

## DELHI ELECTRICITY REGULATORY COMMISSION

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

F.11(1753)/DERC/2019-20/

#### Petition No. 05/2020

In the matter of:

Petition for determination of tariff for FY 2020-21 and Truing up of Aggregate Revenue Requirement (ARR) for FY 2018-19.

Pragati Power Corporation Ltd. Through its: Director (Tech.)

Himadri, Rajghat Power House Complex

New Delhi 110 002

...Petitioner/Licensee

Coram:

Hon'ble Sh. Justice S S Chauhan, Chairperson

Hon'ble Sh. A.K. Singhal, Member Hon'ble Dr. A. K.Ambasht, Member

#### **ORDER**

(Date of Order: 28.08.2020)

M/s. Pragati Power Corporation Itd. (PPCL) has filed the instant Petition for determination of tariff for FY 2020-21 and Truing up of Aggregate Revenue Requirement (ARR) for FY 2018-19. The Petition was admitted by the Commission vide Order dated 24.01.2020. The Petition along with Executive summary was uploaded on the website of the Commission and publicised through advertisement in newspapers for seeking response of the stakeholders.

Considering the submissions made by the Petitioner as well as the comments and suggestions of the stakeholder, the Commission in exercise of power vested in it by the Electricity Act, 2003 and Delhi Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulations, 2017, hereby passes this Tariff Order signed, dated and issued on 28.08.2020.

The Petitioner shall take immediate steps to implement this Tariff Order, so as to make the revised tariffs applicable from 01.09.2020.

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 Aat, 2003 and the Regulations made thereunder.

(A.K. Ambasht) Member (A.K. Singhal)

(Justice \$ \$ Chauhan) Chairperson

## **CONTENTS**

A1: INTRODUCTION	9
PRAGATI POWER CORPORATION LIMITED (PPCL)	9
DELHI ELECTRICITY REGULATORY COMMISSION	9
THE COORDINATION FORUM MEETING	9
MULTI YEAR TARIFF REGULATIONS	10
FILING OF PETITION FOR TRUE-UP OF FY 2018-19 AND ARR FOR FY 2020-21	11
FILING AND ACCEPTANCE OF PETITION	11
INTERACTION WITH THE PETITIONER AND OUTBREAK OF COVID-19	11
PUBLIC NOTICE	13
LAYOUT OF THE ORDER	15
APPROACH OF THE ORDER	16
APPROACH FOR TRUE UP OF FY 2018-19	16
APPROACH FOR ARR AND TARIFF FOR FY 2020-21	16
A2: RESPONSE FROM STAKEHOLDERS	17
INTRODUCTION	17
ISSUE 1: STATION HEAT RATE	
ISSUE 2: AVAILABILITY	
ISSUE 3: AUXILIARY POWER CONSUMPTION	
ISSUE 4: O&M AND ADDITIONAL R&M EXPENSES	22
ISSUE 5: WEIGHTED AVERAGE COST OF CAPITAL (WACC) FOR THE PURPOSE OF COM ON CAPITAL EMPLOYED (RoCE)	
ISSUE 6: NON-TARIFF INCOME	26
ISSUE 7: ENERGY CHARGE RATE & FUEL COST	26
ISSUE 8: REQUIREMENT OF LOAN AND EQUITY	27
ISSUE 9: DEPRECIATION	28
ISSUE 10: CAPITAL EXPENDITURE (CAPEX)	28
ISSUE 11: WORKING CAPITAL	29
ISSUE 12: INCOME TAX AND AUDITED FINANCIAL STATEMENT	
A3: TRUE UP OF FY 2018-19	
NORMS OF OPERATION	
AVAILABILITY	33
STATION HEAT RATE (SHR)	34



## PRAGATI POWER CORPORATION LIMITED

AUXILIARY POWER CONSUMPTION (APC)	36
PLANT LOAD FACTOR (PLF)	37
VARIABLE COST FOR PPS-I	38
FUEL CONSUMPTION	38
FIXED COST	40
OPERATION & MAINTENANCE (O&M) EXPENSES	40
CAPITAL EXPENDITURE	44
DEPRECIATION	46
WORKING CAPITAL	47
REQUIREMENT OF LOAN AND EQUITY	49
RETURN ON CAPITAL EMPLOYED	50
INCOME TAX EXPENSES	57
PETITIONER'S SUBMISSION	57
FIXED AUXILIARY CONSUMPTION EXPENSES	57
NON-TARIFF INCOME	59
SUMMARY OF FIXED COST	60
A4: ANALYSIS OF AGGREGATE REVENUE REQUIREMENT (ARR) FOR FY 2020-21	62
NORMS OF OPERATION	62
PLANT AVAILABILITY AND PLANT LOAD FACTOR	62
STATION HEAT RATE	63
GROSS AND NET GENERATION	66
ENERGY CHARGE RATE AND VARIABLE COST	67
FIXED COST	<b>7</b> 1
OPERATION AND MAINTENANCE EXPENSES	71
PETITIONER'S SUBMISSION	71
CAPITAL EXPENDITURE	73
DEPRECIATION	74
MEANS OF FINANCING	76
WORKING CAPITAL	77
WEIGHTED AVERAGE COST OF CAPITAL (WACC) AND RETURN ON CAPITAL EMPLOYED (ROCE)	79
NON-TARIFF INCOME	86
SUMMARY OF FIXED COST	86
A5: DIRECTIVES ISSUED BY THE COMMISSION	8



Table 1.1: Issues Discussed in 29 <sup>th</sup> Co-ordination Forum Meeting	10
Table 3. 1: Petitioner's Submission: Plant Availability for FY 2018-19	33
Table 3. 2: Commission Approved: Plant Availability for FY 2018-19	34
Table 3. 3: Petitioner's Submission: Station Heat Rate (kCal/kWh)	34
Table 3. 4: Commission Approved: Station Heat rate	36
Table 3. 5: Petitioner's Submission: Auxiliary Power Consumption	36
Table 3. 6: Commission Approved: Fixed Auxiliary Power Consumption	37
Table 3. 7: Commission Approved: Auxiliary Power Consumption	37
Table 3. 8: Petitioner's Submission: Gross and Net Generation	38
Table 3. 9: Petitioner's Submission: Plant Load Factor	38
Table 3. 10: Commissions Approval: Plant Load Factor for FY 2018-19	38
Table 3. 11: Petitioner's Submission: Total Gas Consumption	39
Table 3. 12: Petitioner's Submission: Energy Charge Rate and Fuel Cost	39
Table 3. 13: Petitioner's Submission: O&M Expenses (Rs. Lakh/MW)	40
Table 3. 14: Petitioner's Submission: O&M Expenses	41
Table 3. 15: Petitioner's submission: Carrying Cost on the deferred amount	42
Table 3. 16: Petitioner's Submission: Additional R&M for FY 2014-15	43
Table 3. 17: Commission Approved: O&M Expenses	44
Table 3. 18: Petitioner's Submission: Capex Schemes for FY 18-19	45
Table 3. 19: Petitioner's Submission: Capital Expenditure	45
Table 3. 20: Commission Approved: Capital Expenditure	46
Table 3. 21: Petitioner's Submission: Depreciation	46
Table 3. 22: Commission Approved: Depreciation	47
Table 3. 23: Petitioner's Submission: Requirement of Working Capital	48
Table 3. 24: Commission Approved: Requirement of Working Capital	49
Table 3. 25: Petitioner's Submission: Requirement of Loan & Equity	49
Table 3. 26: Commission Approved: Requirement of Loan & Equity	50
Table 3. 27: Petitioner's Submission: WACC and RoCE (Rs. Cr.)	52



## PRAGATI POWER CORPORATION LIMITED

Table 3. 28: Commission Approved: WACC and RoCE	57
Table 3. 29: Petitioner's Submission: Fixed Auxiliary Consumption Expenses	58
Table 3. 30: Commission Approved: Fixed Auxiliary Consumption Expenses	59
Table 3. 31: Commission Approved: LPSC Considered as NTI	60
Table 3. 32: Commission Approved: Computation of NTI	60
Table 3. 33: Petitioner's Submission: Annual Fixed Cost	60
Table 3. 34: Commission Approved: Annual Fixed Cost	61
Table 4. 1: Plant Availability submitted by the Petitioner	62
Table 4. 2: Proposed SHR submitted by the Petitioner	63
Table 4. 3: Auxiliary Power Consumption submitted by the Petitioner	65
Table 4. 4: Petitioner Submission: Gross and Net Generation	66
Table 4. 5: Gross and Net Generation approved by the Commission (MU)	67
Table 4. 6: Fuel Cost for PPS-I submitted by the Petitioner	68
Table 4. 7: Fuel Parameters considered for determination of ECR	70
Table 4. 8: Commission Approved: ECR and Fuel Cost	70
Table 4. 9: Petitioner Submission: O&M Expenses	71
Table 4. 10: O&M Expenses approved by the Commission	73
Table 4. 11: Capital Expenditure submitted by the Petitioner	73
Table 4. 12: Capital Expenditure approved by the Commission	73
Table 4. 13: Depreciation submitted by the Petitioner	74
Table 4. 14: Depreciation approved by the Commission	75
Table 4. 15: Requirement of Loan & Equity submitted by the Petitioner	76
Table 4. 16: Requirement of Loan and Equity computed by the Commission	77
Table 4. 17: Requirement of Working Capital as submitted by the Petitioner	77
Table 4. 18: Working Capital Requirement approved by the Commission	78
Table 4. 19: WACC and RoCE submitted by the Petitioner	79
Table 4. 20: WACC and RoCE approved by the Commission	85
Table 4. 21: Total Fixed Cost submitted by the Petitioner	86
Table 4. 22: Annual Fixed Cost approved by the Commission	87



## **LIST OF ABBREVIATIONS**

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			
ВРТА	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			
СРІ	Consumer Price Index			
CPRI	Central Power Research Institute			
CPSUs	Central Power Sector Utilities			
COVID	Corona Virus Disease			
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			



Abbreviation	Explanation	
DPCL	Delhi Power Company Limited	
DTL	Delhi Transco Limited	
DVB	Delhi Vidyut Board	
DVC	Damodar Valley Corporation	
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	Jhugghi 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	



Abbreviation	Explanation		
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		
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 Pragati Power Corporation Limited (PPCL) (hereinafter referred to as 'IPGCL' or the 'Petitioner') for True-Up of Aggregate Revenue Requirement (ARR) for FY 2018-19 for Generation Business in terms of Delhi Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulations, 2017 (hereinafter referred to as 'Tariff Regulations, 2017') and Delhi Electricity Regulatory Commission (Business Plan) Regulations, 2017 (hereinafter referred to as 'Business Plan Regulations, 2017 and Delhi Electricity Regulatory Commission (Business Plan) Regulations, 2019 (hereinafter referred to as 'Business Plan Regulations, 2019').

## PRAGATI POWER CORPORATION LIMITED (PPCL)

1.2 PPCL, wholly owned by the Government of National Capital Territory of Delhi, is a generating company which operates the Pragati Power Station-I (330 MW) power generating station, having two gas turbine units of 104 MW each and one steam turbine unit of 122 MW.

#### **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 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 formulation of Tariff Regulations and Tariff determination.

#### THE COORDINATION FORUM MEETING

1.5 Govt. of NCT of Delhi vide notification No. F.11/36/2005/Power/1789 dated 16.06.2005 constituted the Coordination Forum, comprising of Chairperson and Members of DERC,



- CMD of DTL, Managing Director of IPGCL/PPCL, CEOs of NDPL (now TPDDL), BYPL and BRPL with Secretary, DERC as the Member Secretary. Since the Committee constituted did not include NDMC and MES, who also distribute power in Delhi, the Commission had decided to invite them for all the meetings.
- 1.6 The 29th Co-ordination Forum Meeting was held on 04/03/2020 in the office of the Commission. Apart from the Chairperson, Members and other senior officers from the Commission, the 29th Co-ordination Forum Meeting witnessed participation from CEOs of BRPL and BYPL, representatives of DTL, SLDC, IPGCL, PPCL, TPDDL, NDMC.
- 1.7 The issues which were deliberated during the meeting are as listed below:

Table 1.1: Issues Discussed in 29th Co-ordination Forum Meeting

S. No.	Issues Discussed
a.	Confirmation of minutes dated 09/03/2015 and amendment dated 07/04/2015, action taken on decisions.
b.	Summer Preparedness
c.	Presentation by DTL on Islanding scheme in Delhi
d.	Proposal for disposal of DTs inherited from DVB which are beyond repair.
e.	Review Progress of replacement of oil filled transformers by dry type transformers
f.	Compliance of information to the consumers for scheduled power outages and un-scheduled power outages.
g.	Channels and manpower for registration of complaints related to outages during summer period.
h.	Status of implementation of Smart Meters
i.	Status of maintenance of toll free number for registration of electricity grievance.
j.	Surrender/ Re-allocation of Long Term Power, considering Demand-Supply scenario till FY 2024-25.
k.	Status of RPO Compliance and initiatives thereafter to meet the trajectory as stipulated in DERC (Business Plan Regulations), 2019.
I.	DSM initiatives and Actual Savings thereafter.

#### **MULTI YEAR TARIFF REGULATIONS**

1.8 The Commission issued Tariff Regulations, 2017 vide gazette notification dated 31/01/2017 specifying Terms and Conditions for Determination of Tariff for Generation of Electricity under the Multi Year Tariff (MYT) framework. Further the operational norms for Generation utilities have also been approved by the Commission in Business Plan Regulations, 2017 under Tariff Regulations, 2017 for the period FY 2017-18 to FY 2019-20, and, in Business Plan Regulations, 2019 under Tariff Regulations, 2017 for the period FY 2020-21 to FY 2022-23.



## FILING OF PETITION FOR TRUE-UP OF FY 2018-19 AND ARR FOR FY 2020-21 FILING AND ACCEPTANCE OF PETITION

- 1.9 PPCL has filed its Petitions for the approval of Truing up of Expenses upto FY 2018-19 and ARR for FY 2020-21, before the Commission on 26/12/2019 and 03/02/2020 respectively.
- 1.10 The Commission admitted the Petitions for the approval of Truing up of Expenses upto FY 2018-19 and ARR for FY 2020-21 vide its Orders dated 24/01/2020 and 20/02/2020 respectively, subject to clarifications / additional information, if any, which would be sought from the Petitioner from time to time. Copies of the Admission Orders dated 24/01/2020 and 20/02/2020 are enclosed as Annexure I & I(a) to this Order.
- 1.11 Further, in view of the changed circumstances due to COVID-19, the Commission deemed it appropriate to give an opportunity to utilities to submit revised Tariff Petitions/ additional information w.r.t. ARR for FY 2020-21, by 30/05/2020.
- 1.12 On request of utilities to extend the time period for submission of revised Tariff Petitions for FY 2020-21, the final date for submission was extended upto 05/06/2020.
- 1.13 The complete copy of the Petition filed by the Petitioner along with additional information has been uploaded on website of the Commission (www.derc.gov.in) and the Petitioner.
- 1.14 The Executive Summary of Tariff Petitions, Executive Summary of Additional Information have also been uploaded on Commission's website at www.derc.gov.in.

#### INTERACTION WITH THE PETITIONER AND PUBLIC HEARING

- 1.15 The Order has referred at numerous places about 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 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.
- 1.16 The Commission relies upon the analysis conducted by the Tariff Division comprising of



- Executive Director (Tariff), Joint Director (Tariff-Engineering), Joint Director (Tariff-Finance), Deputy Director (Tariff-Engineering), Deputy Director (Tariff Accounts-Financial Analysis) and Deputy Director (Tariff-Economics) for preparation of the Orders.
- 1.17 A preliminary scrutiny/analysis of the Petition submitted by the Petitioner was carried out. Additional information/clarifications have been sought from the Petitioner as and when required. The Commission and the Petitioner have discussed key issues raised in the Petition, which included details of O&M expenses, Assets Capitalization, Depreciation, Working Capital Requirement, Return on Capital Employed (RoCE), etc. The Petitioner submitted additional information through various letters/emails.
- 1.18 The Commission also conducted multiple validation sessions with the Petitioner during which discrepancies in the petition and additional information as required by the Commission were sought. Subsequently, the Petitioner submitted replies to the issues raised and provided details and documentary evidence to substantiate its claims regarding various submissions.
- 1.19 The Commission scheduled a Public Hearing on Tariff Petitions for True Up of FY 2018-19 and ARR for FY 2020-21 on 18/03/2020 to take a final view with respect to various issues concerning the principles and guidelines for tariff determination.
- 1.20 However, due to outbreak of Corona Virus Disease declared as a pandemic by WHO (GoNCTD's Notification No.F.51/DGHS/PH-IV/COVID19/2020/prsecyhfw/2393-2407 dated 13/03/2020), the Public Hearing scheduled on 18/03/2020 was cancelled and last date of submission of comments/suggestions on Tariff Petitions for True up of FY 2018-19 and ARR for FY 2020- 21 which was earlier kept till 20/03/2020 was thus extended till the next date of Public Hearing. The Public Notices, in this regard, were issued by the Commission.
- 1.21 In relation to COVID-19, as per Order no. 40-3/2020-DM-I(A) dated 30/05/2020 issued by Ministry of Home Affairs, Government of India, large gatherings/ congregations have continued to remain prohibited. Giving due consideration to arisen scenario due to outbreak of Corona Virus Disease which refrains from holding Public Gatherings, the Commission finally decided not to conduct Public Hearing this year, for issuance of Tariff Order related to True up of FY 2018-19 and ARR of FY 2020-21 and communicated the



- same through public notice including on Commission's website. Alternatively, all stakeholders have been given additional time-period till 30/06/2020 for submitting comments/suggestions on tariff petitions/ additional information filed by the utilities.
- 1.22 A soft copy of the petition was also made available in CD form on payment of Rs. 25/per CD or a copy of the petition was also made available for purchase from the
  respective Petitioner's head-office on working day till 30/06/2020 between 11 A.M. and
  4 P.M. on payment of Rs.100/- either by cash or by demand draft/pay order.
- 1.23 In order to extend help to the stakeholders in understanding the ARR Petition and filing their comments, four officers of the Commission viz. Joint Director (Tariff-Engineering), Joint Director (Performance Standards & Engineering), Deputy Director (Tariff Accounts-Financial Analysis) and Deputy Director (Tariff-Engineering) were nominated for discussion on the ARR Petitions. This was duly mentioned in the Public Notices published by the Commission.
- 1.24 The Commission received written comments from the 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.
- 1.25 The issues and concerns raised by various stakeholders have been examined by the Commission. The major issues made by the stakeholders, the responses of the Petitioner thereon and the views of the Commission, have been summarized in Chapter A2.
- 1.26 The Commission has therefore considered the inputs/comments received from various stakeholders alongwith the due diligence conducted by the officers of the Commission in arriving at its final decision.

#### **PUBLIC NOTICE**

1.27 The Commission has issued Public Notice in the following newspapers (on dates mentioned alongside), indicating the venue, date and time of Public Hearing scheduled on 18/03/2020 and inviting comments from stakeholders on the Tariff Petition filed by the Petitioner latest by 20/03/2020:

 (a)
 Hindustan Times (English)
 : 04/03/2020

 (b)
 The Hindu (English)
 : 04/03/2020

 (c)
 The Times of India (English)
 : 04/03/2020



(d) 04/03/2020 Mail Today (English) (e) Navbharat Times(Hindi) 04/03/2020 (f) Punjab Kesri (Hindi) 04/03/2020 04/03/2020 (g) Dainik Jagran (Hindi) 04/03/2020 (h) Jadid-In-Dinon (Urdu) 04/03/2020 (i) Jan Ekta (Punjabi)

Public Notice was also uploaded on Commission's website www.derc.gov.in.

1.28 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 20/03/2020 in the following newspapers on the respective dates mentioned alongside:

Business Standard (English) 06/03/2020 (a) The Indian Express (English) 06/03/2020 (b) Dainik Jagran (Hindi) 06/03/2020 (c) The Daily Educator New Delhi (Punjabi) 06/03/2020 (d) Milap (Urdu) 06/03/2020 : (e)

1.29 As stated in preceding paras that due to outbreak of Corona Virus Disease declared as a pandemic by WHO (GoNCTD's Notification No.F.51/DGHS/PH-IV/COVID19/2020/prsecyhfw/2393-2407 dated 13/03/2020), the Public Hearing which was scheduled on 18/03/2020 was cancelled. The Commission issued a Public Notice in this regard in the following newspapers:

Hindustan Times (English) 14/03/2020 (a) (b) The Hindu (English) 14/03/2020 (c) Times of India (English) 14/03/2020 (d) Mail Today (English) 14/03/2020 (e) Navbharat Times (Hindi) 14/03/2020 (f) Dainik Jagran (Hindi) 14/03/2020

Public Notice was also uploaded on Commission's website www.derc.gov.in.

1.30 Further, in view of the circumstances arisen due to outbreak of COVID-19 which refrains from holding Public Gatherings, the Commission decided not to conduct Public Hearing, for issuance of Tariff Order related to True up of FY 2018-19 and ARR of FY 2020-21, and all stakeholders have been given additional time-period till 30.06.2020 for submitting



comments/suggestions on tariff petition/ additional information filed by the Petitioner. In this regard, the Commission issued Public Notice in the following newspapers inviting comments from stakeholders on the Revised Tariff Petitions and additional information filed by the Petitioner latest by 30/06/2020:

Hindustan Times (English) 13/06/2020 (a) The Hindu (English) 13/06/2020 (b) (c) The Times of India (English) 13/06/2020 Mail Today (English) 13/06/2020 (d) Navbharat Times(Hindi) 13/06/2020 (e) (f) Punjab Kesri (Hindi) 13/06/2020 Dainik Jagran (Hindi) 13/06/2020 (g) (h) Jadid-In-Dinon (Urdu) 13/06/2020 (i) Jan Ekta (Punjabi) 13/06/2020

1.31 Copies of all the Public Notices are available on Commission's website <u>www.derc.gov.in</u>

#### LAYOUT OF THE ORDER

- 1.32 This Order is organised into five Chapters:
  - a) Chapter A1 provides details of the tariff setting process and the approach of the Order.
  - b) Chapter A2 provides brief of the comments of various stakeholders, the Petitioner's response and views of the Commission thereon.
  - c) Chapter A3 provides details/analysis of the True up of FY 2018-19 and impact of past period true up based on judgement of Hon'ble APTEL, if any, Review Order of the Commission, if any, and its directives on the matter.
  - d) Chapter A4 provides determination of the Aggregate Revenue Requirement for FY 2020-21 of Gas Turbine Power Station.
  - e) Chapter A5 provides details of the Directives of the Commission.
- 1.33 The Order contains following Annexures, which are an integral part of the Tariff Order:
  - a) Annexure I & I(a) Admission Orders.
  - b) Annexure II List of the stakeholders who submitted their comments on Trueup of expense for FY 2018-19 and approval of Aggregate Revenue Requirement & Tariff for FY 2020-21.



#### APPROACH OF THE ORDER

#### **APPROACH FOR TRUE UP OF FY 2018-19**

- 1.34 The Commission in its Business Plan Regulations, 2017 has indicated that Regulations shall remain in force for a period of three (3) years. The relevant Regulation of Business Plan Regulations, 2017, in this regard, is as follows:
  - "1(2) These Regulations, shall remain in force for a period of 3 (three) years i.e., for FY 2017-18, FY2018-19 and FY 2019-20, unless reviewed earlier."
- 1.35 The Commission in its Tariff Regulations, 2017 has specified that Regulations shall be deemed to have come into effect from 1<sup>st</sup> February, 2017. The Relevant Regulation of Tariff Regulations, 2017, in this regard, is as follows:
  - "(4) These Regulations shall be deemed to have come into force from Ist February, 2017 and shall remain in force till amended or repealed by the Commission. "
- 1.36 Accordingly, ARR for FY 2018-19 has been trued up as per Tariff Regulations, 2017 and Business Plan Regulations, 2017.

#### APPROACH FOR ARR AND TARIFF FOR FY 2020-21

- 1.37 The Commission vide its Notification dated 31<sup>st</sup> January, 2017 had issued Tariff Regulations, 2017. Further, the Commission has issued Business Plan Regulations, 2019.
- 1.38 The Commission has evaluated the revised ARR/ additional information submitted by the Petitioner on the basis of the provisions in Tariff Regulations, 2017 read with Business Plan Regulations, 2019 and other factors considered appropriate by the Commission as discussed hereafter.



#### A2: RESPONSE FROM THE STAKEHOLDERS

2.1 Summary of Objections/ suggestions from stakeholders, the response of Pragati Power Corporation Limited (PPCL) and Commission's view.

#### INTRODUCTION

- 2.2 Section 64(3) of Electricity Act, 2003, stipulates that the Commission shall determine tariff under Section 62 of the Electricity Act, 2003 for the Generating Company, after consideration of all suggestions received from the public and the response of the Generating Company to the objections/suggestions of stakeholders and will issue a tariff order accepting the application with such modifications or such conditions as may be specified in the order.
- 2.3 The Commission has examined the issues taking into consideration the comments/ suggestions offered by the various stakeholders in their written statements and the response of the Petitioner thereon.
- 2.4 The Commission endeavours to issue Tariff Orders as per provisions of the Electricity Act, 2003.
- 2.5 The Commission vide its Public Notice dated 04/03/2020 scheduled a Public Hearing on Tariff Petitions for True-Up of FY 2018-19 and ARR for FY 2020-21 on 18 March 2020 to take a final view concerning various issues concerning the principles and guidelines for tariff determination.
- 2.6 However, due to outbreak of Corona Virus Disease declared as a pandemic by WHO (GoNCTD's Notification No.F.51/DGHS/PH-IV/COVID19/2020/prsecyhfw/2393-2407 dated 13/03/2020), the Public Hearing which was scheduled on 18/03/2020 was cancelled and the last date of submission of comments/suggestions on Tariff Petitions for True-up of FY 2018-19 and ARR for FY 2020- 21 which was earlier kept till 20/03/2020 was thus extended till the next date of Public Hearing. The Public Notices, in this regard, were issued by the Commission.
- 2.7 Concerning COVID-19, as per Order No. 40-3/2020-DM-I(A) dated 30/05/2020 issued by Ministry of Home Affairs, Government of India, large gatherings/ congregations have continued to remain prohibited. Giving due consideration to arisen scenario due to outbreak of Corona Virus Disease which refrains from holding Public Gatherings, the



Commission decided not to conduct Public Hearing this year with regard to Tariff Order related to True-up of FY 2018-19 and ARR of FY 2020-21 and communicated the same through public notice including on Commission's website. Alternatively, all stakeholders have been given additional time-period till 30/06/2020 for submitting comments/suggestions on tariff petitions/ additional information filed by the utilities.

2.8 The comments/suggestions of various stakeholders, the replies/response by the Petitioner and the views of the Commission thereon are summarized under various subheads below.

#### **ISSUE 1: STATION HEAT RATE**

- 2.9 The Petitioner has claimed Station Heat Rate for Combined Cycle as 1989 kcal/kWh and Open Cycle as 3105 kcal/kWh for FY 2018-19. Such relaxations are not justified at all as the new plants of similar configuration are all able to operate well within norms. The Petitioner has not been able to clarify technically why there should be any exception in their case. Such relaxation will lead to increase in variable charges perennially affecting overall tariff to the retail consumer.
- 2.10 The Petitioner has submitted that Heat Rate achieved by the station in open cycle mode is on higher side due to frequent start/stops and partial operation of the units as it has to run on open cycle mode as requisitioned by SLDC. The same is not accepted as this is very much controllable within Petitioner's operating abilities.
- 2.11 As per Delhi Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulations, 2017 and Delhi Electricity Regulatory Commission (Business Plan) Regulations, 2017, the approved Station Heat Rates are Combined Cycle-2000 kcal/kWh and Open Cycle-2900 kcal/kWh. Accordingly, the Commission is requested to consider ceiling Station Heat Rate as per Regulations or actual whichever is lower.
- 2.12 Further, the Petitioner has not given any monthly adjustment in line with Regulation 148 and 149 of Delhi Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulations, 2017. However, CERC Tariff Regulations stipulate sharing of gain on achieving the SHR by 50:50.



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

- 2.13 There were also frequent start and stops of the machines resulting in higher Station Heat Rate both in combined cycle and open cycle mode. The frequent start and stops were due to erratic scheduling of power by SLDC and DISCOMs.
- 2.14 As regards the comment of BYPL regarding Sharing of saving in normative parameters, it is to submit that though as per regulation 148 and 149 of DERC tariff regulation 2017 the benefit was to be shared .The , clause 149 reads as under:

"the financial gain to a generating company or the transmission licensee on account of operational parameters shall be shared in the ratio as specified by the commission in the Business Plan Regulations."

2.15 However, in Business Plan Regulation, 2017 of DERC, the concept of such sharing has been dropped by the commission.

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

2.16 The Commission has considered the Station Heat Rate of the Petitioner Plant in open and combined cycle mode as per the provisions of Tariff Regulations, 2017 along with Business Plan Regulations, 2017 & 2019 for the respective periods while determining tariff for True-up of FY 2018-19 and ARR for FY 2020-21. Further, with regards to stakeholder comment related to sharing mechanism as per Tariff Regulation 2017, it is clarified that the Commission has not specified any such mechanism in Business Plan Regulations 2017.

#### ISSUE 2: AVAILABILITY

- 2.17 PPCL is already recovering the full "FC" as allowed by Commission at 85% of the availability. Delhi DISCOMs have to pay the high variable cost on account of RLNG gas being used by generator. It is the duty of the generator to arrange the fuel at reasonable cost effective rate to earn the incentive. Hence the Petitioners demand for scheduling as per availability is not justifiable.
- 2.18 PPCL has submitted that it has achieved availability of 88.36%during FY 2018-19
- 2.19 The actual contracted quantity of APM gas is not provided by the Petitioner. It may be



noted that the plant is rarely scheduled beyond 42% of its installed capacity due to cost associated with RLNG. The Petitioner should manage with the APM gas only. However due availability in RLNG source, the Petitioner is declaring availability, which is not justifiable.

2.20 Therefore, we request Commission to consider PLF in line with the DERC (Terms and Conditions for Determination of Tariff) Regulations, 2017 and Business Plan Regulations, 2017 and direct Delhi SLDC to restrict not to schedule power in RLNG/Spot RLNG and allow MoD principle in this plants rather than as Must run station.

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

2.21 In this regard it is to submit that PPCL provides available generation from different gases and their rates to DISCOMs including BYPL on day-ahead basis. There is regular cut on the cheaper gas available for the plant by MoP & NG and the Petitioner have no control over the allocation of domestic cheaper gas. However, Petitioner makes full effort for availability of cheaper domestic gas with GAIL and the rest is taken from Imported gas i.e RLNG & Spot RLNG as per the schedule from beneficiaries.

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

2.22 The Commission has considered the Availability in line with the provisions of Tariff Regulations, 2017 alongwith Business Plan Regulations, 2017 & 2019 for the respective periods.

#### ISSUE 3: AUXILIARY POWER CONSUMPTION

- 2.23 The Petitioner has claimed Auxiliary consumption of 2.39% against normative 2.5% without bifurcating it into two parts (i.e Fixed & Variable). The Petitioner is requested to bifurcate the Auxiliary consumption into two parts and for the purpose of tariff fixation the auxiliary consumption limit would not be higher than the normative targets as specified in the Business Plan Regulations, 2017.
- 2.24 Further, the target Auxiliary consumption of 2.5% is only the ceiling limit and the actual auxiliary consumption may be less than 2.5%. It is suggested to do periodic energy audit for auxiliary consumption by installing meters on UAT and station transformers to rule out any possibility of abuse of such auxiliary electricity.



- 2.25 Further, Double claim has been sought by the Petitioner on portion of fixed part of Auxiliary Consumption. The fixed part of Auxiliary Consumption of 0.5% has been included while computing net generation and also claimed fixed cost for the same as a part of ARR.
- 2.26 Commission to consider Auxiliary Consumption in line with the DERC (Terms and Conditions for Determination of Tariff) Regulations, 2017 and Business Plan Regulations, 2017.

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

- 2.27 In this regard it is to submit that normative APC may be achieved only when the schedule generation of the plant is @ normative NAPLF i.e. 85% or in the cases of continuous running of full module without frequent starts/stops and backing down.
- 2.28 Further, as submitted in the petition, the station will consume 2.5% of auxiliary energy or lesser only in case of optimum loading and continuous operation. However, the station was running at part load operation most of the time during the year and there were also frequent start and stops of the machines due to erratic scheduling, resulting in higher APC. As regards Installation of energy meter for APC, it is to submit that required meters have already been installed by DTL in line with existing regulation of CEA.
- Further, in reference to double claim in part of Auxiliary consumption, it is to submit that as per DERC BPR 2017, the auxiliary consumption has two parts i.e. 2% and 0.5% of gross generation. The 0.5% of gross generation is recoverable as part of fixed component of the tariff at the rate approved by DERC at the time of issue of tariff order for FY 2018-19. However, in truing up due to change in fuel cost the overall ECR for the year has been changed, therefore, amount of recovery of auxiliary consumption against 0.5% of fixed part has also increased /changed. IPGCL has calculated only revised total amount of fixed part of auxiliary consumption. However additional amount recoverable will be difference of as submitted by IPGCL in present petition and already recovered during FY 2018-19. In any case while carrying out truing up, individual fixed cost components as per regulations, state commission necessarily deducts/adjusts already recovered amount as already allowed in previous tariff order.



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

2.30 The Commission has considered the Auxiliary Power Consumption as approved in Business Plan Regulations, 2017 & 2019 for the respective periods.

#### ISSUE 4: O&M AND ADDITIONAL R&M EXPENSES

- 2.31 The Commission in its earlier True-up Order has allowed DLN burner charges only to the extent of the amount mentioned in Business Plan Regulation's, 2017. Thus, no additional amount of Rs 1.10 Cr is to be allowed for FY 2018-19.
- 2.32 STP charges should be allowed to the extent of an amount approved at the time of approved ARR, subject to prudence check of actual expenses.
- 2.33 For FY 2017-18, the Commission has given Impact of Rs. 5.90 Cr towards 7<sup>th</sup> pay Commission based on auditor certificate. However, in FY 2018-19, an amount of Rs 16.22 is being sought by PPCL which is significantly higher in comparison to the amount.
- 2.34 In the petition for True-Up expenses up to FY 2018-19 the Petitioner is seeking approvals/relief which is not the only misrepresentation of facts/data by the Petitioner on affirmation but unauthorized, unjustified, illegal and requires investigation like Rs. 23.07 Cr. as a recovery of unrecovered expenditure on account of DLN burner & STP in FY 14-15 (AGP)
- 2.35 Additional R&M cost of Rs. 16.12 Cr. on account of DLN burner (AGP) for FY 2018-19, Carrying cost of Rs.9.20 Cr. (Review Order dated 17.10.2019) and Rs. 23.07 Cr. as a recovery of unrecovered expenditure on account of DLN burner & STP in FY 14-15(AGP) (Review Order dated 17.10.2019) be disallowed by Commission.
- 2.36 The Commission is requested to consider O&M as per Delhi Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulations, 2017 and Delhi Electricity Regulatory Commission (Business Plan) Regulations, 2017 which is Rs 61.64 (330\*18.68/100) as base O&M cost and Rs 16.12 Cr towards Additional O&M expense.
- 2.37 During the true up of FY 2014-15 Commission has examined and observed that the expenses towards DLN and STP for the FY 2014-15 are in order and may be allowed in subsequent tariff Order.



2.38 However, furnishing of document after a long period of time and calculating the carrying cost is not a fair solution. Presentation of documents after 5 years is purely on the part of PPCL, which ultimately burden to the end consumers. Hence we carrying cost should not be allowed in the actual cost for FY 2018-19.

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

- The repair and maintenance expenditure on account of DLN burners has varied significantly during the previous period on a year to year basis only due to reasons that schedule of overhauling of Gas Turbine and DLN Burners are cyclic in nature. Therefore, Commission while allowing expenditure on account of DLN Burners previously have smoothened and allowed charges to reduce the impact in a single year in which the expenditure is actually incurred. Accordingly, the Commission has divided the expenses of Rs 65.55 Cr against DLN Burner met in FY 2015-16 (Advanced Gas Path) into four years starting from FY 2015-16 to FY 18-19 and the same is given in the business plan regulation, 2017. However, previously the State Commission had allowed the expenditure on account of DLN burner on year to year basis to the tune of Rs.15 Crore as additional R&M expenses every year during the Control period FY 2007-15. In FY 2018-19, Petitioner had spent the amount of Rs 1.10 Cr additionally. The same is requested allow after prudence check.
- As per National Tariff Policy 2016 clause 6.2 (5), it has been mandated for thermal power plant(s) including the existing plants located within 50 km radius of sewage treatment plant of a Municipality/local bodies/similar organization, to mandatorily use treated sewage water produced by these bodies and the associated cost on this account be allowed as a pass-through in the tariff. PPCL has submitted all the details regarding the actual expenditure on account of the usage of sewage treated water and the same is requested in the petition to pass through as per national tariff policy, 2016. In fact, the expenditure on DLN and STP has been regularly allowed separately by DERC over and above the normative operation and maintenance expenses since first MYT period. In this regard content of clause 87 of DERC tariff regulation, 2017 clearly mentions the existing provisions. The relevant content of the applicable clause of DERC tariff regulation 2017



is reproduced as under:

"87. The Utilities shall be allowed Operation and Maintenance expenses on a normative basis including expenses for raising the loan for funding of Working Capital and Regulatory Asset as specified by the Commission in the Business Plan Regulations for the respective Control Period:

Provided that the Normative O&M expenses for the respective Control Period shall not be trued up;"

Provided further that the water charges, statutory levy and taxes under O&M expenses if indicated separately in the audited financial statement shall not form part of Normative O&M expenses."

- It is submitted that during the process of tariff determination for FY 2018-19 only an interim relief of Rs 500 per Employee was disbursed by PPCL. Accordingly, the claim was meagre, however at a later stage, based on recommendations of the committee IR was increased near the actual proposed pay, Though the pay revision has not been implemented till date, however, the release of IR to more realistic value has been allowed in line with recommended scale by pay revision committee, therefore, there is an increase in IR as compared to allowed vide tariff order for FY 2018-19. PPCL has submitted the relevant information to the State Commission. State Commission is requested to allow the same after verification of submitted records.
- 2.42 All the facts/ data were provided to the Commission when required for due diligence and prudence check in the review petition no. 60 of 2017 and accordingly the order dated 31.08.2017 & 17.10.2019 were issued by the Commission allowing these expenses.
- 2.43 Petitioner has calculated O&M expenses as per DERC (terms and conditions for determination of tariff) Regulation, 2017 vide clause no. 87 which reads as under:
  - "87. The Utilities shall be allowed Operation and Maintenance expenses on normative basis including expenses for raising the loan for funding of Working Capital and Regulatory Asset as specified by the Commission in the Business Plan Regulations for the respective Control Period:

Provided that the Normative 0&M expenses for the respective Control Period shall



not be trued up; .

Provided further that the water charges, statutory levy and taxes under O&M expenses if indicated separately in the audited financial statement shall not form part of Normative O&M expenses."

- 2.44 Further, regarding the applicability of carrying cost on the expenses towards DLN & STP for FY 2014-15 is calculated as per DERC regulation, 2017 and should be allowed.
- As regards, submission of documents at later date, the same is not related to the issue. PPCL had submitted the documents; however same were not taken into consideration by DERC for period not related to FY 2015-16 FY 2018-19. In this case, Commission has scattered recovery in subsequent four future periods, without any carrying cost. It is in contrast to Respondent case (Regulatory assets) where part of recovery in future has been allowed with carrying cost.

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

2.46 The Commission has considered the provisions of Tariff Regulations, 2017 and Business Plan Regulations, 2017 while considering the O&M and R&M Expenses for the Petitioner for the respective period.

# ISSUE 5: WEIGHTED AVERAGE COST OF CAPITAL (WACC) FOR THE PURPOSE OF COMPUTING RETURN ON CAPITAL EMPLOYED (RoCE)

2.47 The Petitioner has considered normative interest rate for FY 2018-19. The Commission is requested to verify the actual cost of working capital and if the same is found lower than the normative interest rate, the actual interest rate may be considered for truing up.

## **PETITIONER'S SUBMISSION**

2.48 The comment of stakeholder is out of context and against existing provision of DERC tariff regulation clause 86.

## **COMMISSION'S VIEW**

2.49 The Commission has considered the provisions of Tariff Regulations, 2017 and Business Plan Regulations, 2017 & 2019 while considering the WACC and RoCE for the Petitioner



for the respective period.

#### ISSUE 6: NON-TARIFF INCOME

- 2.50 The Petition has offered Nil amount as Non-Tariff Income for FY 2018-19. Thus, for the purpose of truing Up of FY 2018-19 ARR, Non-Tariff Income based on Audited Financial Statements for FY 2018-19 may be considered.
- 2.51 Further, Nil amount has been considered as Non-Tariff Income for FY 2020-21. Thus, for the purpose of approving ARR for FY 2020-21, an amount equivalent to trued-up Non-Tariff Income for FY 2018-19 may be considered.

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

2.52 The head wise details of other income had already been provided to the State Commission. However, aggrieved by certain decisions of the State Commission contrary to DERC tariff regulation, 2017 and Business Plan Regulation, 2017 in the impugned order, Petitioner has filed an APPEAL no. 392 of 2019 before Appellate tribunal of Electricity. The expenditure related to Non-Tariff Income was one of them. There are similar issues for FY 18-19, therefore, Petitioner is filing present true-up petition without prejudice to its submission in an existing case on above matter.

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

2.53 The Commission has considered the NTI for the Petitioner in line with the provisions of Tariff Regulations, 2017 along with Business Plan Regulations, 2017 and 2019 for the respective period.

#### ISSUE 7: ENERGY CHARGE RATE & FUEL COST

- 2.54 The Commission has specified the formula for the computation of energy charge rate in Tariff Regulations, 2017 as follows:
  - "403. Energy charge rate (ECR) in Rupees per kWh on the ex-power plant basis shall be determined to three decimal places in accordance with the following formulae:
  - (b) For gas and liquid fuel-based stations ECR = GHR x LPPF x  $100 / \{CVPF x (100 AUX)\}...$ "



2.55 The Petitioner should follow the DERC Tariff Regulation 2017 while computing the ECR adhering to normative operational Parameters and Commission should allow ECR to an extent formula given as per DERC Regulation 2017.

#### PETITIONER'S SUBMISSION

2.56 The submission of Petitioner is same as of respondent. However, the Respondent allegation is false that the Petitioner will be using different formula other than specified in DERC tariff regulation 2017 for arriving ERC.

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

2.57 ECR is determined in the Tariff Order based on the prices of fuel during the applicable period as per the provisions of Tariff Regulations, 2017 along with Business Plan Regulations, 2017 & 2019 for the respective period. The Commission has appropriately considered the prices of the fuel in the relevant section of this Order.

#### ISSUE 8: REQUIREMENT OF LOAN AND EQUITY

- 2.58 As per regulation 63 of DERC tariff regulation, 2017 the debt-equity ratio should be 70:30 relevant extract is:
  - "63. For determination of Tariff, the debt-equity ratio for any project or scheme under commercial operation shall be considered as 70:30: Provided that:
  - (v) Where equity deployed is less than 30% of the capital cost, actual equity shall be considered for determination of tariff.
  - (vi) Where equity deployed is more than 30% of the capital cost, equity in excess of 30% shall be treated as a notional loan.
  - (vii) The equity invested in foreign currency shall be designated in Indian rupees on the date of each investment.
  - (viii) Any grant/contribution/deposit obtained for the execution of the project/scheme shall not be considered as a part of capital structure for the purpose of debt: equity ratio."

Hence, Commission should consider 70:30 debt-equity ratio as per applicable regulation and the same should be applied for return on capital employed.



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

2.59 There is no outstanding capital loan as on date. The total GFA is only part of Equity. Petitioner has submitted the details of arriving weighted average cost of capital and computation of ROCE in clause 4.5 of the tariff petition. It is reiterated that the current petition has been filed by Petitioner without prejudice to submission against Commission tariff order dated 31.08.2017 in RP No. 59 of 2017 & 41 of 2018 against DERC tariff order dated 28.03.2018 on the matter. However, aggrieved by certain decisions of the State Commission contrary to DERC tariff regulation, 2017 and Business plan Regulation, 2017 in the impugned order, Petitioner has filed an APPEAL no. 392 of 2019 before Appellate tribunal of Electricity. There are similar issues for FY 18-19, therefore, Petitioner is filing present true-up petition without prejudice to its submission in an existing case on above matter.

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

2.60 The Commission has considered the requirement of loan and equity as per the provisions of Tariff Regulations, 2017 along with Business Plan Regulations, 2017 & 2019 for the respective period.

#### **ISSUE 9: DEPRECIATION**

#### STAKEHOLDERS' VIEW

2.61 The Asset class on which depreciation has been charged, should be provided with their Useful Life in years in the depreciation schedule.

## **PETITIONER'S SUBMISSION**

2.62 The depreciation has been calculated as per DERC (terms and conditions of tariff regulations), 2017.

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

2.63 The Commission has computed the depreciation for the Petitioner in line with the provisions of Tariff Regulations, 2017 along with Business Plan Regulations, 2017 and 2019 for the respective period.

### **ISSUE 10: CAPITAL EXPENDITURE (CAPEX)**



2.64 The Petitioner has sought Rs 11.29 Cr towards Capital Expenditure for on Up-gradation of processors of STG Control system. Such expenditure is not utilized for any life extension of plant, hence it should not be a part of capital expenditure and it should be covered under normative O&M.

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

In this regard, it is to submit that the Petitioner had already taken in principle approval from DERC for the Capex. The State Commission in subsequent tariff order dated 28.03.2018 has allowed Rs 2.00 Cr as additional partial expenditure on above heads in Para 4.24 table No. 38 on account of Up-gradation of STG processor controller system, vibration system of GT1, GT2 and STG and Refurbishment of Cooling tower cells and structure for FY 2018-19. Hence, the same should be allowed. More, DERC guidelines on capex does not include only efficiency improvement rather capex requiring replacement due to wear and tear or obsolescence of technology also.

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

2.66 The Commission has considered the CAPEX for the Petitioner in line with the provisions of Tariff Regulations, 2017 along with Business Plan Regulations, 2017 and 2019 for the respective period.

#### **ISSUE 11: WORKING CAPITAL**

- 2.67 The Petitioner has claimed Rs. Cr 328.26 for FY 2018-19 as working capital.
- 2.68 We request Commission to consider following inputs as under while allowing the revised working capital:
  - i) Petitioner has utilized merely 42% of APM gas during FY 2018-19.
  - ii) Remaining gas used through RLNG/Spot RLNG source of power.
  - iii) The PLF has mentioned by Petitioner is 52.3% i.e 1480 Mus has been generated out of 2362 Mus @ normative 85% availability.
  - iv) Petitioner has considered the normative availability factor rather than actual, during calculation of fuel cost in the table 5.8 clause "F" page no-23 of the petition.

    Resulting the working capital cos increased.
- 2.69 Commission to direct the Petitioner to re-calculate the working capital on actual basis,



which will reduce the margin of working capital in the interest of Delhi Consumers.

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

2.70 The Petitioner has taken fuel cost for working capital for FY 2018-19 based on the weighted average of preceding three months of the relevant financial year i.e taken for the month of Jan-18, Feb-18 and Mar-18 for FY 2018-19 as per DERC tariff Regulation 2017 as provided in clause no. 107. The same is produced as under:

"107. Landed Fuel Cost for Tariff Determination: The landed fuel cost of primary fuel and secondary fuel for tariff determination shall be based on actual weighted moving average cost of respective fuel before the start of the tariff period for existing and new generating stations".

- 2.71 Further, contrary to claim of respondent, the calculation of fuel cost for the working capital is to be done on normative availability rather than actual generation. Therefore, Petitioner has calculated as per DERC (terms and conditions for determination of tariff) regulation, 2017 vide clause no. 86 which reads as under:
- 2.72 *"86. Interest on working capital shall be payable on normative basis not withstanding that the utility has availed any loan for the working capital."*.

### **COMMISSION'S VIEW**

2.73 The Commission has considered the working capital for the Petitioner in line with the provisions of Tariff Regulations, 2017 along with Business Plan Regulations, 2017 and 2019 for the respective period.

#### ISSUE 12: INCOME TAX AND AUDITED FINANCIAL STATEMENT

- 2.74 Amount of actual Income Tax paid is not mentioned anywhere in the true-up Petition.

  The Commission is requested to check the amount of actual Income tax paid corresponding to the amount claimed for truing up.
- 2.75 Share the copy of Audited Financial Statement for FY 2018-19, as the same is not found as a part of Tariff Petition.

#### PETITIONER'S SUBMISSION



2.76 The copy of the acknowledgement of Income Tax Return for AY 2019-20 and Annual Financial Statement for FY 2018-19 has already been provided to the state Commission vide letter PPCL/Comml./F.12/2019-20/160 dated 26.02.2020.

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

2.77 The Commission has considered the Income Tax for the Petitioner in line with the provisions of Tariff Regulations, 2017 along with Business Plan Regulations, 2017 and 2019 for the respective period.



#### A3: TRUE UP OF FY 2018-19

3.1. Regulation 9 & 10 of Tariff Regulations, 2017 specifies the following:

"9. The Commission shall issue Annual Tariff Order for each year of the Control Period based on the principles laid down in these Regulations read with Business Plan Regulations for the respective Control Period notified by the Commission.

10. The Commission shall true up various components of the ARR of the Generating Entity and Transmission Licensee at the end of the Financial Year as detailed out in these Regulations."

3.2. Regulation 146 of Tariff Regulations, 2017 specifies the following:

"146. The Commission shall carry out truing up of tariff based on the performance for generating stations and taking into account of the following Uncontrollable parameters:

Force Majeure;

Change in Law;

Re-financing of Loan; and

Primary Fuel Cost."

3.3. Regulation 62 of Tariff Regulations, 2017 specifies the following:

"62. In case of the existing projects/scheme, the Generating Entity or Transmission Licensee, as the case may be, shall be allowed tariff by the Commission based on the admitted capital cost as on 1st April of the relevant year and projected additional capital expenditure for the respective years of the Control Period in accordance with the Regulation: Provided that:

(i) The Generating Entity or Transmission Licensee, as the case may be, shall continue to bill the beneficiaries at the existing tariff approved by the Commission for the period starting from 1st April of new Control Period till approval of tariff by the Commission for new Control Period in accordance with these Regulations;

(ii) where the capital cost considered in tariff by the Commission on the basis of projected capital cost as on COD or the projected additional capital expenditure submitted by the Generating Entity or Transmission Licensee, as the case may be,, as the case may be, exceeds the actual capital cost incurred on year to year basis



by more than 5%, the Generating Entity or Transmission Licensee, as the case may be, shall refund to the beneficiaries/consumers, the excess tariff recovered corresponding to excess capital cost, as approved by the Commission along with interest at 1.20 times of the bank rate as prevalent on April 1 of respective year; (iii) The Generating Entity or Transmission Licensee, as the case may be, shall file a true up Petition to the Commission, along with all supporting documents for consideration of any upward revision in the tariff, where the capital cost considered in tariff by the Commission on the basis of projected capital cost as on COD or the projected additional capital expenditure falls short of the actual capital cost incurred on year to year basis by more than 5%. The Generating Entity or Transmission Licensee, as the case may be, shall be entitled to recover from the beneficiaries for the shortfall in tariff corresponding to addition in capital cost, as approved by the Commission along with interest at 0.80 times of bank rate as prevalent on 1st April of respective year."

3.4. Therefore, in accordance with Tariff Regulations, 2017 and Business Plan Regulations, 2017, the Commission has trued up the expenses for the Petitioner for FY 2018-19.

#### **NORMS OF OPERATION**

#### **AVAILABILITY**

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

- 3.5. The Petitioner has submitted that PPS-I has achieved availability over and above Normative Availability as provided in Tariff and Business Plan Regulations, 2017.
- 3.6. Actual Availability for PPS-I during FY 2018-19 submitted by the Petitioner is as follows:

Table 3. 1: Petitioner's Submission: Plant Availability for FY 2018-19

Sr. No.	Particulars	UoM	FY 2018-19
1	Plant Availability	%	88.36%

#### **COMMISSION ANALYSIS**

- 3.7. The Commission in its Business Plan Regulations, 2017 has approved the availability of 85% for PPS-I Station for FY 2017-18 to 2019-20 as follows:
  - "8. NORMS OF OPERATION FOR GENERATING STATIONS:



- (1) Normative Annual Plant Availability Factor and Normative Annual Plant Load Factor for existing generating stations of Delhi shall be as follows:
- I. Normative Annual Plant Availability Factor (NAPAF): 85%
- II. Normative Annual Plant Load Factor (NAPLF): 85%"
- 3.8. The Petitioner vide its submission dated 26/02/2020 has provided SLDC Certificate for plant availability factor for true up of PPS-I for FY 2018-19 and the Commission has considered the same for the purpose of true up of plant availability factor for FY 2018-19 as follows:

Table 3. 2: Commission Approved: Plant Availability for FY 2018-19

Sr.	Station	UoM	FY 2018-19		
No.			Norm Actual as submitted by Approved for True		
				Petitioner	up
1	PPS-I	%	85%	88.79%	88.79%

## **STATION HEAT RATE (SHR)**

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

- 3.9. The Petitioner has submitted that Heat Rate achieved by the station in open cycle mode is on higher side due to frequent start/stops and partial operation of the units. PPS-I always endeavor to run in combined cycle mode but it also runs on open cycle mode as requisitioned by SLDC.
- 3.10. Further, the Petitioner has submitted that Central Electricity Regulatory Commission in its latest Tariff Regulation for the period from FY 2018-19 to FY 2023-24 has fixed a heat rate of 2050 kCal/kWh in combined cycle mode and 3010 kCal/kWh in open cycle mode for similar Kawas GPS gas based station of NTPC which consists of same class of gas turbines. Accordingly, the Petitioner has requested the Commission to relax the norms of SHR and allow the heat rate as submitted.
- 3.11. The actual heat rate achieved by the Petitioner for PPS-I for FY 2018-19 is as follows:

Table 3. 3: Petitioner's Submission: Station Heat Rate (kCal/kWh)

Particulars	UoM	FY 2018-19
Station Heat Rate (CC)	(kCal/kWh)	1989
Station Heat Rate (OC)	(kCal/kWh)	3105



#### **COMMISSION ANALYSIS**

- 3.12. The Commission has specified the Station Heat Rate (SHR) for existing generating stations of Delhi in Business Plan Regulations, 2017 and relevant extract is as follows:
  - "8. NORMS OF OPERATION FOR GENERATING STATIONS:

(2) GROSS STATION HEAT RATE (GHR)

Gross Station Heat Rate for existing generating stations of Delhi shall be as follows:

Table 4: Gross Station Heat Rate (GHR)

Sr.	Concreting Station	Combined Cycle Open Cycle		
No	Generating Station	(kCal/ kWh)		
1	Gas Turbine Power Station (GTPS)	2450	3125	
2	Pragati Power Station I (PPS-I)	2000	2900	

....."

3.13. The contention of the Petitioner regarding relaxation of heat rate on the grounds of Heat Rates allowed by CERC for Kawas GPS may not be accepted as the operating norms of Gas Turbine Stations depends upon its design, margins, manufacturer, make, the vintage of the plant, atmospheric conditions, operating environment, geographical locations, maintenance of the stations, etc. It is noted that Kawas GPS is placed at a different geographical location as compared with the location of PPS-I and is operating under different atmospheric/environment and of different make, frame size, different design, conditions etc. Thus, comparing the two plants does not hold good. Further, it is observed that the Petitioner has been able to achieve the target gross station heat rate in combined cycle mode. In view of the above, the Commission approves the normative Gross Station Heat Rate for PPS-I Station for true up of FY 2018-19 as per the approved norms in Business Plan Regulations, 2017 as follows:



Sr. Station Mode of **UoM** FY 2018-19 No Operation **Business** Actual as Approved submitted Plan for Regulations, by True Up 2017 **Petitioner** 1 **Combined Cycle** KCal/kWh 2000 1989 2000 PPS-I 2 2900 2900 Open Cycle KCal/kWh 3105

Table 3. 4: Commission Approved: Station Heat rate

## **AUXILIARY POWER CONSUMPTION (APC)**

#### PETITIONER'S SUBMISSION

- 3.14. The Petitioner has submitted that the actual APC has increased during FY 2018-19 due to unproductive auxiliary consumption on part load operation & frequent back down. Thus, the Petitioner requested the Commission to allow APC achieved as per actual for FY 2018-19.
- 3.15. Actual Auxiliary Power Consumption (APC) achieved for PPS-I during FY 2018-19 as submitted by the Petitioner is as under:

Table 3. 5: Petitioner's Submission: Auxiliary Power Consumption

Sr. No.	Particulars	UoM	FY 2018-19
1	Auxiliary Consumption	%	2.39%

#### **COMMISSION ANALYSIS:**

- 3.16. The Commission has specified the Auxiliary Energy Consumption for existing generating stations of Delhi in Business Plan Regulations, 2017 as follows:
  - "8. NORMS OF OPERATION FOR GENERATING STATIONS:

•••

...

(3) AUXILIARY ENERGY CONSUMPTION

Auxiliary Energy Consumption shall be computed in two parts:

- a) Fixed: 0.5% of the generation at normative PLF of the plant capacity which shall form part of other expenses under Fixed Cost, at energy charge rate approved by the Commission in respective Tariff Order.
- b) Variable: 2.0% of the actual generation which shall form part of computation of energy charge rate of the respective month."



3.17. While framing the norms of operation in Business Plan Regulations, 2017, the Commission has determined the norms of operation based on the past performance which also includes the actual operation below the technical limit as and when required, vintage of equipment. It may be noted that the Commission in its Business Plan Regulations, 2017 has split the normative auxiliary energy consumption in two parts i.e fixed component of 0.5% and variable component of 2.0% thus making total auxiliary energy consumption of 2.5% in combined cycle mode. Further, it is observed that the Petitioner has been able to achieve the normative auxiliary energy consumption. In view of the above, the Commission approves the Auxiliary Power Consumption for PPS-I Station for true up of FY 2018-19 as per the approved norms in Business Plan Regulations, 2017 as follows:

Table 3. 6: Commission Approved: Fixed Auxiliary Power Consumption

Sr	Station	UoM	FY 2018-19			
No			Business Plan Actual as submitted Approved for Regulations, 2017 by Petitioner True Up			
1	PPS-I	%	0.50%*	-	0.50%*	

<sup>\*</sup>generation at normative PLF of the plant capacity which shall form part of other expenses under Fixed Cost, at energy charge rate approved by the Commission.

Table 3. 7: Commission Approved: Auxiliary Power Consumption

Sr.	Station	Mode of Operation	UoM	FY 2018-19		
No				Business	Actual as	Approved for
				Plan	submitted by	True Up
				Regulations,	Petitioner	
				2017		
1	PPS-I	Combined Cycle	%	2.00%	2.39%	2.00%
2	PP3-1	Open Cycle	%	0.50%	2.39%	0.50%

# PLANT LOAD FACTOR (PLF)

# **PETITIONER'S SUBMISSION**

3.18. The Petitioner has submitted low PLF as compared to availability in FY 2018-19 due to frequent starts/stops and backing down. This lower PLF has resulted into high station heat rate of the station. Further, the Petitioner has requested to Commission to direct State Load Dispatch Centre (SLDC) for full scheduling as per availability in the interest of state grid.



3.19. The Petitioner has submitted the Gross and Net Generation of PPS-I for FY 2018-19 on the basis of PLF and APC as under:

Table 3. 8: Petitioner's Submission: Gross and Net Generation

Sr. No.	Description	UoM	FY 2018-19	Remarks
Α	Plant Capacity	MW	330	As per Petition
В	PLF	%	52.43	As per SLDC Certificate
С	<b>Gross Generation</b>	MU	1515.585	= A*B*365*24/100000
D	Aux. Generation	%	2.39	As per Petition
E	Aux. Generation	MU	36.16	E= C*D
F	Net Generation	MU	1479.42	F= C-E

3.20. The Petitioner has submitted the comparison of availability and PLF of the Station as under:

Table 3. 9: Petitioner's Submission: Plant Load Factor

Year	UoM	Availability	FY 2018-19
2018-19	%	88.79%	52.43%

## **COMMISSION ANALYSIS**

3.21. Petitioner vide its submission dated 26/02/2020 has provided the SLDC certificate and accordingly, the Commission has considered the Plant Load Factor as 52.43% for FY 2018-19.

Table 3. 10: Commissions Approval: Plant Load Factor for FY 2018-19

Year	UoM	Availability	PLF
2018-19	%	88.79%	52.43%

3.22. The Commission has not considered any relaxation in the norms for Station Heat Rate and Auxiliary Power Consumption based on the actual PLF of the station as the norms of operation were determined based on the past performance. The Commission can-not direct the State Load Despatch Centre, Delhi for giving full scheduling to the plant as the scheduling of the stations is considered by SLDC, Delhi based on grid security, merit order despatch and other grid operational factors etc.

# **VARIABLE COST FOR PPS-I**

# **FUEL CONSUMPTION**

# **PETITIONER'S SUBMISSION**

3.23. The Petitioner has submitted that Pragati Power Station-I has a long-term agreement



with Gas Authority of India Limited (GAIL) for supply of Gas. Initially, PPS-I was having an allocation of 1.75 MMSCMD of APM Gas. This gas was sufficient to run both the Gas Turbines on base load. Due to depleting gas reserves of ONGC, GAIL has been imposing cuts on its supply on day to day basis. The present gas allocation on day to day basis is between 0.19 MMSCMD to 0.25 MMSCMD of APM gas and 0.28 MMSCMD of PMT gas (0.00 MMSCMD). To meet the short fall in the gas supply, fall back agreement has been signed with GAIL for supply of spot R-LNG gas on take and pay basis. Recently, MoP&NG has allocated 0.02 MMSCMD non-APM ONGC gas whose supply has been commenced from mid October, 2011.

3.24. Based upon the allocation, the consumption of APM, PMT, R-LNG and NAPM gas for FY 2018-19 is shown as under:

Table 3. 11: Petitioner's Submission: Total Gas Consumption

Particulars	Unit	FY 2018-19
APM Gas	MMSCM	121.963
PMT Gas	MMSCM	16.039
NAPM Gas	MMSCM	28.453
R-LNG Gas	MMSCM	154.526
Total Gas	MMSCM	320.981

3.25. The Petitioner has submitted the details of total gas consumption, rate per SCM and total cost of the gas for FY 2018-19 as per actual and fuel cost as follows:

Table 3. 12: Petitioner's Submission: Energy Charge Rate and Fuel Cost

Particulars	Unit	FY 2018-19
Total Gas Consumption	MMSCM	320.981
Average Gas Price	Rs./SCM	22.756
Weighted Average GCV	kCal/SCM	9392.919
Total Gas Cost	Rs. Crore	730.42
Net Generation	MU	1479.42
Variable Cost-CC	Rs./kWh	4.937

#### **COMMISSION ANALYSIS**

- 3.26. The Commission in its Business Plan Regulations, 2017 has specified the norms of operation for generating stations for FY 2017-18 to FY 2019-20. The norms of operation as applicable as per Business Plan Regulations, 2017 determines fuel cost and energy charge rate.
- 3.1 Further, the Commission vide its e-mail dated 08/06/2020 sought the verification of



energy charge rate billed by PPS-I from the beneficiary DISCOMs. In response, the beneficiary DISCOMs (BRPL vide Letter dated 15/06/2020, BYPL and TPDDL vide Email dated 11/06/2020) submitted that the computation of energy charge rate billed by GTPS during FY 2018-19 is as per the provisions of Tariff Regulations, 2017 and Business Plan Regulations, 2017. Accordingly, the Commission has considered the fuel cost for true-up of FY 2018-19.

## **FIXED COST**

# **OPERATION & MAINTENANCE (O&M) EXPENSES**

# **PETITIONER'S SUBMISSION**

3.27. The Petitioner has submitted that the Commission has specified Normative Operation and Maintenance expenses in Business Plan Regulations, 2017 as per the table below for plant PPS-I for the control period from FY 2017-18 to FY 2019-20:

Table 3. 13: Petitioner's Submission: O&M Expenses (Rs. Lakh/MW)

Year	2017-18	2018-19	2019-20
PPS-I	17.69	18.68	19.73

- 3.28. Petitioner further submitted that the pay and perks of employees of the Petitioner Company is determined in line with Central Pay Commission Recommendations. In case of Petitioner Company the same has been partially implemented on recommendation of wage revision committee. Accordingly, Petitioner has paid Interim relief to the employees of PPCL for the years starting from FY 17-18 to till date. The Expenditure for FY 18-19 is Rs 16.22 Cr. Further, the final payment along with the arrears will be paid to the employees after the order of implementation of wage revision committee report. Accordingly, the Petitioner has requested to consider Rs 16.22 Cr as additional expenditure on account of Employees cost to be allowed additionally.
- 3.29. Further, Petitioner has installed DLN burner at PPS-I to control the Nox level. The repair and maintenance expenditure on account of DLN/AGPI of the machine is cyclic in nature; has been varied on year to year basis based on the running hours of the machine for smooth operations of the plant. All the inspections and overhauling of the machines are as per the manufactures recommendation. The commission has allowed Rs 16.12 Cr as additional R&M for FY 2018-19.



- 3.30. Pragati Power Station-I is sourcing plant water requirement from the treated effluent water from sewage treatment plants and has to incur more cost to get raw water, as compared to other similar stations. The actual expenditure on this account includes expenditure on operation, electricity, Chemicals etc.
- 3.31. Further, Petitioner had spent an amount of Rs 1.10 Cr in FY 18-19 towards DLN burner and Rs 3.98 Cr for Sewage water uses. Hence it is requested Commission to allow the same for FY 18-19 as allowed previously in the tariff order of PPS-I.
- 3.32. Accordingly, the O &M expenses for FY 2018-19 is shown below:-

Table 3. 14: Petitioner's Submission: O&M Expenses

Sr. No.	Particulars	UoM	FY 18-19 (Allowed)	FY 18-19 (Actual/ Normative)
Α	Base O&M expenses	Rs Cr.	61.64	61.64
В	Carryover of DLN from FY 15-16 as additional R&M	Rs Cr.	16.12	16.12
С	DLN Burner for the period	Rs Cr.	-	1.10
D	STP	Rs Cr.	3.35	3.98
Е	Impact of Adhoc payment as IR due to Pay Revision	Rs Cr.	-	16.22
F	Total O&M Expenses	Rs Cr.	81.11	99.06

3.33. Earlier, Petitioner has incurred an amount of Rs 65.55 Cr as additional expenditure towards DLN burner in FY 15-16. The State Commission allowed the above expenditure. However, recovery of the same was split in four subsequent years to be recovered in FY 15-16 to FY 18-19 @ rate of Rs 16.12 Cr every year. This recovery has been considered by state commission in subsequent years without any carrying cost; therefore, aggrieved by above decision of State Commission, the Petitioner filed review petition no. 60 of 2017 and 42 of 2018. Accordingly, the State Commission vide its order dated 17.10.2019 and 23.10.2019 has allowed carrying cost additionally to be recovered in subsequent tariff order. The Copy of the order is attached herewith and marked as Annexure 'A'. The relevant content of the order dated 17.10.2019 and 23.10.2019 is reproduced as under:

"3.1.2 The Commission has allowed the said expenses over a period of 4 years i.e. FY 2015-16 to FY 2018-19, and the expenditure appears to be cyclic in nature. As the expenditure has been incurred by the Petitioner upfront, therefore carrying cost on the residual value of the expenditure may be considered in the subsequent



Tariff order."

3.34. Accordingly, carrying cost on balance allowed expenditure on DLN burner will be as per following detail:

Table 3. 15: Petitioner's submission: Carrying Cost on the deferred amount

Sr. No.	Particulars	FY 15- 16	FY 16- 17	FY 17- 18	FY 18- 19	Remarks
						Amount to be
Α	Opening Balance	64.48	48.36	36.87	23.71	recovered in the
						Financial year
В	Payment received	16.12	16.12	16.12	16.12	Para 33
С	Carrying cost rate	0	11.5%	10.26%	10.26%	Allowed as per
		O	11.570	10.20%	10.20%	DERC
D	Carrying cost amount	0	4.63	2.96	1.61	D = (A - B/2)*C
Е	Closing Balance	48.36	36.87	23.71	9.20	E = A-B+D

- 3.35. Accordingly, Petitioner has calculated carrying cost of Rs 9.20 Cr upto FY 18-19 as above. However, Commission is requested to allow the recovery of carrying cost up to date of bills allowed to be raised for recovery.
- 3.36. Further, Commission in its order dated 17.10.2019 has allowed recovery of unrecovered expenditure on account of DLN burner and STP in FY 14-15. However vide order dated 17.10.2019 the state commission in Review Petition no. 60 of 2017 has allowed above withheld expenditure of FY 2014-15. The relevant extract of the order related to above expenditure is reproduced here as under:
  - "3.2.3 The Petitioner in its true up petition for FY 2014-15 had not submitted its claim on account of DLN and STP and no purchase orders pertaining to DLN and STP for FY 2014-15 were submitted during the course of prudence check. The details of expenditure including Purchase Orders pertaining to DLN and STP for FY 2014-15 and payment details thereof has since been submitted by the Petitioner. The same have been examined and it is observed that the expenses towards DLN and STP for the FY 2014-15 are in order and may be allowed. The impact shall be given in the subsequent Tariff Order."
- 3.37. In view of above, the details of expenditure on DLN burner and STP for FY 14-15 as allowed by State Commission vide above order dated 17.10.2019 is as under:-



Sr. No.	Particulars	UoM	FY 2014-15	Remarks
Α	DLN	Rs in Cr.	19.00	Para 3.2.3 of order dated
A		NS III CI.	19.00	17.10.2019 in RP. No. 60
В	STP	Rs in Cr.	4.07	of 2017
С	Total amount (excluding carrying cost starting from FY 15-16)	Rs in Cr.	23.07	C = A + B

Table 3. 16: Petitioner's Submission: Additional R&M for FY 2014-15

3.38. Accordingly, Petitioner requested Commission to allow the amount of Rs 23.07 Cr along with applicable carrying cost in true up order for FY 18-19.

# **COMMISSION ANALYSIS**

- 3.39. The Commission has specified the normative Operation and Maintenance Expenses for existing generating stations in Business Plan Regulations, 2017 as follows:
  - **"6. 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 Generating Entity shall be as follows:
  - (a) Normative Operation and Maintenance expenses for existing generating stations shall be as follows:

Table 2: O&M Expenses (Rs. Lakh/ MW)

Station	2017-18	2018-19	2019-20
GTPS	29.66	31.32	33.08
PPS-I	17.69	18.68	19.73

...

- (2) Impact of seventh pay commission on employee cost shall be considered separately, based on actual payment made by the Generation Entity and prudence check at the time of true up of ARR for the relevant financial year."
- 3.40. The normative O&M expenses for FY 2018-19 as per Business Plan regulations, 2017 works out to be Rs. 61.64 Crore by multiplying the Rs.18.68 Lakh/MW with installed capacity of 330 MW of the plant as per norms.
- 3.41. During, the prudence check, the Commission vide its letter dated 07/02/2020 sought the details of payment made towards interim relief on account of wage revision through an



- auditor certificate and additional R&M on account of DLN & STP for FY 2014-15. The Petitioner has submitted the Auditor's certificate stating that Rs. 13.60 Crore has been paid as Interim Relief on account of Seventh pay Commission. Accordingly, Rs. 13.60 Crore has been considered as Interim relief.
- 3.42. Further, the Petitioner vide its submission dated 20/03/2020 & 04/03/2020 has provided the payment vouchers and purchase order w.r.t. additional R&M on account of DLN & STP for FY 2014-15 .
- 3.43. Further, Commission vide its Order dated 23/10/2019 in Review Petition No. 42/2018 allowed to give the impact of carrying cost on additional R&M in subsequent order. Accordingly, the Commission approves the O&M Expenses for PPS-I for FY 2018-19 along with the carrying cost on additional R&M of DLN & STP as follows:

Table 3. 17: Commission Approved: O&M Expenses

Sr. No.	Particulars	UoM	Amount	Ref
Α	Base O&M Expenses	Rs Cr	61.64	As per Business Plan
	Buse Odivi Expenses	11.5 C1	01.04	Regulations 2017
В	Carryover of DLN from FY 15-	Rs Cr	16.12	As per Order dated
	16 as additional R&M	11.5 C1	10.12	31/07/2019
				As per Order dated
С	Carrying Cost on Additional	Rs Cr	16.18	23/10/2019 in
	R&M	KS CI 10.18	10.16	Review Petition No.
				42/2018
				As per Order dated
	Additional R&M on account of	Do Cr	23.71	17/10/2019 in
D	DLN & STP for FY 2014-15	Rs Cr	Reviev	Review Petition No.
	Impact of Adhes navment as ID			Actual As per
E	Impact of Adhoc payment as IR	Rs Cr	13.60	Certificate dated
	due to Pay Revision			04/03/2020
F	DLN Burner expenses for the	Rs Cr	1.10	
Г	period	NS CI	1.10	
G	STP expenses	Rs Cr	3.98	
Н	Total O&M Expenses	Rs Cr	136.33	

## **CAPITAL EXPENDITURE**

## PETITIONER'S SUBMISSION

3.44. The Petitioner has submitted that it has made certain capital additions in FY 2018-19 for an amount of Rs 10.41 Cr. These are the capital spares purchased for the maintenance of plant and are included in the fixed assets in the books of the company as per IND-AS requirement.



3.45. The Petitioner has further submitted details of proposed Capex Schemes in its true up petition no. 06 of 2018 for FY 16-17 and ARR for FY 18-19. The Para 5.1 table 17 of the tariff petition had details of Capital expenditure schemes for FY 18-19, FY 19-20 and FY 20-21. Further Petitioner has requested expenditure of Rs 3.13 Cr to be met on account of Up-gradation of STG process controller, vibration system of GT1, GT2 and STG and Refurbishment of Cooling tower cells and structure. The State Commission in subsequent tariff order dated 28.03.2018 in above petition has allowed Rs 2.00 Cr as additional partial expenditure on above heads in Para 4.24 table No. 38. The details of the CAPEX schemes implemented in FY 2018-19 are here as under:

Table 3. 18: Petitioner's Submission: Capex Schemes for FY 18-19

Sr. No.	Item/ Scheme	Amount (Rs. In	Remarks
		Lac)	
1.	Up-gradation of processors	87.26 (73.95 lacs +	The Scheme was implemented and
	of STG Control system	taxes)	the payment has been done.
	Total	87.26	

3.46. The Petitioner has requested the Commission to allow the expenditure of Rs. 11.29 Crore towards Capital Expenditure incurred for PPS-I in FY 2018-19. Accordingly, the capitalization submitted by the Petitioner for FY 2018-19 is calculated as below:

Table 3. 19: Petitioner's Submission: Capital Expenditure

Sr. No.	Particulars	Unit	FY 2018-19
Α	Opening GFA	Rs. In Cr	1050.38
В	Addition	Rs. In Cr	11.29
С	Deletion	Rs. In Cr	2.75
D	Closing GFA	Rs. In Cr	1058.92
Е	Average GFA	Rs. In Cr	1054.65

# **COMMISSION ANALYSIS**

- 3.47. The Commission has not considered the additional capitalization amounting to Rs. 10.42 Cr out of Rs. 11.29 Cr as the same are in nature of capital spares which is covered under the O&M expenses of the Petitioner.
- 3.48. Accordingly, the GFA approved by the Commission provisionally for FY 2018-19 is as follows:



Sr. No. **Particulars UoM** FY 2018-19 Commission Approved in Petitioner T.O. dated Submission **Approved** 28/03/2018 Opening GFA 1050.38 Α Rs Cr 1050.38 1050.38 Addition Rs Cr 11.29 В 2.00 0.87 Deletion 2.75 C Rs Cr 0.00 2.75 Closing GFA 1052.38 1058.92 1048.50 D Rs Cr 1049.44 Ε Average GFA Rs Cr 1051.38 1054.65

**Table 3. 20: Commission Approved: Capital Expenditure** 

#### DEPRECIATION

## PETITIONER'S SUBMISSION

- 3.49. The Petitioner has submitted that since the cumulative depreciation has reached 70% of the total depreciation, the Petitioner has spread the remaining depreciable value over the remaining life of the asset, in accordance with the DERC Tariff Regulations, 2017. The total accumulated depreciation allowed by the Commission till FY is Rs. 809.02 Cr.
- 3.50. Accordingly, depreciation calculated for FY 2018-19 is calculated as below:

Sr. No. **Particulars** FY 2018-19 Unit Average GFA Α Rs. in Cr 1054.65 **Opening Accumulated Depreciation** Rs. in Cr 809.02 В C **Balance Depreciation** Rs. in Cr 140.17 D Balance Useful Life Years 10 14.02 Ε **Current Year Depreciation** Rs. in Cr 823.04 Closing Accumulated Depreciation Rs. in Cr G Average Accumulated Depreciation Rs. in Cr 816.03 Н Average Net Fixed Asset 238.62 Rs. in Cr

Table 3. 21: Petitioner's Submission: Depreciation

# **COMMISSION ANALYSIS**

- 3.51. The Commission has approved the accumulated depreciation of Rs 809.02 Cr at the closing of FY 2017-18 in the relevant tariff order. The same has been considered as the opening accumulated depreciation for FY 2018-19. It is observed that PPS-I Station was commissioned in FY 2002-03 and shall complete its useful life by year 2027-28. Accordingly, the Commission has spread the remaining depreciable value over the remaining life of the asset and has computed depreciation for FY 2018-19.
- 3.52. The Depreciation approved by the Commission for true up for FY 2018-19 is as follows:



Sr. **Particulars** Unit FY 2018-19 Commission No. **Approved** Petitioner's in T.O. Submission **Approved** dated 28/03/2018 Average GFA Rs. in Cr 1051.38 1054.65 1049.44 Α Opening Accumulated Rs. in Cr 809.02 В 809.02 809.02 Depreciation Rs. in Cr Adjustment of De-C 0.35 capitalization **Balance Depreciation** Rs. in Cr D 137.22 140.17 135.12 [90% of A- (B+C) Ε Balance Useful Life Years 10 10 10 **Current Year Depreciation** Rs. in Cr 13.72 14.02 13.51 F Rs. in Cr Closing Accumulated G 822.74 823.04 822.53 Depreciation Average Accumulated Rs. in Cr Н 815.88 816.03 815.78 Depreciation Average Net Fixed Asset Rs. in Cr 235.50 238.62 233.66

Table 3. 22: Commission Approved: Depreciation

## **WORKING CAPITAL**

## PETITIONER'S SUBMISSION

- 3.53. Petitioner has calculated the Interest on Working Capital as per DERC Tariff Regulations, 2017 which reads as under:
  - "(2) Open-cycle Gas Turbine/Combined Cycle thermal generating stations as follows:
  - (a) Fuel Cost for 30 days corresponding to the NAPAF duly taking into account mode of operation of the generating station on gas fuel and liquid fuel;
  - (b) Liquid fuel stock for 15 days
  - (c) Maintenance spares @ 30% of Operation and Maintenance expenses specified in this Regulation;
  - (d) Receivables equivalent to two months of capacity charge and energy charge for sale of electricity calculated on normative plant availability factor, duly taking into account mode of operation of the generating station on gas fuel and liquid fuel; and
  - (e) Operation and maintenance expenses for one month."



- 3.54. Petitioner has submitted that Commission in Tariff order dated 28.03.2018 has taken fuel cost for the month of Nov-17, Dec-17 and Jan–18 in arriving working capital for FY 18-19. However, as per DERC tariff regulation 2017, the same should be taken for the month of Jan-18, Feb-18 and Mar-18. Accordingly, Petitioner has taken fuel cost for working capital by taking average of three months from Jan-18 to March-18 as per DERC tariff Regulation 2017 for FY 2018-19 which reads as under:
  - "107. Landed Fuel Cost for Tariff Determination: The landed fuel cost of primary fuel and secondary fuel for tariff determination shall be based on actual weighted moving average cost of respective fuel before the start of the tariff period for existing and new generating stations".
- 3.55. Further, the weighted average landed price of gas for the period is 20.487 Rs/SCM and weighted average GCV is 9329.581 kCal/SCM. The detailed calculation is attached and placed as Annexure 'C'. Thus, Fuel Cost arrived @ Normative parameters is Rs 1079.15 Cr. Accordingly, working capital for FY 18-19 is consider as under:

Table 3. 23: Petitioner's Submission: Requirement of Working Capital

Sr. No.	Particulars	Unit	FY 2018-19
Α	Fuel expenses for 1 month	Rs Cr	89.93
В	Liquid Fuel for 1/2 month	Rs Cr	0.00
С	Maintenance spares @ 30% of O&M	Rs Cr	24.33
D	O&M expenses for 1 month	Rs Cr	6.76
Е	Annual Fixed Cost for the year	Rs Cr	167.86
F	Fuel Cost for the year	Rs Cr	1079.15
G	Receivables equivalent to 2 months of capacity	Rs Cr	207.84
G	and energy charge	NS CI	207.64
Н	Total Working Capital	Rs Cr	328.86

3.56. Petitioner has revised requirement of working capital on normative basis for FY 18-19 and requested Commission to true up the working capital for FY 18-19 as per above details.

## **COMMISSION ANALYSIS**

- 3.57. The Commission in Tariff Order dated 28/03/2018 for FY 2018-19 has determined the working capital of PPS-I Station based on the provisions of DERC Tariff Regulations, 2017.
- 3.58. Accordingly, the Commission has considered the working capital for FY 2018-19 as



approved by the Commission vide its Order dated 28/03/2018 which is as follows:

Table 3. 24: Commission Approved: Requirement of Working Capital

Sr. No.	Particulars	Unit	FY 18-19	Reference
Α	Fuel expenses for 1 month	Rs Cr	86.54	
В	Liquid Fuel for 1/2 month	Rs Cr	0.00	
С	Maintenance spares @ 30% of O&M	Rs Cr	24.33	
D	O&M expenses for 1 month	Rs Cr	6.76	As per Tariff
E	Annual Fixed Cost for the year	Rs Cr	166.50	Order dated
F	Fuel Cost for the year	Rs Cr	1038.52	28/03/2018
G	Receivables equivalent to 2 months of	Rs Cr	200.84	
G	capacity and energy charge	KS CI	200.64	
Н	Total Working Capital	Rs Cr	318.47	

# REQUIREMENT OF LOAN AND EQUITY

## **PETITIONER'S SUBMISSION**

3.59. The Petitioner has submitted that since accumulated depreciation is greater than the 70% of Gross Fixed asset during FY 2018-19, the remaining value is treated as 100% equity. Accordingly, the Petitioner has determined the requirement of Loan and Equity as follows:

Table 3. 25: Petitioner's Submission: Requirement of Loan & Equity

Sr. No.	Particulars	Unit	FY 2018-19
Α	Average Net Fixed Asset	Rs Cr	238.62
В	Average Equity	Rs Cr	238.62
С	Average CAPEX Loan	Rs Cr	0.00
D	Working Capital Loan	Rs Cr	328.86
Е	Total Loan Requirement	Rs Cr	328.86
F	Average RRB	Rs Cr	567.48

3.60. Petitioner has filed an appeal no. 393 of 2019 in APTEL against not treating the balance GFA as equity, in absence of any outstanding loan (all Capital Loans are already paid), rather dividing it in the ratio of 30:70 of equity and loan.

## **COMMISSION ANALYSIS**

3.61. Regulation 63 of the Tariff Regulations, 2017 deals with financing of the capital cost in Debt Equity ratio to be allowed for existing project or scheme and the relevant extract



is as follows:

"63. For determination of Tariff, the debt-equity ratio for any project or scheme under commercial operation shall be considered as 70:30:

## **Provided that:**

- (v) Where equity actually deployed is less than 30% of the capital cost, actual equity shall be considered for determination of tariff;
- (vi) Where equity actually deployed is more than 30% of the capital cost, equity in excess of 30% shall be treated as notional loan;
- (vii) The equity invested in foreign currency shall be designated in Indian rupees on the date of each investment;
- (viii) Any grant/contribution/deposit obtained for the execution of the project/scheme shall not be considered as a part of capital structure for the purpose of debt: equity ratio."
- 3.62. The Commission has determined the requirement of Loan & Equity in terms of above stated Regulation pending the order of the APTEL judgment in appeal filed by the Petitioner, which is as follows:

Table 3. 26: Commission Approved: Requirement of Loan & Equity

Sr.		П	FY 2018-19			
No.	Particulars	Unit	Approved in T.O. dated 28/03/2018	Petitioner's Submission	Commission Approved	
Α	Average Net Fixed Asset	Rs Cr	235.50	238.62	233.66	
В	Average Equity	Rs Cr	70.65	238.62	70.10	
С	Average CAPEX Loan	Rs Cr	164.85	0.00	163.56	
D	Working Capital Loan	Rs Cr	318.48	328.86	318.47	
E	Total Loan Requirement	Rs Cr	483.33	328.86	482.04	
F	Average RRB	Rs Cr	553.98	567.48	552.14	

# **RETURN ON CAPITAL EMPLOYED**

# PETITIONER'S SUBMISSION

3.63. The Petitioner has submitted that Commission has specified the methodology for allowing Return on Capital Employed in Tariff Regulations, 2017 as follows:



"65. Return on Capital Employed shall be used to provide a return to the Utility, and shall cover all financing costs except expenses for availing the loans, without providing separate allowances for interest on loans and interest on working capital.

66. The Regulated Rate Base (RRB) shall be used to calculate the total capital employed which shall include the Original Cost of Fixed Assets (OCFA) and Working Capital. Capital work in progress (CWIP) shall not form part of the RRB. Accumulated Depreciation, Consumer Contribution, Capital Subsidies / Grants shall be deducted in arriving at the RRB.

67. The RRB shall be determined for each year of the Control Period at the beginning of the Control Period based on the approved capital investment plan with corresponding capitalisation schedule and normative working capital."

69. Return on Capital Employed (RoCE) for the year "i" shall be computed in the following manner:

RoCE=WACCi\* RRBi

Where, WACCi

is the Weighted Average Cost of Capital for each year of the Control Period;

RRBi – Average Regulated Rate Base for the ith year of the Control Period.

70. The WACC for each year of the Control Period shall be computed at the start of the Control Period in the following manner:

WACC = [D/(D+E)]\*rd + [E/(D+E)]\*re

Where, D is the amount of Debt derived as per these Regulations;

E is the amount of Equity derived as per these Regulations;"

3.64. The Petitioner has further submitted that, Commission has specified Margin for Rate of Interest on loan in Business Plan Regulations, 2017 as follows:

"5. MARGIN FOR RATE OF INTEREST ON LOAN

(1) Margin for rate of interest in terms of Regulation 4(2) of the DERC (Terms and Conditions for Determination of Tariff) Regulations, 2017 for the Generating Entity shall be allowed over and above 1 (one) year Marginal Cost of Fund based Lending Rate (MCLR) of SBI for computation of rate of interest on loan"



Table 1: Margin for Rate of Interest on Loan (%)					
Sr. No.         Generating Station         2017-18         2018-19         2019-20					
1	1 Pragati Power Station 2.98% 2.98% 2.98%				

- 3.65. Petitioner has considered the rate of interest on loan by considering the Bank Rate as Marginal Cost of Fund based Lending Rate (MCLR) of SBI as notified by the State Bank of India and margin as approved in Business Plan Regulations, 2017. Accordingly rate of interest on loan for FY 18-19 has been calculated at 11.13% on the basis of SBI MCLR of 8.15% as on 1st April, 2018 plus margin of 2.98% for FY 2018-19.
- 3.66. Further, the Petitioner has considered the base rate of return on equity at 14% and the same has been grossed up with rate of income tax at 22.15%. Accordingly grossed up rate of return on equity has been computed at 17.98% for FY 2018-19.
- 3.67. Accordingly, Petitioner has computed Weighted Average Cost of Capital (WACC) and Return on Capital Employed (RoCE) as follows:

Sr. No. **Particulars** FY 18-19 Unit Α Average RRB Rs in Cr. 567.48 0.00 В Average Capex Ioan Rs in Cr. Loan for Working Capital Requirement Rs in Cr. 328.86 C D Rs in Cr. 328.86 Total Loan Ε Average Equity Rs in Cr. 238.62 F Cost of Debt, Rd % 11.13 G Return on Equity, Re % 17.98 WACC % 14.01 Н **RoCE** Rs in Cr. 79.51

Table 3. 27: Petitioner's Submission: WACC and RoCE (Rs. Cr.)

- 3.68. Regulation 3 and 4 of Business Plan Regulations, 2017 deal with Return on Equity (RoE) and Tax on Return on Equity as follows:
  - "3. RATE OF RETURN ON EQUITY

Return on Equity in terms of Regulation 4(1) of the DERC (Terms and Conditions for Determination of Tariff) Regulations, 2017 for Generating Entity shall be computed at the Base Rate of 14.00% on post tax basis.

4. TAX ON RETURN ON EQUITY



The base rate of Return on Equity as allowed by the Commission under Regulation 3, shall be grossed up with the Minimum Alternate Tax or Effective Tax Rate of the respective financial year in terms of Regulation 72 and 73 of the DERC (Terms and Conditions for Determination of Tariff) Regulations, 2017, as per the following formula:

Rate of Return on Equity= 14/[(100-Tax Rate)/100]

where, Tax Rate is Minimum Alternate Tax (MAT) or Effective Tax Rate, as the case may be."

3.69. Regulation 77 of Tariff Regulations, 2017 deal with interest on Loan as follows:

"77. The rate of interest on loan shall be based on weighted average rate of interest for actual loan portfolio subject to the maximum of bank rate as on 1<sup>st</sup> April of the year plus the margin as approved by the Commission in the Business Plan Regulations for a Control Period: Provided that in no case the rate of interest on loan shall exceed approved rate of return on equity:

Provided further that if there is no actual loan for a particular year but normative loan is still outstanding, the last available weighted average rate of interest shall be considered:

Provided also that if the Utility does not have actual loan then the rate of interest shall be considered at the bank rate plus margin, as specified by the Commission in the Business Plan Regulations, for the notional loan of the relevant control period:

Provided also that the loan availed through open tendering process (Competitive Bidding) among Scheduled Banks, Financial Institutions etc., shall be considered at the rate discovered through open tendering process."

3.70. Further, for Margin for Interest on Loan, Business Plan Regulations, 2017 is to be followed. Relevant extract of Business Plan Regulations, 2017 is as follows:

"5. MARGIN FOR RATE OF INTEREST ON LOAN

Margin for rate of interest for the Control Period in terms of Regulation 4(2) of the DERC (Terms and Conditions for Determination of Tariff) Regulations, 2017 for the Generating Entity shall be allowed as the difference in weighted average rate of



interest on actual loan as on 1st April 2017 and 1 (one) year Marginal Cost of Fund based Lending Rate (MCLR) of SBI as on 1st April 2017:

Provided that the rate of interest on loan (MCLR plus Margin) shall not exceed approved base rate of return on equity i.e., 14.00%."

- 3.71. During the prudence check, it was submitted by the Petitioner that PPCL doesn't have any actual loan remaining, thus, SBI MCLR rate as on 01/04/2018 i.e. 8.15% has considered by the Commission in terms of Tariff Regulations, 2017 and Business Plan Regulations, 2017 for the period FY 2018-19.
- 3.72. Regulation 85 and 86 of Tariff Regulations, 2017 deal with the Interest on Working Capital and the relevant extract is as follows:

"85. Rate of Interest On Working Capital shall be considered as the bank rate as on 1st April of the year plus margin as specified by the Commission for the Control Period and shall be trued up on the basis of prevailing bank rate as on 1st April of the respective financial year: Provided that the rate of interest availed through open tendering process (Competitive Bidding) among Scheduled Banks, Financial Institutions etc., shall not be trued up. 86. Interest on working capital shall be payable on normative basis notwithstanding that the Utility has availed any loan for the working capital."

- 3.73. Further, the Commission has specified the methodology for allowing Return on Capital Employed in Tariff Regulations, 2017 as follows:
  - "65. Return on Capital Employed shall be used to provide a return to the Utility, and shall cover all financing costs except expenses for availing the loans, without providing separate allowances for interest on loans and interest on working capital.
  - 66. The Regulated Rate Base (RRB) shall be used to calculate the total capital employed which shall include the Original Cost of Fixed Assets (OCFA) and Working Capital. Capital work in progress (CWIP) shall not form part of the RRB. Accumulated Depreciation, Consumer Contribution, Capital Subsidies / Grants shall be deducted in arriving at the RRB.



67. The RRB shall be determined for each year of the Control Period at the beginning of the Control Period based on the approved capital investment plan with corresponding capitalisation schedule and normative working capital.

68. The Regulated Rate Base for the ith year of the Control Period shall be computed in the following manner:

RRBi = RRB i-1 +  $\Delta$ ABi /2 +  $\Delta$ WCi;

Where,

"i" is the ith year of the Control Period;

RRBi: Average Regulated Rate Base for the ith year of the Control Period;

ΔWCi: Change in working capital requirement in the ithyear of the Control Period from (i-1)th year;

ΔABi: Change in the Capital Investment in the ith year of the Control Period;

This component shall be arrived as follows:

 $\Delta ABi = Invi - Di - CCi - Reti;$ 

Where.

Invi: Investments projected to be capitalised during the ith year of the Control Period and approved;

Di: Amount set aside or written off on account of Depreciation of fixed assets for the ith year of the Control Period;

CCi: Consumer Contributions, capital subsidy / grant pertaining to the  $\triangle ABi$  and capital grants/subsidies received during ith year of the Control Period for construction of service lines or creation of fixed assets;

Reti: Amount of fixed asset on account of Retirement/ Decapitalisation during ith Year;

RRB i-1: Closing Regulated Rate Base for the Financial Year preceeding the ith year of the Control period. For the first year of the Control Period, Closing RRB i-1 shall be the Opening Regulated Rate Base for the Base Year i.e. RRBO;

RRBO = OCFAO - ADO - CCO + WCO;

Where;

OCFAO: Original Cost of Fixed Assets at the end of the Base Year;



ADO: Amounts written off or set aside on account of depreciation of fixed assets pertaining to the regulated business at the end of the Base Year;

CCO: Total contributions pertaining to the OCFAo, made by the consumers, capital subsidy / grants towards the cost of construction of distribution/service lines by the Distribution Licensee and also includes the capital grants/subsidies received for this purpose;

WCO: working capital requirement in the (i-1)th year of the Control Period.

69. Return on Capital Employed (RoCE) for the year "i" shall be computed in the following manner:

RoCE=WACCi\* RRBi

Where,

WACCi is the Weighted Average Cost of Capital for each year of the Control Period; RRBi – Average Regulated Rate Base for the ith year of the Control Period.

70. The WACC for each year of the Control Period shall be computed at the start of the Control Period in the following manner:

$$WACC = \left[\frac{D}{D+E}\right] * r_d + \left[\frac{E}{D+E}\right] * r_e$$

Where,

D is the amount of Debt derived as per these Regulations;

E is the amount of Equity derived as per these Regulations;

Where equity employed is in excess of 30% of the capital employed, the amount of equity for the purpose of tariff shall be limited to 30% and the balance amount shall be considered as notional loan. The amount of equity in excess of 30% treated as notional loan. The interest rate on excess equity shall be the weighted average rate of interest on the actual loans of the Licensee for the respective years. Where actual equity employed is less than 30%, the actual equity and debt shall be considered;

Provided that the Working capital shall be considered 100% debt financed for the calculation of WACC;

rd is the Cost of Debt;



re is the Return on Equity."

3.74. Accordingly the Commission has trued up the Return on Capital Employed (RoCE) for FY 2018-19 as follows:

Table 3. 28: Commission Approved: WACC and RoCE

Sr.	Particulars	Unit	FY 2018-19		
No.			Approved in T.O. dated 28/03/2018	Petitioner's Submission	Approved
Α	Average RRB	Rs in Cr.	553.98	567.48	552.14
В	Average Capex Ioan	Rs in Cr.	164.85	0.00	163.56
С	Loan for Working Capital Requirement	Rs in Cr.	318.48	328.86	318.47
D	Total Loan	Rs in Cr.	483.33	328.86	482.04
E	Average Equity	Rs in Cr.	70.65	238.62	70.10
F	Cost of Debt, Rd	%	11.13	11.13	8.15
G	Return on Equity, Re	%	17.80	17.98	17.98
Н	WACC	%	11.98	14.01	9.40
ı	RoCE	Rs in Cr.	66.37	79.51	51.89

## **INCOME TAX EXPENSES**

# **PETITIONER'S SUBMISSION**

3.75. The Petitioner has computed the Return on Capital Employed (RoCE) including the income tax by grossing-up the Return on Equity.

## **COMMISSION'S ANALYSIS**

3.76. It was observed during the prudence check session with the Petitioner, that the Petitioner has paid income tax for FY 2018-19 at an income tax rate of 22.15%. The actual income tax paid by the Petitioner during FY 2018-19 was Rs. 22.58 Crore. The documentary proof for the same was submitted by the Petitioner vide its submission dated 26/02/2020.

# **FIXED AUXILIARY CONSUMPTION EXPENSES**

# **PETITIONER'S SUBMISSION**



3.77. The Petitioner has submitted that the Commission has allowed Fixed Auxiliary Consumption expenses (0.5%) @ Normative PLF. Accordingly, Petitioner has calculated Fixed Auxiliary Consumption Expenses for FY 2018-19 as under:

Table 3. 29: Petitioner's Submission: Fixed Auxiliary Consu	nption Expenses
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Sr. No.	Particulars	Unit	FY 2018-19
Α	Plant Capacity	MW	330
В	Normative PLF	%	85
С	Gross Generation	MU	2457.18
D	Fixed Auxiliary Consumption	%	0.5
Е	Fixed Auxiliary Consumption	MU	12.29
F	Energy Charge Rate	Rs/kWh	4.937
G	Fixed Auxiliary Consumption	Rs Cr	6.07

3.78. Further, as regards to estimation of sent out energy on normative APC, Petitioner had filed review petition no. 60 of 2017 and 42 of 2018 to resolve the issue of arriving sent out energy. Accordingly the State commission vide its order dated 17.10.2019 and 23.10.2019 has ordered to calculate ex-bus sent out energy on normative APC of 2.5% rather than 2% (excluding 0.5% of fixed APC). However, Petitioner has arrived ECR on actual auxiliary consumption basis.

#### **COMMISSION ANALYSIS**

- 3.79. The Commission has specified the Auxiliary Energy Consumption for existing generating stations of Delhi in Business Plan Regulations, 2017 and relevant extract is as follows:
  - "8. NORMS OF OPERATION FOR GENERATING STATIONS:

•••

...

## (3) AUXILIARY ENERGY CONSUMPTION

Auxiliary Energy Consumption shall be computed in two parts:

- a) Fixed: 0.5% of the generation at normative PLF of the plant capacity which shall form part of other expenses under Fixed Cost, at energy charge rate approved by the Commission in respective Tariff Order.
- b) Variable: 2.0% in Combined Cycle mode and 0.5% in Open Cycle mode of the actual generation which shall form part of computation of energy charge rate of



the respective month."

3.80. Accordingly, the Commission has considered the Fixed Auxiliary Consumption as approved by the Commission vide its Order dated 28/03/2018 which is as follows:

Table 3. 30: Commission Approved: Fixed Auxiliary Consumption Expenses

Sr. No.	Particulars	UoM	FY 2018-19
Α	Plant Capacity	MW	330
В	Normative PLF	%	85%
С	Gross Generation	MU	2457.18
D	Fixed Auxiliary Consumption	%	0.5%
E	Fixed Auxiliary Consumption	MU	12.29
F	Energy Charge Rate	Rs/kWh	4.313
G	Fixed Auxiliary Consumption	Rs Cr	5.30

#### **NON-TARIFF INCOME**

## **COMMISSION ANALYSIS**

- 3.81. Para 94 of the Tariff Regulations, 2017 specifies the following about Non-Tariff Income (NTI):
  - "94. The Utility shall submit forecast of Non-Tariff Income to the Commission, in such form as may be stipulated by the Commission from time to time, whose tentative list is as follows:
  - (i) Income from rent of land or buildings;
  - (ii) Net Income from sale of de-capitalised assets;
  - (iii) Net Income from sale of scrap;
  - (iv) Income from statutory investments;
  - (v) Net Interest on delayed or deferred payment on bills;
  - (vi) Interest on advances to suppliers/contractors;
  - (vii) Rental from staff quarters;
  - (viii) Rental from contractors;
  - (ix) Income from Investment of consumer security deposit;
  - (x) Income from hire charges from contactors and others, etc.
  - 95. The Non Tariff Income shall be reduced from ARR."
- 3.82. Accordingly, the Commission based on the Cost Audit Report submitted by the Petitioner (Proforma-H Surcharge on Sale of Energy (Pragati), has considered the LPSC



and subsequently the impact of the same on NTI for FY 2018-19 is as under:

Table 3. 31: Commission Approved: LPSC Considered as NTI

Sr. No.	LPSC Details for FY 2018-19	Amount (Rs Cr)
Α	LPSC Amount Collected	36.15
В	Principal Amount @18%	200.83
С	LPSC Amount allowed for retention @11.13% (Rate of Interest on Working Capital)	22.35
D	LPSC amount considered as NTI	13.80

Table 3. 32: Commission Approved: Computation of NTI

Sr. No.	Component of NTI for FY 2018-19	Amount (Rs Cr)
Α	Rental from staff quarters	0.08
В	NTI on account of LPSC	13.80
С	Net Income from sale of scrap	0.11
D	Total NTI	13.99

## **SUMMARY OF FIXED COST**

# **PETITIONER'S SUBMISSION**

3.83. Annual Fixed Cost for FY 2018-19 submitted by the Petitioner is as under:

Table 3. 33: Petitioner's Submission: Annual Fixed Cost

Sr. No.	Particulars	Unit	FY 2018-19
Α	Return on Capital Employed	Rs Cr	79.51
В	Depreciation	Rs Cr	14.02
С	Operation and Maintenance Expenses	Rs Cr	99.06
D	Fixed Auxiliary Consumption	Rs Cr	6.07
Е	Annual Fixed Cost	Rs Cr	198.65
F	Net Generation	MU	1479.42
G	Fixed Cost Per Unit	Rs/ kWh	1.343

#### **COMMISSION ANALYSIS**

- 3.84. Regulation 99 of Tariff Regulations, 2017 provides components to be considered for computation of Annual Fixed Cost for a Generating Entity and relevant extract is as follows:
  - "99. The annual fixed cost (AFC) of a Generating Entity shall consist of the following components as specified in these Regulations:

Return on Capital Employed;

Depreciation; and

Operation and Maintenance expenses."



Regulation 8 of Business Plan Regulations, 2017 provides as under:

"8. NORMS OF OPERATION FOR GENERATING STATIONS:

•••

...

# (3) AUXILIARY ENERGY CONSUMPTION

Auxiliary Energy Consumption shall be computed in two parts:

- a) Fixed: 0.5% of the generation at normative PLF of the plant capacity which shall form part of other expenses under Fixed Cost, at energy charge rate approved by the Commission in respective Tariff Order.
- 3.85. Accordingly, the Commission has trued up the AFC for FY 2018-19 as follows:

Table 3. 34: Commission Approved: Annual Fixed Cost

Sr.	Particulars	UoM	ni Approved. A	FY 2018-19		Ref.
No			As per Order dated 28/03/201 8	Petitioner' s Submission	Commissio n Approved	
Α	Return on Capital Employed	Rs Cr	66.37	79.51	51.89	Table 3.28
В	Depreciation	Rs Cr	13.72	14.02	13.51	Table 3.22
С	Operation and Maintenance Expenses (Incl. DLN (AGP) and STP for FY 2014-15 along with carrying cost)	Rs Cr	81.11	99.06	136.33	Table 3.17
D	Fixed Auxiliary Consumption	Rs Cr	5.30	6.07	5.30	Table 3.30
Ε	Annual Fixed Cost	Rs Cr	166.51	198.65	207.03	(A+B+C+D)
F	Less: Non-Tariff Income (NTI)	Rs Cr	1	1	13.99	Table 3.32
G	Annual Fixed Cost (Net of NTI)	Rs Cr	166.51	198.65	193.04	G=E-F
Н	Net Generation	MU	2408.04	1479.42	1479.42	Table 3.8
I	Fixed Cost per unit	Rs./kW h	0.691	1.342	1.305	I=(G/H)*1 0

3.86. The Petitioner is directed to recover an amount of Rs. 26.53 Cr. *(Ref. Table 3.34: Rs. Cr. 193.04 - 166.51)* for FY 2018-19, based on the true up of Annual Fixed Cost as indicated in the above table as per Regulation 151 of Tariff Regulations, 2017.



# A4: ANALYSIS OF AGGREGATE REVENUE REQUIREMENT (ARR) FOR FY 2020-21 NORMS OF OPERATION

4.1 The Commission has specified the norms of operation, for the purpose of determination of tariff in Business Plan Regulations, 2019. The submissions made by the Petitioner in this regard and the Commission's view on the same has been discussed in the following sections.

## PLANT AVAILABILITY AND PLANT LOAD FACTOR

# **PETITIONER'S SUBMISSION**

- 4.2 The Petitioner has submitted that the operational parameters considered by the Petitioner for FY 2020-21 is as per DERC Business Plan Regulations, 2019.
- 4.3 The Petitioner has proposed plant availability for FY 2020-21 as follows:

Table 4. 1: Plant Availability submitted by the Petitioner

Sr. No.	Particulars	UoM	FY 2017-18
1	Plant Availability	%	85%

# **COMMISSION'S ANALYSIS**

- 4.4 The Commission has specified the Normative Annual Plant Availability Factor (NAPAF) and Normative Annual Plant Load Factor (NAPLF) in Business Plan Regulations, 2019 and relevant extract is as follows:
  - "8. NORMS OF OPERATION FOR GENERATING STATIONS:
  - (1) Normative Annual Plant Availability Factor and Normative Annual Plant Load Factor for existing generating stations of Delhi shall be as follows:
  - I. Normative Annual Plant Availability Factor (NAPAF): 85%
  - II. Normative Annual Plant Load Factor (NAPLF): 85%"
- 4.5 In view of the above, the Commission has considered Plant Availability and Plant Load Factor as approved in Business Plan Regulations, 2019.



## STATION HEAT RATE

## **PETITIONER'S SUBMISSION**

- 4.6 The Petitioner has submitted that the operational parameters considered by the Petitioner for FY 2020-21 is as per DERC Business Plan Regulation, 2019.
- 4.7 The Petitioner has further requested to consider the impact on performance of thermal generating stations operated in part load operation as recommended by Central Electricity Authority vide letter no. CEA/TETD-TT/2018/N-15/1451 dated 10/12/2018. The impact of part load operation on performance of thermal generating stations is reproduced as under:-

"F. Impact of part load operation on performance of thermal generating stations:

.....

- 2. Gas/Liquid fuel based Thermal generating Stations:
- *i)* Impact on Station Heat Rate:

The degradation of module/plant heat rate for gas /liquid fuel based thermal generating stations in CCGT mode of operation are proposed to be considered as below:

SI.No.	Module/Plant loading as % of Installed capacity	Increase in module/plant heat rate (%)
1.	90 to 100	Nil
2.	80 to 89.99	2.5
3.	70 to 79.99	5
4.	60 to 69.99	8
5.	50 to 59.99	12

4.8 Accordingly, the Petitioner has considered Station Heat Rate for FY 2020-21 as follows:

Table 4. 2: Proposed SHR submitted by the Petitioner

Sr. No.	Particulars	UoM	FY 2020-21
1	Station Heat Rate (Combined Cycle)	kCal/ kWh	2000
2	Station Heat rate (Open Cycle)	kCal/ kWh	2900



- 4.9 The Commission has specified the Station Heat Rate (SHR) for existing generating stations of Delhi in Business Plan Regulations, 2019 and relevant extract is as follows:
  - "8. NORMS OF OPERATION FOR GENERATING STATIONS:

(2) GROSS STATION HEAT RATE (GHR)

Gross Station Heat Rate for existing generating stations of Delhi shall be as follows:

Table 5: Gross Station Heat Rate (GHR)

Sr. No	Generating Station	Combined Cycle	Open Cycle
31.100	Generating Station	(kCal/ k	Wh)
1	Gas Turbine Power Station	2450	3125
	(GTPS)		
2	Pragati Power Station I (PPS-I)	2000	2900

....

4.10 While framing the norms of operation in Business Plan Regulations, 2019, the Commission has determined the norms of operation based on the past performance, vintage of equipment etc. Accordingly, the Commission has considered Station Heat Rate as approved in Business Plan Regulations, 2019.

# **AUXILIARY POWER CONSUMPTION**

## **PETITIONER'S SUBMISSION**

- 4.11 The Petitioner has submitted that the operational parameters considered by the Petitioner for FY 2020-21 is as per DERC Business Plan Regulation, 2019.
- 4.12 The Petitioner has further requested to consider the impact on performance of thermal generating stations operated in part load operation as recommended by Central Electricity Authority vide letter no. CEA/TETD-TT/2018/N-15/1451 dated 10/12/2018.



The impact of part load operation on performance of thermal generating stations is reproduced as under:

"F. Impact of part load operation on performance of thermal generating stations:

.....

- 3. Gas/Liquid fuel based Thermal generating Stations:
- ii) Impact on Auxiliary Energy Consumption:
  The additional auxiliary energy consumption admissible at part loading of gas/liquid fuel based thermal generating station is proposed to be considered as below:

Sl.No.	Plant/ Module loading as % of Installed capacity	Admissible % additional auxiliary energy consumption (% point)
1.	90 to 100	Nil
2.	80 to 89.99	2.5
3.	70 to 79.99	5
4.	60 to 69.99	8
5.	50 to 59.99	12

....."

- 4.13 Since the PLF of PPS-I for the last 3 years had been quite low due to less scheduling of the plant by SLDC and DISCOMs. In view of the low scheduling the loading of the plant remains very low as compared to the installed capacity. Therefore, Petitioner has requested to kindly consider the recommendations of CEA and provide suitable compensation to the Petitioner in heat rate and Auxiliary power consumption.
- 4.14 Accordingly, the Petitioner has considered Auxiliary Power Consumption for FY 2020-21 as follows:

Table 4. 3: Auxiliary Power Consumption submitted by the Petitioner

Sr. No.	Particulars	UoM	FY 2020-21
1	Auxiliary power consumption in CC mode	%	2.75%
2	Auxiliary power consumption in OC mode	%	1.00%



- 4.15 The Commission has specified the Auxiliary Energy Consumption for existing generating stations of Delhi in Business Plan Regulations, 2019 as follows:
  - "8. NORMS OF OPERATION FOR GENERATING STATIONS:

---

...

# (3) AUXILIARY ENERGY CONSUMPTION

Auxiliary Energy Consumption for existing Gas based Generating Stations of Delhi shall be as follows:

S.No.	Mode of Operation	Percentage
1	Combined Cycle	2.75%
2	Open Cycle	1.00%

....

4.16 While framing the norms of operation in Business Plan Regulations, 2019, the Commission has determined the norms of operation based on the past performance which also includes the actual operation below the technical limit as and when required, vintage of equipment etc. Accordingly, the Commission has considered Auxiliary Power Consumption as approved in Business Plan Regulations, 2019.

# **GROSS AND NET GENERATION**

# **PETITIONER'S SUBMISSION**

4.17 The Petitioner has submitted Gross and Net Generation for PPS-I Station for FY 2020-21 as follows:

Table 4. 4: Petitioner Submission: Gross and Net Generation

Sr. No.	Particulars	UoM	FY 2020-21
1	Gross Generation	MU	2457.18
2	Auxiliary Consumption	%	2.75%
3	Net Generation	MU	2389.61



4.18 Gross and Net Generation for FY 2020-21 as approved by the Commission based on the norms of operation specified in Business Plan Regulations, 2019 is as follows:

Table 4. 5: Gross and Net Generation approved by the Commission (MU)

Sr. No.	PPS-I	UOM	FY 2020-21	Ref.
Α	Capacity	MW	330	
В	NAPLF	%	85	
С	Gross Generation	MU	2457.18	(AxBx365x24)/ 1000
D	Auxiliary Consumption	%	2.75%	Para 4.15
E	Auxiliary Consumption	MU	67.57	CxD
F	Net Generation	MU	2389.61	C-E

# ENERGY CHARGE RATE AND VARIABLE COST PETITIONER'S SUBMISSION

- 4.19 The Petitioner has submitted that it has a long-term agreement with Gas Authority of India Limited (GAIL) for supply of gas. Initially, the Petitioner had a daily allocation of 1.75 MMSCM of APM gas, which was sufficient to run both gas turbines on base load. The daily gas allocation to PPCL was between 0.19 to 0.25 MMSCMD of APM gas and 0.28 MMSCMD of PMT gas. However, due to depleting gas reserves of ONGC, GAIL has been imposing regular cuts on supply of gas.
- 4.20 The Petitioner further submitted that it then signed a fall back agreement with GAIL for supply of spot R-LNG gas in order to meet the shortfall in gas supply. The Petitioner has submitted that Ministry of Petroleum and Natural Gas (MoP&NG) has allocated 0.02



- MMSCMD non-APM ONGC gas whose supply has been commenced from mid October, 2011.
- 4.21 For projecting the total fuel costs for FY 2020-21, the weighted average price of the gas has been taken for preceding three months i.e. October to December, 2019 in line with the DERC Regulations, 2017. The weighted average price of gas from October to December, 2019 for PPCL is Rs. 24.826 SCM and weighted average GCV is 9226.299 kCal/SCM.
- 4.22 Further, the Petitioner has stated that recovery of energy charges, as projected below, would be in accordance with the formula specified in the DERC Regulations, 2017.
- 4.23 Accordingly, the Petitioner has submitted the total fuel cost considering the Gross Generation of the plant, SHR of the station, Gross Calorific Value and the Fuel Prices as follows:

**Particulars** FY 2020-21 Sr. No. UoM **Total Gas Consumption** MMSCM 532.647 Rs./SCM 26.72 2 Average Gas price **Total Gas Cost** 1423.38 Rs. Cr 3 4 **Net Generation** ΜU 2389.61 5 Variable Cost per unit Rs./kWh 5.957

Table 4. 6: Fuel Cost for PPS-I submitted by the Petitioner

- 4.24 The Commission has specified the formula for computation of energy charge rate in DERC Tariff Regulations, 2017 as follows:
  - "103. Energy charge rate (ECR) in Rupees per kWh on ex-power plant basis shall be determined to three decimal places in accordance with the following formulae:
    - (a) For coal based stations:

 $ECR = \{(GHR - SFC \times CVSF) \times LPPF / CVPF + SFC \times LPSFi + LC \times LPL\} \times 100 / (100 - AUX)\}$ 

(b) For gas and liquid fuel based stations



 $ECR = GHR \times LPPF \times 100 / \{CVPF \times (100 - AUX)\}$ 

Where,

AUX =Normative auxiliary energy consumption in percentage

CVPF=(a) Weighted Average Gross calorific value of coal on as received basis from the loaded wagons at the generating stations -in kCal per kg for coal based stations

(b) Weighted Average Gross calorific value of primary fuel as received, in kCal per kg, per litre or per standard cubic meter, as applicable for lignite, gas and liquid fuel based stations.

(c) In case of blending of fuel from different sources, the weighted average Gross calorific value of primary fuel shall be arrived in proportion to blending ratio.

CVSF =Calorific value of secondary fuel, in kCal per ml.

ECR = Energy charge rate, in Rupees per kWh sent out.

GHR =Gross station heat rate, in kCal per kWh.

*LC* = Normative limestone consumption in kg per kWh.

LPL = Weighted average landed price of limestone in Rupees per kg.

LPPF =Weighted average landed price of primary fuel, in Rupees per kg, per litre or per standard cubic metre, as applicable, during the month. (In case of blending of fuel from different sources, the weighted average landed price of primary fuel shall be arrived in proportion to blending ratio)

SFC = Normative Specific fuel oil consumption, in ml per kWh.

LPSFi=Weighted Average Landed Price of Secondary Fuel in Rs./ml during the month;



Provided that energy charge rate for a gas/liquid fuel based station shall be adjusted for open cycle operation based on certification of Delhi SLDC for the open cycle operation during the month.

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- 107. Landed Fuel Cost for Tariff Determination: The landed fuel cost of primary fuel and secondary fuel for tariff determination shall be based on actual weighted moving average cost of respective fuel before the start of the tariff period for existing and new generating stations"
- 4.25 The Petitioner has considered the Fuel Cost after considering the total Gas consumption required to run the Plant throughout the year and considering average gas price of Rs. 26.72/SCM which appears to be on higher side. However, landed Price of Primary fuel and Gross Calorific Value has been computed as per the information available in Form 15 of March, April and May 2020 as available on the website of the Petitioner which is as follows:

Table 4. 7: Fuel Parameters considered for determination of ECR

Sr. No.	Particulars	UoM	Mar-20	Apr-20	May-20
1	Quantum	000'SCM	25747.786	24126.844	24202.248
2	Cost	Rs Cr	57.511	23.495	28.363
3	GCV	kCal/ SCM	9197.054	9230.22	9233.625
4	LPPF	Rs/ SCM	22.336	9.718	11.719
5	Average LPPF	Rs/ SCM			14.60
6	Weighted Average GCV	kCal/ SCM			9219.805

4.26 Accordingly, the Commission approves the Energy Charge Rate (ECR) and Fuel Cost for FY 2020-21 as follows:

Table 4. 8: Commission Approved: ECR and Fuel Cost

Sr. No.	Particulars	UoM	Petitioner's Submission	Approved Value	Ref.
Α	Net Generation	MU	2389.61	2389.61	Table No. 4.5
В	ECR	Rs/ kWh	5.957	3.256	
С	Fuel Cost	Rs Cr	1423.38	778.09	(AxB)/10



## **FIXED COST**

## **OPERATION AND MAINTENANCE EXPENSES**

# **PETITIONER'S SUBMISSION**

- 4.27 The Petitioner has considered the Normative Operation and Maintenance expenses as per DERC Business Plan Regulations, 2019.
- 4.28 The Petitioner has submitted that pay and perks of employees of the Petitioner Company is determined in line with Central Pay Commission Recommendations. In case of Petitioner the same has been partially implemented on recommendation of wage revision committee. Accordingly, Petitioner has paid Interim relief to the employees of IPGCL for the years starting from FY 17-18 to till date. Further, the final payment along with the arrears will be paid to the employees after the order of implementation of wage revision committee report and is likely to be implemented in FY 20-21. 27.

Accordingly, State Commission is requested to allow the impact on account of implementation of seventh pay commission additionally in FY 20-21 on actual basis to the Petitioner.

- 4.29 The Petitioner further submitted that PPCL has installed DLN burner at PPS-I to control the Nox level. The repair and maintenance expenditure on account of DLN/AGPI of the machine is cyclic in nature; has been varied on year to year basis based on the running hours of the machine for smooth operations of the plant. Further, the Petitioner is sourcing plant water requirement from the treated effluent water from sewage treatment plants and has to incur more cost to get raw water, as compared to other similar stations. The actual expenditure on this account includes expenditure on operation, electricity, Chemicals etc.
- 4.30 The O&M Expenses submitted by the Petitioner for PPS-I is as follows:

Table 4. 9: Petitioner Submission: O&M Expenses (Rs.Cr.)

Sr. No.	Particulars	UoM	2020-21
Α	O&M expenses as per DERC Business Regulation, 2019	Rs Cr	75.97
В	DLN Burner for the period	Rs Cr	-
С	STP	Rs Cr	-
D	Impact of 7 <sup>th</sup> Pay commission	Rs Cr	-
	Total O&M Expenses	Rs Cr	75.97



- 4.31 The Commission has specified the normative Operation and Maintenance Expenses for existing generating stations in Business Plan Regulations, 2019 as follows:
  - **"6. 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 Generating Entity shall be as follows:
  - (a) Normative Operation and Maintenance expenses for existing generating stations shall be as follows:

Table 2: O&M Expenses (Rs. Lakh/ MW)

Station	2020-21	2021-22	2022-23
GTPS	29.45	30.58	<i>31.7</i> 5
PPS-I	23.02	23.90	24.82

....

- (2) Additional Repair & Maintenance expenses on account of Dry Low NOx (DLN) burners and Sewage Treatment Plant (STP), if any, shall be allowed on actual basis during the Control Period after prudence check at the time of True Up on submission of documentary evidence
- (3) The impact of difference of amount on account of actual implementation of Seventh Pay Revision and Interim Relief already considered for determination of norms for O&M Expenses, if any, shall be allowed separately in line with the methodology adopted for computation of norms for O&M Expenses, at the time of True up of ARR for relevant Financial year subject to prudence check."
- 4.32 Accordingly, the Commission approves the O&M Expenses for PPS-I for FY 2020-21 as follows:



Sr. **Particulars UoM** FY 2020-21 No. Petitioner's **Approved** Ref. **Submission** Α Base O&M Expenses Rs Cr 75.97 75.97 **Business Plan** Regulations, В **Additional Expenses** Rs Cr 2019 C **Total O&M Expenses** Rs Cr 75.97 75.97 A+B

Table 4. 10: O&M Expenses approved by the Commission

4.33 Impact of any statutory Pay revision on employee's cost and any amount incurred on account of DLN and STP as additional R&M shall be considered separately, based on actual payment made by the Petitioner and prudence check at the time of true up as specified in the Business plan Regulations, 2019.

## **CAPITAL EXPENDITURE**

#### PETITIONER'S SUBMISSION

4.34 The capitalization plan submitted by the Petitioner during FY 2020-21 is as follows:

Table 4. 11: Capital Expenditure submitted by the Petitioner

Sr. No.	Particulars	UoM	FY 2020-21
1	Opening GFA	Rs Cr	1050.38
2	Addition	Rs Cr	2.82
3	Deletion	Rs Cr	0.00
4	Closing GFA	Rs Cr	1053.20
5	Average GFA	Rs Cr	1051.79

# **COMMISSION ANALYSIS**

- 4.35 The Petitioner has projected the capital expenditure for FY 2020-21 of Rs. 2.82 Crore as per Regulation 7(1) of the Business Plan Regulations, 2019. The Commission has approved the closing GFA for FY 2018-19 as Rs. 1048.50 Crore. The Commission has not considered any capitalization for FY 2019-20 in its Tariff Order for FY 2019-20.
- 4.36 Accordingly, the GFA approved by the Commission for FY 2020-21 is as follows:

Table 4. 12: Capital Expenditure approved by the Commission

Sr. No.	Particulars	UoM	FY 2020-21		Ref.
			Petitioner	Commission	
			Submission	Approved	
Α	Opening GFA	Rs Cr	1050.38	1048.50	Table 3.20
В	Addition	Rs Cr	2.82	2.82	Business



Sr. No.	Particulars	UoM	FY 2020-21		Ref.
			Petitioner	Commission	
			Submission	Approved	
					Plan
					Regulations,
					2019
С	Deletion	Rs Cr	0.00	0.00	
D	Closing GFA	Rs Cr	1053.20	1051.32	A+B-C
E	Average GFA	Rs Cr	1051.79	1049.91	

# **DEPRECIATION**

# **PETITIONER'S SUBMISSION**

- 4.37 The Petitioner has submitted that since cumulative depreciation has reached 70% of the total depreciation, the Petitioner has spread the remaining depreciable value over the remaining life of the asset, in accordance with the DERC Tariff Regulation, 2017. The total accumulated depreciation allowed by the Commission till FY 2019-20 is Rs 836.28 Cr.
- 4.38 Accordingly, the Petitioner has requested to approve the depreciation for FY 2020-21 as follows:

Table 4. 13: Depreciation submitted by the Petitioner

	Sr. No.	Particulars (Rs Crores)	UoM	FY 2020-21
Ī	1	Depreciation	Rs Cr	13.79

# **COMMISSION ANALYSIS**

- 4.39 The Commission has specified provisions pertaining to Depreciation in Regulation 78 to83 of the Tariff Regulations, 2017 and relevant extracts are as follows:
  - "78.Annual Depreciation shall be computed based on Straight Line Method for each class of asset as specified in Appendix-1 of these Regulations.
  - 79. The base value for the purpose of depreciation shall be the capital cost of the asset approved by the Commission. Depreciation shall be chargeable from the first



year of commercial operation and in case of commercial operation of the asset for part of the year, depreciation shall be charged on pro rata basis.

80. The salvage value of the asset shall be considered as 10% and depreciation shall be allowed up to maximum of 90% of the capital cost of the asset:

Provided that any depreciation disallowed on account of lower availability of the generating station or generating unit or transmission system as the case may be, shall not be allowed to be recovered at a later stage during the useful life and the extended life.

- 81. Land other than the land held under lease shall not be a depreciable asset and its cost shall be excluded from the capital cost while computing depreciable value of the asset.
- 82. In case of existing assets, the balance depreciable value as on 1st April of any financial year shall be worked out by deducting the cumulative depreciation as admitted by the Commission up to 31st March of the preceding financial year from the gross depreciable value of the assets.
- 83. The Depreciation for Life extension projects/scheme shall be allowed in the manner as indicated in Regulation 51 of these Regulations."
- 4.40 It is observed that the cumulative depreciation has reached 70% of the total depreciation, therefore the Commission has spread the remaining depreciable value over the remaining life of the asset.
- 4.41 Further, it is observed that PPS-I Station got commissioned in FY 2002-03 and shall complete its useful life by FY 2027-28. For determination of remaining depreciable value during the useful life of the plant, the Commission has considered the capital additions of Rs. 2.82 Crore proposed during FY 2020-21.
- 4.42 Accordingly, the Commission has approved the depreciation for FY 2020-21 as follows:

Table 4. 14: Depreciation approved by the Commission



Sr. No.	Particulars	UoM	Petitioner's Submission	Approved	Ref.
Α	Average GFA	Rs Cr	1051.79	1049.91	Table 4.12
В	Opening Accumulated Depreciation	Rs Cr	836.28	836.28	
С	Balance Depreciation	Rs Cr	110.33	108.64	(90%xA)-B
D	Balance Useful life	Years	8	8	
Е	Depreciation	Rs Cr	13.79	13.58	C/D

## **MEANS OF FINANCING**

# **PETITIONER'S SUBMISSION**

- 4.43 The Petitioner has submitted that since accumulated depreciation has reached over and above 70% of Gross Fixed Asset, the remaining value is treated as 100% equity.
- 4.44 The Petitioner has submitted that the requirement of loan and equity as follows:

Table 4. 15: Requirement of Loan & Equity submitted by the Petitioner

Sr. No.	Particulars	UoM	FY 2020-21
Α	Average Net Fixed Asset	Rs Cr	208.61
В	Average Equity	Rs Cr	208.61
С	Average CAPEX Loan	Rs Cr	0.00
D	Working Capital Loan	Rs Cr	412.47
E	Total Loan Requirement	Rs Cr	412.47
F	Average RRB	Rs Cr	621.08

# **COMMISSION ANALYSIS**

- 4.45 Regulation 63 of the Tariff Regulations, 2017 deals with financing of the capital cost in Debt Equity ratio to be allowed for existing project or scheme and the relevant extract is as follows:
  - "63. For determination of Tariff, the debt-equity ratio for any project or scheme under commercial operation shall be considered as 70:30:

# Provided that:

- (i) Where equity actually deployed is less than 30% of the capital cost, actual equity shall be considered for determination of tariff;
- (ii) Where equity actually deployed is more than 30% of the capital cost, equity in excess of 30% shall be treated as notional loan;



- (iii) The equity invested in foreign currency shall be designated in Indian rupees on the date of each investment;
- (iv) Any grant/contribution/deposit obtained for the execution of the project/scheme shall not be considered as a part of capital structure for the purpose of debt: equity ratio."
- 4.46 Accordingly, the Commission has computed the quantum of Loan and Equity required for funding of Net Fixed Assets for FY 2020-21 as follows:

Table 4. 16: Requirement of Loan and Equity computed by the Commission

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Sr.			FY 202	0-21	
No.	Particulars	UoM	Petitioner Submission	Approved	Ref.
Α	Average GFA	Rs Cr	1051.79	1049.91	Table 4.12
В	Opening Accumulated Depreciation	Rs Cr	836.28	836.28	
С	Balance Depreciation	Rs Cr	110.33	108.64	90% of A-B
D	Current Year Depreciation	Rs Cr	13.79	13.58	Table 4.12
Е	Closing Accumulated Depreciation	Rs Cr	850.07	849.86	B+D
F	Average Accumulated Depreciation	Rs Cr	843.18	843.07	(B+E)/2
G	Average NFA	Rs Cr	208.61	206.84	(A-F)
Н	Average Equity	Rs Cr	208.61	62.05	30% of G
ı	Average Capex Loan	Rs Cr	0.00	144.79	70% of G

# **WORKING CAPITAL**

# **PETITIONER'S SUBMISSION**

- 4.47 The Petitioner has submitted that it has calculated the Interest on Working Capital as per DERC Tariff Regulations, 2017.
- 4.48 Accordingly, the Petitioner has submitted the requirement of Working Capital as follows:

Table 4. 17: Requirement of Working Capital as submitted by the Petitioner

Sr. No.	Particulars	UoM	FY 2020-21
Α	Fuel expenses for 1 month	Rs Cr	118.62
В	Maintenance spares @ 30% of O&M	Rs Cr	22.79
С	Liquid fuel stock for ½ month	Rs Cr	0
D	O&M expenses for 1 month	Rs Cr	6.33
E	Annual Fixed Cost for the year	Rs Cr	165.01



Sr. No.	Particulars	UoM	FY 2020-21
F	Fuel cost for the year	Rs Cr	1423.38
G	Receivables equivalent to 2 months of capacity and energy charges	Rs Cr	264.73
Н	Total Working Capital	Rs Cr	412.47

## **COMMISSION ANALYSIS**

- 4.49 Regulation 84 of the Tariff Regulations, 2017 deals with computation of Working Capital requirement as follows:
  - "84. The Commission shall calculate the Working Capital requirement for:
  - (2) Open-cycle Gas Turbine/Combined Cycle thermal generating stations as follows:

Fuel Cost for 30 days corresponding to the Normative Annual Plant Availability
Factor, duly taking into account mode of operation of the generating station on
gas fuel and liquid fuel;

Liquid fuel stock for 15 days corresponding to the normative annual plant availability factor, and in case of use of more than one liquid fuel, cost of main liquid fuel duly taking into account mode of operation of the generating stations of gas fuel and liquid fuel;

Maintenance spares @ 30% of Operation and Maintenance expenses specified in this Regulation;

Receivables equivalent to two months of capacity charge and energy charge for sale of electricity calculated on normative plant availability factor, duly taking into account mode of operation of the generating station on gas fuel and liquid fuel; and

Operation and maintenance expenses for one month."

4.50 Accordingly, Working Capital requirement for FY 2020-21 has been computed as follows:

Table 4. 18: Working Capital Requirement approved by the Commission



Sr.	Particulars	UoM	FY 2020-21		Ref.
No.			Petitioner	Approved	
			Submission		
Α	Fuel expenses for 1 month	Rs Cr	118.62	64.84	Tariff
В	Maintenance spares @ 30% of O&M	Rs Cr	22.79	22.79	Regulations,
С	O&M expenses for 1 month	Rs Cr	6.33	6.33	2017 and
D	Annual Fixed Cost for the year	Rs Cr	165.01	130.95	Business
Е	Fuel Cost for the year	Rs Cr	1423.88	778.09	Plan Regulations, 2019
F	Receivables equivalent to 2 months of capacity and energy charge	Rs Cr	264.73	151.51	(D+E)/6
G	Total Working Capital	Rs Cr	412.47	245.47	A+B+C+F

# WEIGHTED AVERAGE COST OF CAPITAL (WACC) AND RETURN ON CAPITAL EMPLOYED (ROCE) PETITIONER'S SUBMISSION

- 4.51 The Petitioner has considered the base rate of return on equity at 14% and the same has been grossed up with rate of income tax at 22.15%. Accordingly grossed up ROE is 17.98%.
- 4.52 Further, the Petitioner has submitted that there is no outstanding capital loan as on date, therefore in order to calculate the return on capital employed Petitioner has taken weighted average interest rate on outstanding working capital loan, which is 9.15%. This rate of interest is within prescribed limit of this regulation i.e. inclusive of SBI MCLR of 7.90% as on 10.12.2019 notified by State Bank of India plus margin of 1.25% taken as the difference of the weighted average rate of interest on working capital loan portfolio and SBI MCLR as on 10.12.2019 for FY 20-21.
- 4.53 Accordingly, Petitioner has computed Weighted Average Cost of Capital (WACC) and Return on Capital Employed (RoCE) as follows:

Table 4. 19: WACC and RoCE submitted by the Petitioner

Sr. No.	Particulars	UoM	FY 2020-21
Α	Average RRB	Rs Cr	621.08
В	Total Loan	Rs Cr	412.47
С	Average Equity	Rs Cr	208.61
D	Cost of Debt, Rd	%	9.15%
Е	Return on Equity, Re	%	17.98
F	WACC	%	12.12



Sr. No.	Particulars Particulars	UoM	FY 2020-21
G	RoCE	%	75.26

## **COMMISSION ANALYSIS**

4.54 Regulation 3 and 4 of Business Plan Regulations, 2019 deal with Return on Equity (RoE) and Tax on Return on Equity as follows:

# "3. RATE OF RETURN ON EQUITY

Return on Equity in terms of Regulation 4(1) of the DERC (Terms and Conditions for Determination of Tariff) Regulations, 2017 for Generating Entity shall be computed at the Base Rate of 14.00% on post tax basis.

# 4. TAX ON RETURN ON EQUITY

The base rate of Return on Equity as allowed by the Commission under
Regulation 3, shall be grossed up with the Minimum Alternate Tax or Effective
Tax Rate of the respective financial year in terms of Regulation 72 and 73 of the
DERC (Terms and Conditions for Determination of Tariff) Regulations, 2017, as
per the following formula:

Rate of Return on Equity= 14/[(100-Tax Rate)/100]

where, Tax Rate is Minimum Alternate Tax (MAT) or Effective Tax Rate, as the case may be."

- 4.55 In view of the above, the Commission has considered the base rate of return on equity at 14% and the same has been grossed up with rate of income tax at 22.15%. Accordingly grossed up rate of return on equity has been computed at 17.98% for FY 2020-21.
- 4.56 Regulation 77 of Tariff Regulations, 2017 deal with interest on Loan as follows:
  - "77. The rate of interest on loan shall be based on weighted average rate of interest for actual loan portfolio subject to the maximum of bank rate as on 1st April of the year plus the margin as approved by the Commission in the Business Plan Regulations for a Control Period:



Provided that in no case the rate of interest on loan shall exceed approved rate of return on equity:

Provided further that if there is no actual loan for a particular year but normative loan is still outstanding, the last available weighted average rate of interest shall be considered:

Provided also that if the Utility does not have actual loan then the rate of interest shall be considered at the bank rate plus margin, as specified by the Commission in the Business Plan Regulations, for the notional loan of the relevant control period:

Provided also that the loan availed through open tendering process (Competitive Bidding) among Scheduled Banks, Financial Institutions etc., shall be considered at the rate discovered through open tendering process."

4.57 Regulation 85 and 86 of Tariff Regulations, 2017 deal with Interest on Working Capital and relevant extract is as follows:

"85. Rate of Interest On Working Capital shall be considered as the bank rate as on 1st April of the year plus margin as specified by the Commission for the Control Period and shall be trued up on the basis of prevailing bank rate as on 1st April of the respective financial year:

Provided that the rate of interest availed through open tendering process (Competitive Bidding) among Scheduled Banks, Financial Institutions etc., shall not be trued up.

86. Interest on working capital shall be payable on normative basis notwithstanding that the Utility has availed any loan for the working capital."

4.58 The Commission has specified Margin for Rate of Interest on loan in Business Plan Regulations, 2019 as follows:

"5. MARGIN FOR RATE OF INTEREST ON LOAN

The rate of interest on loan for a financial year shall be Marginal Cost of Fund based Lending Rate (MCLR) of SBI as on 1<sup>st</sup> April of that financial year plus the



Margin. The Margin, in terms of Regulation 4(2) of the DERC (Terms and Conditions for Determination of Tariff) Regulations, 2017 for the Generating Entity, is allowed as the difference between the weighted average rate of interest on actual loan portfolio and the MCLR as on 1<sup>st</sup> April of that financial year:

Provided that the Margin shall not exceed 5.00%, 4.25% and 3.50% for the first, second and third year of the control period, respectively:

Provided further that the rate of interest on loan (MCLR plus Margin) in any case shall not exceed approved base rate of return on equity i.e. 14.00%.

- 4.59 In view of the above, as the Petitioner does not have any outstanding loan, the Commission has provisionally considered the rate of interest on loan by considering the Bank Rate as Marginal Cost of Fund based Lending Rate (MCLR) of SBI as on 01/04/2020 i.e. 7.75% for FY 2020-21 subject to true-up.
- 4.60 Further, the Commission has specified the methodology for allowing Return on Capital Employed in Tariff Regulations, 2017 as follows:
  - "65. Return on Capital Employed shall be used to provide a return to the Utility, and shall cover all financing costs except expenses for availing the loans, without providing separate allowances for interest on loans and interest on working capital.
  - 66. The Regulated Rate Base (RRB) shall be used to calculate the total capital employed which shall include the Original Cost of Fixed Assets (OCFA) and Working Capital. Capital work in progress (CWIP) shall not form part of the RRB. Accumulated Depreciation, Consumer Contribution, Capital Subsidies / Grants shall be deducted in arriving at the RRB.
  - 67. The RRB shall be determined for each year of the Control Period at the beginning of the Control Period based on the approved capital investment plan with corresponding capitalisation schedule and normative working capital.
  - 68. The Regulated Rate Base for the ith year of the Control Period shall be computed in the following manner:



RRBi = RRB i-1 +  $\triangle$ ABi /2 +  $\triangle$ WCi;

Where,

"i" is the i<sup>th</sup> year of the Control Period;

RRBi: Average Regulated Rate Base for the i<sup>th</sup> year of the Control Period;

 $\Delta$ WCi: Change in working capital requirement in the  $i^{th}$ year of the Control Period from (i-1)<sup>th</sup> year;

ΔABi: Change in the Capital Investment in the ith year of the Control Period;

This component shall be arrived as follows:

 $\Delta ABi = Invi - Di - CCi - Ret_i;$ 

Where,

Invi: Investments projected to be capitalised during the i<sup>th</sup> year of the Control Period and approved;

Di: Amount set aside or written off on account of Depreciation of fixed assets for the i<sup>th</sup> year of the Control Period;

CCi: Consumer Contributions, capital subsidy / grant pertaining to the  $\triangle ABi$  and capital grants/subsidies received during ith year of the Control Period for construction of service lines or creation of fixed assets;

Ret<sub>i</sub>: Amount of fixed asset on account of Retirement/ Decapitalisation during i<sup>th</sup> Year;

RRB i-1: Closing Regulated Rate Base for the Financial Year preceeding the i<sup>th</sup> year of the Control period. For the first year of

the Control Period, Closing RRB i-1 shall be the Opening Regulated Rate Base for the Base Year i.e. RRBO;

$$RRBO = OCFAO - ADO - CCO + WCO;$$

Where;

OCFAO: Original Cost of Fixed Assets at the end of the Base Year;

ADO: Amounts written off or set aside on account of depreciation of fixed assets pertaining to the regulated business at the end of the Base Year;

CCO: Total contributions pertaining to the OCFAo, made by the consumers, capital subsidy / grants towards the cost of construction of distribution/service lines by the Distribution Licensee and also includes the capital grants/subsidies received for this purpose;

WCO: working capital requirement in the (i-1)<sup>th</sup> year of the Control Period.

69. Return on Capital Employed (RoCE) for the year "i" shall be computed in the following manner:

Where,

WACCi is the Weighted Average Cost of Capital for each year of the Control Period;

RRBi – Average Regulated Rate Base for the ith year of the Control Period.

70. The WACC for each year of the Control Period shall be computed at the start of the Control Period in the following manner:



$$WACC = \left[\frac{D}{D+E}\right] * r_d + \left[\frac{E}{D+E}\right] * r_e$$

Where,

D is the amount of Debt derived as per these Regulations;

E is the amount of Equity derived as per these Regulations;

Where equity employed is in excess of 30% of the capital employed, the amount of equity for the purpose of tariff shall be limited to 30% and the balance amount shall be considered as notional loan. The amount of equity in excess of 30% treated as notional loan. The interest rate on excess equity shall be the weighted average rate of interest on the actual loans of the Licensee for the respective years. Where actual equity employed is less than 30%, the actual equity and debt shall be considered;

Provided that the Working capital shall be considered 100% debt financed for the calculation of WACC;

rd is the Cost of Debt;

re is the Return on Equity."

4.61 In view of the above, the Commission has computed Return on Capital Employed (RoCE) as follows:

Table 4. 20: WACC and RoCE approved by the Commission

Sr. No.	Particulars	UoM	FY 2020-21	
			Petitioner Commission	
			Submission	Approved
Α	Average Net Fixed Asset	Rs Cr	208.61	206.84
В	Average Equity	Rs Cr	208.61	62.05
С	Average CAPEX Loan	Rs Cr	1	144.79
D	Working Capital Loan	Rs Cr	412.47	245.47
Е	Average Loan Requirement	Rs Cr	412.47	390.26
F	Average RRB	Rs Cr	621.47	452.31
G	Grossed up Rate of Return on Equity	%	17.98	17.98
Н	Rate of Interest on Loan	%	9.15	7.75



Sr. No.	Particulars	UoM	FY 2020-21		
			Petitioner Submission	Commission Approved	
I	Weighted Average Cost of Capital (WACC)	%	12.12	9.15	
J	RoCE	Rs Cr	75.26	41.40	

#### **NON-TARIFF INCOME**

#### **COMMISSION'S ANALYSIS**

- 4.62 Para 94 of the Tariff Regulations, 2017 specifies the following about Non-Tariff Income (NTI):
  - "94. The Utility shall submit forecast of Non-Tariff Income to the Commission, in such form as may be stipulated by the Commission from time to time, whose tentative list is as follows:
    - (i) Income from rent of land or buildings;
    - (ii) Net Income from sale of de-capitalised assets;
    - (iii) Net Income from sale of scrap;
    - (iv) Income from statutory investments;
    - (v) Net Interest on delayed or deferred payment on bills;
    - (vi) Interest on advances to suppliers/contractors;
    - (vii) Rental from staff quarters;
    - (viii) Rental from contractors;
    - (ix) Income from Investment of consumer security deposit;
    - (x) Income from hire charges from contactors and others, etc.
  - 95. The Non Tariff Income shall be reduced from ARR."
- 4.63 The Petitioner has not projected NTI in its Tariff Petition. Accordingly, the NTI shall be considered at the time of true-up of FY 2020-21.

## **SUMMARY OF FIXED COST**

## PETITIONER'S SUBMISSION

4.64 Annual Fixed Cost for FY 2020-21 as submitted by the Petitioner is as follows:

Table 4. 21: Total Fixed Cost submitted by the Petitioner

Sr. No.	Particulars	UoM	FY 2020-21
1	Return on Capital Employed	Rs Cr	75.26



Sr. No.	Particulars	UoM	FY 2020-21
2	Depreciation	Rs Cr	13.79
3	Operation and Maintenance Expenses	Rs Cr	75.97
4	Annual Fixed Cost	Rs Cr	165.01
5	Net Generation	MU	2389.61
6	Fixed Cost Per Unit	Rs/ kWh	0.69

# **COMMISSION ANALYSIS**

- 4.65 Regulation 99 of Tariff Regulations, 2017 provides components to be considered for computation of Annual Fixed Cost for a Generating Entity and relevant extract is as follows:
  - "99. The annual fixed cost (AFC) of a Generating Entity shall consist of the following components as specified in these Regulations:

Return on Capital Employed;

Depreciation; and

Operation and Maintenance expenses."

4.66 Accordingly, the Commission approves the Annual Fixed Cost for FY 2020-21 by considering the various components are as follows:

Table 4. 22: Annual Fixed Cost approved by the Commission

Sr.	Particulars	UoM	FY 202	Ref.	
No.			Petitioner	Commission	
			Submission	Approved	
Α	Return on Capital Employed	Rs Cr	75.26	41.40	Table No.
^		No Ci	75.20	71.70	4.20
В	Depreciation	Rs Cr	13.79	13.58	Table No.
		INS CI	13.75	13.36	4.14
С	Operation and Maintenance	Rs Cr	75.97	75.97	Table No.
	Expenses	NS CI	75.97	75.97	4.10
D	Annual Fixed Cost	Rs Cr	165.01	130.95	A+B+C
Е	Net Generation	MU	2389.61	2389.61	Table 4.5
F	Fixed Cost per unit	Rs./kWh	0.691	0.548	F=(D/E)*10



## A5: DIRECTIVES ISSUED BY THE COMMISSION

- The Commission directs the Petitioner to ensure that the fuel supply agreement does not contain the "Minimum Off-Take Guarantee" clause linked with "Take or Pay" obligation, so as to optimize the cost of generation. Any cost incurred on account of such clause shall not be allowed to be billed to the beneficiaries and the liability on this count shall be solely to the account of the Petitioner. The Petitioner shall be allowed to recover only the actual cost of fuel (including fuel price adjustment/Power Purchase Cost Adjustments, if any but excluding cost on account of "Minimum Off- Take Guarantee" / "Take or Pay" obligation) from the respective beneficiaries.
- 5.2 The Commission directs the Petitioner to ensure that the fuel procured should be strictly utilized only for the purpose of power generation, failing which the associated cost would be disallowed in full.
- The Commission directs the Petitioner to furnish information related to Energy Charge Rate as per Form-21 of Tariff Regulations, 2017 along with monthly invoice to the beneficiaries. Source wise fuel details are to be provided in the said form and the same is to be uploaded on Petitioner's website on monthly basis.
- 5.4 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 and file a compliance report to the Commission within a period of 3 months.



Annexure - I



## DELHI ELECTRICITY REGULATORY COMMISSION

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

E11(1753]/DERC/2019-20/

#### Petition No. 05/2020

In the matter of: Petition for truing up of ARR for FY 2018-19.

Progati Power Corporation Ltd.
Through Its: Director (Tech.)
Himadri, Rajghat Power House Complex
New Delhi 110 002

Coram:

Hon'ble Mr. Justice S S Chauhan, Chairperson Hon'ble Sh. A.K. Singhal, Member Hon'ble Dr. A. K.Ambasht, Member

#### Appearance:

1. Sh. Satya Parkash, PPCL

# INTERIM ORDER

(Date of Hearing: 23.01.2020) (Date of Order: 24.01.2020)

- The Instant Petition has been filed by M/s. Pragati Power Corporation Ltd. (PPCL) for Truing-up of its ARR for FY 2018-19.
- The Petition has been scrutinised and found generally in order as per the DERC Comprehensive (Conduct of Business) Regulations, 2001.
- The Petition is admitted. The Petitioner shall furnish clarifications/ additional information, if and when required by the Commission.

(A.K. Ambasht) Member (A.K. Singhal) Member

(Justice § § Chauhan) 'Chairperson

... Petitioner/Licensee

## Annexure - I(a)



# DELHI ELECTRICITY REGULATORY COMMISSION

Viniyamak Shawan, "C. Black, Stivalk, Makriya Nagar, New Delhi- 110017.

KILLIPSEVERSCHEID

Petition No. 05/2020

In the matter of: Tariff Petition for determination of fariff for FY 2020-21 and frue Up of ARR for FY 2018-19.

Pragati Power Carporation Ltd. Tryough its: Director (Tech.) Himoali, Rajghat Power House Complex New Delhi, 170,002

Corpet

Han'ble Mr. Justice 5 5 Chavhan, Chairperson

Han'ble St. A.K. Singhal, Member Han'ble Dr. A. K.Ambashi, Member

Арреогансе:

1. Sh: R.K. Yaday, PPCL

# INTERIM ORDER

(Date obbjearing: 19.02.2020) (Date of Critis: 26,02.2020)

- The representatives of the Perform MA. Progoti Fower Cosporation 11d. (PPCL)
  states that the instant Person Sed for determination of farth for PY 2020-21 may
  be taken as additional submission obscheduly admitted Petition for Truing-up of its
  ARR for PY 2018-19.
- The request of the Fetheruna allowed and accordingly, the polition for fariff for FY 2020-21 is taken or record as an adaltonal submission in free Up Fethor for FF 2018-19. The Fetherer shot bright distributions/ adaltonal information, if and when required by the Commission.

(A.K. Ambasht) Member

Member

(Justice 5.5 Chauhan) Chaliperson

Petitioner/Ligarues

Annexure - II

# LIST OF RESPONSES RECEIVED FROM STAKEHOLDERS ON TRUE UP OF FY 2018-19 AND ARR FOR FY 2020-21

Sr.	R.	Name	Address	Category	Company/	Date of
No.	No.				Licensee	Receipt
1.	1	Sh. Rajesh	Shahdara Residents Welfare Association	RWA	DISCOMs	11.03.2020
		Aggarwal	348, fresh Bazar, Shahdara,			
		Gen. Secretary	Delhi 110 032			
2.	2	Dayaram Devedi	262, Katra Pyare Lal Chandni Chowk,	Association	DISCOMs	11.03.2020
_	2	Vice President	Delhi 110 006	A: - +:	DICCOM	12.02.2020
3.	3	Sh. V.K. Malhotra	DVB Engineers' Association	Association	DISCOMs	12.03.2020
		General Secretary	D-3, Vikas Puri, New Delhi 110 018			
			New Dellii 110 016			
	3A	Sh. V.K. Malhotra	DVB Engineers' Association	Association	PPCL	16.03.2020
	5, (	General Secretary	D-3, Vikas Puri,	7.0500.000.000		10.03.2020
		,	New Delhi 110 018			
4.	4	Sh. Harbans	287, Kucha Ghasi Ram	Association	DISCOMs	12.03.2020
		Sharma	Fatehpuri			
			Chandni Chowk			
			Delhi 110 006			
5.	5	Sh. Shiv Sharma	D-8/155 Brij Puri,	RWA	DISCOMs	13.03.2020
			Delhi 110 094			
6.	6	Sh. Balkishan Gupta	1449/22, Gali No. 9, Durgapuri,	RWA	DISCOMs	12.03.2020
		President	Shahdara,			
	_		Delhi 110 093			
7.	7	Sh. Ranjeet Singh	527 B, School Block,	NGO	DISCOMs	12.03.2020
		Luheera	Shakarpur,			
0	0	President	Delhi 110 092	DVA/A	DICCOMC	12.02.2020
8.	8	Sh. Jai Pal Singh Verma	S-305, School Block,	RWA	DISCOMS	12.03.2020
		President	Shakarpur, Delhi 110 092			
9.	9	Sh. D.K. Bhandari	Awasiya Kalyan Samiti (Regd.)	NGO	DISCOMs	12.03.2020
٦.	3	President	Pocket J & K ,	1100	DISCOIVIS	12.03.2020
		rresident	Dilshad Garden,			
			Delhi 110 095			
10.	10	Sh. Rajbir Singh	Glat No. 8, 2 <sup>nd</sup> Floor,	Domestic	DISCOMs	13.03.2020
			Rama Apartment,			
			C-54, Panchsheel Vihar,			
			Malviya Nagar,			
			New Delhi 110 017			
			Rsjayanth01@gmail.com			
11.	11	Sh. S.B. Kuchhal	Kothi No. 1, Road No. 33	Commercial	DISCOMs	16.03.2020
		Legal Advisor	East Punjabi Bagh			
4.5	4.5		New Delhi 110 026	D.V.:	DISCO::	46.00.000
12.	12	Ms. Renu Pal	Resident Welfare Association (Regd.)	RWA	DISCOMs	16.03.2020



# **TARIFF ORDER FY 2020-21**

Sr.	R.	Name	Address	Category	Company/	Date of
No.	No.				Licensee	Receipt
		President	Pocket B-3, Mayur Vihar Phase-III, Delhi 110 096			
13.	13	Sh. S.R. Abrol	L-2, 91B, DDA, LIG, Kalkaji New Delhi	Domestic	DISCOMs	16.03.2020
14.	14	Sh. Bhopal Singh President	Resident Welfare Association, H-16/830, Bapa Nagar, Payare Lal Marg, Karol Bagh, New Delhi 110 005 jatavbhopalsingh@gmail.com	RWA	DISCOMs	16.03.2020
15.	15	Sh. Rohit Arora President	Gyan Park Welfare Society 17A, Gyan Park, Chander Nagar, Kishna Nagar, Delhi 110 051	RWA	DISCOMs	16.03.2020
16.	16	Sh. Deepak Tuli	Prasad nagar, Karol Bagh, New Delhi 110 005	RWA	DISCOMs	16.03.2020
17.	17	Sh. Kuldeep Kumar General Secretary	Delhi State Electrictiy Workers Union(DSEWU) 7/6, Yamuna Vihar, Delhi 110 053 kuldeepsewunion@gmail.com	Association	DISCOMs	17.03.2020
	17A	Sh. Kuldeep Kumar General Secretary	Delhi State Electrictiy Workers Union(DSEWU) 7/6, Yamuna Vihar, Delhi 110 053 kuldeepsewunion@gmail.com	Association	PPCL	19.03.2020
18.	18	Sh. S.K. Sharma General Manager (C&RA)	Delhi Transco Limited Shakti Sadan, Kotla Road, New Delhi 110 002	Govt.	BRPL	18.03.2020
	18A	Sh. S.K. Sharma General Manager (C&RA)	Delhi Transco Limited Shakti Sadan, Kotla Road, New Delhi 110 002	Govt.	BYPL	18.03.2020
	18B	Sh. S.K. Sharma General Manager (C&RA)	Delhi Transco Limited Shakti Sadan, Kotla Road, New Delhi 110 002	Govt.	TPDDL	18.03.2020
	18C	Sh. S.K. Sharma General Manager (C&RA)	Delhi Transco Limited Shakti Sadan, Kotla Road, New Delhi 110 002	Govt.	NDMC	18.03.2020



Sr. No.	R. No.	Name	Address	Category	Company/ Licensee	Date of
INO.	INO.				Literisee	Receipt
	18D	Sh. S.K. Sharma General Manager (C&RA)	Delhi Transco Limited Shakti Sadan, Kotla Road, New Delhi 110 002	Govt.	BRPL	29.06.2020
	18E	Sh. S.K. Sharma General Manager (C&RA)	Delhi Transco Limited Shakti Sadan, Kotla Road, New Delhi 110 002	Govt.	BYPL	29.06.2020
	18F	Sh. S.K. Sharma General Manager (C&RA)	Delhi Transco Limited Shakti Sadan, Kotla Road, New Delhi 110 002	Govt.	TPDDL	29.06.2020
	18G	Sh. S.K. Sharma General Manager (C&RA)	Delhi Transco Limited Shakti Sadan, Kotla Road, New Delhi 110 002	Govt.	NDMC	29.06.2020
19.	19	Sh. A.K. Rampal	F-26/114, Sector, 7, Rohini, Delhi 110 005 anuprampal@gmail.com	Domestic	IPGCL and PPCL	17.03.2020
	19A		anaprampare gman.com		DISCOMs	19.06.2020
20	20	Sh. Mohinder Pal	pal458395@gmail.com	Domestic	DISCOMs	18.03.2020
21	21	Sh. Saurabh Gandhi Gen. Secretary	United Residents of Delhi C-6/7 Rana Pratap Bagh, Delhi 110 007	RWA	DISCOMs	16.03.2020
22	22	Sh. Kuwar Pratap Singh Secretary	Bhajanpura Jan Sahiyog, (regd.) D-408, Street No. 9, D, Bhajanpura, Delhi 110 053	Domestic	DISCOMs	11.03.2020
23	23	Sh. B.S. Sachdev President Sh. B.S. Sachdev	Elederly Peoples Forum Varishth Nagrik Manoranjan Kendra, Ist Floor, C-4 Block, Keshav Puram, Delhi 110 035	RWA	DISCOMs	20.03.2020
	23A	President				20.03.2020
24	24	Sh. Ishwar Dutt	B-120, Vijay Park, Maujpur, New Delhi 110 053	Domestic	DISCOMs	20.03.2020
25.	25	Sh. Satish Das	H.No. 90, Panna Mojan, Bawana, New Delhi 110 039	Domestic	TPDDL	20.03.2020
26	26	Er. CV Vishwanathan	99, Arjun Apartments Sector 13, Dwarka Delhi 110 075	Domestic	DISCOMs	20.03.2020



Sr.	R.	Name	Address	Category	Company/	Date of
No.	No.				Licensee	Receipt
27	27	Sh. Virat Gandhi	Rang Rasayan Apartments 13, Rajapur, Pocket 7, Sector, 13, Rohini, Delhi 110 05	Domestic	TPDDL	20.03.2020
28	28	Sh. Vipin Gupta	A-17, Antriksh Apartments, New Town Co-op. Group Housing Society Ltd. Sector, 14-Ext. Rohini, Delhi 110085 Vipin.bfi@gmail.com	Domestic	DISCOMs	
29	29	Sh. A.K. Datta	222, Pocket E, Mayur Vihar, Phase-II Delhi 110 091	Domestic	BYPL	
30.	30	Sh. Saurabh Gandhi General Secretary	United Resident of Delhi  urdrwas@gmail.com	RWA	BYPL	22.06.2020
31	31	Sh. B.B. Tewari Social Intraprenuer	urdrwas@gmail.com	RWA	BYPL	22.06.2020
32	32	Sh. Ram Lal Tiwari	House No. 581, Main Narela Road, Alipur, Delhi 110 036	Domestic	DISCOMs	20.03.2020
33	33	Sh. Rakesh Chauhan	Chauhan.rakesh70111@gmail.com	Domestic	TPDDL	24.06.2020
34	34	Sh. Saurabh Srivastava Regulatory affairs	Indian Energy Exchange Limited Unit. 3,4,5 & 6 Fourth Floor, TDI Centre, Plot No. 7 Jasola District Centre, New Delhi 110 025 Saurabh.Srivastava@iexindia.com	Industrial/ Commercial	DISCOMs	26.05.2020
35.	35	Sh. Lalita Kumar	Lalitakumar69@dtu.ac.in	Domestic	DISCOMs	24.06.2020
36.	36	PK Enterprises	Pk.enterprises76@gmail.com	-	TPDDL	24.06.2020
37	37	Sh. Arvind Duhoon	Arvind.duhoon@gmail.com	Domestic	TPDDL	24.06.2020
38	38	Ms. Preeti Sarna	sarnapreety@gmail.com	Domestic	DISCOMs	25.06.2020
39.	39	Sh. Rajesh Sood, President Vijay Niketan, RWA	Resident of Welfare Association H-89, DDA LIG Flats, Naraina Vihar, New Delhi 110 028	RWA	DISCOMs	25.06.2020
40.	40.	Sh. Arvind K. Jain	SHRI SAI BABA CO-OPERATIVE GROUP HOUSING SOCIETY LTD. PLOT No. 4, SECTOR-9, ROHINI, DELHI- 110085	RWA	DISCOMs	25.06.2020
41.	41.	Sh. Sukh preet	sukhpreetsir@gmail.com	Domestic	DISCOMs	25.06.2020



Sr.	R.	Name	Address	Category	Company/	Date of
No.	No.				Licensee	Receipt
42.	42.	Ms. Maneela bhugra	Maneela.bhugra@gmail.com	Domestic	TPDDL	25.06.2020
43.	43.	Sh. Naresh Kumar	Maresh.mkuan@gmail.com	Domestic	DISCOMs	25.06.2020
44.	44.	Ms. Vandana Thakur	Vandana.thakur34@gmail.com	Domestic	DISCOMs DTL	25.06.2020
45.	45.	Sh. Rajan Gupta	Rajang2442@gmail.com	Domestic	TPDDL	25.06.2020
46.	46.	Ms. Shivangi	Shivangi.sh86@gmail.com	Domestic	TPDDL	26.06.2020
47.	47.	Sh. Rajeev	Bh.rajeev2012@gmail.com	Domestic	TPDDL	26.06.2020
48.	48.	Sh. Prabhat Pal	Prabhatpal187@gmail.com	Domestic	DISCOMs	26.06.2020
49.	49.	Sh. Anil Kumar Gupta, Secretary	NEW TOWN CO-OPERATIVE GROUP HOUSING SOCIETY LTD. Plot No. D-3, Sector: 14-Extn., ROHINI, Delhi 110085 newtowncghs@gmail.com	Domestic	DISCOMs	26.06.2020
50.	50.	Sh. Anurag	anuragbhel@gmail.com	Domestic	TPDDL	26.06.2020
51.	51.	Sh. Ankit Singh	Ankitsingh1092@gmail.com	Domestic	DISCOMs	26.06.2020
52.	52.	Sh. Rajender Bansal	Rajenderbansal47@gmail.com	Domestic	DISCOMs	26.06.2020
53.	53.	Dikansh94@gmail.c om	dikansh94@gmail.com	Domestic	DISCOMs	27.06.2020
54	54	Sh. Suresh Kumar Gupta Director	The Midland fruit and Vegetable products (India) Pvt. Ltd. Jumbo House, Dr. Jha Marg, O.I.A PH-3, New Delhi 110 020	Agricultural	DISCOMs	25.06.2020
55	55	Sh. Narendra Prakash Bhargava Proprietor	Jumbo International Jumbo House, Dr. Jha Marg, O.I.A PH-3, New Delhi 110 020	Agricultural	DISCOMs	25.06.2020
56	56	Ms. Neeta Gupta	A-17, Antriksh Apartments, New Town, CGHS Ltd. Sector 14-Extension, Rohini Delhi 110 085 Neetagupta.vg111@gmail.com	Domestic	DISCOMs	28.06.2020
57	57	Sh. Sandeep Sharma	Sandeep.sharmaji80@gmail.com	Domestic	TPDDL	29.06.2020
58	58	Sh. B.P. Agarwal Advocate	Bpagarwal57@gmail.com	Industrial/ Commercial	TPDDL	29.06.2020
59	59	Sh. A K Rampal	anuprampal@gmail.com	Domestic	IPGCL & PPCL	30.06.2020
60	60	Sh. Arindam.K. Das, Regulatory Affairs BRPL	BSES Rajdhani Power Limited Corp. Office- Nehru Place, Delhi-19	DISCOM	IPGCL & PPCL	30.06.2020



Sr.	R.	Name	Address	Category	Company/	Date of
No.	No.			,	Licensee	Receipt
61.	61	Sh. OP Singh, Addnl. G.M-HOD Regulatory TPDDL	Tata Power Delhi Distribution Limited Hudson Lines Kingsway Camp Delhi 110009	DISCOM	IPGCL	30.06.2020
62.	62	Sh. OP Singh, Addnl. G.M-HOD Regulatory TPDDL	Tata Power Delhi Distribution Limited Hudson Lines Kingsway Camp Delhi 110009	DISCOM	PPCL	30.06.2020
63.	63	Sh. OP Singh, Addnl. G.M-HOD Regulatory TPDDL	Tata Power Delhi Distribution Limited Hudson Lines Kingsway Camp Delhi 110009	DISCOM	DTL	30.06.2020
64.	64	Sh. Ashok Bhasin	North Delhi Residents Welfare Federation Ashok.bhasin2015@gmail.com	RWA	DISCOMS	30.06.2020
65.	65.	Ms. Monica Rathamani	Sterlite Power Transmission Ltd. F-1 Mira Corporate Suites, Ishwar Nagar, New Delhi – 110065 Monica.rathamani@sterlite.com	commercial	DTL	01.07.2020
66.	66	Ms. Somya Tripathi Asstt. Manager	Delhi Metro Rail Corporation Ltd. Metro Bhawan, Fire Brigade Lane, Barakhamba Road, New Delhi 110 001	Govt.	DISCOMs	01.07.2020
67	67	Sh. Ashok Kumar Gupta	H.No. D-8/13 KH. No. 37/14, Ground Floor, Rama Vihar Delhi	Domestic	DISCOMs	26.06.2020
68	68	Sh. Chander Singh	House No. 78-B Block K, Sharma Colony, Budh Vihar, Delhi 110 086	Domestic	DISCOMs	26.06.2020
69	69	Sh. Srikant Kumar	House No. 3245, Sarop Nagar, Tri Nagar, Delhi 110 035	Domestic	TPDDL	26.06.2020
70	70	Sh. Gopal Singh Badal	House No. A-2373, Gali No. 5 Rani Bagh, Delhi 110 034	Domestic	TPDDL	26.06.2020
71	71	Sh. Dharam Pal	Pal458395@gmail.com	Domestic	DISCOMs	23.06.2020
72	72	Sh. Dharam Pal	House No. 159, Ground Floor Block Naraina, Delhi 110 028	Domestic	TPDDL	26.06.2020
73	73	Sh. Raju Aggarwal (Head Regulatory	BSES Yamuna Power Limited Shakti Kiran Building, Karkardooma,	Licensee	IPGCL	03.07.2020



# **TARIFF ORDER FY 2020-21**

Sr.	R.	Name	Address	Category	Company/	Date of
No.	No.				Licensee	Receipt
	73A		Delhi 110 032		PPCL	03.07.2020
	73B				DTL	03.07.2020
74	74	Sh. M.K.Poddar Ececutive Engineer (Comml.)	New Delhi Municipal Council Room No. 103, First Floor, S.B.S. Place, Gole Market, New Delhi 110001	Licensee	DISCOMs	19.08.2019
75	75	Dr. Ashok Kumar	1064, Gandhi Ashram, Narela, Delhi 110040	Association	DISCOMs	04.03.2020
76	76	Dr. Anil Kumar Sharma	National Council for Teacher Education	GOVT.	DISCOMs	22.10.2019
77	77	Sh. Sanjay Vig (General Secretary)	D.S.I.D.C. S F S Entrepreneur Association (Regd.)	Association	DISCOMs	18.10.2019
78	78	Sh. Surender Gupta (General Secretary)	Mangolpuri Industrial Area (Phase-I&II) C.E.T.P. Society (Regd.)	Association	DISCOMs	18.10.2019

