



Pragati Power Corporation Limited

(An Undertaking of Govt. of NCT of Delhi)

Corporate Identity Number (CIN) -U74899DL2001SGC 109135

(Regd. Off: "Himadri", Rajghat Power House Complex, New Delhi-110002)

No. PPCL/Comml./F.12/105-

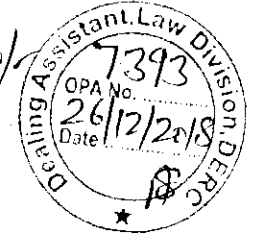
Dt. 24th December, 2018

The Secretary
Delhi Electricity Regulatory Commission,
Viniyamak Bhawan, C-Block,
Shivalik, Malviya Nagar,
NEW DELHI-110 017.

DDRs 100000/-

DD No. 849/508

E & L



Subject: Filing of Tariff Petition under section 62 of the Electricity Act, 2003 for determination of Tariff for the Financial Year 2019-20, and truing up for FY 2017-18 for PPS-I.

Sir/Madam,

May please find enclosed herewith the petition for determination of the Tariff for the Financial Year 2019-20, truing up for FY 2017-18 for PPS-I (six sets).

The fee of Rs. One Lakh vide Demand Draft No. 849508 dt.24-12-2018 drawn on SBI, RPH for the petition is also enclosed.

We shall be glad to provide any other information as may be desired by the Hon'ble Commission from time to time.

Thanking you,

Encl: As above

Yours faithfully,

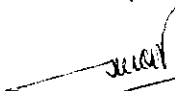
(Rajendra Kumar Yadav)
Additional General Manager (Comml.)

27.12.18

No CP

**BEFORE THE HON'BLE DELHI ELECTRICITY REGULATORY COMMISSION,
NEW DELHI**

Petition No:

IN THE MATTER OF	Filing of Tariff Petition under section 62(2) of the Electricity Act, 2003 for truing up of tariff for FY 2017-18 and determination of ARR for the Financial Year 2019-20 for PPS-I.
AND	
IN THE MATTER OF	PRAGATI POWER CORPORATION LTD. Regd. Office "Himadri", Rajghat Power House Complex, New Delhi – 110 002 <div style="text-align: right;"> PETITIONER</div>

I N D E X

S. No.	Description	Page No.
1.	Affidavit	I-II
2.	Submissions	1 - 32
3.	Annexure from 'A' to 'D'	33-36
4.	DERC filled Forms	37-60



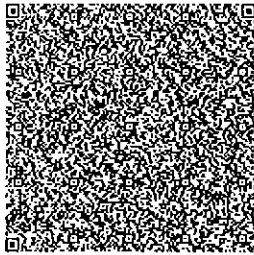
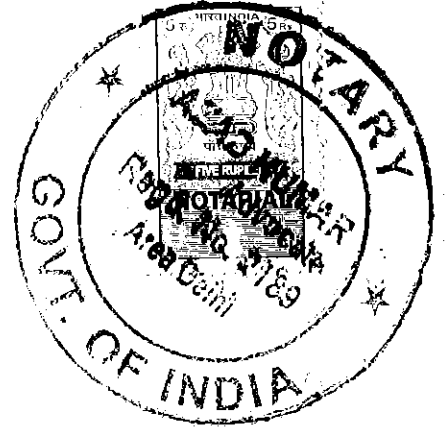
सत्यमेव जयते

INDIA NON JUDICIAL

Government of National Capital Territory of Delhi

e-Stamp

Certificate No.	: IN-DL20486563949586Q
Certificate Issued Date	: 24-Dec-2018 05:00 PM
Account Reference	: IMPACC (IV)/ dl782603/ DELHI/ DL-DLH
Unique Doc. Reference	: SUBIN-DL78260345817150967853Q
Purchased by	: PPCL
Description of Document	: Article 4 Affidavit
Property Description	: Not Applicable
Consideration Price (Rs.)	: 0 (Zero)
First Party	: PPCL
Second Party	: Not Applicable
Stamp Duty Paid By	: PPCL
Stamp Duty Amount(Rs.)	: 10 (Ten only)



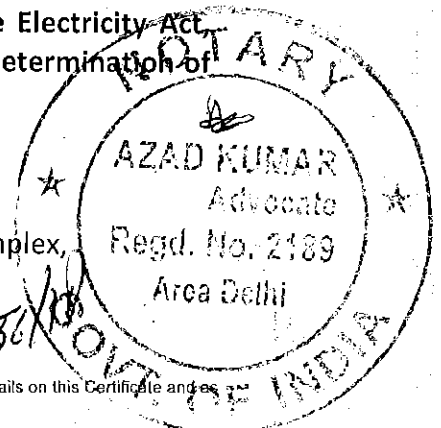
.....Please write or type below this line.....

BEFORE THE HON'BLE DELHI ELECTRICITY REGULATORY COMMISSION, NEW DELHI

IN THE MATTER OF Filing of Tariff Petition under section 62 of the Electricity Act, 2003 for truing up of tariff for FY 2017-18 and determination of ARR for the Financial Year 2019-20 for PPS-I.

AND

IN THE MATTER OF Pragati Power Corporation Limited
Regd. Office "Himadri", Rajghat Power House Complex,
New Delhi – 110 002



Statutory Alert:

1. The authenticity of this Stamp Certificate should be verified at "www.shcilestamp.com". Any discrepancy in the details on this Certificate and as available on the website renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

AFFIDAVIT VERIFYING DOCUMENTS/INFORMATION

I, Jagdish Kumar S/o Late Sh. Balbir Singh aged about 59 years, Residing at 190, IInd Floor, Avtar Enclave, Paschim Vihar, New Delhi-110063, do hereby solemnly affirm and state as follows:

1. That I am Director (Technical) of Pragati Power Corporation Limited and conversant with the facts of the case.
2. That the statements made in the petition are based on the records of the company except in the case of estimates wherever made in the said documents, are based on the assumptions and believed by me to be true to the best of my knowledge and be read as part and parcel of this affidavit and the same are not reproduced here for the sake of brevity and nothing has been concealed there from.

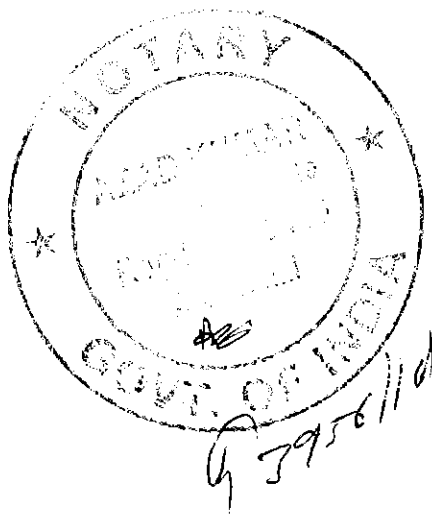
Jagdish
26/12/2018
DEPONENT

VERIFICATION:

It is solemnly affirmed that the contents of above affidavit are true to the best of my knowledge and belief. No part of it is false and nothing has been concealed there from.

Verified at New Delhi on thisday of December 2018.

Jagdish
26/12/2018
DEPONENT



U.O. 1210, 2018
New Delhi-110002

ATTESTED
Azad Kumar

BY NOTARY PUBLIC
NEW DELHI (INDIA)
AZAD KUMAR-ADV.

26 DEC 2018

Tariff Petition for True-up of Expenses for FY 2017-18 and Approval of Aggregate
Revenue Requirement & Tariff for FY 2019-20

BEFORE THE HON'BLE DELHI ELECTRICITY REGULATORY COMMISSION

Petition No. :

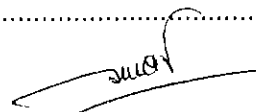
IN THE MATTER OF	Filing of Petition under section 62(2) of the Electricity Act, 2003 for truing up of expenses for FY 2017-18 and approval of Aggregate Revenue Requirement & Tariff for FY 2019-20.
AND	
IN THE MATTER OF	Pragati Power Corporation Limited Regd. Office "Himadri", Rajghat Power House Complex, New Delhi - 110002 PETITIONER

THE APPLICANT ABOVE NAMED RESPECTFULLY SUBMITS

**Tariff Petition for True-up of Expenses for FY 2017-18 and Approval of Aggregate
Revenue Requirement & Tariff for FY 2019-20**

Table of Contents

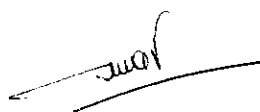
CHAPTER 1 : BACKGROUND	4
1.1 INTRODUCTION	4
1.2 BRIEF COMPANY PROFILE	6
CHAPTER 2 : SUBMISSIONS	7
2.1 SUBMISSION PLAN	7
2.2 BRIEF OF SUBMISSIONS.....	7
CHAPTER 3 : ESTIMATION OF VARIABLE COST	9
3.1 NORMS FOR OPERATION.....	9
3.1.1 Station Heat Rate.....	9
3.1.2 Availability	11
3.1.3 Auxiliary Power Consumption (APC)	11
3.2 GROSS GENERATION & NET GENERATION.....	12
3.3 VARIABLE COST FOR PPS-I	12
3.3.1 Fuel Consumption:	12
3.3.2 Projected Fuel Cost for FY 2019-20.....	13
3.3.3 Energy Charge Rate and Fuel Cost.....	14
CHAPTER 4 : ESTIMATION OF FIXED COST	15
4.1 PARAMETERS FOR FIXED COST	15
4.2 OPERATION AND MAINTENANCE EXPENSES	15
4.2.1 Summary of O&M expenses.....	17
4.3 CAPITAL EXPENDITURE.....	18
4.4 DEPRECIATION	18
4.5 REQUIREMENT OF LOAN AND EQUITY	20
4.6 WORKING CAPITAL.....	21
4.7 RETURN ON CAPITAL EMPLOYED	24
4.8 FIXED AUXILIARY CONSUMPTION EXPENSES	27
4.9 SUMMARY OF FIXED COST	28
CHAPTER 5 : CAPITAL EXPENDITURE.....	29
5.1 CAPITAL EXPENDITURE.....	29
CHAPTER 6 : PRAYER.....	32
6.1 PRAYER.....	32



**Tariff Petition for True-up of Expenses for FY 2017-18 and Approval of Aggregate
Revenue Requirement & Tariff for FY 2019-20**

List of Tables

Table 3-1: Details of Back down & open cycle Generation	10
Table 3-2: Station Heat Rate	11
Table 3-3 : Availability	11
Table 3-4 : Auxiliary Power Consumption	11
Table 3-5: Gross and Net Generation	12
Table 3-6 : Total Consumption of Gas	13
Table 3-7 : Energy Charge Rate and Fuel Cost.....	14
Table 4-1: O&M Expenses (Rs. Lakh/ MW)	15
Table 4-2: O & M Expenses	17
Table 4-5: Capital Expenditure.....	18
Table 4-6: Details of Depreciation	19
Table 4-7: Requirement of Loan & Equity.....	20
Table 4-8: Requirement of Working Capital	23
Table 4-9: Estimation of RRB.....	25
Table 4-10: WACC and RoCE.....	26
Table 4-11: Fixed Auxiliary Consumption Expenses	27
Table 4-12: Annual Fixed Cost	28
Table 5-1: Details of Proposed Capex Schemes	29



Chapter 1 : Background

This Chapter deals with the background of this Petition.

1.1 Introduction

- ❖ The Electricity Act, 2003 was notified on 10th June, 2003 repealing the Indian Electricity Act-1910, the Electricity (Supply) Act, 1948 and the E.R.C. Act, 1998. Among the tariff related provisions, the State Electricity Regulatory Commission (SERC) has to be guided by National Electricity Policy, National Tariff Policy and Central Electricity Regulatory Commission (CERC). As per Section 86 (1)(a) of the Electricity Act, the State Commission shall discharge the function of determining the tariff for generation, supply, transmission and wheeling of electricity, wholesale, bulk or retail as the case may be within the state. The generation, transmission and distribution tariff have to be determined separately.
- ❖ The Section 61 of the Electricity Act, 2003 provides as under in respect of Tariff Regulations:
 - a. *"The Appropriate Commission shall, subject to the provisions of this Act, specify the terms and conditions for the determination of tariff, and in doing so, shall be guided by the following, namely:-*
 - (a) *the principles and methodologies specified by the Central Commission for determination of the tariff applicable to generating companies and transmission licensees;*
 - (b) *the generation, transmission, distribution and supply of electricity are conducted on commercial principles;*
 - (c) *the factors which would encourage competition, efficiency, economical use of the resources, good performance and optimum investments;*
 - (d) *safeguarding of consumers' interest and at the same time, recovery of the cost of electricity in a reasonable manner;*

Tariff Petition for True-up of Expenses for FY 2017-18 and Approval of Aggregate
Revenue Requirement & Tariff for FY 2019-20

- (e) the principles rewarding efficiency in performance;*
- (f) multi year tariff principles;*
- (g) that the tariff progressively reflects the cost of supply of electricity and also, reduces cross-subsidies in the manner specified by the Appropriate Commission;*
- (h) the promotion of co-generation and generation of electricity from renewable sources of energy;*
- (i) the National Electricity Policy and tariff policy:*

Provided that the terms and conditions for determination of tariff under the Electricity (Supply) Act, 1948, the Electricity Regulatory Commission Act, 1998 and the enactments specified in the Schedule as they stood immediately before the appointed date, shall continue to apply for a period of one year or until the terms and conditions for tariff are specified under this section, whichever is earlier."

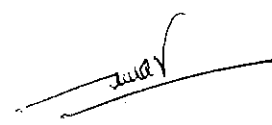
- ❖ The Delhi Electricity Regulatory Commission (hereinafter referred as 'DERC' or the "Commission") has notified "Delhi Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulations, 2017" and Delhi Electricity Regulatory Commission Business Plan Regulations, 2017 on 31.01.2017 and are applicable w.e.f 01.02.2017 for the control period FY 2017-18 to FY 2019-20.
- ❖ PPCL is filing the present petition in line with the provisions of above regulations for trueing up of FY 2017-18 and Approval of ARR for FY 2019-20 with submission for certain relaxations. It is further submitted that PPCL is requesting the Hon'ble Commission to invoke its power of relaxation wherever required in the petition.



**Tariff Petition for True-up of Expenses for FY 2017-18 and Approval of Aggregate
Revenue Requirement & Tariff for FY 2019-20**

1.2 Brief Company Profile

- ❖ "Pragati Power Corporation Ltd." (PPCL) is a Generating Company engaged in the business of Power generation as per Companies Act, 1956 and is wholly owned by the Government of National Capital Territory of Delhi, 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.
- ❖ PPCL has installed another 1371.2 MW CCGT plant at Bawana in Delhi. The COD of the both modules of the stations has been declared on 27.03.2014. The power from the station is being sold to states of Delhi, Haryana and Punjab. Since, it is an inter-state generating station. Therefore, as per Section No.79(1) (a) & (b) of Electricity Act, 2003 determination of tariff of generating station having composite scheme of generation and sale of electricity in more than one state is to be determined by Hon'ble Central Electricity regulatory commission. Therefore, tariff of this station is determined by Hon'ble Central Electricity regulatory commission.
- ❖ Pursuant to the applicable provisions of the Delhi Electricity Reforms Act, 2000, the Government of National Capital Territory of Delhi undertook the reform and restructuring of the erstwhile Delhi Vidyut Board (DVB), which was implemented through a statutory transfer scheme. The Transfer Scheme rules notified provided for reorganization of DVB including transfer of its properties, assets, liabilities etc. The transfer scheme provided for unbundling of the erstwhile DVB into five companies. PPCL also took over certain assets and liabilities relating to Pragati Power Station-I from erstwhile DVB w.e.f. 01.07.2002.



Chapter 2 : Submissions

This Chapter lays down the modality of making submissions to the Hon'ble Commission in support of the Prayers made out as under.

2.1 Submission Plan

PPS-I propose to make submissions to the Hon'ble Commission in support of this Petition as under:

- ❖ Operational Parameters for the Pragati Power Station-I
- ❖ Financial Parameters for Pragati Power Station-I
- ❖ Capital Expenditure for Pragati Power Station-I
- ❖ Prayer

2.2 Brief of Submissions

The present petition is filed as per DERC MYT Regulations, 2017 which is applicable for the control period from FY 2017-18 to 2019-20. The petitioner requests the Hon'ble Commission to give due considerations to the following facts while evaluating the present tariff petition:

- ❖ It is submitted that the norms for heat rate (kCal/kWh) in open cycle mode as specified in MYT Regulations is not achievable. The guaranteed heat rate as per the manufacturer works out to 2986 kCal/kWh while the commission has allowed normative heat rate of 2900 kCal/kWh in Open Cycle mode. However normative heat rate may be achieved only in the cases of continuous running without frequent start/stop and backing downs of the plant.
- ❖ It is submitted that Operation and Maintenance expenses on Gas Turbine repair is cyclic in nature as type of maintenance required in Gas Turbines depends upon no. of hours of use in given time period.

**Tariff Petition for True-up of Expenses for FY 2017-18 and Approval of Aggregate
Revenue Requirement & Tariff for FY 2019-20**

- ❖ Further, it is submitted that due to part load operation and frequent start/stops SHR & APC values are on higher side. The reason of higher Heat rate is on account of erratic scheduling by SLDC due to frequent change of demands by DISCOMs. Therefore, PPCL has earlier requested Commission to relax the norms of SHR in open cycle mode as the same is attributed to SLDC/DISCOMs while determining the tariff for FY 2018-19. Also the actual PLF as against availability for FY 17-18 has been very less.
- ❖ The Hon'ble Commission has been allowing additional expenditure on account of DLN burner. Hence, it is prayed that the Hon'ble Commission may continue expenditure on DLN Burner as additional expenditure for FY 19-20 also over and above the normative expenditure.
- ❖ It is submitted that SLDC Delhi has been backing down the generation of the stations depending on the requirement of power in Delhi. SLDC Delhi has been giving instructions to back down partially, thus resulting in non optimization of fuel consumption and higher Heat Rate and Auxiliary Power Consumption. **Therefore, Hon'ble Commission is requested to direct SLDC Delhi to back down any of the complete block of the station only and not partially. Further, it is requested that frequent backing down should not be resorted by SLDC.**
- ❖ Petitioner further submits that petitioner has challenged certain aspects of tariff order issued by Hon'ble Commission vide order dated 31.08.2017 in RP No. 60 of 2017 & RP no. 42 of 2018 against DERC tariff order dated 28.03.2018. Therefore, present petition is being submitted without prejudice to petitioner submission in above review petitions.
- ❖ The petitioner prays to the Hon'ble Commission to consider and relax the operational and financial parameters as requested in the petition.

Chapter 3 : Estimation of Variable Cost

3.1 Norms for Operation

Petitioner has taken into consideration the actual performance parameters for FY 2017-18. Petitioner has projected the parameters for FY 2019-20 in line with provisions of DERC Tariff Regulations, 2017 and Business Plan Regulation, 2017.

3.1.1 Station Heat Rate

- ❖ It is to submit that guaranteed heat rate of these turbines as given by the manufacturer is 1939 kCal/kWh in combined cycle mode and 2986 kCal/kWh in open cycle mode at 100% PLF. However, Station Heat Rate achieved during FY 2017-18 of PPS-I in open cycle mode is 3176 kCal/kWh which is very high as compared to allowed Heat rate by Hon'ble Commission i.e 2900 kCal/kWh as specified in the DERC Business Plan Regulations, 2017.
- ❖ In this regard it is to submit that station runs in open cycle mode as and when requisitioned by SLDC, Delhi. Thus, the station may be allowed heat rate as per actual, as there is a direct loss on account of recovery of lesser fuel cost when operated in open cycle mode. Therefore, petitioner requests the Hon'ble Commission to approve actual SHR achieved in open and close cycle mode during FY 2017-18.
- ❖ The backing down and open cycle generation for FY 17-18 is computed as under:-



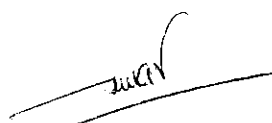
Tariff Petition for True-up of Expenses for FY 2017-18 and Approval of Aggregate Revenue Requirement & Tariff for FY 2019-20

Table 3-1: Details of Back down & open cycle Generation

S.No.	Parameters	UoM	FY 17-18	Remarks
A	Station Heat Rate	kCal/kWh	1973	
B	Heat Rate (OC)	kCal/kWh	3176	
C	Heat Rate (CC)	kCal/kWh	1969	
D	Gross Generation	MU	1954.999	
E	Open Cycle Gen.	MU	6.988	Certified by SLDC
F	PAF	%	92.64	Certified by SLDC
G	PLF	%	67.63	
H	Backdown Gen.	%	25.01	$H = F - G$
I	Plant Capacity	MU	2678.037	$I = 330 \times 365 \times 24 \times F / 100 / 1000$
J	Back down Gen.	MU	669.823	$J = I \times H$

❖ In view of the above, it is submitted that backing down and open cycle generation is relatively high which results in increase in Heat Rate & auxiliary consumption. Petitioner requests the Commission to allow open cycle heat rate of 3176 kCal/kWh for FY 2017-18 as PPS-I is subject to backing down and sudden start and stops, on the instruction of SLDC.

❖ In view of the above, the actual SHR for FY 2017-18 and proposed SHR for FY 2019-20 is as under:-



Tariff Petition for True-up of Expenses for FY 2017-18 and Approval of Aggregate Revenue Requirement & Tariff for FY 2019-20

Table 3-2: Station Heat Rate

Description	UoM	FY 17-18	FY 19-20
Station Heat Rate (CC)	kCal/kWh	1973	2000
Station Heat rate (OC)	kCal/kWh	3176	2900

3.1.2 Availability

PPS-I has achieved availability over and above Normative Availability as provided in DERC Tariff and business Plan Regulation, 2017. Table 3 shows the Availability achieved for PPS-I during FY 2017-18 and proposed Availability for FY 2019-20.

Table 3-3 : Availability

Description	UoM	FY 17-18	FY 19-20
Plant Availability	%	92.64%	85%

3.1.3 Auxiliary Power Consumption (APC)

The Auxiliary Power Consumption achieved during FY 2017-18 has increased due to unproductive auxiliary consumption on part load operation & frequent back down. Thus Petitioner request the Hon'ble Commission to allow APC achieved as per actual for FY 2017-18. Table 3 shows the APC achieved for PPS-I during FY 2017-18 and proposed APC for FY 2019-20.

Table 3-4 : Auxiliary Power Consumption

Description	UoM	FY 17-18	FY 19-20
Auxiliary Consumption	%	2.39%	2.5%

2.39%

Tariff Petition for True-up of Expenses for FY 2017-18 and Approval of Aggregate Revenue Requirement & Tariff for FY 2019-20

3.2 Gross Generation & Net Generation

On the basis of Availability as referred in the Table 3-3 and Auxiliary Power Consumption as referred in Table 3-4, Gross and Net Generation from the Power Station are as per the Table 3-5.

Table 3-5: Gross and Net Generation

Sr.No.	Description	UoM	FY 17-18	FY 19-20	Remarks
A	Plant Capacity	MW	330	330	
B	PLF	%	67.63	85	
C	Gross Generation	MU	1954.99	2463.91	
D	Aux. Cons.	%	2.39	2.50	
E	Aux. Cons.	MU	46.63	61.60	$E = C * D$
F	Net Gen.	MU	1908.36	2402.31	$F = C - E$

3.3 Variable Cost for PPS-I

3.3.1 Fuel Consumption:

- ❖ 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 1.1 MMSCMD to 1.2 MMSCMD of APM gas and 0.28 MMSCMD of PMT gas. 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.

**Tariff Petition for True-up of Expenses for FY 2017-18 and Approval of Aggregate
Revenue Requirement & Tariff for FY 2019-20**

- ❖ The Consumption of APM Gas, NAPM gas, PMT Gas, R-LNG gas and Spot-Gas for FY 2017-18 and Projected for FY 2019-20 is depicted in Table 5.

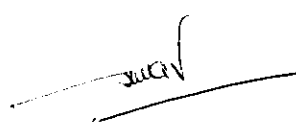
Table 3-6 : Total Consumption of Gas

Particulars	Unit	FY 17-18	FY 19-20
APM Gas	MMSCM	164.35758	527.627
NAPM Gas	MMSCM	27.86914	
PMT Gas	MMSCM	27.53504	
R-LNG Gas	MMSCM	173.71959	
SPOT RLNG	MMSCM	17.35508	
Total Gas Consumption	MMSCM	410.8364	

The estimation of 527.627 MMSCM gas has been worked out @ GCV of 9339.605 kCal/SCM at 85% PLF.

3.3.2 Projected Fuel Cost for FY 2019-20

Fuel Cost for FY 2019-20 has been calculated as per DERC Business Plan Regulation, 2017 by considering heat rate of 2000 kCal/kWh in combined cycle mode and 2900 kCal/kWh @ Normative PLF. However, the weighted average price of the Gas has been taken for preceding three months i.e. August to October, 2018 in line with the DERC Regulations, 2017 for FY 2019-20. The weighted average landed price of gas from August to October, 2018 for PPS-I is 24.045 Rs/SCM and weighted average GCV is 9339.605 kCal/SCM. The detailed calculation is attached as Annexure 'A'.



**Tariff Petition for True-up of Expenses for FY 2017-18 and Approval of Aggregate
Revenue Requirement & Tariff for FY 2019-20**

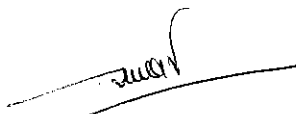
3.3.3 Energy Charge Rate and Fuel Cost

The details of total gas consumption, rate per SCM and total cost of the gas for FY 2017-18 as per actual and fuel cost estimated for FY 2019-20 is depicted in the following table:

Table 3-7 : Energy Charge Rate and Fuel Cost

Particulars	Unit	Variable Cost	
		FY 17-18	FY 19-20
Total Gas Consumption	MMSCM	410.836	527.627
Average Gas Price	Rs./SCM	17.628	24.045
Weighted Average GCV	kCal/ SCM	9388.983	9339.605
Total Gas Cost	Rs. Crores	724.24	1268.65
Net Generation	MU	1908.37	2402.31
Variable Cost - CC	Rs./kWh	3.80	5.28

The weighted average landed price of gas for FY 17-18 for PPS-I is 17.628 Rs/SCM and weighted average GCV is 9388.983 kCal/SCM. The detailed calculation is attached and placed as **Annexure 'B'**. The recovery of energy charges has been done as per the formula specified in generation tariff regulations of DERC, 2017 for FY 17-18.



Chapter 4 : Estimation of Fixed Cost

4.1 Parameters for Fixed Cost

As per DERC (Terms and conditions for determination of tariff) Regulation 2017 and Business Plan regulation 2017, the annual fixed cost (AFC) of a Generating Entity shall consist of the following components as specified in these Regulations:

- (a) Return on Capital Employed;
- (b) Depreciation; and
- (c) Operation and Maintenance expenses.
- (d) Fixed Auxiliary Consumption Expenses

4.2 Operation and Maintenance Expenses

- ❖ Hon'ble Commission has specified Normative Operation and Maintenance expenses in DERC Business Plan Regulation, 2017 as per the table below for plant PPS-I for the control period from FY 2017-18 to FY 2019-20:

Table 4-1: O&M Expenses (Rs. Lakh/ MW)

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

Additional R&M Expenses for PPS-I shall be as follows:

(Rs in Crore)

Station	2017-18	2018-19	2019-20
PPS-I	16.12	16.12	0.00

However, the actual expenses incurred under the head of O&M expenses comprises of expenses like Employees Expenses, Repairs and Maintenance, Administrative and General Expenses etc.

- ❖ Further, Petitioner has installed DLN Burner at PPS-I to control the NO_x level. These types of burners were installed for the first time in India. The additional R&M expenses towards R&M of DLN burners and for critical components of Gas Turbines are required to be incurred by the PPS-I for the smooth operations of the plant and to achieve the target level of

**Tariff Petition for True-up of Expenses for FY 2017-18 and Approval of Aggregate
Revenue Requirement & Tariff for FY 2019-20**

generation. All the inspections and overhauling of the machines are as per the manufactures recommendation. The expenditure on DLN Burners is cyclic in nature and its amount varies from year to year depending upon the type of inspections carried out on the machines based on the running hours.

- ❖ The expenditure on DLN and STP are being recognized and allowed separately by this Hon'ble Commission in every tariff order. The Hon'ble Commission in its Tariff Order dated 31.08.2017 has approved an amount of Rs. 65.55 crores claimed by the Petitioner towards DLN Expenditure and allow the recovery of the same over the tariff period starting from FY 2015-16 to FY 2018-19.
- ❖ However, Petitioner had spent the entire amount of Rs. 65.55 crores in one go despite the fact that it will be recovered over the period starting from FY 2015-16 to FY 2018-19. Therefore, the carrying cost on the amount which is being deferred for recovery needs to be allowed to the Petitioner.
- ❖ Further, PPS-I is sourcing plant water requirement from sewage treatment plants (STP). PPS-I has taken over the operation & maintenance of the sewage water treatment plants from Delhi Jal Board for treating the sewerage water from Delhi Gate Nala and Sen Nursing Home Nala. The actual expenditure on this account of above for FY 14-15 & 15-16 includes expenditure on operation & maintenance, electricity, Chemicals etc.
- ❖ Further, Petitioner has incurred an expenditure of Rs 7.55 Crore on account of repair & maintenance on the component of DLN burner and Rs 4.34 Crore on account of STP during FY 17-18. Accordingly, Petitioner requested Hon'ble Commission to allow expenditure on account of DLN Burner & STP on similar lines as Hon'ble Commission has approved the figures for FY 2015-16 in its tariff order dated 31.08.2017.

**Tariff Petition for True-up of Expenses for FY 2017-18 and Approval of Aggregate
Revenue Requirement & Tariff for FY 2019-20**

- ❖ In addition to above, Hon'ble Commission is requested to allow the additional expenditure on account of DLN & STP for FY 2019-20 on normative basis and to be trued up at later stage, as has been done by Hon'ble Commission in previous years.

4.2.1 Summary of O&M expenses

The summary of Operation and Maintenance expenditure for FY 2017-18 as per actual and as estimated for FY 2019-20 is as under:

Table 4-2: O & M Expenses

S.No	Particulars	UoM	FY 17-18	FY 19-20	Remarks
A	Normative O&M expenses	Rs Cr.	58.38	65.11	
B	Additional R&M expenses allowed by DERC in its tariff order dated 31.08.2017 along with carrying cost	Rs Cr.	16.12	0	
C	Carrying Cost @ 11.50% on allowed additional R&M Expenses	Rs Cr.	2.78	0	The detailed calculation is attached as Annexure 'C'.
D	Additional expenditure on account of DLN Burner	Rs Cr.	7.55	15	
E	Additional expenditure on account of STP	Rs Cr.	4.34	4.85	
F	Total O&M Expenses	Rs Cr.	89.17	84.96	F = A+B+C+D+E

**Tariff Petition for True-up of Expenses for FY 2017-18 and Approval of Aggregate
Revenue Requirement & Tariff for FY 2019-20**

4.3 Capital Expenditure

- ❖ Hon'ble Commission has approved the Opening Gross Fixed Asset of Rs. 1050.38 Cr in the beginning of FY 2017-18 in its tariff order dated 31.08.2017. Accordingly, the GFA of PPS-I from FY 2017-18 to FY 19-20 is reproduced as under:-

Table 4-3: Capital Expenditure

S.No.	Particulars	Unit	FY 2017-18	FY 2018-19	FY 2019-20
A	Opening GFA	Rs in Cr.	1050.38	1050.38	1052.38
B	Addition	Rs in Cr.	0.00	2.00	1.92
C	Deletion	Rs in Cr.	0.00	0.00	0.00
D	Closing GFA	Rs in Cr.	1050.38	1052.38	1054.30
E	Average GFA	Rs in Cr.	1050.38	1051.38	1053.34

4.4 Depreciation

- ❖ Depreciation for FY 2017-18 has been calculated as per DERC regulation 2017 which reads as under:-

"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

**Tariff Petition for True-up of Expenses for FY 2017-18 and Approval of Aggregate
Revenue Requirement & Tariff for FY 2019-20**

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."

- ❖ The depreciation allowed by Hon'ble Commission from FY 2002-03 till FY 2016-17 along with advance against depreciation is Rs 795.39 Cr.
- ❖ PPS-I Station got commissioned in FY 2002-03 and shall complete its useful life by FY 2027-28. Since cumulative depreciation has reached 70% of the total depreciation, therefore, petitioner has spread the remaining depreciable value over the remaining life of the asset. Accordingly, depreciation calculated for FY 2017-18 & FY 2019-20 is as follows:-

Table 4-4: Details of Depreciation

S.No.	Particulars	Unit	FY 17-18	FY 19-20	Remarks
A	Average GFA	Rs Cr.	1050.38	1053.34	Table 4-5
B	Opening Accumulated Depreciation	Rs Cr.	795.39	822.74*	As per DERC tariff order dt 31.08.2017
C	Balance Depreciation	Rs Cr.	149.95	125.27	C = (90% of A) - B
D	Remaining useful life at the opening of FY 2017-18	Years	11	9	
E	Depreciation	Rs Cr.	13.63	13.92	E = C/D

* A depreciation of Rs 13.72 Crore has been considered for FY 18-19

Thus, Hon'ble Commission is requested to approve the Depreciation for FY 2017-18 and as projected for FY 2019-20.



Tariff Petition for True-up of Expenses for FY 2017-18 and Approval of Aggregate Revenue Requirement & Tariff for FY 2019-20

4.5 Requirement of Loan and Equity

Since accumulated depreciation is greater than the 70% of Gross Fixed asset during FY 2017-18, the remaining value is treated as 100% equity. Accordingly, petitioner has treated the net fixed asset as opening equity. The following estimation is without prejudice to petitions submission against commission tariff order dated 31.08.2017 in RP No. 60 of 2017 & RP no. 42 of 2018 against DERC tariff order dated 28.03.2018.

Table 4-5: Requirement of Loan & Equity

S.No.	Particulars	Unit	FY 17-18	FY 19-20	Remarks
A	Opening GFA	Rs Cr	1050.38	1052.38	Table 4-5
B	Opening Accumulated Depreciation	Rs Cr	795.39	822.74	Table 4-6
C	Opening NFA	Rs Cr	254.99	229.64	$C = A - B$
D	Opening Equity	Rs Cr	254.99	229.64	$D = C$
E	Opening Loan Requirement	Rs Cr	0.00	0.00	
F	Depreciation for the year	Rs Cr	13.63	13.92	Table 4-6
G	Closing NFA	Rs Cr	241.36	215.72	$G = C - F$
H	Closing Equity	Rs Cr	240.93	215.72	$H = G$
I	Closing Loan	Rs Cr	0.00	0.00	
J	Average Loan	Rs Cr	0.00	0.00	$J = (E+I)/2$
K	Average Equity	Rs Cr	247.96	222.68	$K = (D+H)/2$

suav

Tariff Petition for True-up of Expenses for FY 2017-18 and Approval of Aggregate
Revenue Requirement & Tariff for FY 2019-20

4.6 Working Capital

- ❖ 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 Normative Annual Plant Availability Factor, duly taking into account mode of operation of the generating station on gas fuel and liquid fuel;

(b) 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;

(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.

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.



Tariff Petition for True-up of Expenses for FY 2017-18 and Approval of Aggregate
Revenue Requirement & Tariff for FY 2019-20

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

- ❖ The petitioner submits that the fuel cost is increasing continuously. This increase in prices of fuel had substantial impact on certain components considered in the computation of working capital and resulting in increasing the interest on working capital. Therefore the considerable increase in interest amount in comparison to the interest allowed by the Commission.
- ❖ Petitioner has taken fuel cost for working capital by taking average of three months from Jan-17 to March-17 as per DERC tariff regulation 2017 for FY 2017-18. Accordingly, the weighted average landed price of gas for the period is 13.107 Rs/SCM and weighted average GCV is 9302.163 kCal/SCM. The detailed calculation is attached and placed as **Annexure 'D'**. Thus, Fuel Cost arrived @ Normative parameters is Rs 692.42 Cr.
- ❖ Accordingly, petitioner has calculated working capital for FY 17-18 and FY 19-20 is as under:



**Tariff Petition for True-up of Expenses for FY 2017-18 and Approval of Aggregate
Revenue Requirement & Tariff for FY 2019-20**

Table 4-6: Requirement of Working Capital

S.No.	Particulars	Unit	FY 17-18	FY 19-20	Remarks
A	Fuel expenses for 1 month	Rs Cr	57.70	105.72	Table 4-8(E)
B	Maintenance spares @ 30% of O&M	Rs Cr	25.92	25.49	Table 4-2
C	O&M expenses for 1 month	Rs Cr	7.20	7.08	Table 4-2
D	Annual Fixed Cost for the year	Rs Cr	177.52	188.04	Table 4-12
E	Fuel Cost for the year	Rs Cr	692.42	1268.65	Fuel Cost is calculated at Normative PLF considering 2.5% APC
F	Receivables equivalent to 2 months of capacity and energy charge	Rs Cr	144.99	242.78	$F = (D+E)/6$
G	Total Working Capital	Rs Cr	235.81	381.07	$G = A+B+C+F$

Therefore, Hon'ble Commission is requested to allow working capital as per above due to continuous rise in fuel prices for FY 2017-18 & FY 2019-20.

[Signature]

**Tariff Petition for True-up of Expenses for FY 2017-18 and Approval of Aggregate
Revenue Requirement & Tariff for FY 2019-20**

4.7 Return on Capital Employed

- ❖ 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:

$$\text{RoCE} = \text{WACC}_i * \text{RRB}_i$$

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

RRB_i – 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:

$$\text{WACC} = [D/(D+E)] * r_d + [E/(D+E)] * r_e$$

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

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

Tariff Petition for True-up of Expenses for FY 2017-18 and Approval of Aggregate Revenue Requirement & Tariff for FY 2019-20

- ❖ Thus, in view of the above the regulated rate base for FY 2017-18 and is derived as follows:-

Table 4-7: Estimation of RRB

S.No.	Particulars	Unit	FY 17-18	FY 19-20	Remarks
A	Opening GFA	Rs in Cr.	1050.38	1052.38	Table 4-5
B	Opening Accumulated Depreciation	Rs in Cr.	795.39	822.74	Table 4-7
C	Opening RRB	Rs in Cr.	254.99	229.64	$C = A - B$
D	Working Capital	Rs in Cr.	235.81	381.07	Table 4-8
E	Depreciation for the year	Rs in Cr.	13.63	13.92	Table 4-6
F	Net Addition	Rs in Cr.	0.00	1.92	Table 4-5
G	Closing RRB	Rs in Cr.	477.16	598.71	$G = C + D + F - E$
H	Average RRB	Rs in Cr.	483.98	604.71	$H = C + D + (F - E) / 2$

- ❖ Further, 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 has been considering at 10.98% on the basis of SBI MCLR of 8% as on 1st April, 2017 plus margin of 2.98% for FY 2017-18 and rate of interest on loan has been calculated @ 11.23% by taking average rate of MCLR from April-18 to October-18 i.e 8.25% plus margin of 2.98% for FY 2019-20.

- ❖ 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 21.34%. Accordingly grossed up rate of return on equity has been computed at 17.80% for FY

Tariff Petition for True-up of Expenses for FY 2017-18 and Approval of Aggregate Revenue Requirement & Tariff for FY 2019-20

2017-18. 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 21.54%. Accordingly grossed up rate of return on equity has been computed at 17.84% for FY 2019-20.

Source:- [http://incometaxmanagement.com/Pages/Taxation-System/Income-Tax-Rates-Minimum-Alternate-Tax\[MAT\].html](http://incometaxmanagement.com/Pages/Taxation-System/Income-Tax-Rates-Minimum-Alternate-Tax[MAT].html)

- ❖ Further, Petitioner has computed Weighted Average Cost of Capital (WACC) and Return on Capital Employed (RoCE) as follows:

Table 4-8: WACC and RoCE

S.No.	Particulars	Unit	FY 17-18	FY 19-20	Remarks
A	Average RRB	Rs in Cr.	483.98	604.71	Table 4-9
B	Average Loan Requirement for Capital Investment	Rs in Cr.	0.00	0.00	Table 4-7
C	Loan for Working Capital Requirement	Rs in Cr.	235.81	381.07	Table 4-9
D	Total Loan	Rs in Cr.	235.81	381.07	D = B + C
E	Average Equity	Rs in Cr.	247.96	222.68	Table 4-7
F	Cost of Debt, Rd	%	10.98	11.23	
G	Return on Equity, Re	%	17.80	17.84	
H	WACC	%	14.48	13.67	As per DERC Regulation, 2017
I	RoCE	Rs Cr.	70.06	82.65	I = A * H

Tariff Petition for True-up of Expenses for FY 2017-18 and Approval of Aggregate Revenue Requirement & Tariff for FY 2019-20

4.8 Fixed Auxiliary Consumption Expenses

Commission has allowed Fixed Auxiliary Consumption expenses (0.5%) @ Normative PLF. Accordingly, Petitioner has calculated Fixed Auxiliary Consumption Expenses for FY 2017-18 and projected for FY 2019-20 is as follows:

Table 4-9: Fixed Auxiliary Consumption Expenses

S.No.	Particulars	Unit	FY 17-18	FY 19-20	Remarks
A	Plant Capacity	MW	330	330	
B	Normative PLF	%	85	85	
C	Gross Generation	MU	2457.18	2463.912	$C = A * B * 365 * 24 / 1000 / 100$
D	Fixed Auxiliary Consumption	%	0.5	0.5	As Per BPR 2017
E	Fixed Auxiliary Consumption	MU	12.29	12.32	$E = C * D$
F	Energy Charge Rate @ Normative	Rs/kWh	3.80	5.28	Table 3-7
G	Fixed Auxiliary Consumption	Rs Cr	4.66	6.51	$G = E * F / 10$

Tariff Petition for True-up of Expenses for FY 2017-18 and Approval of Aggregate Revenue Requirement & Tariff for FY 2019-20

4.9 Summary of Fixed Cost

The DERC tariff regulation 2017 has following provisions regarding fixed cost which reads as under:-

"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 expense."

Accordingly, the Annual Fixed Cost for FY 2017-18 & FY 2019-20 is depicted as under:

Table 4-10: Annual Fixed Cost

S.No.	Particulars	Unit	FY 17-18	FY 19-20	Remarks
A	Return on Capital Employed	Rs Cr	70.06	82.65	Table 4-10
B	Depreciation	Rs Cr	13.63	13.92	Table 4-6
C	Operation and Maintenance Expenses (Incl. DLN (AGP) and STP)	Rs Cr	89.17	84.96	Table 4-2
D	Fixed Auxiliary Consumption	Rs Cr	4.66	6.51	Table 4-11
E	Annual Fixed Cost	Rs Cr	177.52	188.04	$E = A+B+C+D$
F	Net Generation	MU	1908.36	2402.31	Table 3-7
G	Fixed Cost Per Unit	Rs/ kWh	0.93	0.78	$G = E/F*10$

On the basis of above submissions, the Hon'ble Commission is requested to true-up the total fixed cost for PPS-I for FY 2017-18 and allow ARR as estimated for FY 2019-20.

Tariff Petition for True-up of Expenses for FY 2017-18 and Approval of Aggregate
Revenue Requirement & Tariff for FY 2019-20

Chapter 5 : CAPITAL EXPENDITURE

5.1 Capital Expenditure

In this regard, Petitioner may like to submit that PPS-I is designated consumer under PAT Scheme of Bureau of Energy Efficiency, Ministry of Power, GOI, Notification on 30th March, 2012. The PAT framework has been developed considering the legal requirement under EC Act, 2010. The PAT scheme is involved in Order to incentivize industry to achieve better energy efficiency improvement than their specified SEC improvement targets in a cost effective manner. BEE, the nodal agency for implementation of PAT had given target to petitioner to reduce its net specific heat rate (NSHR) from average heat rate of 2100.68 to 2081.97 Kcal/kWh during 2016-17 to 2018-19 in PAT-II Cycle. Apart from above, there are certain expenditures required to be implemented during FY 2019-20 due to obsolescence and non availability of spares and services. Thus, Petitioner is preparing a capital expenditure of Rs 1.92 Crore in FY 2019-20. The detail of the scheme proposed in FY 2019-20 is as under:

Table 5-1: Details of Proposed Capex Schemes

S.No.	Name of Schemes	Expenditure (Rs Lacs)	Remarks
FY 2019-20			
1.	Upgradation of processors of STG control system	75	
2.	Replacement of 2*50 KVA station UPS System	36.5	Need replacement due to obsolescence.
3.	Replacement of CO ₂ flooding system of Fr9E Gas Turbine	80	Need replacement due to obsolescence.

Details of above schemes are as under:

Tariff Petition for True-up of Expenses for FY 2017-18 and Approval of Aggregate Revenue Requirement & Tariff for FY 2019-20

1. Up-gradation of processors of STG Control System

The scheme is essential due to following reasons:

- (a) There is one number Steam Turbine having capacity of 122MV which runs on ABB's Pro-control system. This system is distributed control system and have different type of modules i.e. processors, bus couplers, various input/output cards, power supply modules, bus traffic directory etc.
- (b) There are 68 nos. of PR05a processors in the system installed at various panels. Out of 68 nos., 34 nos. are working as main controllers and rest 34 nos. are working as hot standby controllers.
- (c) All the programming logics are built in these processors serving as a brain of the system and any malfunctioning of these processors may lead to tripping of the Steam Turbine. These processors are in continuous run for more than 15 years since commissioning of steam turbine.
- (d) Some of these processors were replaced during the past years by Spares procured. Now almost all processors have completed their useful life, therefore their failure rate is also increasing.
- (e) Presently OEM stopped manufacturing of these spares; therefore the maintenance of these processors cannot be done.
- (f) So in order to keep on working of STG controller, the overall system is required to be replaced with latest upgraded available version of processors.
- (g) Reliability of steam turbine being very vital in getting combine cycle scheduling, otherwise Gas Turbines in open cycle is absolutely not economical and may lead to plant shutdown.
- (h) Hence for availing technology up gradation and replacement of existing system which is due for obsolescence in coming years as availability of spares have already become scarce, therefore calls for timely up gradation of technology.

**Tariff Petition for True-up of Expenses for FY 2017-18 and Approval of Aggregate
Revenue Requirement & Tariff for FY 2019-20**

Due to obsolescence of technology for electronic components and to sustain the reliability/availability of control system, the proposed scheme is directly responsible for the performance of the plant.

2. Replacement of 2*50 KVA station UPS System

The system needs to be replaced due to obsolescence.

3. Replacement of CO₂ flooding system of Fr9E Gas Turbine

The system needs to be replaced due to obsolescence.

1/11/19

Tariff Petition for True-up of Expenses for FY 2017-18 and Approval of Aggregate
Revenue Requirement & Tariff for FY 2019-20

Chapter 6 : Prayer

6.1 Prayer

Petitioner respectfully prays to the Hon'ble Commission;

- To admit this petition.
- To true up the tariff for FY 2017-18 and approve the ARR for FY 2019-20.
- To approve the operational and financial parameters as proposed for FY 2017-18.
- To grant any other relief as Hon'ble Commission may consider appropriate.
The petitioner craves leave of the Hon'ble Commission to allow further submissions, addition and alteration to this Petition as may be necessary from time to time.
- Pass any other order as Hon'ble Commission may deem fit and appropriate under the circumstances of the case and in the interest of justice.


(JAGDISH KUMAR)

Director (Tech.)

Pragati Power Corporation Limited

PETITIONER

Jul 91

Annexure 'B'

Month	PPS-I					
	Total QTY in MMSCM	Total Value	GCV	GCV*Quantity	Wt. Avg. GCV	Wt. Avg. LPPF
Apr-17	26.759356	447752757	9492.9	254024.7201	9492.931	17.628
May-17	23.708876	232976181	9619.6	228069.0501	9619.564	
Jun-17	24.919916	263137244	9644.6	240342.5471	9644.597	
Jul-17	27.595158	368257195	9332	257519.3114	9332.047	
Aug-17	40.141534	698036709.8	9207.4	369600.3243	9207.429	
Sep-17	40.767282	781941973	9370.2	381996.4443	9370.172	
Oct-17	42.501448	789990021.4	9452.5	401743.6622	9452.47	
Nov-17	40.180626	747416423	9384.5	377075.4865	9384.51	
Dec-17	42.370449	840166042	9351.5	396227.1267	9351.497	
Jan-18	42.769	889073253	9320.8	398644.6962	9320.81	
Feb-18	38.710763	873026261	9348.3	361878.3547	9348.262	
Mar-18	20.411697	310633437	9318.9	190214.5836	9318.901	
Total	410.836424	7242407497		3857336.307	9388.983	

Annexure 'C'

Sr. No.	Particulars	FY 15-16	FY 16-17	FY 17-18	FY 18-19	Remarks
A	Opening Balance	64.48	48.36	32.24	16.12	Amount to be recovered in the Financial year
B	Payment received	16.12	16.12	16.12	16.12	Commission has divided the expenditure on account of DLN expenditure into four years starting from FY 15-16
C	carrying cost rate	0	0	11.5	11.5	
D	Carrying cost amount	0	0	2.781	0.927	$D = (A+E)/2 * G10/100$
E	Closing Balance	48.36	32.24	16.12	0	

30/11

Annexure 'D'

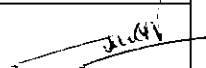
PPS-I		Jan-17			Feb-17			Mar-17			Total (Jan-17 to Mar-17)
Gas	Particulars	Ist Fortnight	IIInd Fortnight	Total	Ist Fortnight	IIInd Fortnight	Total	Ist Fortnight	IIInd Fortnight	Total	
APM	Quantity	6630000	7098212	13728212	8550000	7410000	15960000	5680000	7770015	13450015	43138227.000
	Amount	54972043	58421773	113393816	72555344	62825735	135381079	47728242	65234358	112962600	361737495.000
	GCV	9186.145	9118.576	9151.208	9380.29	9372.004	9376.443	9406.995	9398.966	9402.357	9312.844
NAPM	Quantity	214995	192467	407462	230340	199628	429968	134110	195539	329649	1167079.000
	Amount	2081972	1850322	3932294	2282764	1976646	4259410	1319158	1920783	3239941	11431645.000
	GCV	9183.89	9117.229	9152.402	9380.29	9372.004	9376.443	9411.802	9399.107	9404.272	9306.084
PMT	Quantity	617612.21	634178.63	810079.21	1207099.24	1130349.25	2337448.49	1130498.51	1545127.44	2675625.95	5823153.650
	Amount	9992676	10126062	11842998	19572348	18283642	37855990	18055046	24405576	42460622	92159610.000
	GCV	9191.622	9118.952	9173.947	9371.123	9371.438	9371.275	9409.858	9395.878	9401.785	9357.843
RLNG	Quantity	2243733.16	2606378.84	4850112	212132.28	0	212132.28	0	0	0	5062244.280
	Amount	55494337	63863465	119357802	5242398	0	5242398	0	0	0	124600200.000
	GCV	9167.39	9110.713	9136.933	9273.124	0	9273.124	0	0	0.000	9142.640
TRLNG	Quantity	2500364.96	1430320.54	3930685.5	2029479.48	1686121.75	3715601.23	737755.49	1683243.99	2420999.48	10067286.210
	Amount	64948566	36709380.00	101657946	53185997	44125099	97311096	19860584	44907280	64767864	263736906.000
	GCV	9200.084	9117.537	9170.046	9391.486	9369.25	9381.395	9405.899	9410.19	9408.882	9305.486
Spot	Quantity	73887.67	0	73887.67	0	0	0	0	0	0	73887.670
	Amount	2610629	0	2610629	0	0	0	0	0	0	2610629.000
	GCV	9092.432	0	9092.432	0	0	0.000	0	0	0.000	9092.432
Total	Quantity	12280593	11961557.01	23800438.38	12229051	10426099	22655150	7682364	11193925.4	18876289.4	65331877.810
	Amount	190100223	170971002	352795485	152838851	127211122	280049973	86963030	136467997	223431027	856276485.000
	GCV	9185.229	9116.737	9152.022	9379.384	9371.497	9375.755	9407.395	9400.230	9403.146	9302.163
	Average Rate	15.480	14.293	14.823	12.498	12.201	12.361	11.320	12.191	11.837	13.107

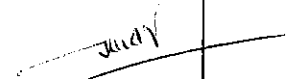
6mm


TARIFF FILING FORMS (GENERATING STATIONS) FOR DETERMINATION OF TARIFF				PART-I
Check List of Forms and other information/documents for tariff filing for Generating Stations				
S No.	Form No.	Title of Tariff Filing Forms (Thermal)	Tick	
1	Form-1	Summary Sheet	✓	
2	Form-1(I)	Statement Showing Claimed Capital Cost	✓	
3	Form-1(II)	Statement Showing Return on Equity	✓	
4	Form-2	Plant Characteristics	✓	
5	Form-3	Normative Parameters Considered for tariff Computations	✓	
6	Form-4	Details of Foreign Loans	N/A	
7	Form-4A	Details of Foreign Equity	N/A	
8	Form-5	Abstract of Admitted Capital cost for the existing Projects	✓	
9	Form-5A	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New projects	N/A	
10	Form-5B	Break-up of Capital Cost for Coal/Lignite based Projects	N/A	
11	Form-5C	Break-up of Capital cost for Gas / Liquid fuel based Projects	N/A	
12	Form-5D	Break-up of Construction / Supply / Service / packages	N/A	
13	Form-5E	Details of variables, parameters, optional package etc. for New Project	N/A	
14	Form-5Ei	In case there is cost over run	N/A	
15	Form-5Eii	In case there is time over run	N/A	
16	Form-6	Financial Package upto COD	N/A	
17	Form-7	Details of Project Specific Loans	N/A	
18	Form-8	Details of Allocation of Corporate loans to various projects	N/A	
19	Form-9A	Statement of Additional Capitalization after COD	N/A	
20	Form-9B	Statement of Additional Capitalization during lag end of the useful life of Project	N/A	
21	Form-9Bi	Details of Assets De-capitalised during the period	✓	
22	Form-9C	Statement showing reconciliation of ACE claimed with capital additions as per books	✓	
23	Form-9D	Statement of Capital cost	✓	
24	Form-9E	Statement of Capital Works in progress	N/A	
25	Form-10	Financing of Additional Capitalization	N/A	
26	Form-11	Calculation of Depreciation	✓	
27	Form-12	Statement of Depreciation	✓	
28	Form-13	Calculation of Weighted Average Rate of Interest on Actual Loans	✓	
29	Form-13A	Calculation of Interest on Normative Loans	✓	
30	Form-13B	Calculation of Interest on working capital	✓	
31	Form-13C	Other Income as on COD	N/A	
32	Form-13D	Incidental expenditure during Construction upto Scheduled COD and upto Actual COD	N/A	
33	Form-13E	Expenditure under different packages upto Scheduled COD and up to Actual COD	N/A	
34	Form-14	Draw Down Schedule for Calculation of IDC & Financing Charges	N/A	
35	Form-14A	Actual Cash Expenditure	N/A	
36	Form-15	Details/ Information to be submitted in respect of Fuel for Computation of Energy Charges	✓	
37	Form-16	Details / information to be Submitted in respect of Capital Spares	N/A	
38	Form-17	Liability Flow Statement	N/A	
39	Form-18	Employee Expenses	✓	
40	Form-18 (a)	Employee Strength	✓	
41	Form-19	A & G Expenses	✓	
42	Form-19 (a)	Legal Expenses	✓	
43	Form-20	R & M Expenses	✓	
44	Form-21	Variable Charges for Gas Power Plant	✓	
Other Information / Documents				
Sl.No.	Information / Document			Tick
1	Certificate of Incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association (For new Station setup by a Company making tariff application for the first time to CERC			
2	A. Stationwise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexure on COD of the Station for the new station & for the relevant years. B. Stationwise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures for the existing stations for the relevant years.			
3	Copies of relevant loan Agreements			
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package			
5	Copies of the Equity participation agreements and necessary approval for the foreign equity			
6	Copies of the BPSA/PPA with the beneficiaries, if any			
7	Detailed note giving reasons of time and cost over run, if applicable. List of supporting documents to be submitted: a. Detailed Project Report b. CPM Analysis c. PERT Chart and BAR Chart			
8	Generating company shall submit copy of cost audit report along with cost accounting records, cost detailed, statements, schedules etc. for the generating units wise / stage wise / station wise and subsequently consolidated at company level as submitted to the Govt. of India for first two years i.e. 2014-15 and 2015-16 at the time of mid term true-up in 2016-17 and for balance period of tariff period 2014-19 at the time of final true-up in 2019-20. In case of initial tariff filing the latest cost audit report should be furnished.			
9	Any other relevant information (please specify)			
10	Reconciliation with balance-sheet of any actual additional capitalisation and amongst stages of a generating station.			
	Note1: Electronic copy of the petition (in words format) and detailed calculation as per these formats (in excel format) and any other information submitted shall also be furnished in the form of CD/ Floppy disc			

1000


Summary Sheet

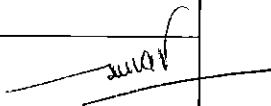
Name of the Petitioner			Pragati Power Corporation Limited	
Name of the Generating Station			Pragati Power Station - I	
Place (Region / District / State):			Delhi	
S.No.	Particulars	Unit	2017-18	2019-20
1	2	3	4	5
1.1	Depreciation	Rs. Crore	13.63	14.44
1.2	Interest on Loan	Rs. Crore	-	0.23
1.3	Return on Equity ¹	Rs. Crore	56.09	56.37
1.4	Interest on Working Capital	Rs. Crore	33.01	52.28
1.5	O & M Expenses(Actual)	Rs. Crore	61.44	65.11
1.7	Compensation allowance (if applicable)	Rs. Crore	0.000	0.000
1.8	Special allowance (if applicable)	Rs. Crore	16.12	0.000
	Total	Rs. Crore	180.30	188.45
2.1	Landed Fuel Cost (Domestic Gas: APM+PMT+NAPM)	Rs./SCM	9.831	11.545
	(%) of Fuel quantity	(%)	53	51
2.2	Landed fuel cost (Imported Gas: RLNG+SPOT	Rs./SCM	26.597	36.981
	(%) of Fuel quantity	(%)	47	49
2.3	Secondary Fuel Oil Cost	Rs./Unit	0	0
	Energy charges Rate ex-bus (paise/Kwh) from Natural Gas (Combined Cycle)	Rs./Unit	3.79	5.25
	Energy charges Rate ex-bus (paise/Kwh) from Natural Gas (Open Cycle)	Rs./Unit	5.99	7.62
<div style="text-align: right;">  Petitioner </div>				

Form-1(I)				
Statement Showing Claimed Capital Cost				
Name of the Petitioner		Pragati Power Corporation Limited		
Name of the Generating Station		Pragati Power Station - I		
Place (Region / District / State):		Delhi		
(Rs in Crore)				
Sl. No.	Particulars	2017-18	2018-19	2019-20
1	2	3	4	5
A	Opening Capital Cost	1050.38	1050.38	1052.38
B	Add: Addition during the year/ period	0.00	2.00	1.92
C	Less: Decapitalization during the year / Period	0.00	0.00	0.00
D	Less: Liability Reversal during the year /period	0.00	0.00	0.00
E	Add: Discharges during the year/ period	0.00	0.00	0.00
F	Closing Capital Cost	1050.38	1052.38	1054.30
G	Average Capital Cost	1050.38	1051.38	1053.34
<div style="text-align: right;">  Petitioner </div>				

FORM-1(II)			
Statement Showing Return on Equity			
Name of the Company		Pragati Power Corporation Limited	
Name of the Power Station		Pragati Power Station- I	
Place (Region / District / State):		Delhi	
(Rs in Crore)			
Sl. No.	Particulars	2017-18	2019-20
1	2	3	4
A	Opening Equity	315.11	315.71
B	Addl: Increase due to Addition during the year/ period	0	0.576
C	Less: Decrease due to Decapitalization during the year / Period	0.00	0.00
D	Less: Decrease due to reversal during the year /period	0.00	0.00
E	Add: Increase due to Discharges during the year/ period	0.00	0.00
F	Closing Equity	315.11	316.29
G	AverageEquity	315.11	316.00
H	Rate of RoE	17.80%	17.84%
I	Return of Equity	56.09	56.37
Assumption: MAT @ 21.34% for FY 2017-18 and @ 21.54% for FY 2019-20			
<div style="text-align: right;">  Petitioner </div>			

FORM-2			
Plant Characteristics			
Name of the Petitioner	Pragati Power Corporation Limited		
Name of the Generating Station	Pragati Power Station - I		
Place (Region / District / State):	Delhi		
Units(s)/ Block(s) Parameters	GT-I	GT-II	STG
Installed Capacity (MW)	104	104	122
Schedule COD as per Investment Approval			
Actual COD/ Date of taken Over (as applicable)	02.07.02	03.12.02	15.05.03
Pit Head or Non pit Head	Not Applicable		
Name of the Boiler Manufacture			BHEL, Trichy
Name of Turbine Generator Manufacture			BHEL
Main Steams pressure at Turbine inlet (kg/Cm ²) ^{abs} 1	NA		HP/LP 71.38/5.14
Main Steam temperature at Turbine inlet (°C) ¹	NA	NA	518.3/198.6
Reheat Steam Pressure at turbine Inlet (kg/Cm ²) ¹			NA
Reheat Steam temperature at Turbine inlet (°C) ¹			NA
Main Steam flow at Turbine inlet under MCR condition (tons/hr) ²			180.2/37.1
Main Steam flow at Turbine inlet under VWO condition (tons/hr) ²			NA
Unit Gross electrical output under MCR/Rated condition (MW) ²			121.189
Unit Gross electrical output under VWO condition (MW) ²			128.671
Guaranteed design Gross Turbine Cusle Heat Rate (kCal/kWh) ³	2986	2986	1939 (CC)
Condition on which design turbine cycle heat rate guaranteed			
%MCR	NA	NA	100
% Makeup Water Consumption	NA	NA	0
Design Capacity of Make up water system			
Design Capacity of inlet cooling system			
Design Cooling Water Temperature (°C)	NA	NA	33
Back Pressure	NA	NA	0.101
Steam Flow at super heater outlet under BMCR condition (tons/hr)			201.5/40.6
Steam pressure at super heater outlet under BMCR condition (kg/cm ²)			85.39/6.45
Steam Temperature at super heater outlet under BMCR condition (°C)			520/205
Steam Temperature at Reheater outlet at BMCR condion (°C)			NA
Design/ Guaranteed Boiler Efficiency (%) ⁴			
Design fuel specification for guaranteed parameters (%)	Dual Fuel	Dual Fuel	waste heat
Type of cooling Tower	NA	NA	Induced
Type of cooling System ⁵	NA	NA	IDC
Type of Boiler feed pump ⁶	NA	NA	Motor Driven
Fuel Details ⁷			
-Primary Fuel	NG	NG	waste heat
-Secondary Fuel	Not Applicable		
-Alternate Fuels	Not Applicable		
Special Features /Site Speicfic Features ⁸	Not Applicable		
Special Technological Features ⁹	Gas turbines fitted with DLN combustors		
Environmenalt Regulation related features ¹⁰	Sewage Treated water used		
Any Other Special fatures	Not Applicable		
1: At Turbine MCR condition.			
2: with 0%(Nil) make up and design Cooling water temperature.			
3: at TMCR output based on gross generation, 0%(nil) make up and design cooling tower water temperature.			
4: With Performance coal based on Higher Heating Value (HHV) of fuel and at MBCR output.			
5: Closed Circuit cooling, once through cooling, sea cooling, natural draft cooling, induced draft cooling etc.			
6: Motor driven, Steam turbine driven etc.			

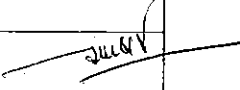
7: Coal or natural gas or Naphtha or lignite etc.
8: Any site specific feature such as Merry-Go-Round, Vicinity to sea, Intake/ makeup water systems etc. scrubbers etc. Specify all such features
9: any special Technological fature like Advanced class FA technology in Gas Turbines, etc.
10: Environmental Regulation related features like FGD, ESP etc.,
Note-1: In case of deviation from specified conditions in regulation, correction curve of manufacturer may also be submitted.
Note-2: Heat Balance Diagram has to be submitted along with above information in case of new stations.
Note-3: The terms- MCR,BMCR,HHV, Performance coal, are as defined in CEA technical standards for construction of Electric Plants and electric lines Regulations-2010 notified by the Entral electricity authority.
Note-4: The copy of certificate shall be submiited
<div style="text-align: right;">  Petitioner </div>

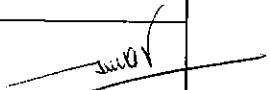
FORM- 3			
Normative Parameters considered for Tariff Computations			
Name of the Petitioner		Pragati Power Corporation Limited	
Name of the Generating Station		Pragati Power Station- I	
Place (Region / District / State):		Delhi	
Particulars	Unit	2017-18	2019-20
1	2	3	4
Base Rate of Return on Equity	%	14.00	14.00
Effective Tax Rate ⁴	%	21.34	21.54
Target Availability	%	85%	85%
Auxiliary Energy Consumption (CC)	%	2.5%	2.5%
Gross Station Heat Rate	kCal/kWh	2000	2000
Specific Fuel Oil Consumption	ml/kWh	NA	NA
Cost of Coal/ Lignite for WC ¹	in Months	NA	NA
Cost of Main Secondary Fuel Oil for WC ¹	in Months	NA	NA
Fuel Cost for WC ²	in Months	1	1
Liquid Fuel Stock for WC ²	in Months	NA	NA
O&M Expenses	Rs. in lakh/MW	17.69	19.73
Maintenance Spares for WC	% of O&M	30	30
Receivables for WC	in Months	2	2
Storage capacity of Primary fuel	MT	NA	NA
SBI Base Rate plus MCLR Margin 2.98%	%	10.98%	11.23%
Blending ratio of domestic coal/ imported coal		NA	NA
¹ For Coal / Lignite based generating stations			
² For Gas Turbine/ Combined Cycle generating stations duly taking into account the mode of operation on gas fuel and liquid fuel.			
³ Mention relevant date			
⁴ Effective tax rate is to be computed in accordance with Regulation 25 i.e. actual tax(or advance tax)/ gross income, where gross income refers the profit before tax.			
		 Petitioner	


Abstract of Admitted Capital Cost for the existing Projects

Name of the Petitioner		Pragati Power Corporation Limited
Name of the Generating Station		Pragati Power Station- I
Place (Region / District / State):		Delhi
Last date of order of Commission for the project	Date (DD-MM-YYYY)	31.08.2017
Reference of petition no. in which the above order was passed	Petition No.	16/2017
Following details (whether admitted and/ or considered) as on the last date of the period for which tariff is approved, in the above order by the Commission:		
Capital cost	(Rs. in Crore)	1050.38
Amount of un-discharged liabilities included in above (& forming part of admitted capital cost)		
Amount of un-discharged liabilities corresponding to above admitted capital cost (but not forming part of admitted capital cost being allowed on cash basis)		
Gross normative debt		
Cumulative Repayment		
Net Normative debt		
Cumulative depreciation		795.39
Freehold land		

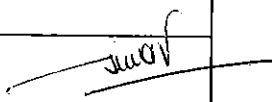

 Petitioner

FORM-9B1					
Details of assets De-capitalised during the period					
Name of the Petitioner				Pragati Power Corporation Limited	
Name of the Generating Station				Pragati Power Station - I	
COD					
S. No.	Name of the Asset	Nature of De-capitalisation (whether claimed under exclusion or as additional capital expenditure)	Original value of the asset capitalised in Rs.	Year Put to use	Depreciation recovered till date of De-capitalization in Rs.
1	2	3	4	5	6
1	TX,ELECTRICAL POS,2133350850001	Capital Spares	1,51,363.00	01-04-2012	86,891.03
2	IGNITION TFR,354A1709P002,GT,GE,FR 9E	Capital Spares	5,48,368.48	11-04-2016	54,836.85
3	GEAR BOX,11.18:1,PHARPUR,SERIES 32.2	Capital Spares	8,69,615.67	19-12-2016	86,961.57
4	GEAR INTERNAL,1485/3827,GB,WALCHANDNAGAR	Capital Spares	11,34,000.00	04-11-2017	6,300.00
5	MOD,POSITION MEASUREMENT,APMAA,DDC	Capital Spares	2,31,870.60	09-02-2013	1,40,882.25
6	MOD,DISPLACEMENT MEASURE TX,AMDAA,DDC	Capital Spares	2,02,757.83	09-02-2013	1,17,799.44
7	VALVE,PNEU,MULLER,VSV-F100,0-40BAR	Capital Spares	6,21,302.61	30-11-2016	93,195.39
8	BATTERY BANK,NI-CD,96,125V,990AH	Capital Spares	41,00,000.00	08-03-2018	22,777.78
NOTE: Yearwise detail need to be submitted.					
					 (Petitioner)

FORM-9C			
Statement showing reconciliation of ACE claimed with the capital additions as per books			
Name of the Petitioner: Pragati Power Corporation Limited			
Name of the Generating Station: Pragati Power Station - I			
		(Rs in Crore)	
S.No.	Particulars	2017-18	2019-20
1	2	4	6
	Closing Gross Block	1050.38	1054.3
	Less: Opening Gross Block	1050.38	1052.38
	Total additions as per books	0	1.92
	Less: Additions pertaining to other stages (give stagewise break-up)	0	0
	Net additions pertaining to instant project / unit / stage	0	0
	Less: Exclusions (items not allowable / not claimed)	0	0
	Net Additional Capital Expenditure claimed	0	1.92
NOTE : Reason for exclusion of any expenditure shall be given in clear terms.			
<div style="text-align: right;">  (Petitioner) </div>			

FORM-9D			
Name of the Petitioner			
Name of the Generating Station			
Place (Region / District / State):			
Statement of Capital Cost			
(To be given for relevant dates and year wise)			
(Amount in Rs.Crore)			
S.No.	Particulars	2017-18	2019-20
A	a) Opening Gross Block Amount as per books	1050.38	1052.38
	b) Amount of Capital liabilities in A(a) above	0	0
	c) Amount of IDC in A(a) above	0	0
	d) Amount of FC in A(a) above	0	0
	e) Amount of FERV in A(a) above	0	0
	f) Amount of Hedging cost in A(a) above	0	0
	g) Amount of IEDC in A(a) above	0	0
B	a) Addition in Gross Block amount during the period (Direct purchases)	0	1.92
	b) Amount of Capital liabilities in B(a) above	0	0
	c) Amount of IDC in B(a) above	0	0
	d) Amount of FC in B(a) above	0	0
	e) Amount of FERV in B(a) above	0	0
	f) Amount of Hedging cost in B(a) above	0	0
	g) Amount of IEDC in B(a) above	0	0
C	a) Addition in Gross Block amount during the period (Transferred from CWIP)	0	0
	b) Amount of Capital liabilities in C(a) above	0	0
	c) Amount of IDC in C(a) above	0	0
	d) Amount of FC in C(a) above	0	0
	e) Amount of FERV in C(a) above	0	0
	f) Amount of Hedging cost in C(a) above	0	0
	g) Amount of IEDC in C(a) above	0	0
D	a) Deletion in Gross Block amount during the period	0	0
	b) Amount of Capital liabilities in D(a) above	0	0
	c) Amount of IDC in D(a) above	0	0
	d) Amount of FC in D(a) above	0	0
	e) Amount of FERV in D(a) above	0	0
	f) Amount of Hedging cost in D(a) above	0	0
	g) Amount of IEDC in D(a) above	0	0
E	a) Closing Gross Block amount as per books	1050.38	1054.3
	b) Amount of Capital liabilities in E(a) above	0	0
	c) Amount of IDC in E(a) above	0	0
	d) Amount of FC in E(a) above	0	0
	e) Amount of FERV in E(a) above	0	0
	f) Amount of Hedging cost in E(a) above	0	0
	g) Amount of IEDC in E(a) above	0	0
Note:			
1. Relevant date/s means date of COD of unit/s/station and financial year start date			
		 (Petitioner)	

Calculation of Depreciation

Name of the Petitioner		Pragati Power Corporation Limited		
Name of the Generating Station		Pragati Power Station - I		
		FY 17-18		(Amount in Rs. Crore)
Sl. No.	Name of the Assets ¹	Gross Block as on 31 st March of the previous control period or as on COD, whichever is later and subsequently for each year thereafter	Depreciation rate as per DERC'S Depreciation rate schedule	Depreciation amount for Each year
	1	2	3	4= Col. 2X Col. 3
1	land*			
2	Building			
3	and so on			
4				
5				
Total		1,050.38	1.29%	13.63
Weighted Average Rate of Depreciation (%)				
* Provide details of freehold land and lease hold land separately				
¹ Name of the Assets should conform to the description of the assets mentioned in Depreciation Schedule appended to the Notification				
 (Petitioner)				

Statement of Depreciation

Name of the Petitioner: Pragati Power Corporation Limited

Name of the Generating Station: Pragati Power Station - I


Place (Region / District / State): Delhi

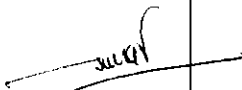
(Rs in Crore)

Sl. No.	Particulars	2017-18	2018-19	2019-20
1	2	3		4
	Depreciation on Capital Cost			
A	Opening Capital Cost	1050.38	1050.38	1052.38
B	Closing Capital Cost	1050.38	1052.38	1064.83
C	Average Capital Cost	1050.38	1051.38	1058.605
E	Freehold land			
F	Rate of depreciation	1.30%	1.31%	1.36%
G	Depreciable Value@90%	945.342	946.242	952.7445
H	Balance useful life at the beginning of the period	11	10	9
I	Remaining depreciable value	149.95	137.22	130.00
J	Depreciation (for the period)	13.63	13.72	14.44
K	Depreciation (annualised)	13.63	13.72	14.44
L	Cumulative depreciation at the end of the period	795.39	809.02	822.74
M	Less: Cumulative depreciation adjustment on account of un-discharged liabilities deducyed as on 31st, March of the previous control period/ Station COD	0		0
N	Less: Cumulative depreciation adjustment on account of de-capitalisation	0		0
O	Net Cumulative depreciation at the end of the period	809.02	822.74	837.19


 Petitioner

FORM-13		
Calculation of Weighted Average Rate of Interest on Actual Loans ¹		
Name of the Petitioner	Pragati Power Corporation Limited	
Name of the Generating Station	Pragati Power Station - I	
Place (Region / District / State):		
		(Amount in Lakh)
Particulars	2017-18	2019-20
Loan-1		
Gross loan- Opening		
Cumulative repayments of Loans upto previous year		
Net Loan- Opening		
Add: Drawal(s) during the year		
Less: Repayment(s) of Loans during the year		
Net Loan- Closing		
Average Net Loan		
Rate of Interest on Loan on annual basis		
Interest on loan		
Total Loan		
Gross loan- Opening		
Cumulative repayments of Loans upto previous year		
Net Loan- Opening		
Add: Drawal(s) during the year		
Less: Repayment(s) of Loans during the year		
Net Loan- Closing		
Average Net Loan		
Rate of Interest on Loan on annual basis		
Interest on loan		
GNCTD Loan No. 2		
Gross loan- Opening		
Cumulative repayments of Loans upto previous year		
Net Loan- Opening		
Add: Drawal(s) during the year		
Less: Repayment(s) of Loans during the year		
Net Loan- Closing		
Rate of Interest on Loan on annual basis		
Interest on loan		
GNCTD Loan No. 3		
Gross loan- Opening		
Cumulative repayments of Loans upto previous year		
Net Loan- Opening		
Add: Drawal(s) during the year		
Less: Repayment(s) of Loans during the year		
Net Loan- Closing		

Rate of Interest on Loan on annual basis	
Interest on loan	
GNCTD Loan No. 4	
Gross loan- Opening	
Cumulative repayments of Loans upto previous year	
Net Loan- Opening	
Add: Drawal(s) during the year	
Less: Repayment(s) of Loans during the year	
Net Loan- Closing	
Rate of Interest on Loan on annual basis	
Interest on loan	
GNCTD Loan No. 5	
Gross loan- Opening	
Cumulative repayments of Loans upto previous year	
Net Loan- Opening	
Add: Drawal(s) during the year	
Less: Repayment(s) of Loans during the year	
Net Loan- Closing	
Rate of Interest on Loan on annual basis	
Interest on loan	
GNCTD Loan No. 6	
Gross loan- Opening	
Cumulative repayments of Loans upto previous year	
Net Loan- Opening	
Add: Drawal(s) during the year	
Less: Repayment(s) of Loans during the year	
Net Loan- Closing	
Rate of Interest on Loan on annual basis	
Interest on loan	
Weighted average Rate of Interest on Loans	
¹ In case of Foreign Loans, the calculations in Indian Rupees is to be furnished. However, the calculations in original currency is also to be furnished separately in the same form.	
<div style="text-align: right;">  (Petitioner) </div>	

FORM-13A			
Calculation of Interest on Normative Loan			
Name of the Petitioner	Pragati Power Corporation Limited		
Name of the Generating Station	Pragati Power Station - I		
Place (Region / District / State):	Delhi		
Particulars	2017-18	2018-19	2019-20
1	4		6
	(Rs in Crore)		
Gross Normative Loan -Opening	0.00	0.00	1.40
Cumulative repayment of Normative Loan upto previous year	0.00	0.00	0.00
Net Normative Loan- Opening	0.00	0.00	1.40
Add: Increase due to addition during the Year/ Period	0.00	1.40	1.34
Less: Decrease due to De- Capitalisation during the Year/ Period	0.00	0.00	0
Less: Decrease due to Reversal during the Year/ Period	0	0	0
Add: Increase due to discharge during the Year/ Period	0	0	0
Less: Repayment(s) of Loans during the year	-	-	-
Net Normative Loan- Closing	0.00	1.40	2.74
Average Normative Loan	0.00	0.70	2.07
Weighted Average rate of interest	10.98%	11.13%	11.23%
Interest on Loan	0.00	0.08	0.23
 (Petitioner)			

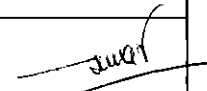
Calculation of Interest on Working Capital

	Name of the Petitioner	Pragati Power Corporation Limited	
	Name of the Generating Station	Pragati Power Station - I	
	Place (Region / District / State):	Delhi	
		(Rs in Crore)	
Sl. No.	Particulars	2017-18	2019-20
1	2	3	4
1	Cost of Coal/ Lignite ¹	N/A	N/A
2	Cost of Main Secondary Fuel Oil ¹	N/A	N/A
3	Fuel cost for 1 month ²	57.70	105.72
4	Liquid Fuel Stock ²	N/A	N/A
5	O&M Expenses for 1 month	7.20	5.43
6	Maintenance Spares @ 30% of O&M expenses	25.92	19.53
7	Receivables for 2 months	144.99	242.78
8A	Total Working Capital	235.81	373.46
9	Rate of interest*	14.00%	14.00%
13	Interest on working capital	33.01	52.28

¹ For Coal based / Lignite based generating station.

² For Gas Turbine/ Combined Cycle generating stations duly taking into account the annual mode of operation (last available) on gas fuel and liquid fuel.

* Since there is no outstanding loan, therefore as per DERC business plan regulation 2017 clause 5, the interest on working capital has been taken @ 14.00%


(Petitioner)

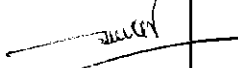
Details/ Information to be Submitted in respect of Fuel for computation of Energy Charges¹

Name of the Petitioner		Pragati Power Corporation Limited		
Name of the Generating Station		Pragati Power Station - I		
Sl. No	Months	Units	April-17 to Mar-18	
			Domestic	Imported
1	Quantity of Gas supplied by Gas Company*	(Million SCM)	219761.75	191074.68
2	Adjustment (+/-) in quantity supplied by Gas Company	(Million SCM)	0	0
3	Gas Supplied by Gas Company (1+2)	(Million SCM)	219761.75	191074.68
4	Normative Transit & Handling Losses	(Million SCM)	0	0
5	Net Gas Supplied (3-4)	(Million SCM)	219761.75	191074.68
6	Amount charged by Gas Company	(Rs.)	9.83	26.60
7	Adjustment (+/-) in amount charged by Gas Company	(Rs.)	0.00	0.00
8	Total Amount charged (6+7)	(Rs.)	9.83	26.60
9	Transportation Charges by rail/ship/road/gas pipeline	(Rs.)		
10	Adjustment (+/-) in amount charged made by Transport Company	(Rs.)		
11	Demurrage / Imbalance/ Ship or Pay Charges, if any	(Rs.)		
12	Cost of diesel in transporting coal through MGR system, if applicable	(Rs.)		
13	Total Transportation Charges (9+/- 10-11+12)	(Rs.)		
14	Total Amount charged for gas supplied including Transportation (8+13)	(Rs.)		
15	Landed cost of Coal/Lignite/Gas	Rs./SCM	17.628	
16	Blending Ratio (Domestic/ Imported)			
17	Weighted average cost of coal/Lignite for preceding three months	Rs./SCM		
18	GCV of domestic coal/Gas as per bill of Company	Kcal/SCM		
19	GCV of Imported coal/Gas as per bill of Company	Kcal/SCM		
20	Weighted average GCV of coal/Lignite/GAS as Billed	Kcal/SCM	9388.984	
21	GCV of domestic coal/Gas received at Station	Kcal/SCM		
22	GCV of Imported coal/Gas received at Station	Kcal/SCM		
23	Weighted average GCV of coal/Lignite/GAS as received	Kcal/SCM		

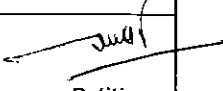
1 Similar details to be furnished for natural gas / liquid fuel for CCGT station and secondary fuel oil for coal/ lignite based thermal plants with appropriate units.

2 As billed and as received GCV, quantity of coal, and price should be submitted as certified by statutory auditor


(Petitioner)

FORM-18		
Employee Expenses		
Name of the Petitioner: Pragati Power Corporation Limited		
Name of the Generating Station: Pragati Power Station - I		
Sl. No.	Particulars	2017-18 (Rs in crore)
1	Salaries	30.02
2	Additional Pay	
3	Dearness Allowance (DA)	
4	Other Allowances & Relief	
5	Addl. Pay & C.Off Encashment	
6	Interim Relief / Wage Revision	
7	Honorarium/Overtime	
8	Bonus/ Exgratia To Employees	
9	Medical Expenses Reimbursement	
10	Travelling Allowance(Conveyance Allowance)	
11	Leave Travel Assistance	
12	Earned Leave Encashment	
13	Payment Under Workman's Compensation And Gratuity	
14	Subsidised Electricity To Employees	
15	Any Other Item	
16	Staff Welfare Expenses	
17	Apprentice And Other Training Expenses	
18	Contribution To Terminal Benefits	
19	Provident Fund Contribution	
20	Provision for PF Fund	
21	Any Other Items	
	Total Employee Costs	30.02
22	Less: Employee expenses capitalised	-
	Net Employee expenses (D)-(E)	30.02
		 (Petitioner)

Employee Strength

Name of the Petitioner		Pragati Power Corporation Limited					
Name of the Generating Station		Pragati Power Station - I					
	Particulars	Opening Balance	Retired/Deaths	Addition	Transfer	Closing Balance	Reconciliation with Audited Accounts of the year (Please mention Exact Note/Schedule for the Audited Accounts), if available
A	FRSR	101	5	71	7	160	
B	Non-FRSR	33		23	2	54	
							 Petitioner

A & G Expenses

Name of the Company : Pragati Power Corporation Limited

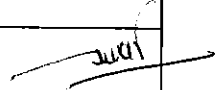
Name of the Power Station: Pragati Power Station - I

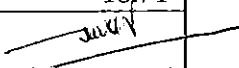
Sl. No.	Particulars	2017-18 (Rs in crore)
1	Lease/ Rent	
2	Insurance	3.36
3	Revenue Stamp Expenses Account	
4	Telephone, Postage, Telegram & Telex Charges	
5	Incentive & Award To Employees/Outsiders	
6	Consultancy Charges	
7	Technical Fees	
8	Other Professional Charges	
9	Conveyance And Travelling	
10	License and Registration Fees	
11	Vehicle Expenses	
12	Security / Service Charges Paid To Outside Agencies	9.18
13	Fee And Subscriptions Books And Periodicals	
14	Printing And Stationery	
15	Advertisement Expenses	
16	Contributions/Donations To Outside Institutes / Associations	
17	Electricity Charges To Offices	
18	Water Charges	
19	Entertainment Charges	
20	Miscellaneous Expenses	3.18
21	Legal Charges	
22	Auditor's Fee	
23	Freight On Capital Equipments	
24	Purchase Related Advertisement Expenses	
25	Vehicle Running Expenses Truck / Delivery Van	
26	Vehicle Hiring Expenses Truck / Delivery Van	
27	Other Freight	
28	Transit Insurance	
29	Octroi	
30	Incidental Stores Expenses	
31	Fabrication Charges	
	Total A&G Expenes	15.72
	Less: A&G Expenses Capitalised	0
	Total A&G Expenes	15.72


 Petitioner

Legal Expenses

Name of the Petitioner		Pragati Power Corporation Limited				
Name of the Generating Station		Pragati Power Station - I				
S. No.	Particulars	Case No.	Matter	Fees Per Hearing in Rupees	Total Fees in Rupees	
A)	Cases other than 142 before					Reconciliation with Audited Accounts of the year (Please mention Exact Note/Schedule for the Audited Accounts), if available
1	DERC	Review petition no. 60 of 2017	Against DERC tariff order dt. 31.08.2017 (filed by IPGCL Vs DERC & Ors)	30000	81036	
2	APTEL	APPEAL No. 93 of 2016	Against DERC order dt. 29.09.2015 (filed by BRPL Vs DERC & Ors)	30000	66000	
3	APTEL	APPEAL No. 288 of 2015	Against DERC order dt. 29.09.2015 (filed by IPGCL Vs DERC & Ors)	30000	61275	
4	Supreme Court	Contempt petition Nos. 59 & 83 of 2015	Filed by IPGCL & PPCL in writ petition No. 104 & 105 of 2014 (BRPL & BYPL Vs UOI & ORS)		1226500	
5	Others				0	
B)	Cases under 142					


 Petitioner

FORM-20		
R & M Expenses		
Name of the Petitioner: Pragati Power Corporation Limited		
Name of the Generating Station: Pragati Power Station - I		
Sl. No.	Particulars	2017-18 (Rs in Crore)
1	Plant and Machinery	2.36
2	Building	0.48
3	Civil Works	
4	Hydraulic Works	
5	Lines, Cables Net Works etc.	
6	Vehicles	
7	Furniture and Fixtures	
8	Office Equipments	
9	Station Supplies (STP Expenditure)	4.34
10	DLN Burners	7.55
11	Other Credits to R&M Charges	0.98
12	Others*	
	Total	15.71
13	Any other items (Capitalisation)	-
	Total	15.71
		 (Petitioner)

Variable charges for Gas power Plant

Name of the Petitioner: Pragati Power Corporation Limited

Name of the Generating Station: Pragati Power Station - I

Particulars	UoM	Plant	Combined Cycle	Open Cycle
Description	MW	330	330	208
GHR claimed By PPS-I	Kcal/kWh	1973	1969	3176
Target Availability claimed	%	85	85	85
Time of operation	Days	365	365	365
Gross Generation	MU	1954.999	1948.011	6.99
Auxilliary Consumption	%	2.385	2.385	0.5
Net Generation	MU	1908.364	1901.543	6.953
Total Gross Heat value required	Kcal	3857336307202.63	3835141548446.15	22194758756.48
Gross Heat Obtained from KG Basin Gas	MMBTU/day-GCV			
1 MMBTU	Kcal			
Total Gas Required	SCM	410836435.3	408472520.2	2363915.107
Gross Heat Obtained from KG Basin Gas for the period	Kcal	2063339372356.18		
Gross Calorific value of Gas (Assumed)	Kcal/SCM	9388.983	9388.983	9388.983
Volume of KG Basin Gas (APM+PMT+NAPM)	SCM	219761754		
Balance Heat Required from RLNG	Kcal	1793996828360.61		
Gross Calorific value of RLNG (Assumed)	Kcal/SCM	9388.983	9388.983	9388.983
Quantity of RLNG required (RLNG+SPOT-RLNG)	SCM	191074670		
Price of KG Basin Gas	Rs./MMBTU-GCV			
Price of KG Basin Gas	Rs./SCM	9.831	9.831	9.831
Price of RLNG	Rs./MMBTU-GCV			
Price of RLNG	Rs./SCM	26.597	26.597	26.597
KG Basis Gas Landed Cost	Rs. Crores	216.048		
RLNG Landed Cost	Rs. Crores	508.201		
Avg. Landed Cost of Total Gas	Rs./SCM	17.628	17.628	17.628
Total Fuel Cost	Rs. Crores	724.222	720.055	4.167
Monthly Fuel Cost	Rs. Crores	60.352	60.005	0.347
Energy Charge rate on Ex-basis	Rs./Unit	3.795	3.787	5.993
Net Generation from KG Basin Gas	Mus			
Net Generation from RLNGs	MUs			
Energy Charge Rate on Ex-bus basis from KG Basin Gas	Rs./Unit	2.116	2.112	3.342
Energy Charge Rate on Ex-bus basis from RLNG	Rs./Unit	5.726	5.713	9.042

(Petitioner)