
  - c) **Annexure III** – List of Stakeholders/consumers who attended the public hearing.

### Approach of the Order

Approach for FY 2014-15 and FY 2015-16

1.34 Under the MYT Framework, the Commission had projected the ARR of the Petitioner for FY 2014-15 and FY 2015-16 in the MYT Order issued on 13.07.2012 and Tariff Order issued on 29.09.2015. Under 'MYT Regulation, 2011', the components of ARR have been segregated into controllable and un-controllable parameters. As per the regulation 4.21 of the 'MYT Regulation, 2011', various controllable and un-controllable parameters shall be trued-up as per the principle stated as follows:

- a) Variation in revenue/expenditure on account of uncontrollable sales / power purchase respectively shall be trued-up every year;
- b) For controllable parameters,
  - i. Any surplus or deficit on account of Operation and Maintenance (O&M) expenses shall be to the account of the Licensee and shall not be trued-up in ARR; and
  - ii. Depreciation and Return on Capital Employed shall be trued-up every year based on the actual capital expenditure and actual capitalization vis-à-vis capital investment plan (capital expenditure and capitalisation) approved by the Commission.

Provided that any surplus or deficit in Working Capital shall be to the account of the Licensee and shall not be trued-up in ARR.

Provided further that the Commission shall not true-up interest rate, if variation in State Bank of India Base Rate as on 01.04.2012, is within +/- 1% during the Control Period. Any increase / decrease in State Bank of India Base Rate beyond +/- 1% only shall be trued-up.

1.35 The Commission has accordingly, trued up the uncontrollable parameters viz. power purchase cost, energy sales and revenue based on the audited accounts and other information submitted by the Petitioner for FY 2014-15 and FY 2015-16 after exercising prudence check. The true up of controllable parameters is governed by Regulation 4.21 of the 'MYT Regulation, 2011' as mentioned above. The detailed treatment of each component of uncontrollable and controllable parameters is provided in Chapter A3 of this Order.

**Approach for FY 2016-17**

- 1.36 The Petitioner has requested for a review of ARR for FY 2016-17. The mechanism for True up as specified in the MYT Regulations envisages that variations on account of uncontrollable items like energy sales and power purchase cost shall be trued up. Truing up shall be carried out for each year based on actual/audited accounts and prudence checks undertaken by the Commission. Accordingly, the Commission is of the opinion that in accordance with the 'MYT Regulation, 2011' the True up of FY 2016-17 can only be considered based on the audited financial statement once the Petitioner makes a regular tariff Petition for True up of FY 2016-17.

**Approach for FY 2017-18**

- 1.37 The Commission vide its notification dated January 31, 2017 issued the Delhi Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulations, 2017.
- 1.38 Further, the Commission has issued the Delhi Electricity Regulatory Commission Business Plan Regulations, 2017.
- 1.39 The ARR for the FY 2017-18 shall be determined inter alia based on the provisions of the Tariff Regulations 2017 read with Delhi Electricity Regulatory Commission Business Plan Regulations relevant to the Distribution business.
- 1.40 The allocation from the unallocated quota of Power at the disposal of GoNCTD may change from time to time and needs to be considered based on the latest available data or the Commission may have to make reasonable assumptions with respect to allocation of power from the unallocated quota.
- 1.41 Availability of power from the new sources of generation has been considered based on their actual / revised Commissioning schedule.
- 1.42 The Commission has evaluated the ARR submitted by the Petitioner on the basis of the provisions in Delhi Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulations, 2017 read with Delhi Electricity Regulatory Commission Business Plan Regulations, 2017 and other factors considered appropriate by the Commission.

**A2: RESPONSE FROM STAKEHOLDERS**

- 2.1 Summary of objections/suggestions from stakeholders, response of DISCOMs (Tata Power Delhi Distribution Limited (TPDDL), BSES Rajdhani Power Limited (BRPL), BSES Yamuna Power Limited (BYPL), New Delhi Municipal Council (NDMC) and Commission's Analysis.

**INTRODUCTION**

- 2.2 Section 64(3) of the Electricity Act, 2003, stipulates that the Commission shall determine tariff under Section 62 of the Electricity Act, 2003 for the distribution licensees, after consideration of all suggestions received from the public and the response of the DISCOMs to the objections/suggestions of stakeholders, issue a tariff order accepting the applications with such modifications or such conditions as may be specified in the order. Public hearing, being a platform to understand the problems and concerns of various stakeholders, the Commission has encouraged transparent and participative approach in hearings to obtain necessary inputs required for tariff determination. Accordingly public hearing was held on 19.07.2017 in Auditorium of SCOPE Convention Centre, SCOPE Complex, New Delhi with consumers to discuss the issues related to the petitions filed by the DISCOMs viz., Tata Power Delhi Distribution Limited, BSES Rajdhani Power Limited, BSES Yamuna Power Limited & New Delhi Municipal Council for true up of expenses for FY 2014-15 & FY 2015-16 and Annual Revenue Requirement (ARR) for FY 2017-18.
- 2.3 In the public hearing, the stakeholders offered their comments and suggestions before the Commission in the presence of the Petitioners.
- 2.4 The Commission has examined the issues taking into consideration the comments/suggestions offered by the various stakeholders in their written statements and during the public hearing and also the response of the Petitioners thereon.
- 2.5 The comments/suggestions of various stakeholders, the replies/response from the Petitioners and the views of the Commission thereon are summarized below under various subheads.

**ISSUE 1: PUBLIC HEARING AND OBJECTION PROCESS****STAKEHOLDER'S VIEW**

- 2.6 Commission must try to make public hearing and objection process more transparent and fruitful by creating awareness among consumers for participation in

the process.

2.7 Date and Venue for public hearing should be widely publicised.

2.8 Complete petition is not available on DISCOMs' and Commission's websites.

#### **PETITIONER'S SUBMISSION**

##### **TPDDL**

2.9 Salient Features of our Petition have been published by TPDDL through Public Notice in various newspapers.

2.10 Process of inviting comments is governed by the Rules, Regulations of the Hon'ble Commission. Suggestions, if any, are made to Hon'ble Commission accordingly.

##### **BYPL**

2.11 We appreciate the concern of the stakeholders regarding transparency and participation of consumers in the Tariff determination process. In this regard we humbly clarify that a notice regarding submission of comments and Public hearing on the Tariff Petitions filed by Licensees was published by the Hon'ble Commission in various newspapers. In order to extend help to the consumers in understanding the ARR Petition and filing their comments, Hon'ble Commission has also uploaded on its website executive summary of the Petitions filed by the Petitioners. Further, in compliance with the directions of the Hon'ble Commission, the Petitioner has published Public Notices on their respective Petitions in leading newspapers for ensuring wide circulation.

2.12 As regards the stakeholder's comment regarding uploading of ARR on the website by BYPL, we would like to respectfully submit that BYPL has duly uploaded its True up & ARR Petitions on its website for the convenience of all stakeholders.

##### **BRPL**

2.13 The observations and suggestions made by the esteemed stakeholder pertain to Hon'ble Commission's notice inviting public comments and seem to be directed towards the Hon'ble Commission. We sincerely trust that the same would be duly considered by the Hon'ble Commission.

2.14 The stakeholder may also note that the complete Petition is available on the Petitioner's website for free download. Alternately, any consumer may procure a hard copy of the Petition from the Petitioner's head office by making requisite

payment. Further, the stakeholder may contact the Hon'ble Commission personally in case any explanation is required concerning the ARR / True-up Petition.

2.15 It is submitted that the ARR Petitions are available on the BRPL's website at the URL [www.bsesdelhi.com/HTML/Regulatory.html](http://www.bsesdelhi.com/HTML/Regulatory.html).

2.16 The stakeholder may also procure a hard copy of the Petition from the petitioner's head office by making requisite payment.

### **COMMISSION'S VIEW**

2.17 The process of public hearing is conducted in a transparent manner and wide publicity has been given at various stages.

2.18 The Commission published a Public Notice in leading newspapers on 07.06.2017, as detailed on DERC website, inviting comments from stakeholders on the Tariff petitions filed by the Petitioners by 27.06.2017.

2.19 The Petitioners also published a Public Notice indicating salient features of its petition for inviting comments from the stakeholders and requesting to submit response on the petition on or before 27.06.2017 in leading newspapers as detailed on DERC website,.

2.20 At the request of the stakeholders, the Commission extended the last date for filing objections and suggestions up to 18.07.2017, for which the public notice was issued on 25.06.2017 in leading newspapers as detailed on DERC website.

2.21 The Commission also published a Public Notice indicating the venue, date and time of public hearing on 4th and 5th July, 2017 in leading newspapers on 25.06.2017, as detailed on DERC website.

2.22 At the request of the stakeholders, the Commission extended the date of Public hearing from 04th and 05th of July 2017 to 19th of July 2017. The public notice was issued in leading newspapers on 02.07.2017, as detailed on DERC website.

### **ISSUE 2: MYT REGULATION & BUSINESS PLAN**

#### **STAKEHOLDER'S VIEW**

2.23 Hard copy of MYT Regulation was not circulated among stakeholder. Many issues like RoE, Loss reduction program, depreciation etc are missing from MYT Regulation. Business Plan Regulation has not yet been finalized yet, it is improper to issue Tariff Order for FY 2017-21 without the finalization of Business Plan Regulation.

2.24 Collective wisdom of full Commission are not available as there are vacant seats of



Chairman and Member.

- 2.25 DERC should come out with tariff order by 31st March of every year, so that the consumers do not bear the carrying cost.
- 2.26 How consumers are benefited by reduction in years of MYT Regulation which is 3 years for current as compared to 5 years in last MYT Regulation order.
- 2.27 It is difficult for stakeholders to comment on Tariff & Business plan at the same time; it is requested to postpone the date to file comments by 6 weeks i.e. August 9, 2017.
- 2.28 Tariff Petition should be rejected as FY 2016-17 audit report is not signed by Majority of Directors.

### **PETITIONER'S SUBMISSION**

#### **TPDDL**

- 2.29 The Tariff Regulations have been notified and are available on the Hon'ble Commission's website.
- 2.30 Hon'ble Commission has already extended the last date for submission of comments by stakeholders for Draft Business Plan Regulations till 18th July 2017. Thus, the request by stakeholders for providing adequate opportunity for giving suggestions/comments has already been considered by the Hon'ble Commission.
- 2.31 Hon'ble Commission is obligated to perform and discharge certain functions mandated under the Electricity Act 2003, including tariff determination in a time bound manner. The ARR finalization cannot be left as an open ended exercise, which is in violation of the aforesaid functions of Hon'ble Commission. TPDDL strongly objects to the said request/comment.
- 2.32 Any delay in issuance of tariff order would adversely impact the overall growth of power sector. Therefore, Tariff Order should be released within given time frame as prescribed in the Regulations.
- 2.33 MYT control period of 3 years is more appropriate as the components of ARR undergo through various changes. The various factors impacting ARR like statutory increases, inflation, variation in power purchase cost, sale of power etc. can be conveniently mapped and factored after the 3 year control period. If the said period is considered to be longer to include more years, the same may lead to unrealistic projections and deviations. The 3 year period is in line with provisions of NTP etc. and thus, may be retained.

**BYPL**

- 2.34 As regards the circulation of hard copy of final Tariff Regulations notified by the Hon'ble Commission, we would like to submit that the Regulations were duly uploaded on the website of the Hon'ble Commission as circulation of hard copy to every stakeholder would not be possible. Moreover, it supports digital India initiative.
- 2.35 In terms of 4 of DERC (Terms and Conditions for Determination of Tariff Regulation, 2017), the following parameters shall be contained in the Business Plan Regulation:
- (1) Rate of Return on Equity,
  - (2) Margin for rate of interest on Loan,
  - (3) Operation and Maintenance Expenses,
  - (4) Capital Investment Plan,
  - (5) Mechanism for sharing of incentive-disincentive mechanism,
  - (6) Allocation of overhead expenses incurred on account of Administrative Expenditure for Operation and Maintenance Expenses and for creation of Capital asset,
  - (7) Generating Norms:
  - (8) Transmission Norms:
  - (9) Distribution norms:
    - (a) Distribution Loss Target;
    - (b) Collection Efficiency Target;
    - (c) Targets for Solar and Non Solar RPO;
    - (d) Contingency limit for Sale through Deviation Settlement Mechanism (Unscheduled Interchange) transactions
    - (e) The ratio of various ARR components for segregation of ARR into Retail supply and wheeling business.
- 2.36 Accordingly, the Hon'ble Commission has issued the Draft Business Plan Regulations and invited comments from all stakeholders before finalisation.
- 2.37 Stakeholder has view that Commission is in depleted state with 67% vacancy of chairman and Members. With respect to the same we would like to contend that some of the Electricity Commission has single Member Commission. However fulfilment of vacancies is the sole prerogative of the Commission.
- 2.38 An explanatory Memorandum is also issued by the Hon'ble Commission which contains reasoning and justification of each and every issue of Draft Business Plan on

which comments can be given. Hence, there is neither misuse of any power by Hon'ble Commission nor the exercise of circulating the Draft Business Plan Regulation is eye wash.

- 2.39 Hon'ble Commission in the Draft Business Plan regulations has defined the control period of 3 years. The Petitioner in its comments to the draft Regulations has also requested for revising the Control period to 5 years in view of the fact that the Hon'ble Commission's own Tariff Regulations 2017 contemplate that the utility shall have a "business plan" for the next five years. We hope that the Hon'ble Commission will consider the stakeholder's comment while finalizing Business Plan Regulations.

#### **BRPL**

- 2.40 As regards the issue of MYT Regulation, we would like to say that the same pertains to the Hon'ble Commission and the licensee would not be in a position to comment on the same.
- 2.41 As regards the 67% vacancy in the Hon'ble Commission is concerned, it is submitted that Section 82 of the Electricity Act, 2003 provides that the Chairperson and the Members of the Hon'ble Commission shall be appointed by the State Government on the recommendation of a Selection Committee. The licensee has no role to play in the appointment and therefore would not be in a position to comment on the issue.
- 2.42 As regards the comments on the Business Plan Regulations are concerned, we expect that the Hon'ble Commission will give due consideration to the comments.

#### **COMMISSION'S VIEW**

- 2.43 The Tariff Regulations notified by the Hon'ble Commission were duly uploaded on the website of the Commission. Circulation of hard copy to every stakeholder may not be desirable in view of digital India initiative.
- 2.44 The principles for determination of tariff have been finalized in Tariff Regulations. The draft Business Plan Regulations have been circulated inviting the stakeholder's comments. Comments received from the stakeholders on the operational norms indicated in draft Business Plan Regulations are considered in the final Business Plan Regulations approved by the Commission before issuance of the Tariff Order.
- 2.45 As per the judgement of Hon'ble APTEL dated 02.12.2013 in the matter of OP 1 of 2011, it is a settled law that a Commission may function even with a single member.

The observations of Hon'ble APTEL are:

“9. In view of the above decision, we are to direct all the Commissions to conduct the proceedings irrespective of the quorum since the proceedings before the Commission could be conducted even by a single Member.”

“12. Therefore, we direct that all the Commissions concerned irrespective of the Regulations with regard to the quorum for a meeting, that Commission, even with a single Member despite that there are vacancies of other Members or Chairperson, can continue to hold the proceedings and pass the orders in accordance with the law.”

- 2.46 The last MYT Regulations, 2011 were also valid for three years (FY 2012-13 to FY 2014-15), and its applicability was only extended subsequently.
- 2.47 The Commission has already extended the last date for submission of comments by stakeholders for Draft Business Plan Regulations and the Tariff Petitions till 18th July 2017 in consideration for providing adequate opportunity for giving suggestions/ comments.

### **ISSUE 3: RENEWABLE PURCHASE OBLIGATION**

#### **STAKEHOLDERS' VIEW:**

- 2.48 DISCOMs may provide the status of current RPO.
- 2.49 DISCOMs must submit the half yearly report on the RPO target and achievement to Commission.
- 2.50 Either the inefficient and costly power plants must be closed or RPO obligation must be removed so that power purchase cost does not go up as DISCOMs have sufficient long term PPA's. DISCOMs should promote net metering over REC purchase as it will reduce financial burden of DISCOMs.
- 2.51 It is requested to Commission to reconsider RPO targets with respect to cost to DISCOMs, in consumer interest.
- 2.52 Rooftop Solar should be promoted which will reduce power purchase cost. Commission should consider rooftop solar as a part of DISCOMs RPO.
- 2.53 Solar power should be made compulsory for Govt. offices and E-rickshaw. Banks should provide loan at low rates for solar project.

**PETITIONER'S SUBMISSION****TPDDL**

- 2.54 TPDDL has tied up 20MW of solar power from SECI, 60 MW of Small Hydro Power and 13 MW of Waste to Energy from Timarpur Okhla & Bawana Plant. In addition, TPDDL plans to harness 400 MW of solar rooftop under net metering through consumer rooftop in future years.
- 2.55 Targets are fixed by the Hon'ble Commission on yearly basis. The same precedent has been followed since notification of the RPO targets through separate Regulations in Oct 2012.
- 2.56 TPDDL is in agreement that its expensive power plants need to be reallocated and is pursuing the same at various forums i.e. both State and Central level. In addition, TPDDL has also requested Hon'ble DERC to reconsider the steep RPO trajectory considering the power surplus situation of Delhi and the availability of renewable resources.
- 2.57 TPDDL is in agreement of the same and has requested Hon'ble DERC to defer the steep RPO trajectory to future years allowing consumers of Delhi sufficient time to become Consumers of green power by installation of Solar Rooftops.
- 2.58 TPDDL has proactively engaged with RWAs and IWAs to create awareness on solar energy and implementation of solar rooftops. TPDDL is consistently pursuing the same with consumers to harness solar power through rooftop generation.

**BYPL**

- 2.59 We would like to respectfully submit that in terms of DERC (Terms and Conditions for Determination of Tariff) Regulation, 2017 the RPO targets for Solar and Non Solar RPO has been defined in the Draft Business Plan Regulations for the Control Period. Further the targets are given on the percentage of total sales to retail consumers in its area of supply excluding procurement of hydro power for the financial year.
- 2.60 BYPL is encouraging its customers for installing roof-top solar under the Net metering Regulations of the Hon'ble Commission. In FY 14-15 BYPL had only Net Metering consumers of 20 KW under net metering Regulations which has now increased to 63 numbers contributing approx. 3.2 MW. BYPL has also long term

contract in place for purchase of Solar and Non-solar energy.

- 2.61 We appreciate the concern of the stakeholder regarding implementation of roof top solar, we would like to submit that BYPL is encouraging its customers for installing roof-top solar under the Net metering Regulations of the Hon'ble commission. BYPL also has long term contract in place for purchase of Solar and Non-solar energy.
- 2.62 As regard of stakeholder's comment of 17% RPO target we would like to submit that Hon'ble commission has approved the RPO targets in Draft Business Plan Regulation, 2017 which are as under:

"The targets for Renewable Purchase Obligation (RPO) in terms of the Regulation 124 of the DERC (Terms and Conditions for Determination of Tariff) Regulations, 2017 for the distribution Licensee from FY 2017-18 to FY 2019-20 of the Distribution Licensees shall be computed as a percentage of total sales to retail consumers in its area of supply excluding procurement of hydro power" as follows:

**Table 3: RPO Target as submitted by DISCOM**

Sr. No.	Distribution Licensee	2017-18	2018-19	2019-20
1	Solar Target (Minimum)	2.75%	4.75%	6.75%
2	Total	11.50%	14.25%	17.00%

- 2.63 However in view of the fact that there are very few Renewable sources available in Delhi for fulfilling the RPO and purchase of REC would be unnecessary burden on the part of Consumers of the Petitioner, BYPL has filed a petition before DERC for waiver/deferment of RPO targets for FY 12-13 to FY 16-17 and a separate petition filed for waiver/deferment of RPO targets of FY 16-17.
- 2.64 We appreciate concern on Renewable Purchase Obligations for Delhi DISCOMs. The Renewable resources are limited in Delhi so the DISCOM is bound to buy REC (Renewable Energy Certificates) to fulfil RPO obligations.
- 2.65 We would like to mention that BYPL was first among the DISCOMs in Delhi to have successfully installed solar net metering. Further, way before the net metering Regulations were in place and Delhi Government notification of Solar Policy, BYPL have installed roof top solar in many of its Grids.

#### **BRPL**

- 2.66 As regards submission of half yearly reports to the Commission is concerned, the licensee is already in compliance of the same.

- 2.67 As regards purchase of renewable energy it is pertinent to highlight that the Hon'ble Commission has already specified obligations to purchase renewable energy on a year-to-year basis. Accordingly, BRPL has been procuring renewable power to the extent possible. However, it may also be noted that availability of renewable power in Delhi has not been sufficient to meet the complete demand, a fact that has been highlighted before the Hon'ble Commission. Notwithstanding, BRPL continues to procure renewable power to the extent possible. During FY 2016-17, BRPL managed to procure 118 MU from renewable sources at an average tariff of Rs.3.76/unit. In addition, BRPL has also procured REC of 333 MU at a cost of Rs.1.5/unit to fulfil part of its RPO obligations
- 2.68 The stakeholder's concern for renewable power obligation on DISCOMs vis-à-vis surplus power is appreciated. It would only be relevant to mention here that the licensee has time and again sought for relaxation from the Hon'ble DERC in the RPO targets. The licensee has also given several representations before the DERC regarding RPO targets from time to time. The licensee's Petition 30 and 31 of 2015 is also pending adjudication before the Hon'ble DERC

#### COMMISSION'S VIEW

- 2.69 Electricity Act, 2003 entrusts on the appropriate Commission the responsibility for promotion of co-generation and generation based on renewable energy sources. The policy framework of the Government of India also stresses on the encouragement of renewable energy sources keeping in view the need for energy security and reducing carbon footprint.
- 2.70 Section 86 (1) (e) of the Electricity Act 2003 states:  
*"The State Commission shall discharge the following functions:*  
*Promote co-generation and generation of electricity from renewable sources of energy by providing suitable measures for connectivity with the grid and sale of electricity to any person, and also specify, for purchase of electricity from such sources, a percentage of the total consumption of electricity in the area of a distribution licensee"*
- 2.71 The Commission in pursuance of the same has mandated the renewable purchase obligation to be met through purchase of energy from renewable energy sources/renewable energy certificate to ensure that RPOs are met in the most



optimum manner.

- 2.72 The Commission has issued DERC (Renewable Purchase Obligation and Renewable Energy Certificate Framework Implementation) Regulations, 2012 and DERC (Business Plan Regulations) 2017. As per these Regulations, every obligated entity is required to fulfil a defined minimum percentage of the total quantum/consumption from eligible renewable energy sources at the percentages as per the following schedule:-

**Table 4: RPO approved by the Commission**

Year	Solar	Total
2012-13	0.15%	3.40%
2013-14	0.20%	4.80%
2014-15	0.25%	6.20%
2015-16	0.30%	7.60%
2016-17	0.35%	9.00%
2017-18	4.75%	14.25%
2018-19	6.75%	17.00%
2019-20	8.75%	19.75%

- 2.73 The Commission has already notified the Delhi Electricity Regulatory Commission (Net Metering for Renewable Energy) Regulations, 2014 and the provision has been specified that the quantum of electricity generated under these Regulations shall qualify towards compliance of Renewable Purchase Obligation (RPO) for the distribution licensee if Renewable Energy Generator is not an obligated entity.
- 2.74 The Commission is of the view that generation of electricity from renewable sources of energy should be promoted and hence non-compliance shall attract penal action as per provisions of the Regulations. Further, the penalty imposed by the Commission on the obligated entity has to be used for serving the best interest of the consumers, and cannot be allowed as a pass through in the Aggregate Revenue Requirement (ARR), in case the obligated entity is a Distribution Licensee.

#### **ISSUE 4: TARIFF FOR DMRC**

##### **STAKEHOLDER'S VIEW:**

- 2.75 NDMC proposed to increase the tariff for DMRC i.e. fixed charges from Rs. 125/KVA to Rs. 154/KVA (23.2% increase) and energy charges from Rs. 6.10/KVAh to Rs. 7.53/KVAh (23.4% increase).

- 2.76 There is an effective increase of almost 189% in last 5 years (i.e., from Rs. 2.50 to Rs.7.23 per unit). This has resulted in increase in working expenses of DMRC by 1095% (i.e. from Rs. 44 Crore in 2007-08 to Rs. 526 Crore in 2015-16), whereas increase in energy consumption is only 268% (20 Crore units in 2007-08 to 73.5 Crore units in 2015-16). DMRC will not be in a position to sustain any additional increase in tariff without passing it on to the consumer.
- 2.77 Distribution losses as provided in DISCOMs ARR Petitions for FY 2017-18 at 66 kV level are in range from 0-1% only. The purchase cost at 66 KV without considering distribution losses of lower voltage will be much lower than Rs. 5.31/unit for BRPL, Rs. 4.76/unit for BYPL, Rs. 4.49/unit for NDMC & Rs. 6.47/unit for TPDDL. Since DMRC takes power at 220kV/66KV and does not contribute to distribution losses, separate power purchase costs may be given by DISCOMs at various voltage levels (i.e. 220KV 66KV and L.T. level) after taking into consideration losses at corresponding voltage levels along with power purchase cost at each of the above voltage levels, clearly accounting for the losses for respective voltage levels.
- 2.78 As per agreed principle in November 2002, there is no provision of fixed charges. Hence, fixed charges are not applicable to DMRC and withdrawal of the same may be considered by DERC.
- 2.79 DMRC may be exempted from payment of Revenue Deficit surcharge (8% Surcharge).
- 2.80 DMRC has deposited security deposit of Rs 7,31,25,000 to BRPL, Rs 3,18,75,000 to BYPL, Rs 4,46,25,000 to TDPPL & Rs 1,20,00,000 to NDMC. The Commission vide Tariff order for FY 2015-16 has allowed security deposit in the form of Bank Guarantee. But the DISCOMs have not agreed for refund of existing security deposit as they state that the order of the Commission w.r.t to the Bank Guarantee does not apply to the earlier existing contracts, clarification in this regard needs to be issued.
- 2.81 No Cross-subsidy surcharges are levied on DMRC for energy supplied by DISCOMs as well as for renewable energy procured through Open Access
- 2.82 DMRC requested to get exempted from ToD metering and should incentivize DMRC by way of reduce tariff in peak load conditions.
- 2.83 While availing power through open access, during feed extension, which is a force majeure condition, the scheduled demand of the failed sources should be added to the scheduled demand of the alternate sources so that the energy drawn upto sum

of the scheduled demand from DISCOMs through open access is charged at the open access rate. No fixed charges should be levied.

#### **PETITIONER'S SUBMISSION**

##### **TPDDL**

2.84 No Response.

##### **BYPL**

2.85 In this regard, we would like to bring to your kind notice the Regulation 16 Para vi of the "Delhi Electricity Supply Code and Performance Standards Regulations, 2007" which states as under:

"16 ..... vi) The amount of security deposit shall be as per the Regulation 29 or as approved by the Commission from time to time. The Licensee shall pay interest to the consumer at the rate of 6% per annum, or any other rate prescribed by the Commission payable annually on such deposit w.e.f. date of such deposit in cases of new connection energized after the date of this notification or in other cases, from the date of notification of these regulations. The interest accrued during the year shall be adjusted in the bill for the first billing cycle of the ensuing financial year."

2.86 Therefore it is to mention that Security Deposit amount is being levied as per the Regulations prescribed by the Commission

##### **BRPL**

2.87 No Response.

#### **COMMISSION'S VIEW**

2.88 The DMRC has already been considered as a special tariff category in the tariff orders issued by the Commission year on year. The issue of drawing power at higher voltage and rebate thereon has been inbuilt in the Tariff design and addressed appropriately in the Tariff Order.

2.89 The Commission is of the view that any increase in tariff for DMRC is on account of increase in power purchase cost and other components forming part of the ARR of the distribution licensees.

2.90 The Commission has already directed to the petitioner for energy audit to determine the voltage wise loss in the network of the petitioner.

- 2.91 The Tariff determined by the Commission in respective tariff order was also fixed by considering all the factors discussed above.
- 2.92 The Commission in its Delhi Electricity Regulatory Commission (Supply Code and Performance Standards) Regulation 2017 has made the provisions for providing bank guarantee in lieu of security deposit already deposited for the existing connections. The existing security deposit shall be refunded in twelve installments in the bills.

**ISSUE 5: ENERGY AUDIT****STAKEHOLDER'S VIEW**

- 2.93 There should be proper Energy Audit to get the accurate details of power consumption of each consumer category.

**PETITIONER'S SUBMISSION****TPDDL**

- 2.94 No Response

**BYPL**

- 2.95 In this regard we would like to inform that in BYPL area consumer indexing related to distribution transformer has been done. Besides the above, area wise losses in the high loss areas in each division are uploaded bimonthly on the website ([www.bsesselhi.com](http://www.bsesselhi.com)) of the Petitioner which can be perused. Further, Commission has recently initiated process for "Appointment of Consultant For Energy Audit of the Networks of Discoms in NCT of Delhi".

**BRPL**

- 2.96 For the purpose of energy audit the first step is to install meter on all EHV/ HV feeders and distribution transformers. Another activity is Geographic Information System (GIS) mapping of all network assets. EHV level data for all the circles in its area of operations are uploaded on the GIS server network and integration with SAP is completed, also updated Single Line Diagram for all grids stations attached and accessed through GIS. On HT side, data for all 33 divisions uploaded on GIS server and its integration with SAP is also completed. First stage of consumer indexing related to critical transformer is already over. As a next step Consumer indexing with distribution transformer has also been taken up and is in progress. Besides the

above, area wise losses in the high loss areas in each division are uploaded bimonthly on the website ([www.bsedelhi.com](http://www.bsedelhi.com)) of the Petitioner which can be perused.

- 2.97 It is trusted that your valued suggestions for extending energy audit to other agencies/ establishments consuming bulk power will be suitably considered by the Commission.

#### **COMMISSION'S VIEW**

- 2.98 The Commission has directed the DISCOMs to conduct the energy audit regularly and display the losses on its website.
- 2.99 The Commission is also of the view that wastage of electricity should be avoided. The Commission has been issuing the public awareness bulletins from time to time for use of energy efficient equipment/lighting.
- 2.100 The Commission is also in the process of appointment of consultant for energy audit of the networks of DISCOMs, for third party assessment of the actual technical & distribution losses of the Distribution licensee.

**A3: TRUE UP OF FY 2014-15 and FY 2015-16****Background**

- 3.1 The Commission had approved the Aggregate Revenue Requirement (ARR) of the Petitioner i.e., New Delhi Municipal Council (NDMC) for FY 2014-15 in its Multi Year Tariff Order dated 13.07.2012 (hereinafter referred as 'MYT Regulation, 2011') and for FY 2015-16 in its Tariff Order dated 29.09.2015. Delhi Electricity Regulatory Commission (Terms and Conditions for Determination of Wheeling Tariff and Retail Supply Tariff) Regulations, 2011 were extended for further one year of FY 2015-16 vide order dated 22.10.2014, which provide for truing up of controllable and uncontrollable parameters at the end of each year of the control period based on the audited figures & prudence check by the Commission.
- 3.2 In this Chapter, the Commission has analyzed the Petition of NDMC in accordance with the principles laid down under the Policy Direction Period guidelines, Delhi Electricity Regulatory Commission (Terms and Conditions for Determination of Wheeling Tariff and Retail Supply Tariff) Regulations, 2007, Delhi Electricity Regulatory Commission (Terms and Conditions for Determination of Wheeling Tariff and Retail Supply Tariff) Regulations, 2011.

**Energy Sales****Petitioner's Submission**

- 3.3 The Petitioner has submitted that the actual sales during FY 2014-15 & FY 2015-16 as 1312.60 MU and 1302.13 MU, respectively as against 1337.14 MU and 1366.19 MU estimated by the Hon'ble Commission in its Tariff Order dated 23.07.2014 and 29.09.2015 respectively.
- 3.4 The Petitioner has further submitted that the energy sales in FY 2015-16 have primarily declined owing to demolition of old Central Government residential colonies, which are currently under reconstruction, and the energy efficiency measures taken by the Petitioner in its area.
- 3.5 Accordingly, NDMC has submitted the category-wise sales data for FY 2014-15 and for FY 2015-16 as below:

**Table 5: Category-wise energy sales during FY 2014-15 & FY 2015-16 (MU)**

Sr. No.	Category	Approved in TO 23 July, 2014	Actual FY 2014-15	Approved in TO Sep 29, 2015	Actual FY 2015-16
1	Domestic	265.43	251.54	259.50	247.09
2	Non Domestic	1025.67	1004.84	1045.91	996.67
	(I) NDLT	246.54	247.36	256.03	247.63
	(II) Mixed Load	779.13	757.48	789.88	749.04
3	Small Industrial Power	0.21	0.05	0.21	0.05
4	Public Lighting	8.32	8.08	8.08	7.71
5	Others	9.75	9.07	19.49	10.92
6	DMRC	18.00	29.84	33.00	39.67
7	Temporary	9.77	9.19		
<b>Total</b>		<b>1337.15</b>	<b>1312.60</b>	<b>1366.19</b>	<b>1302.13</b>

**Commission's Analysis**

- 3.6 The Commission has analyzed category-wise monthly sales data submitted by the Petitioner for each month of FY 2014-15 and FY 2015-16.
- 3.7 The Commission noted that Form 2.1 (a) for FY 2014-15 and FY 2015-16 received along with petition was audited by internal Auditor of the NDMC and no other information was made available by the Petitioner to the Commission.
- 3.8 The Commission conducted the prudence check and the Commission vide email dated 07.04.2017 & letter dated 13.07.2017 had asked to submit the Annual 2.1(a) form linked with monthly audited 2.1(a) form data & soft copy of billing database for verification of revenue billed as per Form 2.1(a) respectively for prudence check failing which the Commission shall not consider revenue gap/ surplus for the True-up of FY 2014-15 and 2015-16 and any subsequent claim on account of carrying cost in this regard shall be considered from the date of submission of data only. However, the Petitioner did not submit the required information.
- 3.9 The trued up category wise energy sales and the revenue collected for FY 2014-15 and FY 2015-16 as approved by the Commission are indicated in the table as follows:



Table 6: Trued Up Energy Sales for FY 2014-15 &amp; FY 2015-16 (MU)

Sr. No	Category	FY 2014-15			FY 2015-16		
		Approved in TO 23.07.2014	Petitioner's Submission	Now Approved	Approved in TO 29.09.2015	Petitioner's Submission	Now Approved
A	Domestic	265.43	251.54	251.54	259.50	247.09	247.09
B	Non-Domestic	1025.67	1004.84	1004.84	1045.91	996.67	996.67
i	NDLT	246.54	247.36	247.36	256.03	247.63	247.63
ii	Mixed Load	779.13	757.48	757.48	789.88	749.04	749.04
C	Small Industrial Power	0.21	0.05	0.05	0.21	0.05	0.05
D	Public Lighting	8.32	8.08	8.08	8.08	7.71	7.71
E	Others	9.75	9.07	9.07	19.49	10.92	10.92
F	DMRC	18.00	29.84	29.84	33.00	39.67	39.67
G	Temporary Supply	9.77	9.19	9.19			
H	<b>Total</b>	<b>1337.14</b>	<b>1312.60</b>	<b>1312.60</b>	<b>1366.19</b>	<b>1302.13</b>	<b>1302.13</b>

**AT&C Loss****Petitioner's Submission**

3.10 The Petitioner has submitted AT&C loss of 12.26% and 11.76% for the FY 2014-15 and FY 2015-16 as against the approved AT&C loss for the respective years as provided below:

Table 7: AT&amp;C Loss for FY 2014-15 &amp; FY 2015-16

Sr. No	Particulars	FY 2014-15		FY 2015-16	
		Approved	Actual	Approved	Actual
A	AT&C Loss	9.85%	12.26%	9.60%	11.76%
B	Distribution Loss	9.85%	9.62%	9.60%	10.09%
C	Collection efficiency	100%	97.08%	100%	98.14%

- 3.11 The Petitioner has submitted total energy of 1452.33 MU received for the consumption during the FY 2014-15 and 1448.18 MU during the FY 2015-16 at the Petitioner's periphery.
- 3.12 Further, the collection efficiency claimed by the Petitioner based on the actual revenue billed and collected for FY 2014-15 and FY 2015-16 is as below:

**Table 8: Computation of AT&C Loss for FY 2014-15 & FY 2015-16**

Sr.No.	Particulars	UOM	FY 2014-15	FY 2015-16
A	Revenue Billed (incl. surcharge and net of e-tax)	Rs. Crores	1070.11	1,153.64
B	Revenue Realised (net of e-tax)	Rs. Crores	1038.84	1,132.15
C	Collection Efficiency	%	97.08%	98.14%

- 3.13 The revenue billed as submitted by the Petitioner for FY 2014-15 is Rs. 1070.11 Crore and for FY 2015-16 is Rs. 1153.64 Crore. The revenue collection as submitted by the Petitioner for FY 2014-15 is Rs. 1038.84 Crore and for FY 2015-16 is Rs. 1132.15 Crore.
- 3.14 The computation of AT&C loss level for FY 2014-15 and FY 2016-17 as submitted by the Petitioner is summarised below:

**Table 9: Computation of AT&C Loss for FY 2014-15 & FY 2015-16**

Sr.No.	Particulars	UoM	FY 2014-15	FY 2015-16
A	Energy Input	MU	1452.33	1448.18
B	Energy Billed	MU	1312.60	1302.13
C	Amount Billed	Rs.Cr	1070.11	1153.64
D	Average Billing Rate	Rs. kWh	8.15	8.86
E	Distribution Loss	%	9.62%	10.09%
F	Amount Collected	Rs.Cr	1038.84	1132.15
G	Collection Efficiency	%	97.08%	98.14%
H	Units Realized	MU	1274.25	1277.87
I	AT&C Loss Level	%	<b>12.26%</b>	<b>11.76%</b>

**Commission's Analysis**

- 3.15 The Commission had fixed AT&C loss reduction target for NDMC at 9.85% and 9.60% for FY 2014-15 and FY 2015-16 respectively.
- 3.16 The Commission in order to verify the energy input for computation of AT&C Loss directed State Load Dispatch Centre (SLDC) vide its letter dtd. 01.05.2017 to submit

the energy input for the Petitioner during FY 2014-15 and FY 2015-16. SLDC vide its email dtd. 24.07.2017 has submitted that out of 1532.24 MU energy input to NDMC, 107.79 MU have been booked to NDMC instead of BRPL due to non-accounting of 33kV Bhikaji Cama Place feeder of BRPL which needs to be adjusted accordingly for FY 2015-16 as the energy input of the Petitioner's periphery. Therefore the Commission has considered energy input for FY 2014-15 as 1436.66 MU and 1424.45 MU (1532.24 – 107.79) for FY 2015-16 at the Petitioner's periphery based upon data provided by SLDC.

- 3.17 The Commission noted that the Petitioner has submitted month-wise sales, revenue billed data in Form 2.1 (a) as per which the revenue billed is at Rs. 1117.43 Crore for FY 2014-15 including Electricity Duty of Rs.47.32 Crore and Rs. 1202.77 Crore for FY 2015-16 including Electricity Duty of Rs. 49.13 Crore. Therefore the Petitioner has submitted that the revenue billed is approved at Rs. 1070.11 Crore for FY 2014-15 and Rs. 1153.64 Crore for FY 2015-16 after deduction of Electricity Duty and other adjustments.
- 3.18 The Commission vide PPAC Order dated 12.06.2015, had approved PPAC of 5% for the Petitioner for a period of 9 months i.e. 15.06.2015 till 15.03.2016. During the prudence check, it was observed that the 5% PPAC was to be applied on fixed & variable charges i.e. on Rs. 854.26 Crore. The Petitioner has collected Rs. 37.49 Crores on account of PPAC charges instead of Rs. 42.71 Crore. Therefore, Rs. 5.23 Crore has been added to the revenue billed on account of shortfall in collection of PPAC charges for the said period and the Revenue billed (Exclusive of Electricity Duty) is considered as Rs. 1158.87 Crore.
- 3.19 The Commission vide email dated 04.07.2017 had asked the Petitioner to explain for increase in AT&C losses & distribution losses and decrease in collection efficiency. The Commission has also asked to submit actual data of own consumption in MU along with supporting documents. The Petitioner vide letter dated 18.07.2017 has submitted that higher AT&C losses were primarily due to reduction in collection efficiency as some of the government departments did not pay their electricity bills raised in the month of Feb/ March 2016 due to lack of budget provisions etc.
- 3.20 Accordingly, the revised AT&C losses of the Petitioner for FY 2014-15 & FY 2015-16 as approved by the Commission is summarized as follows:

**Table 10: Trued up AT&C losses approved by the Commission**

Sr. No.	Particular	Unit	FY 2014-15	FY 2015-16	Reference
A	Energy input at NDMC periphery	MU	1436.66	1424.45	Para 3.16
B	Units billed	MU	1312.60	1302.13	Table-6
C	Revenue Billed (excluding Electricity Duty)	Rs. Crore	1070.11	1158.87	Para 3.17/ 3.18
D	Average billing rate	Rs./unit	8.15	8.90	$D=C/B*10$
E	Distribution Loss	MU	124.06	122.34	$E= A-B$
F	Distribution Loss	%	8.64%	8.59%	$F=E*100/A$
G	Revenue Realized (excluding Electricity Duty and other charges)	Rs. Crore	1038.84	1132.15	Table-8
H	Collection Efficiency	%	97.08%	97.69%	$H=(G/C)*100$
I	Units Realized	MU	1274.24	1272.09	$I=B*H$
J	AT&C Losses	%	11.31%	10.70%	$J=\{ 1-(I/A)\}*100$

3.21 The AT&C loss level of 11.31% achieved for FY 2014-15 and 10.70% achieved for FY 2015-16 is higher than the target AT&C loss level of 9.85% (FY 2014-15) and 9.60% (FY 2015-16) for the Petitioner as specified in the respective Tariff Orders. As per Regulation 4.8 of the MYT Regulations, 2011,

*“The Distribution Licensee will be eligible for incentive by the way of higher rate of Return on Equity (to be considered while calculating RoCE) as shown below for achieving lower AT&C loss level than specified in the loss reduction trajectory:*

$$\text{Additional Return on Equity (\%)} = (X_i - Y_i) / X_{i-1} - X_i$$

Where,  $X_i$  = Target AT&C loss level for  $i^{\text{th}}$  year,

$X_{i-1}$  = Target AT&C loss level for  $(i-1)^{\text{th}}$  year

$Y_i$  = Actual AT&C Loss level for  $i^{\text{th}}$  year

Provided that any financial loss on account of underperformance with respect to AT&C loss targets shall be to the Licensee's account.”

3.22 Therefore, Distribution loss, AT&C loss and Collection efficiency calculated by the Commission while truing up for FY 2014-15 are as follows:

**Table 11: AT&C loss for FY 2014-15 approved by the Commission**

Sr. No.	Particulars	Approved in the Tariff Order dated 23.07.2014	Petitioner's submission	Now Approved
A	AT&C Loss	9.85%	12.26%	11.31%

Sr. No.	Particulars	Approved in the Tariff Order dated 23.07.2014	Petitioner's submission	Now Approved
B	Distribution Loss	9.85%	9.62%	8.64%
C	Collection Efficiency	100%	97.08%	97.08%

**Table 12: AT&C loss for FY 2015-16 approved by the Commission**

Sr. No.	Particulars	Approved in the Tariff Order dated 29.09.2015	Petitioner's submission	Now Approved
A	AT&C Loss	9.60%	11.76%	10.70%
B	Distribution Loss	9.60%	10.09%	8.59%
C	Collection Efficiency	100%	98.14%	97.69%

**Table 13: Computation of penalty due to Under Achievement in AT&C loss targets for FY 2014-15**

Sr. No.	Particulars	Unit	As per AT&C loss approved for FY 2014-15 in MYT Order	Now Approved	Reference
A	AT&C Loss	%	9.85%	11.31%	Table - 11
B	Under achievement (A-B)	%		1.46%	
C	Energy Input	MU	1436.66	1436.66	Table - 10
D	Units realised	MU	1,295.15	1274.24	Table - 10
E	Average Billing Rate	Rs/Unit	8.15	8.15	Table - 10
F	Amount realised	Rs. Crore	1055.88	1038.84	Table -10
G	Financial impact on account of under achievement which has to be borne by the Petitioner	Rs. Crore	(17.04)		Now approved value – MYT Order value
H	Total revenue available towards ARR for FY 2014-15 (Excluding Electricity Tax & 8% Surcharge)	Rs. Crore	1055.88		

**Table 14: Computation of penalty due to Under Achievement in AT&C loss targets for FY 2015-16**

Sr. No.	Particulars	Unit	As per AT&C loss approved for FY 2015-16 in MYT Order	Now Approved	Reference
A	AT&C Loss	%	10%	10.70%	Table - 11
B	Under achievement (A-B)	%		1.10%	

Sr. No.	Particulars	Unit	As per AT&C loss approved for FY 2015-16 in MYT Order	Now Approved	Reference
C	Energy Input	MU	1424.45	1424.45	Table - 10
D	Units realised	MU	1,287.71	1272.09	Table - 10
E	Average Billing Rate	Rs/Unit	8.90	8.90	Table - 10
F	Amount realised	Rs.Crore	1146.05	1132.15	Table - 10
G	Financial impact on account of under achievement which has to be borne by the Petitioner	Rs.Crore	(13.90)		Now approved value – MYT Order value
H	Total revenue available towards ARR for FY 2015-16 (Excluding Electricity Tax & 8% Surcharge)	Rs.Crore	1146.05		

3.23 As per the AT&C loss computation shown above, the Petitioner has to bear the amount of Rs.17.04 Crore and Rs. 13.90 Crore due to underachievement of AT&C loss target in FY 2014-15 and FY 2015-16 respectively.

### Power Purchase Quantum

#### Petitioner's Submission

3.24 The Petitioner has allocation of power from Dadri TPS, Badarpur TPS and Pragati Station. For the purpose of true-up, the Petitioner has submitted actual gross power purchase quantum of 1908.15 MU and 1633.70 MU against the approved gross power purchase quantum of 2461.61 MU and 2156.40 MU for FY 2014-15 and FY 2015-16, respectively.

3.25 Accordingly, the details of power purchase quantum submitted by the Petitioner from various generators is summarized in table below:

**Table 15: Power Purchase Quantum for FY 2014-15 & FY 2015-16 (MU)**

Sr.No.	Particulars	FY 2014-15		FY 2015-16	
		Tariff Order dated July 23, 2014	Petitioner's Submission	Tariff Order dated September 29, 2015	Petitioner's Submission
A	Power Purchase from Central Stations	851.41	758.44	851.60	575.48
B	Interstate Transmission	28.61	28.52	26.74	20.14

Sr.No.	Particulars	FY 2014-15		FY 2015-16	
		Tariff Order dated July 23, 2014	Petitioner's Submission	Tariff Order dated September 29, 2015	Petitioner's Submission
	Losses				
C	Net Power Purchase from Central Stations	822.80	729.92	824.86	555.34
D	Power Purchase from State Stations	1555.91	1132.98	1300.42	962.21
E	Power Purchase from Short Term Sources		40.66	27.72	120.41
F	Power Purchase from Renewable Sources	82.90	19.29	3.40	47.74
G	<b>Gross Power Purchase</b>	<b>2461.61</b>	<b>2709.81</b>	<b>2156.40</b>	<b>2281.32</b>
H	Intra State Transmission Loss	14.22	13.46	10.65	11.44
I	<b>Net Power Available at NDMC Periphery</b>	<b>2447.39</b>	<b>1909.38</b>	<b>2145.74</b>	1,622.26
J	Sale of Surplus Power	964.15	458.23	634.48	127.33
K	<b>Net Power available for Retail sales</b>	<b>1483.24</b>	<b>1451.15</b>	<b>1511.27</b>	<b>1448.18</b>

3.26 The Petitioner has further submitted the power purchase quantum from long-term sources for FY 2014-15 and FY 2015-16 as tabulated below:

**Table 16: Details of Power Purchase Quantum from Long-Term Sources Station Wise (MU)**

Sr. No	Particulars	FY 2014-15	FY 2015-16
	<b>Central Generating Stations</b>		
A	Dadri TPS	758.44	575.48
	<b>State Generating Stations</b>		
B	Badarpur TPS	477.09	378.43
C	Pragati I	536.07	453.61
D	Pragati III- CCGT Bawana	119.82	130.17
E	<b>Total</b>	<b>1891.42</b>	<b>1537.69</b>

3.27 The source-wise details of power sourced through short term sources as submitted by the Petitioner is as below:

**Table 17: Details of Short Term Power Purchase (in MU)**

Sr. No	Particulars	FY 2014-15	FY 2015-16
A	Bilateral	0	48.45
B	Banking	16.25	-
C	IEX	4.55	71.96
D	Power Purchase from Renewable	19.27	47.47
E	Inter-Discom Purchase	19.85	-
F	UI	0	0
G	<b>Total</b>	<b>59.95</b>	<b>168.15</b>

3.28 Based on the actual power purchased from various sources the Petitioner has requested for approval of actual net power purchase quantum for FY 2014-15 and FY 2015-16.

#### **Commission's Analysis**

3.29 The Commission has directed to the Petitioner to reconcile the total quantum of power procured during FY 2014-15 and FY 2015-16. The Petitioner has submitted that long term power purchase is considered at generator bus bar and power purchase from IEX is being considered at NR periphery and the reconciled energy input data with Delhi SLDC was submitted vide email dated 18.07.2017, which is considered for true – up for FY 2014-15 and FY 2015-16. Accordingly, the Commission approves the 1537.69 MU from Power Purchase Quantum from Long-Term Sources Station Wise (MU) and 168.15 MU from short term power purchase.

#### **Power Purchase Cost**

##### **Petitioner's Submission**

3.30 The Petitioner has submitted the Long term and Short Term power purchase cost for FY 2014-15 and FY 2015-16. As per the submission, the Petitioner has claimed actual power purchase cost as follows:

**Table 18: Long term Power Purchase Cost submitted by Petitioner (Rs. Crore.)**

S.NO	Particulars	FY 2014-15	FY 2015-16
	<b>Central Generating Stations</b>		
A	Dadri	365.68	292.29
	<b>State Generating Station</b>		
B	Badarpur TPS	270.43	230.63
C	Pragati I	288.15	241.79



S.NO	Particulars	FY 2014-15	FY 2015-16
D	Pragati III –CCGT Bawana	123.95	96.93
E	<b>Total</b>	<b>1048.21</b>	<b>861.64</b>

**Table 19: Short term Power Purchase Cost submitted by Petitioner (Rs. Crore.)**

S.NO	Particulars	FY 2014-15	FY 2015-16
	<b>Short term</b>		
A	Bilateral		42.93
B	Power Purchase from Renewable	7.62	
C	Exchange	1.74	
D	IDT	5.03	
E	<b>Total Short Term cost</b>	<b>14.39</b>	<b>42.93</b>

3.31 The Petitioner vide letter dated 18.07.2017 has submitted that on the validation of the power purchase invoices in the office of the Commission, the details with respect to source-wise power purchase units and cost is being re-submitted. The summary of the revised power purchase based for FY 2014-15 is provided below:-

**Table 20: Power Purchase Cost (in Rs. Crore)**

Particulars	FY 2014-15
<b>Long Term</b>	
NTPC	691.11
PPCL	412.14
<b>Short term</b>	
Bilateral (TOWMCL)	8.64
Exchange	1.95
IDT	7.33
<b>Power Purchase Cost</b>	<b>1121.17</b>

### Sale of surplus energy

3.32 The Petitioner has submitted the actual revenue from sale of surplus power from various short-term sources for FY 2014-15 and FY 2015-16 as below:

**Table 21: Details of Short term power sales (Rs. CrORE.)**

Sr. No	Particulars	FY 2014-15	FY 2015-16
		(Rs. Cr.)	(Rs. Cr.)
A	Bilateral / Banking	5.00	32.98
B	IEX	38.04	
C	PXIL	38.65	
D	IDT Sale	7.97	

Sr. No	Particulars	FY 2014-15	FY 2015-16
		(Rs. Cr.)	(Rs. Cr.)
E	Net UI	-5.53	
F	Total	79.65	32.98

### Rebate on Power Purchase and Transmission Charges:

3.33 In addition the various power purchase cost, the Petitioner has also provided the details of rebate availed during FY 2014-15 and FY 2015-16 which is provided in table below:

**Table 22: Amount of rebate availed during FY 2014-15 & FY 2015-16 (Rs. Crore)**

Sr.No.	Particulars	FY 2014-15	FY 2015-16
A	Rebate towards Power Purchase cost	21.25	17.03
B	Rebate towards Transmission charges	1.40	2.14
C	Total Rebate	22.65	19.17

### Total Power Purchase Cost for Truing-up

3.34 The Petitioner has submitted net actual power purchase cost incurred during FY2014-15 & FY 2015-16 as summarized below:

**Table 23: Gross Power Purchase Cost during FY 2014-15 & FY 2015-16(Rs. Crore)**

Sr.No.	Particulars	FY 2014-15		FY 2015-16	
		Projected by the Commission	Actual	Projected by the Commission	Actual
A	<b>Gross Power Purchase Cost</b>	<b>1115.90</b>	<b>1062.60</b>	1146.83	894.56
B	Revenue from Sale of Power	385.66	79.01	266.48	32.98
C	Rebate on Power Purchase Cost	22.02	21.25	22.72	17.03
D	<b>Net Power Purchase Cost</b>	<b>708.22</b>	<b>962.34</b>	<b>857.64</b>	<b>844.54</b>
E	Interstate Transmission Charges	19.26	24.26	18.56	24.88
F	Intrastate Transmission Charges including SLDC	60.24	45.54	51.75	82.35
G	Total Transmission Charges	79.50	69.80	70.31	107.23
H	Rebate on Transmission Charges	1.12	1.40	1.43	2.14
I	<b>Net Transmission Charges</b>	<b>78.38</b>	<b>68.40</b>	<b>68.88</b>	<b>105.09</b>
J	<b>Total Power Purchase Cost</b>	<b>786.60</b>	<b>1030.74</b>	<b>926.53</b>	<b>949.63</b>

### Commission Analysis

3.35 Regulation 5.24 of DERC (Terms and conditions for Determination of Wheeling

Tariff and Retail Supply Tariff) Regulations, 2011 provides that:

*“Distribution licensee shall be allowed to recover the net cost of power it procures from sources approved by the Commission, viz. Intra-State and Inter-State Trading Licensees, Bilateral Purchases, Bulk Suppliers, State generators, Independent Power Producers, Central generating stations, non-conventional energy generators, generation business of the Distribution Licensee and others, assuming maximum normative rebate available from each source for payment of bills through letter of credit on presentation of bills for supply to consumers of Retail Supply Business”.*

- 3.36 The Petitioner had submitted that long term power purchase cost for FY 2014-15 is Rs. 1048.21 crore and for FY 2015-16 is Rs. 861.64 Crore. The Petitioner has submitted that short term power purchase cost for FY 2014-15 is Rs.14.39 crore and for FY 2015-16 is 42.93 crore. Further, the Petitioner through an additional submission vide letter dated 18.07.2017 after prudence check had submitted revised long term and short term power purchase cost. The Petitioner had submitted the consolidated cost of NTPC stations and PPCL stations. The Petitioner was asked during the prudence check to verify the same from monthly invoice raised by the individual plants. The Petitioner has not submitted further details in order to verify the claim. It is observed that the Petitioner has revised the power purchase cost as per the revision bills received during the subsequent years for the period FY 2014-15. However the Commission has adopted the practice that the bills received during the year shall be considered for the purpose of truing of expenses of the relevant year. Therefore, the Commission has considered the power purchase cost submitted by the Petitioner in the petition without considering the revision of bill submitted by the Petitioner after prudence check.
- 3.37 It is observed from the petition that there is clerical error in the computation of long term power purchase cost for FY 2015-16, which has been computed by the Commission as per the prudence check and the same has been rectified in approved power purchase cost for FY 2015-16.
- 3.38 The Commission has observed that the Petitioner in the month of June 2014 has sold 28.44 MU through exchange and at the same time purchased 10.70 MU under banking arrangement. Therefore, the Commission has disallowed transmission charges and trading margin on account of overlapping in banking transaction and

sales at exchange in June 2014.

- 3.39 The Commission observed that the Intra State Transmission Charges for FY 2015-16 is higher than that approved by the Commission in its Tariff Order dtd. 29/09/15 and the Petitioner has indicated any reason for variation in its Tariff Petition. Therefore, the Commission has restricted the Intra State Transmission Charges for FY 2015-16 to that approved by the Commission in its Tariff Order dtd. 29/09/15.
- 3.40 The Commission has also disallowed additional UI charges of Rs. 4.94 Crore and Rs. 4.61 Crore for FY 2014-15 and 2015-16 respectively as per the information received from SLDC vide email dated 24.07.2017.
- 3.41 Accordingly, the Commission approves trued-up power purchase cost per the following details:

**Table 24: Total Power Purchase Cost as approved by the Commission (Rs. Crore.)**

Sr. No.	Particulars	FY 2014-15		FY 2015-16	
		Petitioner's Submission	Approved	Petitioner's Submission	Approved
A	Gross Power Purchase Cost	1062.60	1062.60	894.56	904.57
B	<b>Less:</b> Cost of Surplus Power Sold	79.01	79.01	32.98	32.98
C	Net Power Purchase Cost	983.59	983.59	861.58	871.59
D	Total Transmission Charges	69.80	69.80	107.23	76.63
E	Total Power Purchase Cost	1053.39	1053.39	938.21	948.22
F	Less: Normative Rebate	-22.65	-22.65	-19.17	-19.62
G	Net Power Purchase Cost including Transmission Charges	1030.74	1030.74	919.04	928.60
H	<b>Less:</b> Additional UI Charges disallowed	-	-4.94	-	-4.61
I	<b>Less:</b> Disallowance of Transmission Charges and Trading Margin on account of overlapping in banking transaction & Sale at Exchange in June 2014	-	-0.56	-	
J	Trued-Up Power Purchase cost	<b>1030.74</b>	<b>1025.24</b>	<b>919.04</b>	<b>923.99</b>

### Operation and Maintenance (O&M) Expenses

#### Petitioner's Submission

- 3.42 The Petitioner has proposed the expenses on account of employee cost, administrative and general expense and repair and maintenance expense as part of the total Operation and Maintenance (O&M) expenses of NDMC.

- 3.43 The Petitioner for FY 2014-15 has submitted amount of O&M expenditure in line with the approved O&M expenses by the Commission in the Tariff Order for FY 2014-15. Further, the Petitioner for FY 2015-16 has submitted an amount of Rs. 176.74 Crore towards O&M expenses as against the approved amount Rs. 164.92 Crores. The details of O&M expenses submitted by the Petitioner are as below:

**Table 25: Actual O&M Expenses for FY 2014-15 & FY 2015-16**

Sr.No.	Particulars	UoM	FY 2014-15		FY 2015-16	
			Approved	Actual	Approved	Actual
A	Employee Expenses	Rs. Crore	91.64	91.64		100.54
B	A&G Expenses	Rs. Crore	18.15	18.15		57.50
C	R&M Expenses	Rs. Crore	55.83	55.83		18.69
D	<b>Gross O&amp;M Expenses</b>	Rs. Crore	<b>165.62</b>	<b>165.62</b>	<b>171.80</b>	<b>176.74</b>
E	Efficiency Factor	%	4.00%	4.00%	4.00%	
F	Less: Efficiency	Rs. Crore	6.62	6.62	6.87	
G	<b>Net O&amp;M Expenses</b>	Rs. Crore	<b>159.00</b>	<b>159.00</b>	<b>164.92</b>	

**Commission's Analysis**

- 3.44 Regulation 4.21(b) (i) of DERC Tariff Regulations, 2011 provides as under:

*"any surplus or deficit on account of O&M expenses shall be to the account of licensee and shall not be trued up in ARR."*

- 3.45 The Commission in terms of Regulation 4.21(b)(i) has considered the O&M expenses as approved in respective Tariff Orders as per the following tables:

**Table 26: True-up O&M Expenses approved by the Commission (Rs. Crore.)**

Sr. No	Particulars	UoM	FY 2014-15			FY 2015-16		
			Approved in Tariff Order dated 23.07.2014	Actual as per Petition	Now Approved	Approved in Tariff Order dated 29.09.2015	Actual as per Petition	Now Approved
A	Employee Expenses	Rs. Crore	91.64	91.64	91.64		100.54	
B	A&G Expenses	Rs. Crore	18.15	18.15	18.15		57.50	
C	R&M Expenses	Rs. Crore	55.83	55.83	55.83		18.69	
D	Gross O&M Expenses	Rs. Crore	<b>165.62</b>	<b>165.62</b>	<b>165.62</b>	<b>171.80</b>	<b>176.74</b>	171.80
E	Less: Efficiency improvement factor	%	4.00%	4.00%	4.00%	4.00%		4.00%

Sr. No	Particulars	UoM	FY 2014-15			FY 2015-16		
			Approved in Tariff Order dated 23.07.2014	Actual as per Petition	Now Approved	Approved in Tariff Order dated 29.09.2015	Actual as per Petition	Now Approved
F	Less: Efficiency improvement Amount	Rs. Crore	6.62	6.62	6.62	6.87		6.87
G	<b>Net O&amp;M expenses</b>	Rs. Crore	<b>159.00</b>	<b>159.00</b>	<b>159.00</b>	<b>164.93</b>		<b>164.93</b>

### ADMINISTRATIVE AND CIVIL ENGINEERING DEPARTMENT EXPENSES:

#### Petitioner's Submission

- 3.46 In absence of segregated accounts for the electricity department, the Petitioner has submitted additional claim towards the expenses shared with its Administrative and Civil Engineering Department during FY 2014-15 and FY 2015-16.
- 3.47 The summary of the claim against the expenses on account of allocation from Administrative and Civil Engineering Department during FY 2014-15 and FY 2015-16 is as below:

**Table 27: Actual O&M Expenses for FY 2014-15 & FY 2015-16(Rs. Crore)**

Sr.No.	Particulars	FY 2014-15	FY 2015-16
A	Civil Engineering Department Expenses	10.00	10.00
B	Administrative Department Expenses	35.37	35.37
C	<b>Total Administrative and Civil Engineering Expense</b>	<b>45.37</b>	<b>45.37</b>

#### Commission's Analysis

- 3.48 The Commission had asked the Petitioner to justify in administrative and civil engineering expense considered in the petition. The Petitioner vide letter dated 18.07.2017 submitted that currently NDMC is operating as a consolidated entity with multiple departments dealing in matters relating to taxation, revenue, budgeting, contracts accounts and audits, electricity, streets and sanitation, public health, public safety and suppression of nuisances, etc. Further, Petitioner submitted that NDMC is yet to segregate the expenses in various departments on account of electricity distribution business. A study with the same to the same is being undertaken by SBI Caps and results of the same may provide proper allocation of the amount that can be allocated towards electricity business of NDMC.

3.49 The Commission had observed in the Tariff Order dated 29.09.2015, that the O&M Expenses per unit of the Petitioner is highest amongst the DISOCMs. Further addition of Administrative and Civil Engineering Department expenses increases the O&M expenses. Hence, in view of high O&M Expenses of the Petitioner, the Commission has not considered the above cost over and above the normative O&M Expenses of the Petitioner.

### Non-Tariff Income

#### Petitioner's Submission

3.50 The Petitioner has submitted the non-tariff income as per actual for FY 2014-15 and FY 2015-16. The details of income other than income from sale of power is summarized below:

**Table 28: Actual Non- Tariff income submitted by the Petitioner (Rs.Crore)**

Sr.No.	Particulars	FY 2014-15	FY 2015-16
A	Late Payment charges	-	1.18
B	MDI	5.91	5.91
C	New connection/re-connection fees	-	8.18
D	Meter testing charges	-	11.75
E	Meter Rent	-	0.004
F	Service Administrative charges	-	-
G	Sale & Hire charges	-	-
H	Burnt Meter	0.05	-
I	Recovery of Deposit Work	-	0.05
J	Other income from lapsed deposit and other receipts	-	0.08
K	Other receipts (petty commercial items)	-	0.34
L	<b>Total</b>	<b>5.96</b>	<b>27.50</b>

#### Commission's Analysis

3.51 The Regulation 5.36 of the 2<sup>nd</sup> MYT Regulations states that

*"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".*

3.52 As per Regulation 5.24 of the 2<sup>nd</sup> MYT Regulations, the distribution licensee shall be allowed to recover the net cost of power and transmission assuming maximum normative rebate available from each source for payment of bills through Letter of Credit (LC) on presentation of bills for supply to consumers of Retail Supply Business.

The Petitioner has not offered any income on account of Rebate earned on payment of power purchase and transmission charges bills.

- 3.53 As per the 2<sup>nd</sup> MYT Regulations, only two sets of parameters are recognized i.e. controllable and uncontrollable. The uncontrollable parameters include revenue/ expenditure on account of sales and power purchase and the MYT Regulations provide for their annual True Up. On the other hand, the controllable parameters include O&M expense, Capex related expenses and RoCE, but does not specifically include Non Tariff Income. The MYT Regulations specifically provide for True Up of controllable expenses of Capex related expenditure i.e. RoCE and Depreciation every year. The Non-tariff Income is influenced by various factors and is uncontrollable parameter even though the Regulations are silent and hence shall be trued up based on the actual Non-Tariff Income every year.
- 3.54 Accordingly, the Commission has approved the amount of Non Tariff Income as per the submissions made by the Petitioner for FY 2014-15 and FY 2015-16 as follows:

**Table 29 : Trued-up Non Tariff Income approved for FY 2014-15 (Rs. Crore)**

Particulars	Approved in Tariff order dated 23.07.2014	Petitioner submission	Now Approved
Non Tariff Income	22.48	5.96	5.96

**Table 30: Trued-up Non Tariff Income approved for FY 2015-16 (Rs. Crore)**

Particulars	Approved in Tariff order dated 29.09.2015	Petitioner submission	Now Approved
Non Tariff Income	7.58	27.50	27.50

### Capital Expenditure and Capitalisation

#### Petitioner's Submission

- 3.55 The Petitioner has submitted that it has appointed SBI Caps as an external consultant to determine the actual assets and balance sheet of the Electricity Distribution Business Unit. Based on the consultant's report, the Gross Fixed Assets as on 1st April 2014 of Rs. 853.70 Crores and the opening CWIP of Rs. 30.08 Crores has been considered for opening GFA for FY 2014-15.
- 3.56 The Petitioner has submitted total capitalization of Rs. 25.47 Crore and Rs. 43.47 Crore for FY 2014-15 and FY 2015-16, respectively for truing-up. Accordingly, the Petitioner has submitted the following details for opening and closing GFA for FY



2014-15 and FY 2015-16:

**Table 31: Actual GFA for FY2014-15 and FY 2015-16 (Rs. Crore)**

Sr.No.	Particulars	2014-15		2015-16	
		Approved in Tariff order dated 23.07.2014	Actual	Approved in Tariff order dated 29.09.2015	Actual
A	Opening GFA	1109.08	853.70	484.13	879.18
B	Capitalization	13.10	25.47	15.29	43.47
C	Closing GFA	1122.18	879.18	499.42	922.65
D	<b>Average GFA</b>	<b>1115.63</b>	<b>866.44</b>	<b>491.78</b>	<b>900.92</b>

### Commission's Analysis

3.57 The Commission has approved the closing GFA for FY 2013-14 at Rs. 472.70 Crores.

The Commission has observed in its Tariff Order dated 29.09.2015 as follows:

*"3.11 The GFA addition during FY 2005-06 to FY 2012-13 has been restricted provisionally on the basis of minimum of GFA addition submitted by the Petitioner and maximum of Rs. 20 Crore GFA addition allowed without approval of the Commission during a year till the time the Petitioner submits the scheme wise details of Capitalisation for True up of Capitalisation."*

*3.12 The Petitioner is directed to submit the actual claim on account of GFA addition from FY 2005-06 to FY 2013-14 with scheme wise details on yearly basis. Further, no carrying cost shall be allowed on difference if any in the provisional capitalization and actual capitalisation."*

3.58 Thus the Commission approves the Gross Fixed Assets as follows:

**Table 32: True-up GFA as approved by the Commission for FY 2014-15 & FY 2015-16 (Rs. Crore)**

Sr. No.	Particulars	Approved in Tariff order
A	Opening GFA on 01.04.2014 as per TO dated 29.09.2015	472.70
B	Addition during FY 2014-15	20.00
C	Closing GFA for FY 2014-15	492.70
D	Addition during FY 2015-16	20.00
E	Closing GFA for FY 2015-16	512.70

### Depreciation

#### Petitioner's Submission

3.59 The Petitioner has provided for depreciation on the basis of straight-line method on the average Gross Fixed Assets at the beginning and at the end of each year. As per the methodology adopted by the Commission in the Tariff Orders, the Petitioner has

proposed depreciation by considering the average depreciation rate of 3.6% on the average GFA for FY 2014-15 and FY 2015-16 as summarized in table below:

**Table 33: Actual Depreciation for FY 2014-15 and FY 2015-16 (Rs. Crore)**

Sr. No	Particulars	FY 2014-15		FY 2015-16	
		Approved	Actual	Approved	Actual
A	Average GFA	1115.63	866.44	491.78	900.92
B	Average Consumer Contribution	0.00	13.56	0.00	16.14
C	Average Assets Net of Consumer Contribution	1115.63	852.88	491.78	884.78
D	Average Depreciation Rate	3.60%	3.60%	3.60%	3.60%
E	<b>Depreciation</b>	<b>40.16</b>	<b>30.70</b>	<b>17.70</b>	<b>31.85</b>

3.60 Accordingly, the Petitioner has submitted cumulative depreciation for FY 2014-15 and FY 2015-16 as given below:

**TABLE 34: CUMULATIVE DEPRECIATION ON FIXED ASSETS (RS. CRORE)**

Sr. No	Particulars	FY 2014-15	FY 2015-16
A	Opening balance of cumulative depreciation	439.99	470.70
B	Additions during the year	30.70	31.85
C	Closing balance of cumulative depreciation	<b>470.70</b>	<b>502.55</b>

### Commission's Analysis

3.61 As per Regulation 4.21 (b)(ii) of the 2nd MYT Regulations, Depreciation and Return on Capital Employed shall be trued up every year based on the Capital Expenditure and Actual Capitalisation vis-à-vis Capital Investment plan (Capital Expenditure and Capitalisation) approved by the Commission.

3.62 The Regulation 5.16 of the 2nd MYT Regulations, specify that

*"..... Provided that depreciation shall not be allowed on assets funded by consumer contribution and capital subsidy/ grant".*

3.63 The Commission has considered rate of depreciation @ 3.60%. Hence, in view of the prudence check, the Commission approves Depreciation as follows:

**Table 35: True-up of Actual Depreciation approved by the Commission (Rs. Crore)**

Sr. No	Particulars	FY 2014-15	FY 2015-16
A	Average GFA	482.70	502.70
B	Depreciation Rate	3.60%	3.60%

Sr. No	Particulars	FY 2014-15	FY 2015-16
C	Depreciation	17.38	18.10

### Working Capital

#### Petitioner's Submission

3.64 The Petitioner has computed the Working Capital requirement on normative basis as per the provisions of the Tariff Regulations. The details of proposed working capital requirements for FY 2014-15 and FY 2015-16 is as below:

**TABLE 36: DETERMINATION OF WORKING CAPITAL REQUIREMENT FOR FY 2014-15 AND FY 2015-16 (RS. CRORE)**

Sr. No	Particulars	FY 2014-15		FY 2015-16	
		Approved	Actual	Approved	Actual
A	Receivables from sale of electricity	1156.31	1019.33	1123.39	1153.64
B	Receivables Equivalent to 2 months	192.72	169.89	187.23	192.27
C	Net Power Purchase Expense (including transmission, SLDC, RPO and normative rebate)	787.72	1030.74	926.53	949.63
D	1/12th of Power Purchase Expense	65.64	85.89	77.21	79.14
E	<b>Total Working Capital</b>	<b>127.08</b>	<b>83.99</b>	<b>110.02</b>	<b>113.14</b>
F	Less: Opening Balance of Working Capital	110.43	78.67	115.00	83.99
G	Change in Working Capital	16.65	5.32	(4.98)	29.15

### Commission's Analysis

3.65 The Regulation 5.14 and 5.15 of the MYT Regulations 2011 specifies that working capital shall consist of:

#### *For wheeling business*

*Receivables for two months of wheeling charges*

#### *For Retail supply business*

*(a) Receivables for two months of revenue from sale of electricity*

*(b) Less: Power purchase costs for one month*

*(c) Less: Transmission charges for one month, and*

*(d) Less: Wheeling charges for two months*

3.66 The Commission has examined the working capital computations furnished by the Petitioner. The power purchase expenses includes transmission charges, REC purchases and power purchases from other sources net of power sold to others and normative rebate.

3.67 The Commission had approved the closing working capital for FY 2013-14 at Rs. 84.05 Cr in its Tariff Order dated 29.09.2015. The approved working capital for FY 2014-15 and FY 2015-16 is as follows:

**Table 37: Working Capital considered for FY 2014-15 & FY 2015-16 (Rs. Crore)**

Sr. No	Particulars	FY 2014-15		FY 2015-16		Reference
		Petitioner's Submission	Now Approved	Petitioner's Submission	Now Approved	
A	Receivables from sale of electricity	1019.33	1055.88	1153.64	1146.05	Table-13 & 14
B	Receivables equivalent to 2 months	169.89	175.98	192.27	191.01	A/6
C	Net Power purchase expenses (including Transmission Charges, SLDC Charges, RPO and Normative Rebate)	1030.74	1025.24	949.63	923.99	Table-24
D	Less: 1/12 <sup>th</sup> Power purchase expenses	85.90	85.44	79.14	77.00	
E	Total Working Capital	83.99	90.54	113.14	114.01	B-D
F	Less: Opening WC	78.67	84.05	83.99	90.54	
G	<b>Change in Working Capital</b>	<b>5.32</b>	<b>6.49</b>	<b>29.14</b>	<b>23.46</b>	<b>E-F</b>

### Regulated Rate Base

#### Petitioner's Submission

3.68 The Petitioner has submitted the computation for Regulated Rate Base for FY 2014-15 and FY 2015-16 based on the MYT Regulations, 2011 as given in the table below:

**Table 38: Regulated Rate Base for FY 2014-15 & FY 2015-16 (Rs. Crore)**

S. No	Particulars	FY 2014-15		FY 2015-16	
		Approved	Actual	Approved	Actual
1	<b>RRB - Base Year</b>				
A	Opening Balance of OCFA	1109.08	853.7	484.13	879.18
B	Opening Balance of Working Capital	98.35	78.67	115	83.99
C	Opening Balance of Accumulated Depreciation	435.76	439.99	372.38	470.7
D	Opening balance of Accumulated Consumer Contribution	-	10.97	-	16.14

S. No	Particulars	FY 2014-15		FY 2015-16	
		Approved	Actual	Approved	Actual
2	<b>RRB - for each year</b>				
E	Investments in capital expenditure during the year	13.1	25.47	15.29	43.47
F	Depreciation for the year	40.16	30.7	17.7	31.85
G	Consumer Contribution, Grants, etc. for the year	-	5.17	-	-
H	Fixed asset retirement/De-capitalisation applicable	-	-	-	-
I	Change in Working Capital	16.65	5.32	-4.98	29.15
3	<b>RRB Opening Balance</b>	771.66	481.41	226.75	476.33
J	RRB for the year	-10.41	-5.08	-6.19	34.96
K	<b>RRB - Closing</b>	761.25	476.33	219.36	487.95
4	<b>Opening in Regulated Rate Base (RRB) (i)</b>	771.66	481.41	226.75	476.33
L	Change in RRB	3.12	0.12	-6.19	29.15
5	<b>Regulated Rate Base (RRB) (i)</b>	<b>774.78</b>	<b>481.53</b>	<b>220.57</b>	<b>505.48</b>

### Commission's Analysis

3.69 The RRB has been considered based on investment capitalised, depreciation and working capital requirements for FY 2014-15 and FY 2015-16 as detailed in the Table as follows:

**Table 39: RRB considered by the Commission (Rs. Crore)**

Sr. No	Particulars	FY 2014-15	FY 2015-16
		Now Approved	Now Approved
1	<b>RRB - Base Year</b>		
A	Opening Balance of OCFA	472.70	492.70
B	Opening Balance of Working Capital	84.05	90.54
C	Opening Balance of Accumulated Depreciation	354.69	372.07
D	Opening balance of Accumulated Consumer Contribution	2.63	7.80
2	<b>RRB - for each year</b>		
A	Capital expenditure	20.00	20.00
B	Depreciation	17.38	18.10
C	Consumer Contribution, Grants, etc. for the year	5.17	0.00
D	Fixed asset retirement/De-capitalisation applicable		

Sr. No	Particulars	FY 2014-15	FY 2015-16
		Now Approved	Now Approved
E	Change in Working Capital	6.49	23.46
3	RRB Opening Balance	199.43	203.38
A	RRB for the year		
B	<b>RRB - Closing</b>	203.37	228.74
C	Opening in Regulated Rate Base (RRB) (i)	199.43	203.38
D	Change in RRB	5.22	24.42
5	<b>Regulated Rate Base (RRB) (i)</b>	<b>204.65</b>	<b>227.79</b>

### Return on Capital Employed

#### Petitioner's Submission

- 3.70 The Petitioner has submitted that capital expenditure incurred for creation of assets has been majorly incurred through its budgetary support and internal accruals and no loan has been utilized for creation of assets. For computing the WACC, the Petitioner has utilized rate of Return on Equity of 16% as per the Tariff Regulations and interest rate of 10% in line with the approved interest rate in the Tariff Order for FY 2014-15. The detailed calculation of return on capital employed as submitted by the Petitioner is provided in table below:

**Table 40: Return on Capital Employed for FY 2014-15 and FY 2015- 16**

S. No	Particulars		FY 2014-15		FY 2015-16	
			Approved	Actual	Approved	Actual
A	Regulated Rate Base (RRB))	Rs. Crore	774.78	481.53	220.57	505.48
B	Debt Rate	%	10.00%	10.00%	11.50%	10%
C	Equity Rate	%	16.00%	16.00%	16.00%	16.00%
D	WACC	%	11.80%	11.80%	12.85%	11.80%
E	<b>ROCE</b>	<b>Rs. Crore</b>	<b>91.42</b>	<b>56.82</b>	<b>28.34</b>	<b>59.65</b>

#### Commission's Analysis

- 3.71 As per proviso of Regulation 5.11 of MYT Regulations, 2011,  
*"Provided that the Working capital shall be considered 100% debt financed for the calculation of WACC;"*
- 3.72 The return on capital employed considered by the Commission based on the RRB(i) and WACC discussed above for FY 2014-15 & FY 2015-16 is as given in the Table below:

**Table 41 : Return on Capital Employed (RoCE) approved**

Sr. No.	Particulars	UoM	FY 2014-15	FY 2015-16	Reference
A	RRB (i)	Rs. Crore	204.65	227.79	Table - 39
B	Working Capital	Rs. Crore	90.54	114.01	Table - 37
C	RRBi Excl WC	Rs. Crore	114.11	113.78	A-B
D	Rate of Return on Equity (Re)	%	16.00%	16.00%	
E	Rate of Return on Debt (Rd)	Rs. Crore	10.00%	10.00%	
F	Return on Equity	Rs. Crore	5.48	5.46	$C*30\%*D$
G	Return on Debt	Rs. Crore	17.04	19.37	$(C*70\%+B*100\%)*E$
H	<b>WACC</b>	%	<b>11.00%</b>	<b>10.90%</b>	I/A
I	<b>RoCE</b>	Rs. Crore	<b>22.52</b>	<b>24.83</b>	F+G

**Income-Tax****Petitioner's Submission**

3.73 The Petitioner has submitted income tax calculations for FY 2014-15 and FY 2015-16 as below:

**Table 42: Income-Tax Determination for FY 2014-15 and FY 2015-16**

Sr. No	Particulars	UoM	FY 2014-15	FY 2015-16
A	Average RRB	Rs. Crore	478.87	505.48
B	Equity considered for Income Tax	Rs. Crore	145.26	151.64
C	Rate of Return on Equity	%	16.00%	16.00%
D	Return on Equity	Rs. Crore	23.24	24.26
E	Income Tax Rate	%	33.99%	34.61%
F	<b>Income Tax</b>	Rs. Crore	<b>11.97</b>	<b>8.40</b>

**Commission's Analysis**

3.74 As submitted by the Petitioner during the Prudence Check, NDMC is exempt from Income Tax. Accordingly, the Commission has disallowed the claim for Income tax as it is not actually being paid.

**Aggregate Revenue Requirement****Petitioner's Submission**

3.75 The Aggregate Revenue Requirement (ARR) for FY 2014-15 and FY 2015-16 as submitted by the Petitioner is summarized in table below:

**Table 43: Aggregate Revenue Requirement for FY 2014-15 & FY 2015-16 (Rs. Crore)**

Sr. No	Particulars	FY 2014-15		FY 2015-16	
		Approved	Actual	Approved	Actual
A	Cost of power purchase, including T&D Losses	786.60	962.34	926.53	844.54
B	Inter-State Transmission charges		23.77		24.38
C	Intra-state Transmission charges (Including SLDC charges)		44.63		80.71
D	Net Operation & Maintenance (O&M)	159.00	159.00	164.92	176.74
E	Depreciation	40.16	30.70	17.70	31.85
F	Administrative Dept. & Civil Engg. Dept.	45.37	45.37	0.00	45.37
G	RoCE	91.42	56.82	28.34	59.65
H	Income Tax	-	-	0.00	8.40
I	Less: Non-Tariff Income	22.48	5.96	7.58	27.50
J	<b>Aggregate Revenue Requirement</b>	<b>1100.07</b>	<b>1316.67</b>	<b>1129.92</b>	<b>1244.14</b>

3.76 The Petitioner has requested the Commission to approve the proposed Aggregate Revenue Requirement for FY 2014-15 and FY 2015-16 for true-up for the respective years.

**Commission's Analysis**

3.77 The Commission, based on detailed analysis of cost parameters detailed in the above paragraphs, approves the Annual Revenue Requirement (ARR) in true up for FY 2014-15 and FY 2015-16 as given in the table below:

**Table 44: Aggregate Revenue Requirement now approved (Rs. Crore)**

Sr. No	Particulars	FY 2014-15	FY 2015-16	Reference
A	Net Power Purchase Cost	1,025.24	923.99	Table- 24
B	Operation & Maintenance (O&M)	159.00	164.93	Table- 26



Sr. No	Particulars	FY 2014-15	FY 2015-16	Reference
C	Depreciation	17.38	18.10	Table- 35
D	Administrative Dept. & Civil Engg. Dept.	0.00	0.00	
E	RoCE	22.52	24.83	Table-41
F	Income Tax	0.00	0.00	Table-
G	Less: Non-Tariff Income	5.96	27.5	Table- 29 & 30
H	<b>Aggregate Revenue Requirement</b>	<b>1,218.17</b>	<b>1,104.34</b>	<b>Sum (1-6)</b>

**Revenue (Gap)/Surplus****Petitioner's Submission**

3.78 Based on the proposed as per actual expenditure and revenue from the electricity business, the Petitioner proposed revenue gap for FY 2014-15 and FY 2015-16 is as per table below:

**Table 45: Revenue (Gap/Surplus) for FY 2014-15 & FY 2015-16 (Rs. Crore)**

Sr. No	Particulars	FY 2014-15	FY 2015-16
A	Aggregate Revenue Requirement	1316.67	1244.14
B	Revenue Available Towards ARR	1019.33	1153.64
C	<b>Revenue (Gap)/Surplus</b>	<b>(297.34)</b>	<b>(90.50)</b>

3.79 The Petitioner has proposed recovery of the computed revenue gap for FY 2014-15 and FY 2015-16 along with the tariff for subsequent years along with appropriate carrying cost.

**Commission's Analysis**

3.80 Based on the ARR and the revenue available towards the ARR, the Revenue Surplus/(Gap) is as follows:

**Table 46: Revenue (Gap/SURPLUS) for FY 2014-15 & FY 2015-16 (Rs. Crore)**

Sr. No	Particulars	FY 2014-15	FY 2015-16
A	Aggregate Revenue Requirement	1218.17	1,104.34
B	Revenue Available Towards ARR	1055.88	1146.05
C	<b>Revenue (Gap)/Surplus</b>	<b>(162.29)</b>	<b>41.71</b>

3.81 The closing Revenue surplus/ (Gap) as per the Tariff Order dated 29.09.2015 is Rs. 44.60 Cr. The Revenue surplus/(gap) for FY 2014-15 & FY 2015-16 as now approved by the Commission is summarized as follows:

**Table 47: Net Revenue Surplus/ (Gap) at the end of FY 2015-16 (Rs Crore)**

<b>Sr. No.</b>	<b>Particulars</b>	<b>FY 2014-15</b>	<b>FY 2015-16</b>
A	<b>Opening Revenue Surplus/(Gap)</b>	<b>44.6</b>	<b>(121.71)</b>
B	ARR for the year	1,218.17	1,104.34
C	Revenue for the year	1055.88	1146.05
D	Revenue Surplus/(Gap) for the year	(162.29)	41.71
E	Closing Revenue Surplus/(Gap)	(117.69)	(80.00)
F	Average gap	(36.54)	(100.86)
G	Rate of Carrying Cost	11.00%	10.90%
H	Amount of Carrying Cost	(4.02)	(10.99)
I	<b>Closing Revenue Surplus/(Gap)</b>	<b>(121.71)</b>	<b>(91.00)</b>

**Aggregate Revenue Requirement for FY 2017-18****Energy Sales****Petitioner's Submission**

- 4.1 The Petitioner has submitted the sales projection based on the DERC (Terms and Conditions for Determination of Tariff) Regulations, 2017 for FY 2017-18. The Petitioner has calculated the CAGR of last 3 years and 5 years considering FY 2015-16 as the base year.
- 4.2 The Petitioner's submission on the sales considering the CAGR of last 3 years, 5 years, YoY growth rate and the rate adopted for forecasting the energy sales is tabulated in the table mentioned below:

**Table 48: Escalation Rates for Electricity Sales for FY 2017-18**

Sl. No.	Consumer Category	Last 5 years	Last 3 years	YoY FY16 over FY15	Rate Adopted
A	Domestic	0.33%	-0.90%	-1.77%	1.00%
B	Non-Domestic Low Tension (up to 140 kW/150 kVA)	-0.01%	1.71%	0.11%	1.00%
C	Mixed Load*	1.21%	-0.19%	-1.11%	2.00%
D	Small Industrial Power	-35.40%	-49.29%	8.00%	0.00%
E	Public Lighting	-12.16%	-3.73%	-4.57%	0.00%
F	Others	9.17%	-25.14%	-40.18%	0.00%
G	DMRC	18.34%	4.64%	32.95%	0.00%

*\*Mixed Load includes Non-Domestic LT above 140 kW/ 150 kVA and Non-Domestic HT*

- 4.3 Domestic Category is observed to have a 0.90% decrease of sales in FY 2015-16 over the last 3 years. Further, the year-on-year growth rate for FY 2015-16 over FY 2014-15 has been -1.77%. However, the Petitioner has considered a normalized growth rate of 1.00% for FY 2017-18 for projecting domestic sales.
- 4.4 Similarly, Non Domestic Category is observed to have a 1.71% increase of sales in FY 2015-16 over the last 3 years. Further, the year-on-year growth rate for FY 2015-16 over FY 2014-15 is 0.11%. Taking into account the new commercial blocks that have been approved in the Petitioner distribution area, Sales to Non Domestic Category has been considered to grow at 1.00% for FY 2017-18.
- 4.5 Regarding Mixed Load Category, 1.21% and -0.19% has been the 5 year and 3 year CAGRs. The year on year growth rate of FY 2015-16 over FY 2014-15 has been found to -1.11%. However, due to the anticipated increase in commercial establishments for the Mixed Load Category in FY 2017-18, the growth rate for FY 2017-18 has been

assumed at 2.00% in the NDMC Region.

- 4.6 Concurrently, the other consumer categories have witnessed very low growth of sales and in some cases even a decline in sales. The sales to these categories have been assumed to remain constant at the levels of FY 2015-16 for FY 2017-18.
- 4.7 The estimated number of consumers within the distribution zone for the Petitioner is relatively stable over the last years with very few categories showing an increasing trend.
- 4.8 As per the CAGR assumptions as detailed above the estimated category-wise sales for FY 2017-18 is as below:

**Table 49: Category-wise Energy Sales for FY 2017-18 (MU)**

Sl. No.	Particulars	Provisional
A	Domestic	258.60
B	Non-Domestic Low Tension (up to 140 kW/150 kVA)	248.42
C	Mixed Load*	763.25
D	Small Industrial Power	0.05
E	Public Lighting	8.58
F	Others	11.72
G	DMRC	41.84
H	<b>Total</b>	<b>1,332.45</b>

*\*Mixed Load includes Non-Domestic LT above 140 kW/ 150 kVA and Non-Domestic HT*

- 4.9 The estimated category wise number of consumers and connected load is as below.

**Table 50: Projected Category-wise Number of Consumers and Load for FY 2017-18**

Sl. No.	Particulars	No. of Consumers	Connected Load (kW)
A	Domestic	39,410	1,26,177
B	Non-Domestic Low Tension (up to 140 kW/150 kVA)	17,450	1,45,369
C	Mixed Load*	560	3,96,853
D	Small Industrial Power	3	51
E	Public Lighting	70	1,592
F	Others	1,550	3,762
G	DMRC	1	8,000
H	<b>Total</b>	<b>59,044</b>	<b>6,81,804</b>

*\*Mixed Load includes Non-Domestic LT above 140 kW/ 150 kVA and Non-Domestic HT*

#### Commission's Analysis

- 4.10 The DERC (Terms and Conditions for Determination of Tariff) Regulations, 2017 (referred to from here onwards as Tariff Regulations, 2017) stipulates the Sales

projections to be made as follows

“5...

(7) Sales Forecast for each consumer category and sub-categories based on following factors:

- a) Category wise growth in No. of Consumers,
- b) Category wise growth in Sanctioned Load/Contract Demand (MW),
- c) Economic Cycle (boom, recession, Government policies etc.),
- d) Impact of Open Access (MU), Net Metering (MU), Demand Side Management measures (MU) etc.,
- e) Any other factor impacting the sales;”

4.11 The Commission has sought the actual sales for FY 2014-15 vide email dated 22.04.2015 and the Petitioner has submitted the same vide email dated 23.04.2015.

The Commission reviewed the Energy Sales for earlier years and the CAGR achieved in all the categories.

4.12 The actual category wise sales for FY 2008-09 to FY 2014-15 submitted by the Petitioner are shown in the table as follows:

**Table 51 : Energy sales from FY 2010-11 to FY 2015-16 (MU)**

Sl. No.	Category	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16
A	Domestic	239.13	243.89	259.01	251.61	251.60	247.09
B	Non-Domestic	250.84	247.70	253.99	239.37	247.56	247.63
C	Mixed Load	693.58	713.78	721.51	751.95	757.47	749.04
D	Industrial (SIP)	0.32	0.31	0.26	0.21	0.05	0.05
E	Public Lighting	8.37	12.95	8.21	8.32	8.08	7.71
F	DMRC	0.00	20.23	38.70	36.23	29.84	39.67
G	Others*	9.50	7.69	9.57	19.49	18.25	10.92
H	<b>Total</b>	<b>1201.74</b>	<b>1246.55</b>	<b>1291.25</b>	<b>1307.18</b>	<b>1312.84</b>	<b>1302.13</b>

\*Others include temporary supply, advertisement & hoardings etc.

4.13 The various years CAGR with respect to FY 2015-16 are as per the following table:

**Table 52 : Five years' CAGR (%)**

Sl. No.	Particulars	5 year CAGR	4 year CAGR	3 year CAGR	2 year CAGR	1 year CAGR
A	Domestic	0.66%	0.33%	-1.56%	-0.90%	-1.78%
B	Non-Domestic	-0.26%	-0.01%	-0.84%	1.71%	0.11%
C	Mixed Load	1.55%	1.21%	1.26%	-0.19%	-1.11%
D	Industrial (SIP)	-29.94%	-35.40%	-40.78%	-49.29%	8.00%
E	Public Lighting	-1.63%	-12.16%	-2.07%	-3.73%	-4.57%

Sl. No.	Particulars	5 year CAGR	4 year CAGR	3 year CAGR	2 year CAGR	1 year CAGR
F	DMRC	0.00%	18.34%	0.83%	4.64%	32.95%
G	Others	2.83%	9.17%	4.51%	-25.14%	-40.18%

- 4.14 The Commission considered the number of consumers and sanctioned load as per the submission made by the Petitioner as follows:

**Table 53 : No. of Consumers and Connected Load (kW) for FY 2017-18**

Sl. No.	Particulars	No. of Consumers	Connected Load (kW)
A	Domestic	39410	126177
B	Non-Domestic Low Tension (up to 140 kW/150 kVA)	17450	145369
C	Mixed Load*	560	396853
D	Small Industrial Power	3	51
E	Public Lighting	70	1592
F	Others	1550	3762
G	DMRC	1	8000
H	<b>Total</b>	<b>59044</b>	<b>681804</b>

*\*Mixed Load includes Non-Domestic LT above 140 kW/ 150 kVA and Non-Domestic HT*

#### Estimated Sales for FY 2017-18

- 4.15 For projecting the sales, the commission has adopted an adjusted trend analysis method of demand forecasting for FY 2017-18 which assumes that the underlying factors which drive the demand for electricity are expected to follow the same trend as in the past.
- 4.16 The forecast is also based on the assumption that the past consumption trend will continue in future.
- 4.17 The trend based approach has to be adjusted based on judgment of the characteristics of the specific consumer categories.
- 4.18 The strength of the method, when used with balanced judgment lies in its ability to reflect recent changes and therefore, probably best suited as a basis for a short term projections as used for the ARR/Tariff in the context of ARR determination.
- 4.19 The category-wise sales forecast for FY 2017-18 are discussed as follows:

#### Domestic Consumers

- 4.20 The sales to Domestic consumer's category constitutes to about 19% of total sales in FY 2015-16. The sale for this category has shown negative growth in the past. However, the Commission in true up for FY 2015-16 had observed that the energy sales in FY 2015-16 have primarily declined owing to demolition of old central

government residential colonies, which are under reconstruction in to multi-storey and the energy efficiency measures taken by the Petitioner. Therefore, considering that number of residential consumers will increase due to construction of multi-story buildings instead of low rise buildings, the Commission considers the growth rate of 1% on the actual sales of FY 2015-16 (247.09 MU) for projecting sales in FY 2017-18 as submitted by the Petitioner. Thus, the Commission approves the sales of 252.06 MU for FY 2017-18 for Domestic consumer's category.

#### **Non-Domestic Consumers**

- 4.21 The sales to Non-Domestic consumer's category alone constitutes to about 19% of total sales in FY 2015-16. The sale for this category has shown little positive growth in the past. The Petitioner has also submitted that sales to Non domestic category will grow for FY 2017-18 taking into account the new commercial blocks that have been approved. The Commission has considered 2 year CAGR (FY 2013-14 to FY 2015-16) that shows a growth of 1.71% for Non-Domestic consumer's category on actual sales of FY 2015-16 (247.63 MU) for projecting sales in FY 2017-18. Thus the Commission approves the sale of 256.18 MU for FY 2017-18 for non- domestic consumers.

#### **Mixed Load Consumers**

- 4.22 The consumption of energy by Mixed Load category constitutes to about 58% of total sales in FY 2015-16. The Commission considers the growth rate of 1.26% i.e. 3 year CAGR (FY 2012-13- to FY 2015-16) on the actual sales of FY 2015-16 (749.04 MU) for projecting sales in FY 2017-18. Thus, the Commission approves the sale of 767.98 MU for FY 2017-18 for mixed load consumer's category.

#### **Small Industrial Power**

- 4.23 The consumption of energy by small industrial power category was only 0.05 MU in FY 2015-16. The Commission has considered 1 year CAGR of 8% on the actual sales of FY 2015-16 for projecting sales in FY 2017-18 and accordingly approves 0.06 MU sales to Small Industrial Power for FY 2017-18.

#### **Public Lighting**

- 4.24 The consumption of energy by Public Lighting constitutes less than 1% of total sales in FY 2015-16 (7.71 MU). It is observed that CAGR for past years has shown negative trend. The Commission considers that the Petitioner is in the process of replacing the inefficient lights with the LED lighting, which will reduce the energy sales for the

public lighting in its area. Thus, the Commission approves 7.40 MU sales to Public Lighting for FY 2017-18 considering the 3 year CAGR of (-)2.07% on the actual sales of FY 2015-16 for projecting sales in FY 2017-18.

#### Delhi Metro Rail Corporation (DMRC)

- 4.25 The consumption of energy by DMRC constitutes about 3% of total sales in FY 2014-15. The Petitioner has projected the sales at the same level of FY 2015-16.
- 4.26 The Commission inquired from DMRC about its projected quantum of sales in the Petitioner's area of supply. DMRC vide its letter No. DMRC/DE/DERC/Tariff/17 dated 08.05.2017 has intimated the projected purchase of 47.22 MU during FY 2017-18 from the Petitioner. Thus, the Commission has considered the quantum of sale at 47.22 MU for the Petitioner as projected by DMRC for FY 2017-18.

#### Other Categories

- 4.27 Other categories consist of enforcement, temporary connections etc. The sales for FY 2015-16 are 10.92 MU. The Commission has considered 5 year CAGR of 2.83% on the actual sales of FY 2015-16 for projecting sales in FY 2017-18 and accordingly approves 11.55 MU sales to Small Industrial Power for FY 2017-18.

#### Approved Sales for FY 2017-18

- 4.28 The energy sales for FY 2017-18 as approved by the Commission are as shown in the following Table:

**Table 54 : Category-wise Energy Sales approved by the Commission for FY 2017-18 (MU)**

Sl. No.	Category	Petitioner's Submission	Approved
A	Domestic	258.6	252.06
B	Non-Domestic	248.42	256.18
C	Mixed Load	763.25	767.98
D	Small Industrial Power	0.05	0.06
E	Public Lighting	8.58	7.40
F	DMRC	41.84	47.22
G	Others	11.72	11.55
H	<b>Total</b>	<b>1332.45</b>	<b>1342.45</b>

#### Revenue at Existing Tariff

##### Petitioner's Submission

- 4.29 The Petitioner had estimated the Revenue at Existing Tariff (fixed and energy charges) as per the Tariff for each tariff slab approved by the Hon'ble Commission in its Tariff Order dated September 29, 2015.



- 4.30 The power factor for each tariff slab where the tariff is specified in kVA /kVAh terms has been considered at the same level as considered by the Commission in its Tariff Order dated September 29, 2015.
- 4.31 The Petitioner has projected the total billable revenue for FY 2017-18, based on the units computed from the methodology described above. The total billable revenue is exclusive of E-Tax. The category wise billable revenue for FY 2017-18 as per existing tariff is tabulated below:

**Table 55 : Category-wise Projected Revenue at Existing Tariff for FY 2017-18 (Rs. Crore)**

Sl. No.	Particulars	Fixed Charges	Energy Charges	Total Revenue
A	<b>Domestic</b>	3.03	143.36	146.39
B	Non-Domestic Low Tension (up to 140 kW/150 kVA)			
i	Single Phase	3.31	57.71	61.02
ii	Three Phase	13.03	154.29	167.32
C	<b>Mixed Load*</b>			-
i	Supply at 11 kV(HT)	43.92	442.00	485.92
ii	Supply on LT where Supply is given from NDMC Substation	0.42	3.49	3.91
iii	Supply on LT where applicant provides built up space for sub station	23.62	113.65	137.27
D	Small Industrial Power	0.00	0.04	0.04
E	Public Lighting	-	6.69	6.69
F	Others	0.08	0.04	0.12
G	DMRC	1.33	28.36	29.69
H	Temporary	0.30	9.32	9.62
I	<b>Total</b>	<b>89.05</b>	<b>958.94</b>	<b>1,047.99</b>

*\*Mixed Load includes Non-Domestic LT above 140 kW/ 150 kVA and Non-Domestic HT*

### Commission's Analysis

- 4.32 As per two-part tariff principle followed in the NCT of Delhi, the tariff for each category consists of fixed charges as well as Energy Charges. The fixed charges are specified for different categories as a fixed amount per month, or as a fixed amount per kW of connected load per month. The Energy Charges on the other hand are always usage-based and are specified per unit of electricity consumed.
- 4.33 The Power Factor considered by the Commission for different categories is as follows:

**Table 56: Power Factor considered by the Commission for FY 2017-18**

Sl. No.	Consumer Slab	Power Factor
A	Non Domestic Low Tension (NDLT)	
i	Up to 10 kW	0.89
ii	10-100 kW	0.93
iii	Above 100 kW	0.93
B	Non Domestic High Tension (NDHT)	0.95
C	Small Industrial Power (SIP)	
i	10-100 kW	0.91
ii	Above 100 kW	0.93
D	DMRC	1.00

4.34 Taking into account the sales, number of consumers and sanctioned load approved for each tariff category for FY 2017-18, the Commission has projected revenue at existing tariff at Rs. 946 Crore excluding Electricity Duty. The Collection Efficiency as per the Delhi Electricity Regulatory Commission Business Plan Regulations, 2017 is 99.50%. The category wise estimated revenue for FY 2017-18 is shown in the table below:

**Table 57 : Revenue estimated by the Commission for FY 2017-18 at the Existing Tariff (Rs. Cr)**

Sl. No.	Category	Fixed Charges	Energy Charges	Total Revenue
A	Domestic	2.97	93.80	96.77
B	Non-Domestic	6.01	578.01	584.01
C	Small Industry Power	-	0.05	0.05
D	Public Lighting	-	5.40	5.40
E	DMRC	0.12	28.80	28.92
F	Others	-	13.87	13.87
G	<b>Total</b>	<b>11.00</b>	<b>935.00</b>	<b>946.00</b>

**Distribution Loss****Petitioner's Submission**

4.35 The Petitioner has envisaged a distribution loss reduction during FY 2017-18, considering the impact of the expenditure incurred/incurred towards strengthening of the distribution system. The Petitioner also envisages the accounting of the energy consumed by un-metered consumers. However, the Petitioner wish to emphasize that incremental loss reduction would be CAPEX intensive and difficult to achieve.

4.36 The Petitioner submits that it has projected a constant collection efficiency of 99% for the FY 2017-18, as achieving 100% collection efficiency in the retail supply business is unlikely. Therefore, based on the projected distribution loss and 99%

collection efficiency, the AT&C loss for FY 2017-18 is tabulated in the table below:

**Table 58: AT&C Loss for FY 2017-18**

Sl. No.	Particulars	FY 2017-18
A	Distribution Loss (%)	9.90%
B	Collection Efficiency (%)	99.00%
C	AT&C losses (%)	10.80%

### Commission's Analysis

4.37 The Derc (Terms and Conditions for Determination of Tariff) Regulations, 2017 provides as follows:-

*“(9) The AT&C Loss shall be the relationship between Distribution Loss and Collection Efficiency computed as per the following formula:*

$AT\&C\text{Loss} = [1 - (1 - \text{Distribution Loss}) * \text{Collection Efficiency}] * 100$   
where,

*AT&C Loss, Distribution Loss and Collection Efficiency are in (%) percentages*

*(10) Any units assessed and billed on account of theft shall only be considered in the year of its realization as specified in the Section 126 (6) of the Act;*

*(11) Collection Efficiency shall be measured as ratio of total revenue realised to the total revenue billed in the same year:*

*Provided that Revenue Realised or Revenue Billed on account of electricity duty, late payment surcharge, any other surcharge shall be excluded from the computation of Collection Efficiency;*

*(12) Distribution Loss shall be measured as the difference between the Energy units input into the distribution system for sale to all its consumer(s) and the total Energy units billed in its Licensed area in the same year;”*

4.38 Accordingly, the Commission has considered the Distribution Loss target and Collection efficiency for FY 2017-18 as specified in Delhi Electricity Regulatory Commission Business Plan Regulations, 2017 as tabulated below:

**Table 59 : Distribution Loss target and collection efficiency for FY 2017-18 (%)**

Particulars	Now approved
Distribution Loss target	10.30%
Collection efficiency	99.50%

### Energy Requirement

#### Petitioner's Submission

4.39 Based on the projected energy sales and Distribution Loss for FY 2017-18, the energy requirement for the Petitioner is submitted as under:

**Table 60: Energy Requirement Projections for FY 2017-18**

Sl. No.	Particulars	UoM	FY 2017-18
A	Energy Sales	(MU)	1,332.45
B	Distribution Loss	(%)	9.90
C	Distribution Loss	(MU)	146.41
D	Energy Required at Distribution Periphery	(MU)	1,478.86

**Commission's Analysis**

4.40 The Commission has computed the energy requirement for FY 2017-18 based on the approved energy sales as follows:

**Table 61 : Approved Energy Requirement for FY 2017-18**

Sl. No	Particulars	UoM	Approved Energy Requirement	Reference
A	Energy sales	MU	1,342.45	Table- 54
B	Distribution Loss	%	10.30%	
C	Energy requirement	MU	1496.60	$C=A/(1-B)$
D	Distribution Loss	MU	154.15	C-A

**Power Purchase Quantum****Petitioner's Submission**

4.41 The energy requirement for the Petitioner is projected to be met from various sources namely;

- Power Purchase from Dadri Power Station.
- Power Purchase from plants located in Delhi- Badarpur Thermal Power Station, Pragati I and Pragati III (Bawana), Delhi MSW Solutions Ltd. and Elephant Energy Pvt. Ltd. It may be noted that the power purchase from Delhi MSW Solutions Ltd. is envisaged on account of Hon'ble Commission's Order.
- Besides, the Petitioner had also envisaged power purchase from Odisha UMPP and RAPP.
- Sale / Purchase from Short-Term, Bilateral and Inter-DISCOM sources.

4.42 The Petitioner's allocation from various power stations from which it sources power is given in the table below:

**Table 62: Energy Availability Assumptions**

Sl. No.	Power Plant	Total Installed Capacity (MW)	% Share	Available Share (MW)	NDMC Share as per Availability (MW)
A	NTPC - Badarpur TPS	705.00	17.73%	451.21	80.00
B	NTPC - Dadri TPS	840.00	14.88%	840.00	125.00
C	Pragati Power Corp I	330.00	30.30%	99.00	30.00

Sl. No.	Power Plant	Total Installed Capacity (MW)	% Share	Available Share (MW)	NDMC Share as per Availability (MW)
D	PPCL III	1,371.20	7.30%	1,371.20	100.10
E	Delhi MSW Solutions*	24.00	5.09%	24.00	1.22
F	Elephant Energy	1.70	100%	1.70	1.70
G	Odisha UMPP				7.00
H	RAPP				50.00

\* As per DERC's Interim Order dated 29.04.2016 in Petition No. 27/2016

4.43 For meeting the supply-demand gap during the peak hours, the Petitioner projects to rely upon Short-Term, Bilateral and Inter-Discom power purchase. Detailed methodology of projecting the power availability from various sources is detailed below.

4.44 The Petitioner has considered average PLF of past 5 years, i.e. FY13 to FY17 (till January 2017), of the allocated generating units as per Central Electricity Authority (CEA) Reports and auxiliary consumption Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014 for Dadri TPS, Badarpur TPS, Pragati I and III. The PLF has dropped considerably since FY15 for Dadri, BTPS and Pragati Stations. Therefore, in order to reflect the recent scenario, both five year CAGR as well as FY17 PLF levels have been considered for making the projections of energy availability from Badarpur TPS, Dadri TPS, Pragati I and III. For Odisha Ultra Mega Power Project (UMPP) and Rajasthan Atomic Power Project (RAPP), standard PLF of 85% has been considered. The Auxiliary consumption has been considered as per the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014. Regarding Delhi MSW Solutions Ltd plant at Bawana and Elephant Energy Pvt. Ltd. at New Delhi, the Petitioner had considered an average PLF of 75% and auxiliary consumption of 15% in accordance with CERC RE Tariff Regulations, 2012, which has been adopted by the Commission while approving tariff for the same. While, for Small Hydro, the Petitioner had considered an average capacity utilisation factor (CUF) of 30% and auxiliary consumption of 3% and for Solar PV, the Petitioner had considered an average CUF of 18% and no auxiliary consumption. The following table summarizes the PLF and Auxiliary consumption assumptions considered for computing energy availability for the Petitioner.

**Table 63: PLF and Auxiliary Consumption Assumptions**

Sl. No.	Power Plant	Average PLF 5 Year	Average PLF 4 Year	Average PLF 3 Year	PLF /CUF Considered	Auxiliary Consumption
<b>Conventional</b>						
A	NTPC - Badarpur TPS	41%	47%	53%	25%	8.50%
B	NTPC - Dadri TPS	66%	70%	73%	60%	9.00%
C	Pragati Power Corp I	61%	67%	71%	60%	3.00%
D	PPCL III	16%	13%	14%	15%	3.00%
E	UMPP Orissa				85%	6.50%
F	RAPP				85%	8.50%
<b>Non Solar</b>						
G	Small Hydro				30%	3.00%
H	Delhi MSW Solutions				75%	15.00%
I	Elephant Energy				75%	15.00%
<b>Solar</b>						
J	Grid Connected				18%	0.00%
K	Net Metered				18%	0.00%
L	MNRE				18%	0.00%
M	MPUVNL				18%	0.00%

4.45 Energy availability has shown a substantial rise over the years and this has helped the Petitioner meet its peak power requirements comfortably. But, the last three years have witnessed a fall in PLF for the generating stations from which the Petitioner is presently procuring power. This has been taken into account for all projections made for FY 2017-18. The Petitioner is positive that the shortfall in individual months shall be met from the power purchase agreements with Small Hydro Plants during the FY 2017-18. Further, the Petitioner has also been directed by the Commission to execute PPA with Delhi MSW Solutions Ltd, Bawana in lines with the provisions of Tariff Policy 2016, which mandates all Discoms to procure power from Municipal Solid Waste based power plants at a tariff determined by the appropriate Commission. The Petitioner also submits that it may resort to other Banking and bilateral arrangements along with Short Term power sources to meet the energy deficits as and when required.

4.46 For FY 2017-18, inter-Discom purchases are assumed to be zero and surplus energy is sold by the Petitioner under bilateral arrangement, IEX, UI and to other Discoms in Delhi. The Petitioner submits to the Commission to approve the cost of Short Term purchases during True-up for the respective periods. The Petitioner had submitted to the Commission to approve the Power Purchase quantum projected for the Period as

presented in the table below.

**Table 64: Energy Availability Projections for FY 2017-18**

Particulars	UoM	FY 2017-18
Energy Availability		
Dadri TPS	MU	597.87
Odisha UMPP	MU	48.73
Rajasthan Atomic Power Project (RAPP)	MU	340.65
PGCIL Transmission (inter-state) losses (%)	%	3.50%
Power at Delhi periphery from Dadri TPS	MU	576.94
Power at Delhi periphery from UMPP Orissa	MU	47.03
Power at Delhi periphery from RAPP	MU	328.73
Power at Delhi periphery from CGS	MU	952.70
Badarpur TPS	MU	160.31
Pragati Power I	MU	152.95
PPCL – III	MU	127.59
Non-Solar RPO		
Small Hydro (net of inter-state losses)	MU	6.81
Delhi MSW Solutions	MU	135.30
Elephant Energy	MU	9.49
Solar RPO		
Grid Connected	MU	3.94
Net Metered	MU	4.42
MNRE	MU	39.42
MPUVNL	MU	39.42
Purchase/ (Sale) from Short Term Sources (Balancing Figure)	MU	(143.07)
Gross Power Purchase Quantum (including Short Term Power Purchase)	MU	1,489.28
DTL Transmission (intra-state) losses	%	0.01
Energy Available / Required at NDMC periphery for Retail Sale	MU	1,478.86

### Commission's Analysis

- 4.47 The Commission had directed SLDC to provide the availability of power at Discom Periphery for DISCOMs in Delhi from various Central, State and other generating stations from which DISCOMs in Delhi propose to purchase power for FY 2017-18.
- 4.48 The energy available to the Petitioner based upon the information provided by the SLDC vide email dated 24.07.2017 to the Petitioner as shown below:

**Table 65: Energy available for FY 2017-18 (MU)**

Sl. No	Power Generating Stations	Energy Scheduled
A	Badarpur TPS	283.20
B	NCPP - Dadri	447.30
C	Pragati - I	469.54

Sl. No	Power Generating Stations	Energy Scheduled
D	PPS -III, Bawana	150.64
E	Delhi MSW Solutions	5.66
	Total	1356.34

- 4.49 The Petitioner has envisaged power purchase from Odisha UMPP and RAPP etc., however the Petitioner has not taken any approval of PPAs from the Commission. Hence the same has not been presently considered by the Commission.

#### Re-allocation of Power among Delhi Distribution Licensees

- 4.50 The Commission has analyzed the power availability from various generating stations to Delhi vis-a-vis sales projection of all Delhi DISCOMs and it was observed that there is deficit in power availability of NDMC during FY 2017-18. NDMC had projected to purchase 183.25 MU under short term purchase to meet the demand in its area during September'17 to March '18.
- 4.51 Further, TPDDL had requested for re-allocation of power from various generating stations to the commission. A meeting was held on 29/11/2016 in the office of the commission on the proposal for reallocation of share among Delhi DISCOMs for Dadri - 1, Dadri – 2 & APCPL.
- 4.52 The Commission has specified in its Regulation 121 (4) of Tariff Regulations, 2017 regarding re-allocation of power as follows:

*“ 4) The gap between average Power Purchase Cost of the power portfolio allocated and average revenue due to different consumer mix of all the distribution licensee: Provided that the Commission may adjust the gap in power purchase cost by reassigning the allocation of power amongst the distribution licensees out of the overall power portfolio allocated to the National Capital Territory of Delhi by Ministry of Power, Government of India.”*

- 4.53 Accordingly, the Commission has decided to reassign the allocation of power amongst the Distribution Licensees out of the overall power portfolio allocated to the National Capital Territory of Delhi as follows:

**Table 66: Re-allocation of Power effective September 2017 onwards**

Sr. No.	Generating Station	From DISCOM	To DISCOM	Remarks
A	ARAVALI POWER CORPORATION LTD	BRPL	TPDDL	100% from Sept'17 onwards
B	NCPP – DADRI	TPDDL	BRPL	100% from Sept'17 onwards



Sr. No.	Generating Station	From DISCOM	To DISCOM	Remarks
C	DADRI EXTENSION	TPDDL	BRPL	100% from Sept'17 onwards
D	SALAL	TPDDL	BRPL	100% from Sept'17 onwards
E	RIHAND-III	TPDDL	BRPL	50% from Sept'17 onwards
F	RIHAND-III	TPDDL	BYPL	50% from Sept'17 onwards
G	GTPS	BRPL	NDMC	80% from Sept'17 to March'18
H	SASAN UMPP	TPDDL	BRPL	90% from Sept'17 to March'18

4.54 Accordingly, the power purchase allocation from various sources considered for NDMC is as follows:

**Table 67: Power Allocation for FY 2017-18 approved by the Commission**

Sl. No	Power Generating Stations	Installed Capacity (MW)	NDMC Share (%)	NDMC (MW)	MUs
A	Badarpur TPS	705.00	17.73	125.00	283.20
B	NCP - Dadri	840.00	14.88	124.99	447.30
C	Pragati - I	330.00	30.30	99.99	469.54
D	PPS -III, Bawana	1,371.20	7.30	100.10	150.64
E	Delhi MSW Solutions	24.00	5.09	1.22	5.66
F	GTPS	270.00	35.14	94.87*	183.25
G	Total	3,270.20		546.17	1539.59

\* from SEPTEMBER 2017 ONWARDS

#### Power Purchase Cost

##### Petitioner's Submission

4.55 To project the power purchase cost for FY 2017-18, the actual rate of power purchase for FY 2016-17 has been considered. The total power purchase cost of the Petitioner for FY 2017-18 consists of power purchase cost from various sources and transmission charges payable to PGCIL/DTL and other charges payable to SLDC/RLDC.

**Table 68: Power Purchase Cost from various sources for FY 2017-18**

Sl. No.	Stations	Energy (MU)	Cost (Rs. Crore)	Avg Rate (Rs./kWh)
A	Dadri	597.87	283.75	4.75
B	UMPP Orissa	48.73	18.06	3.71
C	RAPP	340.65	109.01	3.20
D	BTPS	160.31	123.79	7.72
E	Pragati Power-I	152.95	55.07	3.60
F	Pragati Power-III	127.59	51.37	4.03

Sl. No.	Stations	Energy (MU)	Cost (Rs. Crore)	Avg Rate (Rs./kWh)
G	Gross Power Purchase	1,428.10	641.05	4.49
H	Power from RE	144.79	54.03	3.73
I	Power from Waste to Energy	6.81	4.79	7.03
J	Power from Solar	87.20	39.24	4.50
K	<b>Grand Total</b>	<b>1,666.90</b>	<b>739.11</b>	<b>4.43</b>

### Commission's Analysis

- 4.56 The Commission has considered the actual energy charge rate for first quarter FY 2017-18 (April – June) based on the power purchase bills raised by the Gencos to the Petitioner for computation of energy charges. Further, for fixed cost, the Commission has considered that the Generation Tariff Orders of CERC/DERC for CSGS/SGS.

**Table 69: Power Purchase Cost from various sources for FY 2017-18**

Sl. No	Power Generating Stations	MU	Fixed Charges (Rs. Cr.)	Energy Charges (Per Unit)	Energy Charges (Rs. Cr.)	Total Charges (Rs. Cr.)	Avg. Rate
A	Badarpur TPS	283.20	33.01	3.78	107.14	163.72	5.78
B	NCPP - Dadri	447.30	68.73	3.18	142.08	210.81	4.71
C	Pragati - I	469.54	52.65	2.79	126.21	155.09	3.30
D	PPS -III, Bawana	150.64	74.57	2.28	34.39	108.96	7.23
E	Delhi MSW Solutions	5.66		7.03	3.98	3.98	7.03
F	GTPS	183.25	35.17	2.66	25.24	51.34	2.80
G	Total Cost	1539.59	264.12		439.04	693.90	

### Renewable Power Purchase Obligation (RPO)

#### Solar

#### Petitioner's Submission

- 4.57 The Petitioner has projected solar power purchase from various sources including MPUVNL and MNRE, which would be sufficient to meet the existing RPO targets specified by the Commission and hence the Petitioner had not projected any REC purchase for FY 2017-18.

**Table 70: Solar RPO for FY 2017-18**

Sl. No.	Particulars	UoM	FY 2017-18
A	Energy Sales	MU	1,332.44
B	RPO target – Solar	%	0.35
C	RPO target- Solar	MU	4.66
D	Availability from Solar	MU	87.20
E	Required to be met through RECs	MU	-

**Non Solar****Petitioner's Submission**

- 4.58 The Petitioner had projected Non-Solar power purchase from various sources including Small Hydro Projects, Delhi MSW Solutions Ltd. and Elephant Energy Pvt. Ltd., which would be sufficient to meet the existing RPO targets specified by the Commission and hence the Petitioner has not projected any REC purchase for FY 2017-18.

**Table 71: Non-Solar RPO for FY 2017-18**

Sl. No.	Particulars	UoM	FY 2017-18
A	Energy Sales	MU	1,332.44
B	RPO target – Non Solar	%	9
C	RPO target- Non Solar	MU	115.26
D	Availability from Non Solar	MU	151.60
E	Required to be met through RECs	MU	-

**Commission's Analysis**

- 4.59 The Commission has notified the Business Plan Regulations, 2017 for the period of 3 years i.e., for FY 2017-18, FY 2018-19 and FY 2019-20. In the said Regulations, the Commission has specified RPO targets for the Petitioner for FY 2017-18 as indicated in the table as follows:

**Table 72: Targets for Renewable Power Purchase Obligation**

Sr. No.	Distribution Licensees	FY 2017-18
A	Solar Target (Minimum)	4.75%
B	Total	14.25%

- 4.60 As per the above said Business Plan Regulations, 2017, the Distribution Licensees have to purchase 14.25% of total energy sales approved by the Commission during FY 2017-18 from renewable energy sources including 4.75% from solar sources.
- 4.61 The Commission has approved the total energy sales of 1342.45 MU in FY 2017-18 for the Petitioner. Based on the sales approved, the Petitioner has to purchase from Renewable Energy Sources for FY 2017-18 indicated in the table as follows:

**Table 73: Procurement from Renewable Energy under RPO**

Power Source	Approved Energy Sales (MU)	% of Total Energy Sales Approved in Regulations	Renewable Energy to be procured (MU)
Solar	1342.45	4.75%	63.77
Non Solar		9.50%	127.53
<b>Total</b>			<b>191.30</b>

- 4.62 The Commission has noted that the Petitioner has projected generation of 6.81 MU waste to energy power from Delhi MSW Solutions for FY 2017-18. The SLDC vide email dated 24.07.2017 has projected 5.66 MU from Delhi MSW Solutions for FY 2017-18. The Commission has considered 5.66 MU as per information provided by the SLDC. In case the Petitioner is not able to procure additional power from RE sources to meet RPO obligation, the Petitioner has to purchase the RECs.
- 4.63 The Commission has noted that the Petitioner has reconciled its purchase from various Renewable Energy Sources with SLDC which has been submitted by SLDC to the Commission vide its letter dated 21/07/2017. The total requirement for RPO compliance is more than the quantum of power available to the Petitioner from various Renewable Energy Sources.
- 4.64 CERC has fixed Floor Price and Forbearance Price for Non-Solar and Solar RECs for FY 2017-18 vide its order dated 30/03/2017 indicated in the table as follows:

**Table 74: Floor and Forbearance Price for Non-Solar and Solar RECs**

Sr. No	Particulars	Floor Price	Forbearance Price
A	Non-Solar	Rs. 1000/MWh	Rs. 3000/MWh
B	Solar	Rs. 1000/MWh	Rs. 2400/MWh

- 4.65 Further, Hon'ble Supreme Court of India has stayed the above mentioned Order of CERC vide its Order dated 08/05/2017 in Civil Appeal No. 6083/2017 and 6334/2017. Subsequently, Hon'ble Supreme Court of India in its Order dated 14/07/2017 has vacated the stay on trading of Non-Solar RECs at the Floor price prevalent earlier subject to pending Appeal No. 105/2017 before the Hon'ble APTEL. However, the obligated entities/Power Exchanges shall deposit the difference between Floor price prevalent earlier and Floor price as determined by CERC in its Order dtd. 30/03/2017 with the CERC. There is no vacation of stay on trading of Solar RECs.
- 4.66 In view of above, the Commission has considered the Floor Price of Non-Solar REC as approved earlier by CERC i.e., Rs. 1500/MWh on provisional basis subject to the outcome of Appeal No. 105/2017 filed before the Hon'ble APTEL. Further, due to stay on Solar REC trading, the Commission has considered the rate of Solar Energy for the purpose of RPO compliance at differential rate (Rs. 2.50/kWh) of PPA with SECI (Rs. 5.50/kWh) and rate of sale of Surplus Power (Rs. 3.00/kWh).

4.67 It may be mentioned that the Forbearance price approved by CERC for Solar REC is Rs. 2400/MWh in its Order dtd. 30/03/2017 which is presently stayed by Hon'ble Supreme Court of India. Since, the Petitioner when procures power from Solar Energy sources to meet its RPO then it will have to back down the Generating stations which has highest variable cost i.e., NCPP-Dadri. Accordingly, the Commission has allowed the rate of Solar Energy to the Petitioner at Rs. 5.50/kWh i.e., around Rs. 2.40/kWh over and above the variable cost of NCPP-Dadri which is Rs. 3.18/kWh.

4.68 The cost of Renewable Energy/RECs to be purchased by the Petitioner for FY 2017-18 is given in the Table as follows:

**Table 75 Approved Cost of Power purchase to meet RPO**

Sr. No.	Sources of Renewable Energy	Quantity to be Purchased (MU)	Average Rate (Rs/kWh)	Total Cost (Rs. Crore)
<b>SOLAR</b>				
1	Own Solar	0.00	5.50	0.00
2	Solar (SECI)	0.00	5.50	0.00
3	Balance Solar Energy to be purchased	63.77	2.40	15.30
4	<b>Sub Total</b>	63.77		15.30
<b>NON SOLAR</b>				
5	TOWMCL	-	-	-
6	MSW Bawana	5.66	7.03	3.98
7	East Delhi MSW	0.00	0.00	0.00
8	Balance Non Solar RECs to be purchased	121.87	1.50	18.28
9	<b>Sub Total</b>	127.53		22.26
10	<b>TOTAL RPO</b>	<b>191.30</b>		<b>37.56</b>

4.69 The Commission approves the purchase cost to the extent of Rs. 37.56 Crore for the Petitioner to meet the Renewable Power Purchase Obligation for FY 2017-18. The Commission directs that the Petitioner should endeavour to procure actual Renewable Energy for FY 2017-18 instead of purchasing RECs in order to meet its total RPO. The Commission has not considered the Renewable Energy generation under Net Metering arrangement and, the same shall be considered at the time of true-up.

### Transmission Losses and Charges

#### Petitioner's Submission

4.70 The Petitioner has projected Transmission Charges considering interstate transmission losses as 3.50% and intra state transmission losses as 0.70%. The Inter-

State and Intra-State transmission charges for FY 2017-18 have been projected at an increased rate of 10% and 5% respectively with respect to transmission charges calculated for FY 2016-17.

**Table 76: Transmission Losses and Charges for FY 2017-18 (in MU)**

Sl. No.	Particulars	FY 2017-18
A	Transmission Losses (MU)	
B	Inter State Transmission (MU)	34.55
C	Intra State Transmission (MU)	11.67
D	<b>Total Transmission Losses (MU)</b>	46.22
E	Transmission Charges (Rs. Crore)	
F	Inter-State Transmission (Rs. Crore)	31.48
G	Intra State Transmission Charges (Rs. Crore)	64.56
H	<b>Total Transmission Charges (Rs. Crore)</b>	96.05

### Commission's Analysis

#### Transmission Loss and Charges

##### Intra-State and Interstate Losses

- 4.71 The Commission has considered the Intra-State Transmission losses at 0.98% for FY 2017-18 based on actual transmission losses of DTL for FY 2016-17 as certified by SLDC. The Commission has considered the Inter-State Transmission loss at 1.42% for FY 2017-18 based on point of Connection losses for Northern Region as approved by NLDC for the period 2nd fortnight of November 2016.

#### Transmission Charges

- 4.72 The Inter State and Intra State Transmission Losses and Charges as approved by the Commission for FY 2017-18 are summarized in the table as follows:

**Table 77 Transmission Losses and Charges for FY 2017-18 approved by the Commission**

Sl. No.	Particulars	UoM	Approved
A	Transmission losses		
B	Inter-State Transmission (PGCIL)	MU	6.35
C	Intra-State Transmission (DTL)	MU	14.81
D	Total Transmission Losses	MU	21.16
E	Transmission Charges		
F	Inter-State Transmission (PGCIL)	Rs.Cr.	31.48
G	Intra-State Transmission (DTL) (including SLDC)	Rs.Cr.	43.94
H	SLDC Charges	Rs.Cr.	0.62
I	Total Transmission Charges	Rs.Cr.	76.04

**Energy Balance****Petitioner's Submission**

- 4.73 The following table shows the projected energy balance arrived for FY 2017-18 after considering the projected sales, AT&C loss levels, transmission losses, power purchase and sale of surplus power.

**Table 78: Energy Balance Projections for FY 2017-18 (in MU)**

Sl. No.	Particulars	FY 2017-18
A	<b>Energy Requirement</b>	
B	Energy Sales	1,332.45
C	Distribution Loss (%)	9.90%
D	Distribution Loss (MU)	146.41
E	<b>Energy Required at Distribution Periphery</b>	<b>1,478.86</b>
F	<b>Energy Availability</b>	
G	Power Purchase from CGS outside the State	952.70
H	Power Purchase from within the State	440.84
I	Renewable Energy Procurement for Non-Solar RPO (including MSW)	151.60
J	Renewable Energy Procurement for Solar RPO	87.20
K	Purchase/ (Sale) from Short Term and Bilateral Sources	(143.07)
L	<b>Gross Power Purchase Quantum</b>	<b>1,489.28</b>
A	DTL Transmission losses (%)	0.70%
B	<b>Energy Available</b>	<b>1,478.86</b>

**Commission's Analysis**

- 4.74 The Commission has computed the energy requirement for FY 2017-18 as per the approved sales of 1496.60 MU. The Distribution Loss is considered as per DERC (Business Plan Regulations) 2017 for FY 2017-18 i.e. 10.30%.

**Table 79: Energy Balance for FY 2017-18**

Sl. No.	Particulars	Unit	FY 2017-18
	<b>Energy Availability</b>		
A	Total energy available (Excluding BTPS, SGS & RE Plants)	MU	447.30
B	Inter-State Transmission Losses	%	1.42%
		MU	6.35
C	Energy available from BTPS, SGS & RE Plants	MU	1092.29
D	Additional RE to meet RPO	MU	0

Sl. No.	Particulars	Unit	FY 2017-18
E	Energy available at State Transmission Periphery (1-2+3)	MU	1533.24
F	Energy Requirement		
G	Energy sales	MU	1,342.45
H	Distribution loss	%	10.30%
		MU	154.15
I	Energy requirement at distribution periphery	MU	1496.60
J	Intra-State transmission loss	%	0.98%
		MU	14.81
K	Energy Requirement at State Transmission Periphery	MU	1511.41
L	Surplus energy (4-9)	MU	21.83

### Sale of Surplus Power

#### Petitioner's Submission

- 4.75 The Petitioner had projected the rate of sale of surplus power at Rs. 2.00/kWh. The following table represents the rate of sale of surplus power for FY 2017-18.

**Table 80: Sale of Surplus Power for FY 2017-18**

Sl. No.	Particulars	Energy (MU)	Average Price (Rs./kWh)	Total Cost (Rs. Crore)
1	Surplus Power	143.07	2.00	28.62

#### Commission's Analysis

- 4.76 The quantum of surplus Power of 21.83 MU has been computed as per approved energy balance. The Commission has considered rate of surplus power at Rs.3.0/kWh which is the weighted average rate of short term sale of DISCOMs for past three years.
- 4.77 Accordingly, the Commission approves total sale of surplus power indicated in the table below:-

**Table 81: Approved sale of surplus power for FY 2017-18**

Particulars	Energy (MU)	Average Price (Rs./kWh)	Total Cost (Rs. Crore)
Surplus Power	21.83	3.00	6.55



**Rebate on Power Purchase and Transmission Charges****Petitioner's Submission**

4.78 The rebate is calculated at the rate of 2% owing to prompt payments made by the Petitioner towards Power Purchase cost and Transmission Charges

**Table 82: Rebate on Power Purchase and Transmission Charges for FY 2017-18**

Sl. No.	Particulars	Amount (Rs. Crore)
A	Power Purchase Cost	
i	Cost of Power Purchased	739.11
ii	Rate of Rebate (%)	2%
iii	Net Power Purchase Cost	724.32
B	Transmission Cost	
i	Cost of Transmission	96.05
ii	Rate of Rebate (%)	2%
iii	Net Transmission Cost	94.13

**Table 83: Power Purchase Cost for FY 2017-18**

Particulars	Quantity (MU)	Amount (Rs. Crore)
<b>Energy Availability</b>		
Power Purchase from NTPC Dadri, UMPP Odisha and RAPP	987.26	410.82
PGCIL Transmission (inter-state) losses (%)	3.50%	31.48
<b>Power at Delhi periphery from CGS</b>	952.70	442.30
Power Purchase from SGS (including Renewable)	679.64	328.29
Intra State Loss and Charges including SLDC Charges	10.42	64.56
Power Purchase from DISCOM	1,621.92	
Sales	1,332.44	
Distribution Loss	9.90%	
Required Power for the DISCOM	1,478.84	
Purchase/ (Sale) from Short Term Sources (Balancing Figure)	(143.08)	(28.62)
Gross Power Purchase Quantum (including Short Term Power Purchase)	1,621.92	
DTL Transmission (intra-state) losses (%)	0.70%	
<b>Energy Available / Required at NDMC periphery for Retail Sale</b>	<b>1,610.57</b>	<b>806.54</b>

**Commission's Analysis**

4.79 The Commission has considered Power Purchase Rebate @ 2% of the gross power purchase cost and Transmission Rebate @ 2% of the total Transmission cost for projection of the normative rebate on the power purchase cost:

**Table 84: Rebate on Power purchase and Transmission Charges approved for FY 2017-18**

Sl. No	Particulars	Total Amount (Rs. Crore)	Rebate (%)	Amount of Rebate (Rs. Cr.)
A	Power Purchase Rebate	693.90	2%	13.88
B	Transmission Charges Rebate	83.35	2%	1.67
<b>C</b>	<b>Total Rebate</b>	<b>777.25</b>		<b>15.54</b>

**Total Power Purchase Cost**

4.80 Based on the analysis above the total power purchase cost for FY 2017-18 approved by the Commission is summarized in the Table as follows:

**Table 85 : Total Power purchase Cost approved by the Commission for FY 2017-18**

Sl. No.	Source	Approved		
		Quantity (MU)	Amount (Rs. Crore)	Average cost (Rs./kWh)
A	Power Purchase from CSGS except BTPS, SGS and RE Plants	447.30	210.81	4.71
B	PGCIL Losses & Charges	6.35	31.48	
	Power Purchase from SGS including BTPS excluding RE Plants	1086.63	516.53	
C	Renewable Energy Plants	5.66	3.98	
D	Cost towards Renewable Energy Certificates		37.56	
E	Power Available at Delhi Periphery	1533.24	762.80	4.53
F	DTL Loss & Charges including pension trust charges and SLDC Charges	14.81	43.94	
G	Power Purchase Rebate @ 2%		14.63	
H	Rebate on Transmission Charges @ 2%		1.50	
	Power Available to DISCOM	1518.43	790.62	4.82
I	Sales	1342.45		
J	Distribution Loss	154.15		
K	Net Power Purchase cost including transmission charges and RPO	1496.60	821.63	4.84
L	Net Surplus Power	21.83	6.55	3.00

**Operation and Maintenance Expenses****Petitioner's Submission**

4.81 The Petitioner has projected the O&M expenses as per the methodology specified in the DERC (Terms and Conditions for Determination of Tariff) Regulations 2017. The Regulations specify:

*"92. Normative Operation and Maintenance expenses of a Distribution Licensee shall consist of:*

*a) Employee Expenses,*

b) *Administrative and General Expenses; and*

c) *Repair and Maintenance Expenses.*

93. *Normative Operation and Maintenance expenses of a Distribution Licensee for a Control Period shall be derived on the basis of audited Operation and Maintenance expenses for last five (5) completed Financial Years vis-à-vis normative Operation and Maintenance expenses allowed by the Commission during the corresponding period based on the following parameters:*

a) *Load growth,*

b) *Consumer growth,*

c) *Commercial loss,*

d) *Distribution loss,*

e) *Inflation,*

f) *Efficiency,*

g) *Capital base and,*

h) *Any other factor."*

4.82 The Petitioner has submitted individual projections of its Employee Expenses, Repairs and Maintenance (R&M) Expenses and Administrative and General (A&G) Expenses based on the approved figures in True-up Orders of FY 2011-12, FY 2012-13 and FY 2013-14, while the values for FY 2014-15 and FY 2015-16 are taken from approved ARR Orders. The Petitioner being local authority exempted from Licensee fee paid to DERC.

4.83 All three components of Operation and Maintenance (O&M) Expenses, i.e., Employee Expenses, R&M Expenses and A&G Expenses are projected for future years based on the average yearly growth of CPI and WPI for the previous years including FY 2016-17 (WPI till Feb 2016-17 and CPI till Jan 2016-17).

4.84 The Petitioner submitted that the average inflation rate determined as per the DERC Wheeling and Retail Tariff Regulations, 2011 set by the Commission is around 5.92%. The Petitioner has taken a more conservative approach towards the escalation factor and therefore has assumed the O&M expenses to escalate at 3.00% per annum to project O&M Expenses for FY 2017-18. However, as per the Regulation 93 of DERC Tariff Regulation 2017, the O&M expenses are to be derived on the basis on audited O&M expense for last 5 completed financial years vis-à-vis normative O&M expenses allowed by the Commission during the corresponding period; therefore, the Petitioner has considered O&M expenses for last 5 completed financial year FY 2011-12 to FY 2015-16, with FY 2015-16 as base year for the projection of O&M expenses for FY 2017-18. the escalation factor based on actual CPI and WPI indices may be considered by the Commission at the time of True-up.

**Table 86: Escalation Factor for O&M Expenses**

Financial Year	CPI	WPI	Overall Index	% Increase
FY11	185.00	143.32	166.24	
FY12	201.00	156.13	180.81	8.76%
FY13	224.00	167.62	198.63	9.86%
FY14	239.00	177.64	211.39	6.42%
FY15	254.00	181.19	221.24	4.66%
FY16	265.00	176.68	225.25	1.82%
FY17	276.20	182.92	234.22	3.98%
Escalation Factor Used				3.00%

4.85 The O&M Expenses projected for FY 2017-18 are as follows:

**Table 87: O&M Expenses Projected for FY 2017-18 (Rs. Crore)**

Sl. No.	Particulars	FY 2017-18
A	Escalation Factor	3%
B	Base A&G Costs	19.26
C	Projected A&G Costs	19.84
D	Base Employee Costs	103.56
E	Projected Employee Costs	106.67
F	Base R&M Expenses	59.23
G	Projected R&M Costs	61.01
H	<b>O&amp;M Expenses</b>	<b>187.51</b>

### Commission's Analysis

4.86 As per the Delhi Electricity Regulatory Commission Business Plan Regulations, 2017

#### **"20. OPERATION AND MAINTENANCE EXPENSES**

(1) Normative Operation and Maintenance expenses in terms of Regulation 4(3) and Regulation 92 of the DERC (Terms and Conditions for Determination of Tariff) Regulations, 2017 for the Distribution Licensees shall be as follows:

**Table 15: O&M Expenses for NDMC for the Control Period**

Particulars	FY 2017-18	FY 2018-19	FY 2019-20
66 kV Line (kms)	3.297	3.482	3.678
33 kV Line (kms)	3.297	3.482	3.678
11kV Line (kms)	0.862	0.910	0.961
LT Line system (kms.)	5.170	5.460	5.766
66/11 kV Grid substation (MVA)	0.927	0.979	1.034
33/11 kV Grid Sub-station (MVA)	0.927	0.979	1.034
11/0.415 kV DT (MVA)	1.326	1.400	1.479

"

4.87 The Petitioner has not submitted the details of network as sought by the Commission. Due to non-submission of the data by the Petitioner for determination

of O&M expenses for the Business Plan, the Commission has considered the approved O&M expenses for FY 2015-16 and applied an escalation of 5.61% on year to year basis for projecting the O&M expenses for FY 2017-18 on a provisional basis. Accordingly, the O&M expense for FY 2017-18 is approved at Rs. 183.94 crores ( $164.92 \times 1.0561 \times 1.0561$ ) provisionally.

**Table 88 : Gross O&M Expenses approved for FY 2017-18 (Rs. Crore)**

Particulars	Petitioner's Submission	Now Approved
O&M Expenses	187.51	183.94

- 4.88 Impact of any Statutory Pay revision on employee's cost as may be applicable on case to case basis shall be considered separately, based on actual payment made by the Petitioner and prudence check at the time of true up of ARR as specified in the Business Plan Regulations, 2017.

#### **Administrative Department and Civil Engineering Department Expenses**

##### **Petitioner's Submission**

- 4.89 The Petitioner had submitted that it has a separate administration department consisting of the Petitioner's Board, Finance Department, General Administration, Law Department, Public Relations, Staff & Labour Welfare, Vigilance Department, Auto Workshop, Information & Technology, Engineer-in-Chief etc. Also, there is a separate Civil Engineering Department and the services of the department are utilized for the civil works undertaken for electricity substation, lines and other electrical works. Thus, the services of the Administration & Civil Engineering Department are common to all the functions carried out by the Petitioner and the expenditure pertaining to these departments should be allocated to all functions of the Petitioner.
- 4.90 The Petitioner submits that it is in a process to segregate the Accounts of Electricity Division. This activity of segregation was assigned to SBI Caps, however, the completion of this activity has got delayed. The process of segregation of Accounts of Electricity Division is still under progress and expected to be completed shortly. Till such time the Accounts are segregated, the Petitioner has proposed to consider a provisional amount towards O&M Expenses, as approved by the Commission in the Tariff Order for FY 2014-15, dated September 29, 2015 and allow actual expenses against the same once the Accounts are segregated.

**Table 89: Allocation of Administrative and Civil Engineering Department Expenses (Rs. Crore)**

Sl. No.	Particulars	FY 2017-18
A	Allocation of Administrative Expenses to Power SBU	35.37
B	Cost of Civil Engineering Department	10.00
C	<b>Total</b>	<b>45.37</b>

### Commission's Analysis

- 4.91 The Commission had asked the Petitioner to justify in administrative and civil engineering expense considered in the petition. The Petitioner vide letter dated 18.07.2017 submitted that currently NDMC is operating as a consolidated entity with multiple departments dealing in matters relating to taxation, revenue, budgeting, contracts accounts and audits, electricity, streets and sanitation, public health, public safety and suppression of nuisances, etc. Further, Petitioner submitted that NDMC is yet to segregate the expenses in various departments on account of electricity distribution business. A study with the same to the same is being undertaken by SBI caps and results of the same may provide proper allocation of the amount that can be allocated towards electricity business of NDMC.
- 4.92 The Commission had observed in the tariff order dated 29.09.2015, that the O&M expenses per unit of the Petitioner is highest amongst the DISCOMs. Further addition of administrative and civil engineering department expenses increases the O&M expenses. Hence, in view of high O&M expenses of the Petitioner in comparison of other distribution licensee operating in the area of GoNCTD, the Commission has not considered the above cost over and above the normative O&M expenses of the Petitioner.

### Capitalisation

#### Petitioner's Submission

- 4.93 The DERC (Terms and Conditions for Determination of Tariff) Regulations 2017 specifies:

"5

...

*(16) Capital Investment Plan taking into account the sales/demand forecast, power procurement plan, distribution loss trajectory, targets for quality of supply etc.;*

*(17) The investment plan shall be scheme-wise and include:*

- a) Purpose of investment (such as replacement of existing assets, meeting load growth, technical loss reduction, reactive energy requirements, customer service improvement, improvement in quality and reliability of supply, etc),
- b) Capital Structure,
- c) Capitalization Schedule,
- d) Financing Plan,
- e) Cost-benefit analysis,
- f) Performance improvement envisaged in the Control Period,
- g) Any other factors influencing investment,
- ...”

4.94 The following table provides a summary to the envisaged investment to be incurred in FY 2017-18.

**Table 90: Capitalisation for FY 2017-18 (Rs. Crore)**

Particulars	FY 2017-18
Renovation and Modernization of 33/11 KV SS	17.62
UG Cable	16.19
Installation of Distribution Transformer	2.20
Capacity enhancement of LT substation	28.78
Capacitor Bank	0.97
Metering	26.08
Others	59.69
Capitalisation of PRE-MYT WIP	0.55
<b>Total</b>	<b>152.08</b>

#### Commission's Analysis

4.95 The Commission approves the projection of Capitalisation of Rs. 152.08 Crores for FY 2017-18. The Petitioner is directed to submit the details of the schemes in accordance with Capital Investment Guidelines.

#### Depreciation

##### Petitioner's Submission

4.96 The Petitioner submits to apply an average rate of depreciation for distribution assets @ 3.60 % for computing depreciation for FY 2017-18.

**Table 91: Projected Depreciation of Fixed Assets for FY 2017-18 (Rs. Crore)**

Sl. No	Particulars	FY 2017-18
A	Opening Balance of Fixed Assets	1,015.48
B	Addition During the year	152.08
C	Retirement during the year	-
D	<b>Closing Balance of Fixed Assets</b>	<b>1,167.56</b>
E	Opening Balance of Consumer Contribution	16.14
F	Addition during the year	-
G	<b>Closing Balance of Consumer Contribution</b>	<b>16.14</b>
H	Opening Balance of Fixed Assets Net of Consumer Contribution	999.34
I	Closing Balance of Fixed Assets Net of Consumer Contribution	1,151.42

Sl. No	Particulars	FY 2017-18
J	Average Balance of Fixed Assets Net of Consumer Contribution	1,075.38
K	Depreciation Rate (%)	3.60%
L	<b>Depreciation</b>	<b>38.71</b>

- 4.97 The Petitioner submits that the Gross Fixed Assets had been arrived on the basis of the Draft Report submitted by SBI Caps with regards to separation of assets and accounts for Electricity Distribution SBU of the Petitioner and the actual capital expenditure and capitalization for FY15 and FY16.

#### Commission's Analysis

- 4.98 The Commission has provisionally approved closing GFA of Rs. 512.70 Crore for FY 2015-16. The Commission assumes the Capitalisation for FY 2016-17 to be Rs. 20 Crore to arrive at the opening balance of GFA of the Petitioner for FY 2017-18. The Commission shall consider the amount of consumer contribution for FY 2017-18 during true up after receiving the actual audited financial statements.
- 4.99 The Commission, subject to true up, considers the Depreciation for FY 2017-18 as per the following Table:

**Table 92 : GFA and Depreciation considered for FY 2017-18 (Rs. Crore)**

Sl. No.	Particulars	As Approved
A	Opening Balance of Fixed Assets	532.70
B	Addition During the year	152.08
C	Retirement during the year	-
D	<b>Closing Balance of Fixed Assets</b>	<b>684.78</b>
E	Opening Balance of Consumer Contribution	7.80
F	Addition during the year	-
G	<b>Closing Balance of Consumer Contribution</b>	<b>7.80</b>
H	Opening Balance of Fixed Assets Net of Consumer Contribution	524.90
I	Closing Balance of Fixed Assets Net of Consumer Contribution	676.98
J	Average Balance of Fixed Assets Net of Consumer Contribution	600.94
K	Depreciation Rate (%)	3.60
L	<b>Depreciation</b>	<b>21.63</b>

#### Working Capital

##### Petitioner's Submission

- 4.100 The DERC Tariff Regulation, 2017 specified the following for computation of Working Capital.

"84.

...

(4) Distribution Licensee as follows:



(i) Working capital for wheeling business of electricity shall consist of ARR for two months of Wheeling charges.

(ii) Working capital for Retail Supply business of electricity shall consist of

(a) ARR for two months for retail supply business of electricity;

(b) Less: Net Power Purchase cost for one month;

(c) Less: Transmission charges for one month.

4.101 Accordingly, the Petitioner has computed the Working Capital as follows:

**Table 93: Projected Working Capital for FY 2017-18**

Sl. No.	Particulars	FY 2017-18
A	ARR for two months for retail supply business of Electricity	191.41
B	Less: Net Power Purchase Cost for one month	59.01
C	Less: Transmission Charges for one month	8.00
D	Working Capital	<b>124.20</b>

### Commission's Analysis

4.102 The approved Working Capital for FY 2017-18 is as follows:

**Table 94: Working Capital as approved for FY 2017-18**

Sl. No	Particulars	FY 2017-18
A	Receivables from sale of electricity	1,342.45
B	Receivables equivalent to 2 months	223.74
C	Net Power purchase expenses (including Transmission Charges, SLDC Charges, RPO and Normative Rebate)	821.63
D	Less: 1/12 <sup>th</sup> Power purchase expenses	68.47
E	Total Working Capital	155.27
F	Less: Opening WC	114.01
G	Change in Working Capital	41.26

### Non-Tariff Income

#### Petitioner's Submission

4.103 The Petitioner had proposed Non-Tariff Income for FY 2017-18 which is as follows:

**Table 95: Projected Non-Tariff Income for FY 2017-18**

Particulars	FY 2017-18
MDI	6.83
New connection/re-connection fees	8.80
Recovery of Deposit Work	0.06
<b>Total</b>	<b>15.69</b>

### Commission's Analysis

4.104 The Commission approves the NTI at Rs. 15.69 Cr for FY 2017-18.

**Return on Capital Employed****Petitioner's Submission**

4.105 For the purpose of this submission, the Petitioner is submitting the ROCE calculations in line with the tariff regulations 2011. For calculating RoCE NDMC has adopted of normative debt – equity ratio of 70:30, and calculated WACC considering return on equity at the rate of 16% and cost of debt at 11.50%. Detailed calculation of Regulated Rate Base, Change in Working Capital, WACC leading up to estimation of RoCE is shown in table below:

**Table 96: RRB for FY 2017-18 (Rs. Crore)**

Sl. No	Particulars	FY 2017-18
A	<b>RRB - Base Year</b>	
B	Opening Balance of OCFA	1,015.48
C	Opening Balance of Working Capital	112.41
D	Opening Balance of Accumulated Depreciation	541.26
E	Opening balance of Accumulated Consumer Contribution ( in proportion of OCFA to total OCFA + CWIP + Stores)	16.14
F	Regulated Rate Base (RRB)(Opening)	<b>570.49</b>
G	Capitalisation allowed during the Year	152.08
H	Depreciation	38.71
I	Consumer Contribution	-
J	Change in Working Capital	11.79
K	RRB (Closing)	672.07
L	Change in RRB ( $\Delta$ RB)	68.47
M	Regulated Rate Base (RRB)(i)	638.96

**Commission's Analysis**

4.106 The RRB has been considered based on investment capitalised, depreciation and working capital requirements for FY 2017-18 as detailed in the Table as follows:

**Table 97: RRB considered by the Commission for FY 2017-18 (Rs. Crore)**

Particulars	FY 2017-18
<b>RRB - Base Year</b>	
Opening Balance of OCFA	532.70
Opening Balance of Working Capital	114.01
Opening Balance of Accumulated Depreciation	408.98
Opening balance of Accumulated Consumer Contribution	7.80
<b>RRB - for each year</b>	
Investments in capital expenditure during the year	152.08
Depreciation for the year	21.63
Consumer Contribution, Grants, etc. for the year	-

Particulars	FY 2017-18
Change in Working Capital	41.26
RRB Opening Balance	229.93
Change in RRB	106.49
<b>Regulated Rate Base (RRBi)</b>	<b>336.41</b>

### Return on Capital Employed

#### Petitioner's Submission

4.107 The Petitioner has adopted rate of return on equity for FY 2017-18 at 16% as per DERC Tariff Regulations, 2017. Interest rate on the Debt has been taken as 10% for FY 2017-18.

**Table 98: Return on Capital Employed for FY 2017-18 (Rs. Crore)**

Sl. No.	Particulars	FY 2017-18
A	Regulated Rate Base (RRB)	638.96
B	Equity	191.69
C	Debt	447.27
D	Rate of return on Equity	16%
E	Rate of Return on Debt	10%
F	Weighted Average Cost of Capital (WACC)	11.80%
G	Return on Capital Employed (RoCE)	75.40

#### Commission's Analysis

4.108 The return on capital employed considered by the Commission based on the RRB(i) and WACC discussed above for FY 2017-18 is as given in the Table below:

**Table 99: RoCE approved for FY 2017-18**

Sl.No.	Particulars	UoM	FY 2017-18
A	RRB (i)	Rs. Cr.	336.41
B	Working Capital	Rs. Cr.	155.27
C	RRBi Excluding Working Capital	Rs. Cr.	181.14
D	Rate of Return on Equity (Re)	%	16.00
E	Rate of Return on Debt (Rd)	%	8.10
F	Return on Equity	Rs. Cr.	8.69
G	Return on Debt	Rs. Cr.	22.85
H	WACC	%	9.38
I	RoCE	Rs. Cr.	31.54

### Income Tax

#### Petitioner's Submission

4.109 The DERC Tariff Regulation, 2017 specified the following for computation of Income Tax.

**Table 100: Income Tax for FY 2017-18 (Rs. Crore)**

Sl. No.	Particulars	FY 2017-18
A	Equity	191.69
B	Rate of Return on Equity	16.00%
C	Return on Equity Component	30.67
D	Income Tax Rate	34.61%
E	Income Tax on Return on Equity component	10.61

**Commission's Analysis**

4.110 No income tax is allowed for FY 2017-18 as NDMC is exempt from Income Tax.

**Aggregate Revenue Requirement****Petitioner's Submission**

4.111 The Petitioner had submitted the Aggregate Revenue Requirement for FY 2017-18 as below:

**Table 101: Projected ARR for FY 2017-18 (Rs. Crore)**

Sl. No.	Particulars	FY 2017-18
A	Cost of power purchase, including T&D Losses	710.49
B	Inter-State Transmission charges	31.48
C	Intra-state Transmission charges including SLDC charges	64.56
D	Net Operation & Maintenance (O&M)	187.51
E	Depreciation	38.71
F	Administrative Dept. & Civil Engg. Dept	45.37
G	RoCE	75.40
H	Income Tax	10.61
I	<b>Aggregate Revenue Requirement</b>	<b>1,164.14</b>
J	Less: Non-Tariff Income	15.69
K	<b>Aggregate Revenue Requirement (9 - 10)</b>	<b>1,148.45</b>
L	<b>Revenue at Existing Tariff</b>	<b>1,047.67</b>
M	<b>Revenue (Gap)/Surplus for FY 2017-18 (11 - 12)</b>	<b>(100.78)</b>
N	<b>Revenue (Gap)/Surplus for FY 2016-17</b>	<b>(55.01)</b>
O	<b>Revenue Surplus /(Gap) for FY 2015-16</b>	<b>(90.50)</b>
P	<b>Total Revenue Gap to be adjusted in ARR FY 2017-18</b>	<b>(246.29)</b>

**Commission's Analysis**

4.112 The Commission therefore approves Aggregate Revenue Requirement of Rs. 1100.12 Crore for FY 2017-18.

**Table 102: ARR approved for FY 2017-18 (Rs. Cr.)**

Sr. No.	Particulars	FY 2017-18
A	Net Power Purchase Cost	821.63
B	Operation & Maintenance (O&M)	183.95
C	Depreciation	21.63
D	Administrative Dept. & Civil Engg. Dept.	-
E	RoCE	31.54
F	Income Tax	-
G	Less: Non-Tariff Income	27.50
H	<b>Aggregate Revenue Requirement</b>	<b>1031.26</b>

4.113 The Revenue Surplus/ (Gap) for FY 2017-18 is as follows:

**Table 103: Revenue Surplus/(Gap) for FY 2017-18 (Rs. Cr.)**

Sl. No	Particulars	Amount
A	Aggregate Revenue Requirement	1031.26
B	Revenue Available Towards ARR at Existing Tariff	945.64
C	<b>Revenue Surplus /(Gap)</b>	<b>(85.62 )</b>

**A5: TARIFF DESIGN****COMPONENTS OF TARIFF DESIGN**

5.1 The Commission has considered the following components for designing tariff of the Distribution Licensees.

- a. Consolidated Sector Revenue (Gap)/Surplus.
- b. Cost of service
- c. Cross-subsidization in tariff structure

**Consolidated Revenue (Gap)/Surplus for NDMC for FY 2014-15 & FY 2015-16 (Rs. Crore)****Revenue (Gap)/Surplus till FY 2015-16**

5.2 The Commission has approved the Revenue (Gap)/Surplus for the Petitioner for the petitioner for FY 2014-15 & FY 2015-16 as discussed in detail in Chapter A3 of this Order. The Revenue (Gap)/Surplus upto FY 2015-16 is summarised in the table as follows:

Particulars	FY 2014-15	FY 2015-16
Opening Revenue Surplus/(Gap)	44.60	(121.71)
Annual Revenue Requirement for the Year	1218.17	1104.34
Revenue for the year	1055.88	1146.05
Revenue Surplus/(Gap) for the year	(162.29)	41.71
Closing Revenue Surplus/(Gap)	(117.69)	(80.00)
Average Gap	(36.54)	(100.86)
Rate of Carrying Cost	11.00	10.90%
Amount of Carrying Cost	(4.02)	(10.99)
Closing Revenue Surplus /(Gap)	(121.71)	(91.00)

**Revenue (Gap)/Surplus for FY 2017-18 at existing Tariffs**

5.3 The Summary of net revenue (gap)/ surplus approved for NDMC at existing tariffs for the current year, FY 2017-18 is as follows:

S.N.	Particulars	FY 2017-18
A	Revenue Requirement for the year	1,031.26
B	Revenue available at existing tariffs	945.64
C	(Gap)/Surplus for the year	(85.62)

**Treatment of Revenue (Gap)/Surplus****Revenue (Gap)/Surplus for FY 2017-18 at existing and Revised Tariffs**

5.4 The Commission has revised tariff for NDMC and the summary of revenue billed for 5

months (Apr'17 to Aug'17) at Existing Tariff and 7 months at Revised Tariff (Sept'17 to Mar '18) for FY 2017-18 is as follows:

**Table 104: Revenue at Revised Tariff for FY 2017-18**

Sr. No.	Category	Fixed Charges	Energy Charges	Total Revenue
1	Domestic	4.27	110.86	115.13
2	Non-Domestic	8.33	868.41	874.56
3	Industrial	0.00	0.05	0.06
4	Public Lighting	0.00	5.40	5.40
5	DMRC	0.12	28.80	28.93
6	Others	0.00	13.87	13.87
7	<b>Total</b>	<b>12.72</b>	<b>1025.21</b>	<b>1037.93</b>

**Table 105: Revenue (Gap)/Surplus at Revised Tariff (Rs. Cr.)**

Particulars	Amount
ARR for FY 2017-18	1,031.26
Revenue at Revised Tariff	1037.93
<b>Revenue (Gap)/Surplus at Revised Tariff</b>	<b>6.67</b>

- 5.5 The Commission has not provided any additional Surcharge for liquidation of Revenue Gap upto FY 2015-16 as the Petitioner has not submitted Audited Form 2.1a, Audited CAPEX and Capitalisation details which are required for finalization for Revenue Gap. The Commission will consider this Revenue Gap once these details are submitted by the Petitioner.

#### **CROSS-SUBSIDISATION IN TARIFF STRUCTURE**

- 5.6 The Electricity Act, 2003 provides for reduction of cross subsidies by moving the category wise tariffs towards cost of supply. The Commission also recognizes the need for reduction of cross subsidy. However, it is equally incumbent on the Commission to keep in mind the historical perspective for the need to continue with cross-subsidy for some more time.
- 5.7 Regarding Cross subsidy, Clause 8.3 of the National Tariff Policy 2016 states as follows:

*“8.3 Tariff design: Linkage of tariffs to cost of service*

*It has been widely recognised that rational and economic pricing of electricity can be one of the major tools for energy conservation and sustainable use of*

*ground water resources.*

*In terms of the Section 61(g) of the Act, the Appropriate Commission shall be guided by the objective that the tariff progressively reflects the efficient and prudent cost of supply of electricity. The State Governments can give subsidy to the extent they consider appropriate as per the provisions of section 65 of the Act. Direct subsidy is a better way to support the poorer categories of consumers than the mechanism of cross subsidizing the tariff across the board. Subsidies should be targeted effectively and in transparent manner. As a substitute of cross subsidies, the State Government has the option of raising resources through mechanism of electricity duty and giving direct subsidies to only needy consumers. This is a better way of targeting subsidies effectively.*

*Accordingly, the following principles would be adopted:*

- 1. Consumers below poverty line who consume below a specified level, as prescribed in the National Electricity Policy may receive a special support through cross subsidy. Tariffs for such designated group of consumers will be at least 50% of the average cost of supply.*
- 2. For achieving the objective that the tariff progressively reflects the cost of supply of electricity, the Appropriate Commission would notify a roadmap such that tariffs are brought within  $\pm 20\%$  of the average cost of supply. The road map would also have intermediate milestones, based on the approach of a gradual reduction in cross subsidy.*
- 3. While fixing tariff for agricultural use, the imperatives of the need of using ground water resources in a sustainable manner would also need to be kept in mind in addition to the average cost of supply. Tariff for agricultural use may be set at different levels for different parts of a state depending on the condition of the ground water table to prevent excessive depletion of ground water. Section 62 (3) of the Act provides that geographical position of any area could be one of the criteria for tariff differentiation. A higher level of subsidy could be considered to support poorer farmers of the region where adverse ground water table condition requires larger quantity of electricity for irrigation purposes subject to suitable restrictions to ensure maintenance of ground water levels and sustainable ground water usage.*
- 4. Extent of subsidy for different categories of consumers can be decided by the*



*State Government keeping in view various relevant aspects. But provision of free electricity is not desirable as it encourages wasteful consumption of electricity. Besides in most cases, lowering of water table in turn creating avoidable problem of water shortage for irrigation and drinking water for later generations. It is also likely to lead to rapid rise in demand of electricity putting severe strain on the distribution network thus adversely affecting the quality of supply of power. Therefore, it is necessary that reasonable level of user charges is levied. The subsidized rates of electricity should be permitted only up to a pre-identified level of consumption beyond which tariffs reflecting efficient cost of service should be charged from consumers. If the State Government wants to reimburse even part of this cost of electricity to poor category of consumers the amount can be paid in cash or any other suitable way. Use of prepaid meters can also facilitate this transfer of subsidy to such consumers.*

*5. Metering of supply to agricultural/rural consumers can be achieved in a consumer friendly way and in effective manner by management of local distribution in rural areas through commercial arrangement with franchisees with involvement of panchayat institutions, user associations, cooperative societies etc. Use of smart meters may be encouraged as a cost effective option for metering in cases of "limited use consumers" who are eligible for subsidized electricity.*

- 5.8 In line with the above provision of the National Tariff Policy states that any consumer desirous of getting subsidized tariff shall approach the State Government and if the request for subsidy is found justified, the State Government may give subsidy to that class of consumers so that these consumers get electricity at concessional tariff.
- 5.9 At present, there are number of consumer classes e.g. some slabs of domestic consumers, Agriculture and Mushroom Cultivation, Government Schools/Colleges, Hospitals, etc. which are being cross subsidized by other consumers.
- 5.10 The Commission is of the view that ideally the electricity tariff for all categories of consumers should be fixed on cost to serve basis. However, in view of the high level of prevailing regulatory assets and the liquidation plan submitted before the Hon'ble Supreme Court, the Commission has continued with a policy of subsidizing some of the consumers below the cost of supply.

**TARIFF STRUCTURE****Domestic Tariff**

- 5.11 Domestic Tariff is applicable for power consumption of residential consumers, hostels of recognized/aided educational institutions and staircase lighting in residential flats, compound lighting, lifts and water pumps or drinking water supply and fire-fighting equipment, etc. bonafide domestic use in farm houses, etc. as per the revised tariff schedule.
- 5.12 All the Cattle/ Dairy Farms and Dhobi Ghat across Delhi with a total consumption of not more than 400 units in a month. However, in case the consumption in a month exceeds 400 units, the total consumption including the first 400 units shall be charged non- domestic rates as applicable to the consumers falling under the Non Domestic category.
- 5.13 The Commission in its Tariff Order dated June 26, 2003 introduced two part tariff for domestic consumers, i.e., fixed charges and energy charges and abolished minimum charges and meter rent. The fixed charge in two-part tariff represents the fixed component of charges, which is independent of consumption level and depends on the fixed cost incurred by the Utility in supplying electricity.
- 5.14 The Commission has considered the views expressed by the stakeholders and after considering various options, the Commission has changed the existing methodology of levying fixed charges as per slab upto 5kW from Rs./month basis to Rs/kW/month basis.

**Domestic single delivery point for Group Housing Societies (GHS)**

- 5.15 In this Tariff Order, the Tariff for Group Housing Societies (GHS) for supply at 11kV has been rationalized as follows:
- a) Energy charges for GHS has been retained at Rs.6.00/kWh as per last tariff schedule.
  - b) Individual Consumers availing the supply at single delivery point through Group Housing Society may claim the benefit of subsidy, applicable if any, as per the Order of GoNCTD. Group Housing Society shall submit the details of eligible consumers with consumption details and lodge claims for subsidy on behalf of

individual members from DISCOMs

- c) The definition of GHS has been broadened to cover all the GHS including residential complex developed by a developer as follows:

*“Group Housing Society(GHS) shall mean a residential complex owned/managed by a Group Housing Society registered with Registrar, Cooperative Societies, Delhi / registered under Societies Act, 1860 and for sake of brevity the definition shall include residential complex developed by a Developer and approved by appropriate authority “*

- d) The Single Point Delivery Supplier (GHS) shall charge the Domestic tariff as per slab rate of Tariff Schedule 1.1 to its Individual Members. Any Deficit/Surplus due to sum total of the billing to the Individual Members as per slab rate of Tariff Schedule 1.1 and the billing as per the Tariff Schedule 1.2 including the operational expenses of the Single Point Delivery Supplier shall be passed on to the members of the Group Housing Societies on pro rata basis of consumption.

### **Non-Domestic Tariff**

- 5.16 Non-domestic category of consumers comprises two sub-categories viz., Supply on low Tension and Supply on High Tension (11 kV and above).

### **Non-Domestic Low Tension (NDLT)**

- 5.17 This category covers LT Non-Domestic consumers having contract demand or sanctioned load (whichever is applicable) up to 140 kW/150 kVA.
- 5.18 For the consumers with sanctioned load up to 10 kW in this category, the Commission had specified the kWh based tariff only. The Commission has decided to continue with the existing practice.
- 5.19 For Non-domestic consumers having contract demand or sanctioned load more than 10 kW (11 kVA) and up to 140 kW (150 kVA), the Commission has specified kVAh based energy charges.
- 5.20 The Commission believes that with gradual movement towards voltage linked tariff, irrespective of load of the consumer, the tariff for consumption at higher voltages will be lower than that for lower voltages, which will encourage consumers to opt for

HT connections particularly for loads higher than 140 kW.

- 5.21 For existing consumers having sanctioned load/contract demand, whichever is applicable, in kW, the actual power factor of the consumer in the relevant billing cycle shall be considered for converting kW to kVA for computing the fixed charges. For new consumers, the sanctioned load/contract demand shall be in terms of kVA only.

#### **Non-Domestic High Tension (NDHT)**

- 5.22 Non-domestic consumers with contract demand or sanctioned load more than 100 kW/108 kVA can also avail supply at 11 kV or above.
- 5.23 Non domestic consumers availing supply on 33 kV/66 kV or 220 kV will be entitled for rebate of 2.5% and 4% respectively on the applicable energy charges on 11 kV tariff.
- 5.24 For existing consumers having sanctioned load/contract demand, whichever is applicable, in kW, the actual power factor of the consumer in the relevant billing cycle shall be considered for converting kW to kVA for computing the fixed charges. For new consumers, the sanctioned load/contract demand shall be in terms of kVA only.

#### **Industrial Tariff**

- 5.25 Industrial category of consumers consists of two sub-categories, viz., Small Industrial Power (SIP) and Large Industrial Power (LIP).

##### **Small Industrial Power (SIP)**

- 5.26 This category covers industrial consumers having contract demand or sanctioned load, whichever is applicable, up to 200kW/215kVA.
- 5.27 For the consumers with sanctioned load up to 10 kW in this category, the Commission had specified the kWh based tariff only. The Commission has decided to continue with the existing practice.
- 5.28 For Small Industrial Power (SIP less than 200 kW/215 kVA) category, the slab between 10 kW (11 kVA) up to 140 kW (150 kVA), the Commission has specified the kVAh based tariff.
- 5.29 For existing consumers of 10 kW and above having sanctioned load/contract

demand, whichever is applicable, in kW, the actual power factor of the consumer in the relevant billing cycle shall be considered for converting kW to kVA for computing the fixed charges. For new consumers, the sanctioned load/contract demand shall be in terms of kVA only.

### **Large Industrial Power (LIP)**

- 5.30 Industrial consumers with contract demand or sanctioned load more than 108 kVA shall avail supply on 11 kV.
- 5.31 The Commission believes that with gradual movement towards voltage linked tariff, irrespective of load of the consumer, the tariff for consumption at higher voltages will be lower than that for lower voltages, which will discourage consumers to opt for LT connections particularly for loads higher than 100 kW.
- 5.32 For supply at 33/66 kV, consumers will get a rebate of 2.5% on the energy charges applicable for supply at 11 kV and a rebate of 4% for supply at 220 kV.
- 5.33 For existing consumers having sanctioned load/contract demand, whichever is applicable, in kW, the actual power factor of the consumer in the relevant billing cycle shall be considered for converting kW to kVA for computing the fixed charges. For new consumers, the sanctioned load/contract demand shall be in terms of kVA only.

### **Agriculture**

- 5.34 Agriculture connections are available for tube wells for irrigation, threshers and kuttu cutting in conjunction with pumping load for irrigation purpose for loads up to 20 kW and lighting load for bonafide use in "kothra".

### **Mushroom Cultivation**

- 5.35 This category is applicable to the consumers who are engaged in mushroom cultivation/processing.

### **Public Lighting**

- 5.36 Tariff for this category is applicable to all street light consumers including MCD, DDA, PWD/CPWD, CGHS, Slums, DSIIDC and certain civilian pockets of MES. The share of MCD, however is dominating as most of the street lights in the city are owned by the MCD.
- 5.37 The Commission has decided that tariff for public lighting which is metered will be lower than tariff for public lighting which is unmetered. Therefore, the Commission

has prescribed different tariff for metered and unmetered public lighting.

- 5.38 The maintenance charges and other conditions of maintenance of street lights, as approved in the Commission's Order dated September 22, 2009, will continue till such time it is amended. These maintenance charges are exclusive of applicable taxes and duties.

#### **Railway Traction**

- 5.39 This category is applicable to Indian Railways for traction purposes for loads more than 100 kW/108 kVA.

#### **Delhi Metro Rail Corporation (DMRC)**

- 5.40 This category is available to DMRC to run its operations (other than construction projects). The commercial load at DMRC stations shall be metered and billed separately as per the relevant tariff category.

#### **Delhi Jal Board (DJB)**

- 5.41 In the Tariff Order dated July 13, 2012, the Commission has added DJB supply under LT also in this category.
- 5.42 For the purpose of conversion of kW to kVA, the actual power factor of the relevant billing cycle shall be considered for the computation of fixed charges.

#### **Delhi International Airport Limited (DIAL)**

- 5.43 The Commission has continued the prevailing practice to give DIAL a tariff which shall be higher than that of DJB as it is providing essential services to all consumers including the lowest strata of the society but lesser than that of Non Domestic HT consumers. The commercial load at DIAL premises shall be metered and billed separately as per the relevant tariff category.

#### **Advertisement and Hoardings**

- 5.44 The Commission, in its Tariff Order dated July 31, 2013 had created a separate category to cover the consumption for the advertisements and Hoardings. This category will be applicable for supply of electricity for lighting external advertisements, external hoardings and displays at departments stores, malls, multiplexes, theatres, clubs, hotels, bus shelters, Railway/Metro Stations, Airport and 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.

### **Temporary Supply**

- 5.45 The Commission does not propose any major change in the existing tariff methodology for temporary supply as mentioned in the Tariff Schedule. The 10 days restriction for availing temporary supply for religious functions under clause 12.3 of the other terms and conditions of the Tariff Schedule has been withdrawn.

### **Charging of E-Rickshaw/ E-Vehicle**

- 5.46 The Commission has introduced a new Tariff Category for charging of batteries of E-Rickshaw / E-Vehicle at Charging Stations. However, the tariff for charging of batteries of E-Rickshaw / E-Vehicle at premises other than at Charging Stations shall be the same as applicable for the relevant category of connection at such premises from which the E-Rickshaw / E-Vehicle is being charged.

### **Time of Day (ToD) Tariff**

- 5.47 It is observed that the cost of power purchase during peak hours is quite high. Time of Day (ToD) tariff is an important Demand Side management (DSM) measure to flatten the load curve and avoid such high cost peaking power purchases. Accordingly, the Commission had introduced Time of Day (ToD) tariff wherein peak hour consumption is charged at higher rates which reflect the higher cost of power purchase during peak hours. At the same time, a rebate is being offered on consumption during off-peak hours. This is also meant to incentivise consumers to shift a portion of their loads from peak time to off-peak time, thereby improving the system load factor and flatten the load curve. The ToD tariff is aimed at optimizing the cost of power purchase, which constitutes over 80% of the tariff charged from the consumers. It also assumes importance in the context of propagating and implementing DSM and achieving energy efficiency. This is important in Delhi situation where wide variations in load especially in summer causes problem of shortages during Peak hours and surplus during Off peak hours.
- 5.48 Introduction of higher peak hour tariff would initially generate additional revenue which would compensate for the reduction in revenue on account of lower tariff during off-peak hours.

- 5.49 In the long run, this would provide signals to the consumers to reduce load during peak hours and, wherever possible, shift this consumption to off-peak hours. Any loss of revenue to the utility on account of shifting of load from peak to off-peak hours in the long run would by and large get compensated by way of reduction of off-peak surplus to the extent of increase in off-peak demand.
- 5.50 The ToD Tariff would thus have immediate as well as long term benefits for both, consumers as well as the utility and contribute towards controlling the rise in power purchase costs.
- 5.51 The Commission in its MYT Order for second Control Period dated July 13, 2012 had decided to introduce ToD Tariff on a pilot basis for large industrial and non domestic consumers (300 kW and above). This was targeted to the consumer segment which has capacity to bear a higher burden for peak hour consumption and also at least partly (if not fully) offset the impact of this increase through higher off-peak consumption at lower rates. The Commission as a progressive step in this direction and to further encourage demand shift from peak hours to off-peak hours has decided to lower the applicability limit for ToD Tariff.
- 5.52 In the Tariff order dated July 31, 2013, the Time of Day (ToD) Tariff# - ToD Tariff was made applicable on all consumers (other than domestic) whose sanctioned load/MDI (whichever is higher) is 100kW / 108 kVA and above.
- 5.53 In the Tariff order dated July 23, 2014, the Time of Day (ToD) Tariff# - ToD Tariff was made applicable on all consumers (other than domestic) whose sanctioned load/MDI (whichever is higher) is 50kW / 54 kVA and above. Also Optional TOD tariff was made available for all consumers (other than domestic) whose sanctioned load/MDI (whichever is higher) was between 25kW/27kVA to 50kW/54kVA.
- 5.54 In this Tariff Order, the Commission has decided to retain existing Time of Day (ToD) Tariff as follows:
- TOD tariff shall be applicable on all consumers (other than Domestic) whose sanctioned load/MDI (whichever is higher) is 25kW/27kVA and above.
  - Option of TOD tariff shall also be available for all consumers (other than Domestic) whose sanctioned load/MDI (whichever is higher) is 11kW/12kVA to 25kW/27kVA. If the consumer who has opted for TOD of sanctioned load between 11kW/12kVA to 25kW/27kVA, the charges for up-gradation of meters , if any, shall be borne by respective consumers.
  - The Commission has decided to retain the Rebate during the Off Peak hours and Peak hours Surcharge at 20%. Optional ToD Consumers will have the



option to move back to non-ToD regime only once within one Financial Year.

- d. For other than Peak and Off-Peak hours normal Energy Charges shall be applicable.

Months	Peak Hours	Surcharge on Energy Charges	Off-Peak Hours	Rebate on Energy Charges
May-September	1300-1700 hrs and 2100-2400 hrs	20%	0300-0900 hrs	20%

The additional impact due to ToD tariff on the bill received by the management of commercial complexes may be recovered by the Single Point Delivery (SPD) manager by spreading this component of tariff on pro-rata basis on the users of the complex.

## TARIFF SCHEDULE FOR FY 2017-18

Sr. No.	CATEGORY	FIXED CHARGES	ENERGY CHARGES
<b>1</b>	<b>DOMESTIC</b>		
<b>1.1</b>	<b>INDIVIDUAL CONNECTIONS</b>		
A	0-200 Units	35 Rs./kW/month	4.00 Rs./kWh
B	201-400 Units	35 Rs./kW/month	5.95 Rs./kWh
C	401-800 Units	35 Rs./kW/month	7.30 Rs./kWh
D	801-1200 Units	35 Rs./kW/month	8.10 Rs./kWh
E	> 1200 Units	35 Rs./kW/month	8.75 Rs./kWh
<b>1.2</b>	<b>SINGLE DELIVERY POINT FOR GROUP HOUSING SOCIETY (GHS)</b>		
	Supply at 11kV	40 Rs./kW/month	6.00 Rs./kWh
<b>2</b>	<b>NON-DOMESTIC</b>		
<b>2.1</b>	<b>NON- DOMESTIC LOW TENSION (NDLT)</b>		
A	Up to 10 kW	115 Rs./kW/month	8.80 Rs./kWh
B	>10 kW/11kVA & ≤ 140 kW/150 kVA	130 Rs./kVA/month	8.50 Rs./kVAh
C	>140 kW / 150 kVA (400 volts) (No Supply on LT for load > 200kW/215 kVA)		
i	Where supply is given from NDMC sub-station	160 Rs./kVA/month	9.95 Rs./kVAh
ii	Where applicant provides built up space for sub-stations	135 Rs./kVA/month	8.80 Rs./kVAh
<b>2.2</b>	<b>Non-Domestic High Tension (NDHT)</b>		
	For supply at 11 KV and above (for load greater than 100kW/108 kVA)	130 Rs./kVA/month	8.40 Rs./kVAh
<b>3</b>	<b>SMALL INDUSTRIAL POWER (SIP)</b>	100 Rs./kVA/month	7.90 Rs./kVAh
<b>4</b>	<b>PUBLIC LIGHTING</b>		
<b>4.1</b>	<b>Metered</b>		
A	Street Lighting		7.30 Rs./kWh
B	Signals and Blinkers		7.30 Rs./kWh
<b>4.2</b>	<b>Unmetered</b>		
A	Street Lighting		7.80 Rs./kWh
B	Signals and Blinkers		7.80 Rs./kWh
<b>5</b>	<b>RAILWAY TRACTION</b>	150 Rs./kVA/month	6.80 Rs./kVAh
<b>6</b>	<b>DELHI METRO RAIL CORPORATION (DMRC)</b>		

	DMRC	130 Rs./kVA/month	6.10 Rs./kVAh
<b>7</b>	<b>ADVERTISEMENTS AND HOARDINGS</b>	600 Rs/month/hoarding	11.20 Rs./kVAh
<b>8</b>	<b>TEMPORARY SUPPLY</b>		
8.1	Domestic Connections including Group Housing Societies	Same rate as that of relevant category	Same as that of relevant category without any temporary surcharge
8.2	For threshers during the threshing season	Electricity Tax of MCD : Rs. 270 per connection per month	Flat rate of Rs. 5,400 per month
8.3	All other connections including construction projects	Same rate as that of the relevant category	1.30 times of the relevant category of tariff
<b>9</b>	<b>CHARGING STATIONS FOR E-RICKSHAW/ E-VEHICLE ON SINGLE DELIVERY POINT</b>		
9.1	Supply at LT	-	5.50 Rs./kWh
9.2	Supply at HT	-	5.00 Rs./kVAh

**Notes:**

- For all categories other than Domestic, Fixed Charges are to be levied based on billing demand per kW/kVA or part thereof. Where the Maximum Demand (MD), as defined in *DERC (Supply Code and Performance Standards) Regulations, 2017*, reading exceeds sanctioned load/contract demand, a surcharge of 30% shall be levied on the fixed charges corresponding to excess load in kW/kVA for such billing cycle only. Wherever, sanctioned load/contract demand is in kW/HP, the kVA shall be calculated on basis of actual power factor of the consumer, for the relevant billing cycle.

**2. Time of Day (TOD) Tariff**

- TOD tariff shall be applicable on all consumers (other than Domestic) whose sanctioned load/MDI (whichever is higher) is 25kW/27kVA and above as shown in the table below.
- Option of TOD tariff shall also be available for all consumers (other than Domestic) whose sanctioned load/MDI (whichever is higher) is 11kW/12kVA to 25kW/27kVA. If the consumer who has opted for TOD of sanctioned load between 11kW/12kVA to 25kW/27kVA, the charges for up-gradation of meters, if any, shall be borne by respective consumers.
- The Commission has decided to retain the Rebate during the Off Peak hours and Peak hours Surcharge at 20%. Optional ToD Consumers will have the option to move back to non-ToD regime only once within one Financial Year.
- For other than Peak and Off-Peak hours normal Energy Charges shall be applicable.

Months	Peak Hours	Surcharge on Energy Charges	Off-Peak Hours	Rebate on Energy Charges
May-September	1300-1700 hrs and 2100-2400 hrs	20%	0300-0900 hrs	20%

3. Additional rebate of 2.5% on the Energy Charges for supply at 33/66 kV and 4% for supply at 220 kV shall be admissible.
4. Maintenance Charges on street lights, wherever maintained by DISCOMs, shall be payable @ Rs. 84/light point/month and material cost at the rate of Rs. 19/light point/month as per the Commission's Order dated 22 September 2009 in addition to the specified tariff. These charges are exclusive of applicable taxes and duties.
5. The valid Factory Licence shall be mandatory for applicability of Tariff under Industrial category:  
Provided that in case where the Factory Licence has expired and its renewal application is pending with the concerned authority, the DISCOMs shall bill such consumers as per Tariff applicable under Non Domestic category;  
Provided further that on renewal of the Factory Licence, the DISCOMs shall adjust the bills of such consumers as per applicable Tariff under Industrial category from the effective date of renewal of such Licence.
6. The Distribution Licensee shall levy PPAC after considering relevant ToD Rebate/Surcharge on energy charges available to the consumers.
7. For prepaid consumers, the additional rebate of 1% shall be applicable on the basic Energy Charges, Fixed Charges and all other charges on the tariff applicable.
8. The Single Point Delivery Supplier (Group Housing Societies) shall charge the Domestic tariff as per slab rate of 1.1 to its Individual Members availing supply for Domestic purpose and Non Domestic Tariff for other than domestic purpose. Any Deficit/Surplus due to sum total of the billing to the Individual Members as per slab rate of tariff schedule 1.1 and the billing as per the tariff schedule 1.2 including the operational expenses of the Single Point Delivery Supplier shall be passed on to the members of the Group Housing Societies on pro rata basis of consumption.
9. Individual Domestic Consumers availing the supply at single delivery point through Group Housing Society, shall claim the benefit of subsidy, applicable if any, as per the Order of GoNCTD. Group Housing Society shall submit the details

of eligible consumers with consumption details and lodge claim of subsidy on behalf of individual members from DISCOMs.

10. The Single Point Delivery Supplier availing supply at NDHT shall charge the NDHT tariff to its LT consumers and in addition shall be entitled to charge an extra upto 5% of the bill amount at NDHT tariff to cover losses and all it's expenses.
11. The Commercial Consumers of DMRC and DIAL who have sanctioned load above 215 kVA but served at LT (415 Volts) such consumers shall be charged the tariff applicable to Non-domestic LT (NDLT) category greater than 140kW/150kVA (415 Volts).
12. The rates stipulated in the Schedule are exclusive of electricity duty and other taxes and charges, as levied from time to time by the Government or any other competent authority, which are payable extra.
13. In the event of the electricity bill rendered by the Distribution licensee, not being paid in full within the due date specified on the bill, a surcharge @ 1.5% per month shall be levied. The LPSC shall be charged for the number of days of delay in receiving payment from the consumer by the Distribution Licensee, until the payment is made in full without prejudice to the right of the licensee to disconnect the supply after due date, in the event of non-payment in accordance with Section 56 of Electricity Act, 2003. This will also apply to temporary connections and enforcement cases, where payment of final bill amount after adjustment of amount as per directions of the Court and deposit, is not made by due date.
14. No payment shall be accepted by the Petitioner from its consumers at its own collection centres/mobile vans in cash towards electricity bill exceeding Rs. 4,000/- except from blind consumers, for court settlement cases & payment deposited by the consumers at designated scheduled commercial bank branches upto Rs. 50,000/-. Violation of this provision shall attract penalty to the level of 10% of total Cash collection exceeding the limit.
15. Wherever the Fixed or Energy Charges are specified in Rs. per kVAh, for the purpose of billing, the kVAh as read from the meter in the relevant billing cycle shall be used.

**Other Terms and Conditions****1. DOMESTIC CATEGORY****1.1 Domestic Lighting, Fan and Power (Single Delivery Point and Separate Delivery Points/Meters)****Available to following:**

- a. Residential Consumers
- b. Hostels of recognized/ aided institutions which are being funded more than 90% by Municipal Corporation of Delhi or Government of the NCT of Delhi or any other Government/local bodies [local bodies include NDMC and MCDs (North, South & East)].
- c. Staircase lighting in residential flats separately metered.
- d. Compound lighting, lifts and water pumps etc., for drinking water supply and fire-fighting equipment in residential complexes, if separately metered.
- e. In group housing societies etc. for bonafide use of lighting/fan and power, subject to the provision that the supply is at single delivery point for combined lighting/fan & power.
- f. Dispensary/Hospitals/Public Libraries/School/College/ Working Women's Hostel/ Orphanage/ Charitable homes run and funded by more than 90% by Municipal Corporation of Delhi or Government of the NCT of Delhi or any other Government/local bodies.
- g. Small Health Centre's approved by the Department of Health, Government of NCT of Delhi for providing Charitable Services only.
- h. Recognized Centre's for welfare of blind, deaf and dumb, spastic children, physically handicapped persons, mentally retarded persons, as approved by the Government of NCT of Delhi and other Government.
- i. Public parks except temporary use for any other purpose.
- j. Bed and Breakfast Establishments (Residential Premises) registered u/s 3 of the National Capital Territory of Delhi (Incredible India) Bed and Breakfast Establishments (Registration & Regulations) Act, 2007.
- k. Paying Guests/Students' Hostel registered under any scheme approved by GoNCTD.
- l. Places of worship.
- m. Cheshire homes/orphanage.
- n. Shelter Homes (including Night Shelters) approved by Delhi Urban Shelter Improvement Board, GoNCTD.
- o. Electric crematoriums.
- p. Gaushala Registered under GoNCTD.
- q. Professionals i.e. individuals engaged in those activities involving services based on

professional skills, viz Doctor, Lawyer, Architect, Chartered Accountant, Company Secretary, Cost & Works Accountant, Engineer, Town Planner, Media Professional and Documentary Film Maker may utilize the domestic connection at their residence for carrying out their professional work in the nature of consultancy without attracting non-domestic tariff for the electricity consumed, provided that the area used for professional activity does not exceed the area permitted to be used for such activity in residential area under the Master Plan for Delhi, 2021 (MPD-2021), which as per MPD-2021 is permissible on any one floor only but restricted to less than 50% of the permissible or sanctioned FAR whichever is less on that plot or dwelling unit.

- r. Available, for loads up to 21 kW, to farm houses for bonafide domestic self use.
- s. The consumers running small commercial establishments from their households having sanctioned load upto 5kW shall be charged domestic tariff.
- t. Cattle Farms / Dairy Farms / Dhobi Ghat with a total consumption of not more than 400 units/month.

### **1.2 Domestic Connection on 11 kV single delivery point**

Same as 1.1 - For GHS flats and for individuals having sanctioned load above 100 kW/108kVA

Group Housing Society (GHS) shall mean a residential complex owned/managed by a Group Housing Society registered with Registrar, Cooperative Societies, Delhi / registered under Societies Act, 1860 and for sake of brevity the definition shall include residential complex developed by a Developer and approved by appropriate authority.

## **2. NON-DOMESTIC**

### **2.1 Non-Domestic (Low Tension) – NDLT**

Available to all consumers having load (other than the industrial load) up to 200 kW/215 kVA for lighting, fan & heating/cooling power appliances in all non-domestic establishments as defined below:

- a. Hostels/Schools/Colleges/Paying Guests
- b. Auditoriums, Lawyer Chambers in Court Complexes, Hospitals, nursing homes/diagnostic Centres other than those run by Municipal Corporation of Delhi or the Government of NCT of Delhi (other than those covered under domestic category).
- c. Railway's (other than traction), Hotels and restaurants
- d. Cinemas
- e. Banks/Petrol pumps
- f. All other establishments, i.e., shops, chemists, tailors, washing, dyeing etc. which do not come under the Factories Act.

- g. Fisheries, piggeries, poultry farms, floriculture, horticulture, plant nursery
- h. Farm houses being used for commercial activity
- i. DMRC for its commercial activities other than traction.
- j. DIAL for commercial activities other than aviation activities.
- k. Ice-cream parlours
- l. Any other category of consumers not specified/covered in any other category in this Schedule

**2.2 Non-Domestic High Tension (NDHT):** Non-Domestic Power at 11 kV or above at Single Delivery Point for Commercial Complexes

- a. Available to consumers having load (other than industrial load) above 100 kW/108 kVA for Non- Domestic establishments including pumping loads of DDA/MCD and supply to Delhi Metro Rail Corporation (DMRC) Ltd. for their on-going construction projects etc and for commercial purposes other than traction.
- b. Available to commercial complexes having load more than 100kW/108kVA for group of consumers for non-domestic use.

**3. Small Industrial Power (SIP):** Available to Industrial consumers including lighting, heating and cooling load.

**4. PUBLIC LIGHTING:** Street lighting, Signals & Blinkers

- a. All street lighting consumers including MCD, DDA, PWD/CPWD, Slums depts./ DSIIDC /MES / GHS etc.
- b. Traffic signals and blinkers of Traffic Police

**5. RAILWAY TRACTION (other than DMRC):** Available for railway traction for sanctioned load above 100 kW/108 kVA.

**6. DELHI METRO RAIL CORPORATION :** Available to Delhi Metro Rail Corporation (DMRC) for traction load

**7. ADVERTISEMENT/ HOARDINGS**

Electricity for lighting external advertisements, external hoardings and displays at departmental stores, malls, multiplexes, theatres, clubs, hotels, bus shelters, Railway/Metro Stations, airport which 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.



**8. TEMPORARY SUPPLY**

- a. Available as temporary connection under the respective category
- b. Domestic tariff without temporary surcharge shall be applicable for Religious functions of traditional and established characters like Ramlila, Dussehra, Diwali, Holi, Dandiya, Janmashtami, Nirankari Sant Samagam, Gurupurb, Durga Puja, Eid, Christmas celebrations, Easter, Pageants and cultural activities like NCC camps, scouts & guides camps etc.

**9. CHARGING OF E-RICKSHAW/ E-VEHICLE**

- a. **Charging Stations for E-Rickshaw/ E-Vehicle on Single Delivery Point:** Available to charging stations as per the provisions of DERC SOP Regulations, 2017.
- b. Tariff applicable for charging of batteries of E-Rickshaw / E-Vehicle at premises other than at Charging Stations meant for the purpose shall be the same as applicable for the relevant category of connection at such premises from which the E-Rickshaw / E-Vehicle is being charged.

**INTERPRETATION/ CLARIFICATION**

In case of doubt or anomaly, if any, in the applicability of tariff or in any other respect, the matter will be referred to the Commission and Commissions decision thereon shall be final and binding.

**A6: DIRECTIVES**

- 6.1. The Commission directs the Petitioner to make timely payment of bills to all the generating companies and transmission utilities. No Late Payment Surcharge shall be allowed as a pass through in the ARR on account of delayed payments.
- 6.2. If the Petitioner purchases any expensive power to meet the demand during any time zone for which cheaper power has been regulated due to non-payment of dues, in such an eventuality, the cost of such expensive power purchases shall be restricted to the variable cost of regulated cheaper power to that extent at the time of true up.
- 6.3. In case the power is regulated by DTL/Interstate Transmission Licensee due to non-payment of their dues, in such case the transmission charges borne by the Petitioner shall also not be allowed.
- 6.4. The Commission directs the Petitioner to ensure availability of power supply for meeting the demand. The Petitioner shall ensure that the electricity which could not be served due to any reason what-so-ever, shall not exceed 1% of the total energy supplied in units (kWh) in any particular month except in the case of force-majeure events which are beyond the control of the Petitioner.
- 6.5. It is directed that the Petitioner shall not accept payment from its consumers at its own collection centres/mobile vans in cash towards electricity bill exceeding Rs 4,000/- except from blind consumers and for court settlement cases or any other cases specifically permitted by the Commission. The limit for accepting payment through cash by the consumers at designated scheduled commercial bank branches shall be Rs. 50,000/-. Violation of this directive shall attract penalty to the level of 10% of total Cash collection exceeding these limits.
- 6.6. The Commission directs the Petitioner to restrict the adjustment in units billed on account of delay in meter reading, raising of long duration provisional bills etc. to a maximum of 1% of total units billed.
- 6.7. The Commission directs the Petitioner to survey the electricity connections of hoardings and display at malls and multiplexes and ensure the billing in the category of advertisements/hoarding category and to submit a compliance report within three months of the date of issuance of this order.
- 6.8. The Commission further directs the Petitioner :
  - a. To provide the information to the consumer through SMS on various items

such as scheduled power outages, unscheduled power outages, Bill Amount, Due date and Maximum Demand during the month, etc. as directed by the Commission from time to time.

- b. To maintain toll free number for registration of electricity grievances and to submit the quarterly report.
- c. To conduct a safety audit and submit a compliance report within three months;
- d. To carry out preventive maintenance as per schedule;
- e. To submit the information in respect of Form 2.1 (a) as per revised format issued by the Commission to the utilities on monthly basis latest by 21<sup>st</sup> day of the following month;
- f. To submit the annual energy audit report in respect of their network at HT level and above.
- g. To submit the Auditor's certificate in respect of Form 2.1(a) on quarterly basis within the next quarter;
- h. To incorporate the following information in the annual audited financial statements:-
  - i. Category-wise Revenue billed and Collected,
  - ii. Category-wise PPAC billed and collected,
  - iii. Category- wise Electricity Duty billed and collected,
  - iv. Category-wise subsidy passed on to the consumers during the financial year, if any,
  - v. Category-wise details of the surcharge billed on account of ToD,
  - vi. Category-wise details of the rebate given on account of ToD,
  - vii. Street light incentive and material charges for street light maintenance,
  - viii. Direct expenses of other business,
  - ix. Revenue billed on account of Own Consumption,
  - x. Revenue collected on account of enforcement/theft cases,
- i. To submit annual auditor certificate in respect of power purchase details of the previous year by 30<sup>th</sup> July of the next financial year.
- j. To submit the reconciliation statement in respect of power purchase cost/Transmission cost on a quarterly basis with respective Generation/

Transmission companies;

- k. To strictly adhere to the guidelines on short-term power purchase/sale of power issued by the Commission from time to time and to take necessary steps to restrict the cost of power procured through short term contracts at Rs.5 per kWh. In case the cost of power proposed to be procured exceeds the above ceiling limit, this may be brought to the notice of the Commission within 24 hours detailing the reasons or exceptional circumstances under which this has been done. In the absence of proper justification towards short term power purchase at a rate higher than the above ceiling rate (of Rs.5 per kWh), the Commission reserves the right to restrict allowance of impact of such purchase on total short term power purchase not exceeding 10 Paisa /kWh during the financial year.
  - l. To raise the bills for their own consumption of all their installations including offices at zero tariff to the extent of the normative self consumption approved by the Commission and exceeding the normative limit of self consumption at Non-Domestic tariff for actual consumption recorded every month.
  - m. To submit the quarterly progress reports for the capital expenditure schemes being implemented within 15 days of the end of each quarter.
  - n. To submit the actual details of capitalization for each quarter for the year within one month of the end of the quarter for consideration of the Commission. All information regarding capitalization of assets shall be furnished in the formats prescribed by the Commission, along with the requisite statutory clearances/certificates of the appropriate authority/ Electrical Inspector, etc. as applicable.
- 6.9. Save and except the penalty as specifically provided in these directives, in all other cases, the punishment for non-compliance of directions of the Commission shall be dealt as per the Section 142 of the Electricity Act, 2003.

## Annexure-I

**ADMISSION ORDERS****DELHI ELECTRICITY REGULATORY COMMISSION**

Viniyamak Bhawan, 'C' Block, Shivalik, Malviya Nagar, New Delhi- 110017.

F.11/1388/DERC/2016-17/

**Petition No. 19/2017**

**In the matter of:** Petition for True-up for FY 2014-15 and review of Aggregate Revenue Requirement (ARR) for the FY 2015-16 and Business Plan and MYT Petition for 3<sup>rd</sup> Control Period FY 2016-17 to FY 2020-21 and Corresponding Tariff determination for FY 2016-17.

New Delhi Municipal Council  
Through its : Secretary  
Palika Kendra,  
New Delhi.

...Petitioner/Licensee

**Coram:**

Sh. B. P. Singh, Member.

**ORDER**

(Date of Order 26.05.2017)

1. M/s New Delhi Municipal Council (NDMC) has filed the instant Petition for True-up for FY 2014-15 and review of Aggregate Revenue Requirement (ARR) for the FY 2015-16 and Business Plan and MYT Petition for 3<sup>rd</sup> Control Period FY 2016-17 to FY 2020-21 and Corresponding Tariff determination for FY 2016-17. The said Petition has been scrutinised and found generally in order as per the DERC Comprehensive (Conduct of Business) Regulations, 2001. Clarifications/additional information, if and when required would be sought from the Petitioner.
2. The Petition is admitted.

Sd/-  
(B.P. Singh)  
Member

**DELHI ELECTRICITY REGULATORY COMMISSION**

Viniyamak Bhawan, 'C' Block, Shivalik, Malviya Nagar, New Delhi- 110017.

F.11(1482)/DERC/2017-18/

**Petition No. 28/2017**

**In the matter of:** Petition for True-up for FY 2015-16, Revised ARR for FY 2016-17 and corresponding determination of Tariff for FY 2017-18.

New Delhi Municipal Council  
Through its : Director (Power)  
Palika Kendra, Sansad Marg  
New Delhi 110 001

...Petitioner/Licensee

**Coram:**

**Sh. B. P. Singh, Member.**

**ORDER**

(Date of Order 07.06.2017)

1. New Delhi Municipal Council (NDMC) has filed the instant Petition for True-up for FY 2015-16, Revised ARR for FY 2016-17 and corresponding determination of Tariff for FY 2017-18. The said Petition has been scrutinised and found generally in order as per the DERC Comprehensive (Conduct of Business) Regulations, 2001. Clarifications/additional information, if and when required, would be sought from the Petitioner.
2. The Petition is admitted.

Sd/-  
(B. P. Singh)  
Member

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## Annexure -II

**LIST OF RESPONSES RECEIVED FROM STAKEHOLDERS ON THE TRUE UP OF EXPENSES UP TO FY 2014-15 & FY 2015-16, AND ANNUAL REVENUE REQUIREMENT (ARR) AND TARIFF FOR FY 2017-18**

S. No.	Name	Address	Company / Licensee	Date of Receipt	No. of Pages
1.	Sh. B.S. Vohra	East Delhi RWAs Joint FrontF-19/10, Krishna Nagar, Delhi 110 051 <a href="mailto:rwabhagidari@yahoo.in">rwabhagidari@yahoo.in</a>	DISCOMs	09.06.2017 12.06.2017 18.07.2017	02 04 07
2.	Sh. O.P. Gupta	<a href="mailto:Advopgupta95@rediffmail.com">Advopgupta95@rediffmail.com</a>	BRPL	14.06.2017	02
3.	Sh. B.S. Sachdev President	45, North Avenue, New Delhi 110 001 <a href="mailto:grahakevraja@rediffmail.com">grahakevraja@rediffmail.com</a> , <a href="mailto:grahakevraja@gmail.com">grahakevraja@gmail.com</a>	DISCOMs	12.06.2017 29.06.2017	01 01
4.	Sh. A.K. Dutta	222, Pocket E, Mayur Vihar II, Delhi 91 <a href="mailto:Mmathur2001@yahoo.com">Mmathur2001@yahoo.com</a>	DISCOMs	15.06.2017 20.06.2017 20.06.2017 17.07.2017	01 02 02 12
5.	Sh. S.K. Juneja	<a href="mailto:sudershankumarjuneja@gmail.com">sudershankumarjuneja@gmail.com</a>	DISCOMs	20.06.2017	01
6.	Sh. Gulshan Desh	<a href="mailto:gulshanadesh@gmail.com">gulshanadesh@gmail.com</a>	DISCOMs	20.06.2017	01
7.	Sh. Jagjeet Singh	<a href="mailto:coolmanjagga@gmail.com">coolmanjagga@gmail.com</a>	DISCOMs	20.06.2017	01
8.	Smartjain.vikas	<a href="mailto:Smartjain.vikas@gmail.com">Smartjain.vikas@gmail.com</a>	DISCOMs	18.06.2017	01
9.	Sh. Sumit Jaswanil	<a href="mailto:Sumitjava2008@gmail.com">Sumitjava2008@gmail.com</a>	DISCOMs	20.06.2017	01
10.	Sh. Sat Goel	<a href="mailto:satgoel1947@gmail.com">satgoel1947@gmail.com</a>	DISCOMs	20.06.2017 27.06.2017	01 02
11.	Sh. Saurabh Gandhi General Secretary	<a href="mailto:urdrwas@gmail.com">urdrwas@gmail.com</a>	DISCOMs TPDDL BYPL	20.06.2017 18.07.2017 18.07.2017	03 05 14
12.	Sh. B.B. Tiwari	<a href="mailto:sarwasharpan@gmail.com">sarwasharpan@gmail.com</a>	DISCOMs	21.06.2016 22.06.2017	02 02
13.	Sh. Pankaj Sharma	<a href="mailto:pankaj.sharma@iitb.ac.in">pankaj.sharma@iitb.ac.in</a>	TPDDL	27.06.2017 27.06.2017	01 01
14.	Sh. Manmohan Verma	Rohini EWS Flats Residents Welfare Association,C-1/128, Sec.-5, Rohini, Delhi 110 085 <a href="mailto:mmverma.rwc@gmail.com">mmverma.rwc@gmail.com</a>	DISCOMs	27.06.2017 18.07.2017	02 05

S. No.	Name	Address	Company / Licensee	Date of Receipt	No. of Pages
15.	Sh. Ashok Bhasin	North Delhi Resident Welfare Federation 1618, Main Chandrawal Road, Delhi -17 <a href="mailto:Ashok.bhasin2015@gmail.com">Ashok.bhasin2015@gmail.com</a>	DISCOMs	27.06.2017 28.06.2017 29.06.2017	02 04 01
16.	Sh. Anil Kumar Jha	Jan Chetna Sangam (Regd.) A-4, Gali No. 13, Mandawali Unchepar, Delhi 110 092	DISCOMs	27.06.2017	01
17.	Sh. Rajiv Kakria	E-230, Greater kailash, New Delhi 110 048	DISCOMs	27.06.2017	04
18.	Sh. Sudhir Aggarwal	C-3/2, Model Town III, Delhi 110 009	DISCOMs	22.06.2017 18.07.2017	02 12
19.	Sh. V.K. Malhotra General Secretary	DVB Engineers' Association D-3, Vikas Puri, New Delhi 110 018	BYPL BRPL TPDDL Utilities	27.06.2017 27.06.2017 27.06.2017 19.07.2017	24 24 24 4
20.	Sh. Anil Grover President	Resident's Welfare Society (Regd.) Pocket-C, Mayur Vihar Phase II, Delhi 91	DISCOMs	27.06.2017	01
21.	Sh. P.S. Tomar Secretary	Resident's Welfare Association C-7/89, Yamuna Vihar, Delhi	DISCOMs	27.06.2017	01
22.	Sh. Kailash Katyal Patron President	Senior Citizens Welfare Association 49-B Pocket-1, Mayur Vihar, Phase-1, Delhi 110 091	DISCOMs	27.06.2017	01
23.	Sh. Kulwant Singh President	Dilshad Colony Residents Welfare Association (Regd.) G-87, List Floor, Dilshad Colony, Delhi 110 095	DISCOMs	27.06.2017	01
24.	Sh. Sarvesh Kumar Verma	Resident Welfare Association A-2/219, New Kondli, Delhi 110 096	DISCOMs	27.06.2017	01
25.	Rohit Arora President	Resident's Welfare Association 12A, Gyan Park Chander Nagar, Near Krishna Nagar, Delhi 110051 <a href="mailto:gyanparkwelfaresociety@gmail.com">gyanparkwelfaresociety@gmail.com</a>	DISCOMs	27.06.2017	01
26.	Sh. S. Hassan Retired Officer Ministry of Defence	F-172, Dilshad Colony, Delhi 110095 <a href="mailto:shassanrwa@gmail.com">shassanrwa@gmail.com</a>	DISCOMs	29.06.2017	01



S. No.	Name	Address	Company / Licensee	Date of Receipt	No. of Pages
27.	Ms. Ritu Bhatia	Mahila Pragatisheel Association (Regd.) B-186, Vivek Vihar Phase-I, Delhi 110095	DISCOMs	28.06.2017	02
28.	Sh. D.M. Narang President	Joint RWAs, R-Block & Double Storey New Rajinder Nagar, New Delhi	DISCOMs	28.06.2017	03
29.	Sh. Kunwar Pratap Singh General Secretary	Bhajan Pura Jan Sahyog Sabha D-10, Dispensary Chowk, Bhajan Pura, Delhi 110053	DISCOMs	29.06.2017	01
30.	Sh. Umardin Gen. Secretary	The Consortium An Alliance of the Registered RWA's of the Walled City 1570, Ground Floor, Pataudi House, Darya Ganj, New Delhi 110002	DISCOMs	28.06.2017	01
31.	Sh. Haji Mohd. Rais President	Resident's Welfare Association 3199, Kucha Tara Chand, Darya Ganj, New Delhi 110002	DISCOMs	28.06.2017	01
32.	Sh. Farooq Engineer	Rehayeshi Welfare Anjuman Shivaji Road, Azad Market, Delhi 110006	DISCOMs	28.06.2017	01
33.	Sh. Sudhir Kalra Addl. Secretary	E-93, Greater Kailash-I New Delhi 110048 <a href="mailto:kalrasudhir@gmail.com">kalrasudhir@gmail.com</a>	DISCOMs	28.06.2017	04
34.	Sh. Rajan Gupta	355, Udhyan, Narela, Delhi 110040	DISCOMs	27.06.2017	24
35.	Sh. Rajesh Agarwal	Shahdara Resident Welfare Association , 356, Farsh Bazar, Shahdara, Delhi 110032 <a href="mailto:shahdaraarwa@gmail.com">shahdaraarwa@gmail.com</a>	DISCOMs	29.06.2017	01
36.	Sh. Sanjeev Bhatnagar	Resident's Welfare Association New MIG Flats, Prasad Nagar, New Delhi 110005	DISCOMs	28.06.2017	01
37.	Sh. Naeem Bhartee Vice President	Nai Subah Welfare Society 3731, Chowk Shah Ganj, Ajmeri Gate, Delhi 110006	DISCOMs	28.06.2017	01
38.	Sh. Mohammad Shadab Qureshi President	Resident's Welfare Association 7642, Al-quresh Library, Near Badi Masjid, Qasab Pura, Delhi 110006	DISCOMs	28.06.2017	01
39.	Haveli Azam Khan Welfare Society	849, Gali Godowali, Haweli Azam Khan, Chitli Qubar, Jama Masjid, Delhi 110006	DISCOMs	28.06.2017	01

S. No.	Name	Address	Company / Licensee	Date of Receipt	No. of Pages
40.	Sh. Dayaram Dwivedi Vice President	Nidhi Fabrics, 262, Katra Pyarelal, Chandni Chowk New Delhi 110006	DISCOMs	29.06.2017	01
41.	Sh. Arvind Mehta	Joint RWAs, R-Block & Double Storey, New Rajinder Nagar, New Delhi	DISCOMs	30.06.2017	03
42.	Sh. Balkishan	Sudhar Smiti Durgapuri (Regd.) 1449/22, Gali No. 9, Durgapuri, Shahdra, Delhi 110093	DISCOMs	30.06.2017	02
43.	Sh. M.P. Singh President	Jan-Hit Residents Welfare Association, Pocket-I, 47a, Dilshad Garden, Delhi -95	DISCOMs	30.06.2017	01
44.	Sh. Kamal Kiran Seth Addl. Secretary General	Apex Chamber of Commerce & Industry of NCT of Delhi A-8, Naraina Industrial Area, Phase-II New Delhi 110028 <a href="mailto:delhichamber@airtelmail.in">delhichamber@airtelmail.in</a>	DISCOMs	30.06.2017	04
45.	Sh Samson Frederick General Secretary	All India Minorities Fundamental Rights Protection Committee 2109/18, Turkman Gate, New Delhi 110092	DISCOMs	28.06.2017	1
46.	Sh. Shashi Goyal Sr. Manager-Regulatory Affairs	BSES Rajdhani Power Ltd. NSES BHawan, Nehru Place New Delhi 110019	IPGCL PPCL	29.06.2017	17
47.	Sh. Satya Narain Rohtagi Sr. Citizen	618F-2/2/1, Shankar Gali Vishwas Nagar, Delhi – 110032	DISCOMs	29.06.2017	02
48.	Sh. Shiv Kumar Sharma	Brijpuri Resident Welfare Association (Regd.), D-8/154, Brij Puri, Delhi 110094	DISCOMs	03.07.2017	01
49.	Sh. Chaman Singh Gen. Secretary	DDA Janta Flats Residents Welfare Association (Regd.), Pocket D-2, Mayur Vihar Phase III, Delhi 110096	DISCOMs	05.07.2017	01
50.	Sh. Sanjay Dhingra	Jama Masjid Citizen Welfare Society <a href="mailto:dr.sanjay.dhingra007@gmail.com">dr.sanjay.dhingra007@gmail.com</a>	BYPL	11.07.2017	01
51.	Dr. Faheem Benoj Gen. Secretary	Jafrabad Resident Welfare Association (RWA), 1202, Street No. 39/4, Jafrabad, Delhi 110053 <a href="mailto:Jafrabadrwa2006@gmail.com">Jafrabadrwa2006@gmail.com</a>	TPDDL	14.07.2017	03

S. No.	Name	Address	Company / Licensee	Date of Receipt	No. of Pages
52.	Sh. Jagadish Prasad	A-129, Pul Prahalad, New Delhi 110044	DISCOMs	17.07.2017	01
53.	Sh. V.S. Mahindra	H3/45, Vikaspuri, New Delhi 110018	DISCOMs	17.07.2017	02
54.	Sh. Rajeshwar Kapoor	A-35, Nizamuddin East, New Delhi	DISCOMs	17.07.2017	02
55.	Sh. J.N. Bagehi	F-1152, C.R. Park, New Delhi 110019	DISCOMs	17.07.2017	01
56.	Sh. J.B. Sahdev Area Representative	Qutab Enclave MIG Residents Welfare Association, Qutab Enclave, Phase-I New Delhi 110016	DISCOMs	17.07.2017	02
57.	Sh. Sushil	Sofia Education and Welfare Society 73, Street No. 9, Main Brijpur Road, Old Mustafabad, Delhi <a href="mailto:ngosofia@gmail.com">ngosofia@gmail.com</a>	DISCOMs	17.07.2017	03
58.	Sh. A.K. Jain	DDA Flats, Kalkaji, New Delhi 110019	DISCOMs	17.07.2017	01
59.	Sh. V.P. Garg	B-2/48/A, Keshav Puram New Delhi 110035	DISCOMs	17.07.2017	01
60.	Sh. P.S. Gupta	C-5A/209, Janakpuri, New Delhi	DISCOMs	17.07.2017	02
61.	Sh. S.K. Bhatia	3/102, Subhash Nagar, New Delhi 110027	DISCOMS	17.07.2017	01
62.	Sh. Anil Sharma	V.T. Enterprises, 1124-E-1/46, Molarband, Extn. Badarpur , Delhi	DISCOMs	17.07.2017	01
63.	Sh. B.P. Agarwal	Delhi Bar Association Through its Secretary Sh. Jaiveer Singh Chauhan, Tis Hazari Courts, Delhi 110054	TPDDL	17.07.2017 19.07.2017	08 08
64.	Ms. Asha Uniyal	B-20, Street Nagar, New Delhi 110092	DISCOMs	18.07.2017	06
65.	Sh. Manmohan Verma Chairman	Rohini EWS Flats Residents Welfare Association, C-1/128, Sector-5, Rohini, Delhi 110085 <a href="mailto:Urdrwas@gmail.com">Urdrwas@gmail.com</a>	DISCOMs	18.07.2017	11
66.	Sh. Ashok Sharma	House No. A-87, Gali #, Brahmpuri, New Delhi 110 053	DISCOMs	18.07.2017	05
67.	Sh. Sanjeev Tyagi	House No. A-96, Ashok Nagar, Gali # 4	DISCOMs	18.07.2017	05

S. No.	Name	Address	Company / Licensee	Date of Receipt	No. of Pages
		Shahdara, New Delhi 110093			
68.	Sh. Ishwar Dutt	V-1150, Vijay Park, Maujpur, New Delhi -53	DISCOMs	18.07.2017	05
69.	Sh. Deepak Kumar,	A Block, 387, Gokal Puri, Delhi-94	DISCOMs	18.07.2017	05
70.	Sh. Ram Udgar	House No. 27/103, Bajar Gali, Vishwas Nagar, Delhi 110003	DISCOMs	18.07.2017	05
71.	Sh. Sanjay Sharma	House No. 298, Gali No. 1, Chanderlok, Durgapuri Delhi 110032	DISCOMs	18.07.2017	05
72.	Sh. Umesh	House No. WS 33, Sudamapuri, Babarpur, Delhi 110032	DISCOMs	18.07.2017	05
73.	Sh. Karan	House No. 8/242, Khichdipur, Delhi-91	DISCOMs	18.07.2017	05
74.	Sh. Vimal	House No. 495, Jwala Nagar, Badi Ramleela Ground Shahdara, Delhi -32	DISCOMs	18.07.2017	05
75.	Sh. Dushyant Kumar	RWA Nagar Market, Harsh Vihar Hari Nagar, Part III, Welfare Society, Badarpur, New Delhi 110044	DISCOMs	18.07.2017	01
76.	Sh. K.K. Singh President	Shakti Vihar , A Block Rahaysi Welfare Association (Regd.) Office No. 15, Street No. 5/2 A Block, Shakti Vihar, Badarpur, New Delhi 110044	DISCOMs	18.07.2017	01
77.	Sh. S.P. Rana President	Woman Exploit Grievance Federation I-Block, H.O. 456/12B, Harnagar, Jaitpur, New Delhi 110044	DISCOMs	18.07.2017	03
78.	Nilothi Extention Kalyan Sangthan	C-2/2 Himgiri Enclave, Gali No. 6, Nilothi Extension Delhi-41	DISCOMs	18.07.2017	03
79.	Sh. Anil Chandi Gen. Secretary	Maharana Pratap Bagh, RWA, C-Block, C-8/1 Rana Pratap Bagh, Delhi 110007	DISCOMs	18.07.2017	17
80.	Sh. Tej. B. Khattar Vice President	<a href="mailto:Mother.decghs@gmail.com">Mother.decghs@gmail.com</a>	DISCOMs	18.07.2017	05
81.	Sh. Vivek Aggarwal General Manager	Delhi Metro Rail Corporation Ltd. Metro Bhawan, Fire Brigade Lane, Barakhamba Road, New	DISCOMs	18.07.2017	34

S. No.	Name	Address	Company / Licensee	Date of Receipt	No. of Pages
		Delhi 110001			
82.	Sh. G. S. Kohli	C-6/6468, Vasant Kunj ,New Delhi -70	DISCOMs	18.07.2017	2
83.	Sh. Ram Babu Gupta	Jan Nyaya Bhomi, 227, Nilgiri Apartment Alaknanda New Delhi -110019	DISCOMs	18.07.2017	05
84.	Sh. Gulshan Bawa	E-14/8 Vasant Vihar, New Delhi	DISCOMs	18.07.2017	01
85.	Sh. Vivek Goel	C-2/66 Janak Puri, Delhi	DISCOMs	18.07.2017	02
86.	Sh. D.N Gopal	C-2/167 Janakpuri, New Delhi	DISCOMs	18.07.2017	02
87.	Sh. S.C. Dua	R/o 21, Kailash Hills, New Delhi- 65	DISCOMs	18.07.2017	02
88.	Sh. N.G. Dagar President	RWA Gopal Nagar,D-Block Najafgarh New Delhi	DISCOMs	18.07.2017	01
89.	Sh. S.D Bhatt	Mahavir Enclave Residents Welfare Society ,H-2/109, Mahavir Enclave-I New Delhi 110045	DISCOMs	18.07.2017	01
90.	Sh. Yugul Kishore Dwivedi Chairman	RZ-935, St. No. 14/3, Sadh Nagar, Palam Colony, New Delhi 110045	DISCOMs	18.07.2017	01
91.	Sh. Satvir Singh	Shri Ganga Vihar Resident's Welfare Association,Village Dindar Pur, Najafgarh, New Delhi 110043	DISCOMs	18.07.2017	01
92.	Sh. Manoj Mautiyal	Shri Ganga Vihar Resident's Welfare Association, Village Dindar Pur, Najafgarh, New Delhi 110043	DISCOMs	18.07.2017	01
93.	Sh. Gurpreet Singh President	Residents welfare Association WZ-958, Shop No. 2, Gali No. 10, Guru Nanak Nagar, New Delhi 110018	DISCOMs	18.07.2017	01
94.	Sh. Muni Raj Chairman	Residents welfare Association WZ-958, Shop No. 2, Gali No. 10, Guru Nanak Nagar, New delhi 110018	DISCOMs	18.07.2017	01
95.	Ms. Sushma Sharma	<a href="mailto:sushmayanv@gmail.com">sushmayanv@gmail.com</a>	DISCOMs	20.07.2017	11
96.	Sh. Jitender Agarwal	<a href="mailto:bawanacri@gmail.com">bawanacri@gmail.com</a>	DISCOMs	20.07.2017	03

S. No.	Name	Address	Company / Licensee	Date of Receipt	No. of Pages
97.	Smt. Huma Vice President	Jan Kalyan Mahila Samiti Community Centre DDA Flats Turkman Gate, Asaf Ali Road, Delhi 06	DISCOMs	20.07.2017	02
98.	Sh. A.K. Singh	Plot No. 669, Near Shahadr Metro, Sahadar, Delhi	BYPL	20.07.2017	01
99.	Sh. Yog Raj Goswami	Resident Welfare Association GH-1/231, Archana Apartments Paschim Vihar, New Delhi-63	DISCOMs	18.07.2017	01
100	Sh. B.D. Sharma	H. No. 69, Extn. -1 B, Nangloi New Delhi-110041	DISCOMs	18.07.2017	02
101	Sh. Ompal Singh Ahlawat President	Resident Welfare Association Kh. No. 826, VIII Chhattarpur, The.: Mehrauli, New Delhi	DISCOMs	18.07.2017	02
102	Sh. Krishan Kumar	Resident Welfare Society 455, Kakrola Housing Complex, Najafgarh Road, Near Metro Pillar No. 796, New Delhi 110059.	DISCOMs	18.07.2017	01
103	Sh. Veerpal Singh President	F-2 Block Residential Welfare Association, F-2/544A, Sangam Vihar, New Delhi 110062	DISCOMs	18.07.2017	01
104	Jyotish Kumar Sinha, HoD Regulatory	Tata Power Delhi Distribution Ltd. NDPL House, Hudson Lines Kingsway Camp Delhi 110009	IPGCL & PPCL DTL	18.07.2017 18.07.2017	13 12
105	Sh. Rajeev Chowdhury Head Regulatory Affairs	BSES Rajdhani Power Ltd. BSES Bhawan, Nehru Place, New Delhi 110019	DTL	18.07.2017	09
106	Sh. Sunil Kakkar Addl. Vice President	BSES Yamuna Power Ltd. 2 <sup>nd</sup> Floor, B-Block, Shakti Kiran Building, Karkardooma, New Delhi 110092	IPGCL & PPCL DTL	18.07.2017 18.07.2017	08 06
107	Sh. Ved Kumar Arya	Samaj Sudhar Simiti Islam Colony, 895A/ Ward No. 06, Mahrauli, New Delhi 110 030	DISCOMs	18.07.2017	01
108	Sh. Brij Mohan Mehta	Chamber No. 3, Lawyers Chamber Block Rohini Courts Complex, Delhi 110086	TPDDL	20.07.2017	02
109	Flt. Lt. I.D. Sharma, General Secretary	Arjun Nagar House Owners Welfare Association, 150, Arjun Nagar, New Delhi 110029	DISCOMs	21.07.2017 21.07.2017	01 01

S. No.	Name	Address	Company / Licensee	Date of Receipt	No. of Pages
110	Sh. Rajeev Goel Coordinator	Confederation of Relocated Industries Bawana, G-1, Sector-5 DSIIDC Bawana Industrial Complex, Bawana, Delhi -39. <a href="mailto:bawanacri@gmail.com">bawanacri@gmail.com</a>	DISCOMs	21.07.2017	02
111	Sh. Satish Nabardar	H. No. 760, Panna Mojan, Bawan, Delhi 110039	DISCOMs	21.07.2017	01
112	Sh. Dharmendra Kumar	Federation of Vikas Nagar Residents Welfare Association (Regd.), F-126, Shiva Enclave (Shiv Mandir Road), Vikas Nagar, New Delhi – 59	DISCOMs	21.07.2017	01

## Annexure -III

**STAKEHOLDERS WHO HAVE ATTENDED THE HEARING FOR THE PETITION FILED BY DISCOMS FOR TRUE UP OF EXPENSES UP TO FY 2014-15 & FY 2015-16, AND ANNUAL REVENUE REQUIREMENT (ARR) AND TARIFF FOR FY 2017-18**

S. No.	Name	Organization
1	Sh. Sharad Sharma	DMRC
2	Sh. Subodh Pandey	DMRC
3	Sh. Vivek Aggarwal	DMRC
4	Sh. Ved Parkash Arya	Consumer
5	Ms. Manuj Singhal	DMRC
6	Mr. Pawan Kumar	DMRC
7	Ms. Savita Swami	Consumer
8	Sh. G. S. Kohli	Consumer
9	Sh. Dr. S. P. Rana	Consumer
10	Sh. Shubham Kumar	DMRC
11	Sh. R. S. Jarout	DMRC
12	Sh. Vivek Bhandari	DMRC
13	Flt. Lt. I.D. Sharma	RWA
14	Sh. Om Pal Singh	RWA
15	Sh. S. R. Abrol	Consumer
16	Sh. K. K. Singh	RWA
17	Sh. Iqbal Ahmed	RWA
18	Sh. Farooq Engineer	Consumer
19	Sh. M. Shadab Qureshi	Consumer
20	Sh. Yograj Goswami	RWA
21	Sh. Sat Goel	RWA
22	Sh. Rajeev Kakaria	RWA
23	Sh. B. S. Vohra	RWA
24	Sh. Anil Kumar Khanna	RWA
25	Sh. Vinay Kumar	RWA
26	Sh. V.K. Malhotra	Pension Trust, DVB
27	Sh. R.K. Khurana	RWA
28	Sh. Anil Wadhera	RWA
29	Dr. Faheem BIG	RAW
30	Sh. Sohail Khan	Sophia NGO
31	Sh. Daya Ram Diwedi	Daily Passengers Association
32	Sh. Saurabh Gandhi	RWA
33	Sh. Dilip Chadha	RWA
34	Sh. Atul Gola	RWA
35	Sh. Tej B Khattar	Mother Dairy
36	Dr. M.K. Aggarwal	URD
37	Sh. Bal Krishan Gupta	RWA
38	Sh. Ram Pal Saini	RWA
39	Sh. Balbir Singh	RWA
40	Sh. M.C. Sharma	RWA
41	Sh. Damodar Keshyap	RWA



S. No.	Name	Organization
42	Kusum Sharma	Consumer
43	Sh. Rajeev Sharma	Consumer
44	Naeem Bharti	RWA
45	Satyaveer Singh	RWA
46	Sh. Manoj Nautiyal	RWA
47	Ms. Sushila Bansal	RWA
48	Sh. Manmohan Verma	RWA
49	Sh. P.S. Tomar	RWA
50	Sh. Jitender Aggarwal	CRI
51	Sh. Ashok Bhasin	NDRWF
52	Sh. Sanjay Gupta	CRI
53	Sh. Prem Kumar Sharma	NBCC
54	Sh. Lal Keshwar Shah	NBCC
55	Sh. Anil Kumar Jha	RWA
56	Sh. S.K. Sharma	RWA
57	Sh. Shabhonath Thakur	RWA
58	Sh. Shushil Kumar	RWA
59	Sh. Harish Kumar	RWA
60	Sh. Sanjay Gupta	IWA
61	Ms. Reena Kori	IDAM
62	Sh. P.K. Singhal	RWA
63	Sh. Shiv Kumar Sharma	NBCC
64	Sh. S.L. Gosain	RWA
65	Sh. Jitender Tyagi	URD
66	Sh. Jawed	URD
67	Smt. Sarla Rani	RWA
68	Ms. Arti	RWA
69	Sh. Sunil Kumar	RWA
70	Sh. Pramod Kapoor	RWA
71	Sh. Om Prakash Ahuja	RWA
72	Sh. Sandeep Bhatnagar	RWA
73	Sh. Surender Tomar	URD
74	Ms. Poonam Taneja	MMTC
75	Ms. Anita Guptrishi	MMTC
76	Ms. Radha Bhardwaj	RWA
77	Ms. Geeta Mahour	RWA
78	Sh. D.M. Narang	RWA
79	Sh. Arvind Mehta	RWA
80	Sh. Sukhveer Singh	RWA
81	Sh. Satish Nambardar	RWA
82	Sh. Sukhveer Singh	RWA
83	Sh. Sunny	RWA
84	Sh. Satveer Singh Fauji	RWA
85	Sh. Karanvir Singh	Delhi Pradesh
86	Sh. Rajan Gupta	Consumer
87	Sh. Balram	Consumer

S. No.	Name	Organization
88	Sh. Shiv Kumar Sharma	Consumer
89	Sh. Parvinder	Consumer
90	Dr. Ompal Singh Dhingan	RWA
91	Sh. Balvinder Singh Thappar	RWA
92	Ms. Jyoti Nanda	IERS
93	Ms. Priya Diwedi	IERS
94	Ms. Sushma Sharma	RWA
95	Sh. Vineet Goel	RWA
96	Sh. V. K. Sharma	RWA
97	Sh. Bhudev Sharma	RWA
98	Sh. Krishan Kumar	RWA
99	Sh. R. P. Sharma	RWA
100	Sh. S. C. Dua	Consumer
101	Sh. J. S. Marwah	Consumer
102	Sh. Subash Goel	Consumer
103	Sh. Basant Somani	Consumer
104	Sh. Ashish Garg	Consumer
105	Sh. A.K. Dutta	Consumer
106	Ms. Roshni	Consumer
107	Sh. H.R. Bhardwaj	DVB Pensioner
108	Sh. B. M. Mehta	Advocate