

## 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)

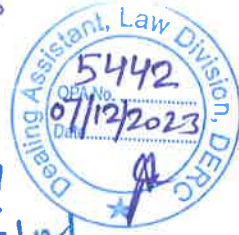
No. PPCL/Comml./F.12/136

To, Secretary

Dt. 07.12.2023

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

1+5 sets  
DD B 100000/-  
DD No 851225



ED/Law

07/12/23

Subject: Filing of Tariff Petition under section 62 of the Electricity Act, 2003 for truing up of tariff for FY 2022-23 and determination of tariff & ARR for FY 2024-25 for PPS-I Station.

Ref: DERC letter No. F.3(730)/Tariff/DERC/2023-24/7911/1842 dt 14.11.2023.

Sir,

Day 17/12/2023  
JD(Law) @ 08/11/23  
DD(Law)

Please find enclosed herewith the petition for truing up of tariff for FY 2022-23 and ARR for FY 2024-25 of PPS-I station (six sets).

The filing fees of Rupees One Lakh vide Demand Draft No.851225 dated 06.12.2023 in favour of Secretary, DERC drawn on SBI, RPH for the said petition is also enclosed.

We shall be glad to provide any other information as may be desired by the Hon'ble Commission in reference to the petition enclosed.

Thanking you,

Yours faithfully,

Sahendra Singh  
07/12/2023

(Sahendra Singh)  
General Manager (Comml.)

Encl: As above

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

**Petition No:**

**IN THE MATTER** Filing of Tariff Petition under section 62 (2) of the  
**OF** Electricity Act, 2003 for truing up of tariff for FY  
2022-23 and determination of tariff & ARR for FY  
2024-25 of PPS-I Station.

**AND**

**IN THE MATTER** Pragati Power Corporation Limited  
**OF** Regd. Office "Himadri", Rajghat Power House Complex,  
New Delhi - 110002

**...PETITIONER**

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Filed by:



**Pragati Power Corporation Limited**

**PETITIONER**

**Place:** New Delhi

**Date:** 07.12.2023

Director (Tech.)  
Pragati Power Corporation Ltd.  
'Himadri', RPH Office Complex,  
Rajghat, New Delhi-110002



सत्यमेव जयते

## INDIA NON JUDICIAL

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Property Description	: Not Applicable
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Second Party	: Not Applicable
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**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 2022-23 and determination of tariff & ARR for FY 2024-25 of PPS-I Station.

**AND**

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

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### AFFIDAVIT VERIFYING DOCUMENTS/INFORMATION

I, Mukesh Kumar Sharma S/o Kanti Prasad Sharma aged about 59 years, Resident of Flat No. 97, Pocket-F, DDA SFS Flats, Seikh Sarai, Ph-1, New Delhi-110017, looking after the work of Director (Technical) in the Petitioner Company, do hereby solemnly affirm and state as follows:

1. That I am duly authorized by the petitioner company to make this affidavit on its behalf.
2. That the statements made in the petition are based on the provisional 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 therefrom.
3. That the Annexures are true copy of the Original.

### VERIFICATION

I, the deponent above-named, do hereby verify the contents of the above affidavit to be true to the best of my knowledge, no part of it is false and nothing material has been concealed therefrom.

Verified at New Delhi on this 7<sup>th</sup> day of December 2023.

ATTAS  
NOTARY



17 DEC 2023

**DEPONENT**  
Director (Tech.)  
Pragati Power Corporation Ltd.  
'Himadri', RPH Office Complex,  
Rajghat, New Delhi-110002

**DEPONENT**  
Director (Tech.)  
Pragati Power Corporation Ltd.  
'Himadri', RPH Office Complex,  
Rajghat, New Delhi-110002

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

**Petition No. :      of 2023**

**IN THE MATTER OF      Filing of tariff Petition under section 62 (2) of the Electricity Act, 2003 for truing up of expenses for FY 2022-23 and determination of ARR & Tariff for FY 2024-25 of PPS-I station.**

**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**

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## **Chapter 1 : Background**

This Chapter deals with the background of this Petition.

### **1.1 Introduction**

1. "Pragati Power Corporation Ltd." (PPCL) is a Generating Company engaged in the business of Power generation as per Companies Act, 1956 which now repealed by Companies Act, 2013 and is wholly owned by the Government of National Capital Territory of Delhi, which operates the Pragati Power Station-I with a total capacity of 330 MW and Pragati Power Station-III with a total capacity of 1371.2 MW CCGT plant at Bawana in Delhi. The tariff of PPS-III Bawana is determined by Hon'ble Central Electricity regulatory commission (CERC) as it supplies power in more than one state.
2. PPS-I was commissioned in the year 2002-03 in combined cycle to meet the peak load demand of Delhi and will complete its useful life in FY 2028-29. It consists of two gas turbines of 104 MW each, using NG/RLNG as fuel and one STG (Steam Turbines of 122 MW).
3. 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. 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.
4. As per section 61 of the Electricity Act, 2003 the appropriate Commission shall, subject to the provisions of this Act, specify the terms and conditions for the determination of tariff and as per section 62 of the Electricity Act, 2003 the appropriate Commission shall determine the tariff in accordance with the provisions of this act.



## **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 Brief of Submissions**

8. PPS-I proposes to make submissions to the Hon'ble Commission in support of this Petition as under:
  - \* Operational Parameters for Pragati Power Station-I
  - \* Financial Parameters for Pragati Power Station-I
  - \* Capital Expenditure for Pragati Power Station-I
  - \* Prayer
9. It is submitted that the norms for heat rate in open cycle mode as specified in the DERC Business Plan Regulation, 2019 were not achievable due to part load operation of the units, thus resulting in non optimization of fuel consumption. It is requested to Hon'ble Commission to allow the heat rate and APC on actual basis, as there is a direct loss on account of recovery of lesser fuel cost when operated under part load operation.
10. PPS I station utilizes dry low NO<sub>x</sub> (DLN) technology to control air pollution and incurs expenditure periodically for the same. These burners are very costly and required to be serviced/replacement of worn out parts after every 8000 hours subject to damages. It is submitted that State Commission has allowed time to time additional R&M expenses on account of Dry Low NO<sub>x</sub> (DLN) burners on actual basis on submission of documentary evidence.
11. Further, PPS-I is sourcing its plant water requirement from the treated effluent water of sewage treatment plants (STP's) and has to incur additional cost to get raw water, as compared to other similar stations. The actual expenditure on this account includes expenditure on

operation, electricity, Chemicals etc. It is submitted that State Commission has allowed time to time additional R&M expenses on account of Sewage Treatment Plant (STP) on actual basis on submission of documentary evidence.

12. Further, contrary to the orders of Hon'ble Commission dated 31.08.2017, 28.05.2020 & 30.09.2021 on certain issues, the petitioner has filed an APPEAL no. 393 of 2019, 12 of 2021 and 484 of 2023 before Hon'ble Appellate Tribunal for Electricity. Therefore, Petitioner is filing present petition without prejudice to the outcome in existing case on above matters.
13. It is submitted that DERC has notified the Business Plan Regulation, 2023 on 29.03.2023 for the Control period from FY 2023-24 to FY 2025-26. Being aggrieved by the certain Regulations specified in Business Plan Regulations 2023, Petitioner has filed the Writ Petition before the Hon'ble High Court of Delhi challenging the impugned Regulation. Therefore Petitioner is filing present petition without prejudice to the outcome of Writ Petition.
14. It is submitted that Delhi Islanding Scheme was framed on the recommendation of Enquiry Committee constituted under Ministry of Power, GoI for providing remedial measures on occurrences of grid collapse on 30<sup>th</sup> & 31<sup>st</sup> July, 2012. The objective of framing Islanding Scheme is to isolate Delhi in case of any grid disturbance so that emergency loads of essential services are not affected. The islanding scheme ensure power supply for critical installation of national and international important like Parliament, Central Sectt., Rashtrapati Bhawan, AIIMS, RML Hospital, LG House, Embassies , Delhi Metro, Indian Railways and nearby areas etc. with internal power generation through generating stations of IPGCL & PPCL.

## Chapter 3 : Norms for Operation

Petitioner has taken into consideration the actual performance parameters for truing up of tariff for FY 2022-23 and estimated for FY 2024-25.

### 3.1 Station Heat Rate

17. The Hon'ble Commission has allowed the station heat rate of 2000 kCal/kWh in combined cycle mode and 2900 kCal/kWh in open cycle mode in DERC Business Plan Regulation, 2019 for FY 2022-23 and allowed 1975 kCal/kWh in combined cycle mode and 2900 kCal/kWh in open cycle mode for FY 2024-25 in DERC Business Plan Regulation, 2023. The table below depicts the actual heat rate achieved by the station in FY 2022-23:-

**Table 3-1: Actual Station Heat Rate**

Description	UoM	FY 22-23
<b>SHR (CC )</b>	kCal/kWh	1992
<b>SHR (OC)</b>	kCal/kWh	3094

18. The station has been barely able to achieve the target of heat rate in combined cycle mode during FY 2022-23. The heat rate in open cycle mode could not be achieved. From the above table it is clear that the heat rate achieved by the station is on higher side as compared to the target norms set by the Hon'ble Commission for FY 2024-25. The deterioration in heat rate is due to frequent start/stops and part load operation of the units. Hence, PPCL requests Hon'ble Commission to relax the norms of SHR and allow the heat rate on actual basis for FY 2022-23.

19. Further, it is submitted that from the past record it has been observed that there has been substantial gap between Availability and PLF of the station which has adversely affected the heat rate of the station. The Hon'ble Commission has failed to acknowledge the submission made by the petitioner while submitting Business Plan Regulation that the plant

being around more than 20 years old and normative Heat rate could not be achieved by the Petitioner as such because due to high gas prices, the plant is not getting the desired schedule.

20. The Central Electricity Regulatory Commission in its latest tariff regulation for FY 2019-24 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 similar class of gas turbines as of PPS-I. Therefore, PPCL request Hon'ble Commission to relax the norms of SHR and allow the heat rate for FY 2022-23 and FY 2024-25 as shown under:

**Table 3-2: Proposed Station Heat Rate (kCal/kWh)**

Description	UoM	FY 22-23	FY 24-25
SHR (CC )	kCal/kWh	2000	2050
SHR (OC)	kCal/kWh	3094	3010

### **3.2 Auxiliary Power Consumption (APC)**

21. It is submitted that the Plant has to maintain its auxiliary whether it is running on half capacity or full capacity. However, the actual APC achieved by the station for the period FY 2022-23 is on higher side in comparison to Normative APC of 2.75% approved in BPR, 2019 due to partial operation of the units and non-scheduling of plants up to available generation. The actual APC achieved by the station for the period FY 2022-23 is shown as under:-

**Table 3-3: Auxiliary Power Consumption (%)**

Description	UoM	FY 22-23
APC(CC)	(%)	3.01
APC(OC)	(%)	1

22. In view of above, Hon'ble Commission is requested to relax the norms of APC and allow the APC for FY 2022-23 and FY 2024-25 as shown under:

**Table 3-4: Proposed Auxiliary Power Consumption (%)**

Description	UoM	FY 22-23	FY 24-25
APC (CC )	kCal/kWh	3.01	3.00
APC (OC)	kCal/kWh	1	1

### **3.3 Availability**

23. The Hon'ble Commission has fixed the norm of 85% availability factor for full fixed cost recovery. However, the station availability during FY 2022-23 is 91.06%. Petitioner has making its best effort to make the plant available for generation of power on its full capacity. Therefore, Petitioner has an agreement with GAIL for supply of 0.20 MMSCMD RLNG gas to PPS-I in May 2009 for 20 years subject to Take or Pay clause and also Petitioner has time to time signed the GSPN for SPOT Gas in case of shortage of gas.

24. The Hon'ble Commission has fixed the target availability of 90% in DERC Business Plan Regulations, 2023 for the period from FY 2023-24 to FY 2025-26 and the target for plant load factor is fixed at 85%. The target fixed by the Hon'ble Commission for availability is on higher side leaving no margin for scheduled maintenance of the station. In ideal condition, the target for availability and plant load factor are fixed at same level as what-ever is being declared available by the station is to be made available for operation.

25. Accordingly, Hon'ble Commission is requested to allow the availability for FY 2022-23 and for FY 2024-25 as shown under:

**Table 3-5: Availability (%)**

Description	UoM	FY 22-23	FY 24-25
Plant Availability	(%)	85	85

### 3.4 Gross Generation and Net Generation

26. On the basis of above, the Gross and Net Generation of PPS-I station during FY 2022-23 and FY 2024-25 is shown here as under:-

**Table 3-6: Gross and Net Generation**

Sr.No.	Description	UoM	FY 22-23	FY 24-25	Remarks
A	Plant Capacity	MW	330	330	
B	NAPLF	%	29.59	85.00	
C	No. of Days	No.	365	365	
D	Gross Generation	MU	855.426	2457.180	$C = A * B * C * 24 / 100000$
E	Aux. Cons.	%	2.99	3.00	Table 3-4
F	Aux. Cons.	MU	25.60	73.72	$E = C * D$
G	Net Gen.	MU	829.827	2383.465	$F = C - E$

## Chapter 4 : Energy Charge Rate and Fuel Cost

This Chapter deals with the fuel sources of PPS-I and its consumption throughout the year along with the fuel cost arrived for the year FY 2022-23 and estimated for FY 2024-25.

### 4.1 Fuel Consumption

27. Pragati Power Station-I has a long-term existing agreement with Gas Authority of India Limited (GAIL) for supply of Gas. Earlier, PPS-I was having contracted quantity of 1.75 MMSCMD of APM Gas. This gas was sufficient to run both the Gas Turbines on base load. However, w.e.f 16-06-2021, there is 100% cut to Domestic Gas supply to all the Gas based Power Plants in India including PPS-I on direction of MOP&NG due to Tauktae Cyclone in Gujarat. Further, PPCL had an agreement has been signed with GAIL for supply of 0.2 MMSCM of R-LNG gas on take and pay basis. To meet the shortfall in gas supply, Petitioner has time to time signed the GSPN for SPOT Gas. Therefore, until domestic gas becomes available to PPS-I plant, the station will use imported gas to generate power.

28. Hon'ble Commission is requested to take the note of above and direct Delhi SLDC to run the PPS-I station to consume atleast 90% of contracted RLNG gas so as to avoid Take or Pay Liability on DISCOMs.

29. Based upon the allocation, the consumption of R-LNG and SPOT gas for FY 2022-23 is shown as under:

**Table 4-1: Total Gas Consumption**

Description	UoM	FY 22-23
R-LNG Gas	SCM	116926.11
SPOT Gas	SCM	62,662.01
<b>Total Gas</b>	SCM	1,79,588.12



**Table 4-2: Energy Charge Rate and Fuel Cost**

Particulars	Unit	FY 22-23	FY 24-25
Total Gas Cons.	MMSCM	179.59	533.47
Avg. Landed Price of Fuel	Rs./ SCM	73.884	46.905
Weighted Average GCV	kCal/ SCM	9488.696	9442.359
Total Gas Cost	Rs. Crore	1326.88	2502.25
Net Generation	MU	829.827	2383.465
<b>Variable Cost - CC</b>	Rs./kWh	<b>15.990</b>	<b>10.498</b>

## Chapter 5 : Estimation of Fixed Cost

This chapter deals with the fixed cost parameters achieved for FY 2022-23 & projected for FY 2024-25 as per DERC (Terms and Conditions for determination of Tariff) Regulations 2017, Business Plan Regulations 2019 & Business Plan Regulations 2023 as applicable to relevant period.

### 5.1 Parameters for Fixed Cost

33. As per DERC (Terms and conditions for determination of tariff) Regulation 2017 and Business Plan regulation 2019, 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;

### 5.2 Operation and Maintenance Expenses

34. Hon'ble Commission has specified the Normative Operation and Maintenance expenses in DERC Business Plan Regulations, 2019 & 2023 for the period from FY 2022-23 to FY 2024-25 as under:

**Table 5-1: O&M Expenses**

<b>Station</b>	<b>2022-23 (Rs. Lakh/ MW)</b>	<b>2023-24 (Rs. in Cr)</b>	<b>2024-25 (Rs. in Cr)</b>
<b>PPS-I</b>	24.82	77.80	81.42

35. As per Regulation 6(3) of BPR, 2023, the O&M expenses shall be allowed during True-up after considering the actual O&M expenses subject to Prudence Check which will be lower of Actual or above tabulated Normative O&M expenses. This statement is contradictory. Since the actual O&M expenses incurred may be more or less than the normative expenses allowed by the Commission, therefore, by considering the O&M expenses lower of Actual or normative will cause loss to the generator.

36. It is submitted that the maintenance activities of Gas Turbines are cyclic in nature and depend upon the running hours of the machines. There are three kinds of Inspection carried out as per the recommendation of OEM which are Combustion Inspection (CI), Hot Gas Path Inspection (HGPI), Major Inspection (MI). Generally, Combustion Inspection (CI) is carried out after operation of around 8000 Hours, Hot Gas Path Inspection (HGPI) after operation of 24000 Hours and Major Inspection (MI) is carried out after operation of 48000 Hours of Gas Turbines. Because of cyclic nature of maintenance activity, the O&M expenses particularly the Repair & Maintenance expenses will be higher in one year and may be lower in other year. Therefore, Hon'ble Commission is requested to allow the estimated cost of Rs 40.00 Cr as additional R&M expenses on account of MI of GT#1 expected to be carried out during FY 2024-25.

37. Further, the Hon'ble Commission in Business Plan Regulations, 2019 & 2023 allowed the additional Repair & Maintenance expenses on account of Dry Low NO<sub>x</sub> (DLN) burners and Sewage Treatment Plant (STP) on actual basis during the Control Period after Prudence Check at the time of True-Up on submission of Documentary Evidence.

38. Accordingly, PPS-I has incurred the expenditure of Rs 0.20 Cr and Rs 3.84 Cr towards DLN burner and STP respectively during FY 2022-23. In addition to above, Petitioner has projected to incur an expenditure of Rs 3.67 Cr towards DLN Burner on completion of 24000 Hours of the machine due to cyclic nature and Rs 6.30 Cr towards maintenance of STP. Hon'ble Commission is therefore, requested to allow expenditure on account of DLN burner & STP as additional R&M in addition to normative O&M for FY 2022-23 and FY 2024-25 in line with provisions of Business Plan Regulations, 2019 and Business Plan Regulations, 2023.

39. In view of above, Hon'ble Commission is requested to allow the O&M expenses for FY 2022-23 and projected for FY 2024-25 as under:-

**Table 5-2: O & M Expenses**

<b>S.No.</b>	<b>Particulars</b>	<b>UoM</b>	<b>FY 22-23</b>	<b>FY 24-25</b>
<b>A</b>	<b>Base O&amp;M expenses</b>	<b>Rs Cr.</b>	<b>81.91</b>	<b>81.42</b>
<b>B</b>	<b>DLN Burner for the period</b>	<b>Rs Cr.</b>	<b>0.20</b>	<b>3.67</b>
<b>C</b>	<b>STP</b>	<b>Rs Cr.</b>	<b>3.84</b>	<b>6.30</b>
<b>D</b>	<b>MI of GT#1</b>	<b>Rs Cr.</b>	<b>0.00</b>	<b>40.00</b>
<b>E</b>	<b>Total O&amp;M Expenses</b>	<b>Rs Cr.</b>	<b>85.95</b>	<b>131.39</b>

## **5.2 Capital Expenditure**

40. Hon'ble Commission has approved the opening Gross Fixed Asset of Rs. 1054.87 Cr for FY 2021-22 in DERC tariff order dated 30.09.2021. The Petitioner has made capitalization of Rs 2.48 Cr during FY 2021-22 which has been submitted in true-up petition before Hon'ble Commission. Accordingly, the Petitioner has considered the closing GFA of Rs 1057.35 Cr for FY 2021-22.

41. The Hon'ble Commission in its Business Plan Regulations, 2019 has allowed the Capital expenditure for the control period FY 20-21 to FY 22-23 as under:-

### ***"7. CAPITAL INVESTMENT PLAN***

*(1) The tentative Capital Investment plan for the Generation Entity for FY 2021-22 to FY 2022- 23 is as follows:*

**Table 2: Capital Investment plan (in Rs. Cr.)**

Sr. No.	Description	2020-21	2021-22	2022-23
1.	Gas Turbine Power Station (GTPS)	17.33	16.10	-
2.	Pragati Power Station (PPS-I)	2.82	51.81	-

42. From the above table it has been clear that the Hon'ble Commission has approved the CAPEX schemes of Rs 51.81 Cr during FY 2021-22. However the petitioner has incurred an expenditure of Rs 2.48 Cr towards Capex in FY 2021-22, the details of which has been submitted vide Petition no. 74 of 2022. Out of total CAPEX amounting to Rs 51.81 Cr, some of the schemes have been spilled over to FY 2022-23 for execution after approval from the Board. The details of the Schemes implemented during FY 2022-23 are shown here as under:-

Table 5-3: Capex Schemes for FY 2022-23

S. N o.	Item/ Scheme	Amount claimed inclusive of tax for FY 2022-23 (Rs. in Cr)	Purchase order No.	Remarks
1	Procurement of LP rotor free standing blades (7 <sup>th</sup> and 8 <sup>th</sup> row) for 122 MW steam turbine and Minor overhauling including replacement of blades.	14.40	4010005257 & 4020005240	The work has been completed in FY 2022-23.
<b>Total</b>		14.40		

43. In addition to above, the Station has made the capitalization of Rs 4.20 Cr towards Capital Spare during FY 2022-23. Petitioner has considered this amount in the additional capitalization for FY 2022-23.

44. Further, out of capitalization of assets for Rs 0.72 Cr for Head Quarters, Rs 0.14 Cr has been allocated to PPS-I as its share. Therefore Hon'ble Commission is requested to approve the total capitalization of Rs 18.74 Cr during FY 2022-23. Also an amount of Rs. 4.59 Cr. has been de-capitalized for the period FY 2022-23.

45. Further, the Hon'ble Commission in Business Plan Regulations, 2023 has allowed the Capital expenditure for the control period from FY 23-24 to FY 25-26 as under:-

**"7. CAPITAL INVESTMENT PLAN:**

*(1) The tentative Capital Investment plan for the Generation Entities for FY 2023-24 to FY 2025-26 is as follows:*

**Table 2: Capital Investment plan (Rs. Crore)**

Sr. No.	Plant	FY 2023-24	FY 2024-25	FY 2025-26
1.	Gas Turbine Power Station (GTPS)	25	5	0
2.	Pragati Power Station (PPS-I)	36	2	0

46. In view of above, the details of Gross Fixed Assets of PPS-I since FY 2021-22 is shown as under:-

**Table 5-4: Capital Expenditure (Rs in Cr.)**

S.No.	Particulars	Unit	FY 21-22	FY 22-23	FY 23-24	FY 24-25
A	Opening GFA	Rs in Cr.	1054.87	1057.35	1071.50	1107.50
B	Addition	Rs in Cr.	2.48	18.74	36.00	2.00
C	Deletion	Rs in Cr.	0.00	4.59	0.00	0.00
D	Closing GFA	Rs in Cr.	1057.35	1071.50	1107.50	1109.50
E	Average GFA	Rs in Cr.	1056.11	1064.42	1089.50	1108.50



### **5.3 Depreciation**

47. The Hon'ble Commission has specified the provisions pertaining to Depreciation in Regulation 78 to 83 of the Tariff Regulations, 2017. It is observed that cumulative depreciation has reached 70% of the total depreciation; therefore, petitioner has spread the remaining depreciable value over the remaining life of the asset, in accordance with the DERC Tariff Regulations, 2017.

48. The Hon'ble Commission has approved the Closing accumulated depreciation of Rs 864.24 Cr for FY 2021-22 in DERC tariff order dated 30.09.2021. However, Petitioner vide petition no. 74 of 2022 submitted the true-up petition for FY 2021-22 and determined the closing accumulated depreciation of Rs 864.40 Cr for FY 2021-22. Accordingly, petitioner has calculated the depreciation for FY 2022-23 and estimated for FY 2024-25 as under:-

**Table 5-5: Details of Depreciation (Rs. in Cr.)**

<b>S.No.</b>	<b>Particulars</b>	<b>FY 22-23</b>	<b>FY 24-25</b>	<b>Remarks</b>
A	Average GFA	1064.42	1108.50	Table 5-4
B	Opening Accumulated Depreciation	864.40	897.01	Depreciation of Rs 20.88 Cr has been considered for FY 2023-24.
C	Balance Depreciation	93.58	100.64	$C = 90\% \text{ of } A - B$
D	Balance useful life	6	4	Remaining life
E	Current Year Depreciation	15.60	25.16	$E = C/D$
F	Depreciation on account of retired Assets	3.87	0.00	
G	Closing Accumulated Dep.	876.13	922.17	$G = B + E - F$
H	Average Accumulated Dep.	870.26	909.59	$H = (B + G)/2$
I	Average Net Fixed Asset	194.16	198.91	$I = A - H$

## **5.4 Working Capital**

49. Petitioner has calculated the Working Capital for FY 2022-23 and FY 2024-25 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.*

50. Since the Hon'ble Commission has not approved the working capital for FY 2022-23, the petitioner has calculated the same at normative parameters by considering the weighted average landed price of gas of 73.884 Rs/SCM and weighted average GCV of 9488.696 kCal/SCM. Further, Petitioner has calculated the working capital for FY 2024-25 by considering the weighted Avg. fuel gas price for the period from Aug-23 to Oct-23 as shown in table 4-2 above.

51. In view of above, the working capital requirement for FY 2022-23 and FY 2024-25 is calculated as under:-

**Table 5-6: Requirement of Working Capital (Rs in Cr.)**

S.No.	Particulars	Unit	FY 22-23	FY 24-25	Remarks
A	Fuel expenses for 1 month	Rs Cr	318.88	208.52	
B	Maintenance spares @ 30% of O&M	Rs Cr	25.78	39.42	
C	O&M expenses for 1 month	Rs Cr	7.16	10.95	
D	Annual Fixed Cost for the year	Rs Cr	216.84	254.32	
E	Fuel Cost for the year	Rs Cr	3826.60	2502.25	
F	Receivables equivalent to 2 months of capacity and energy charge	Rs Cr	673.91	459.43	
G	Total Working Capital	Rs Cr	1025.74	718.32	G = A+B+C+D+F

52. In view of above, Petitioner has requested State Commission to consider the working capital as proposed for FY 2022-23 and FY 2024-25 in table above.

## 5.5 Requirement of Loan and Equity

53. Since accumulated depreciation has reached over and above 70% of Gross Fixed asset, petitioner has considered the Average NFA as 100% equity only. Accordingly, petitioner has determined the requirement of Loan and Equity for FY 2022-23 and FY 2024-25 as under:-

**Table 5-7: Requirement of Loan & Equity (Rs in Cr.)**

S.No.	Particulars	Unit	FY 22-23	FY 24-25	Remarks
A	Average Net Fixed Asset	Rs in Cr.	194.16	198.91	Table 5-5
B	Average Equity	Rs in Cr.	194.16	198.91	
C	Average CAPEX Loan	Rs in Cr.	0.00	0.00	
D	Working Capital Loan	Rs in Cr.	1025.74	718.32	Table 5-6
E	Total Loan Requirement	Rs in Cr.	1025.74	718.32	$E = C + D$
F	Average RRB	Rs in Cr.	1219.90	917.22	$F = B + E$

54. In this regard it is to submit that as 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 30:70 of equity and loan, Petitioner has filed an appeal no. 393 of 2019, 14 of 2021 and 484 of 2023 in APTEL for adjudication of disputes in treating GFA in absence of any existing loan as above.

## 5.6 Return on Capital Employed

55. Hon'ble 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."*

56. 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<sub>i</sub> is the Weighted Average Cost of Capital for each year of the Control Period;

RRB<sub>i</sub> – Average Regulated Rate Base for the i<sup>th</sup> year of the Control Period.

57. 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;

58. In this regard it is to submit that 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 plus margin as per DERC Business Plan Regulations, 2019. The petitioner has

## Tariff Petition for True-up of Expenses of PPS-I for FY 2022-23 & ARR for FY 2024-25

taken the loan on cash credit basis time to time from SBI @ 8.55% during FY 2022-23 upto 29.03.2023 and @9.25% w.e.f 30.03.2023. Therefore for FY 2022-23 and FY 2024-25, the rate of interest on loan has been considered as 8.55% and 9.25% respectively which is within the norms as per applicable Business Plan Regulations, 2019 and Business Plan Regulations, 2023.

59. Petitioner has considered the base rate of return on equity @ 14% for FY 2022-23 and @13% for FY 2024-25 as per DERC (Business Plan Regulations), 2019 & DERC (Business Plan Regulations), 2023 respectively and the same has been grossed up with rate of income tax @ 17.454%. Accordingly the grossed up rate of return on equity has been computed @ 16.96% for FY 2022-23 and @ 15.75% FY 2024-25.

60. Accordingly, Petitioner has requested Hon'ble Commission to consider the Weighted Average Cost of Capital (WACC) and Return on Capital Employed (RoCE) for FY 2022-23 and FY 2024-25 calculated as under:

**Table 5-8: RoCE (Rs in Cr.)**

S.No.	Particulars	Unit	FY 22-23	FY 24-25	Remarks
A	Average RRB	Rs in Cr.	1219.90	917.22	Table 5-7
B	Total Loan	Rs in Cr.	1025.74	718.32	Table 5-7
C	Average Equity	Rs in Cr.	194.16	198.91	Table 5-7
D	Cost of Debt, Rd	%	8.55	9.25	
E	Grossed up Rate of return on Equity, Re	%	16.96	15.75	
F	WACC	%	9.89	10.66	As per DERC Regulation, 2017
G	RoCE	Rs in Cr.	120.63	97.77	$G = A * F$

## **5.7 Summary of Fixed Cost**

61.The Hon'ble Commission has provided following provisions regarding fixed cost in DERC tariff regulation 2017:-

*“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.”*

Accordingly, the Annual Fixed Cost for FY 2022-23 and FY 2024-25 is computed as under:-

**Table 5-9: Annual Fixed Cost (Rs in Cr.)**

S.No.	Particulars	Unit	FY 22-23	FY 24-25	Remarks
A	Return on Capital Employed	Rs Cr	120.63	97.77	Table 5-8
B	Depreciation	Rs Cr	15.60	25.16	Table 5-5
C	Operation and Maintenance Expenses	Rs Cr	85.95	131.39	Table 5-2
E	Annual Fixed Cost	Rs Cr	222.18	254.32	E = A+B+C
F	Net Generation	MU	829.827	2383.465	Table 3-6
G	Fixed Cost Per Unit	Rs/ kWh	2.68	1.07	G = E/F*10

62.On the basis of above submissions, Hon'ble Commission is requested to allow the fixed cost for FY 2022-23 and FY 2024-25 as shown in the table above.



## **Chapter 6: Prayer**

### **7.1 Prayer**

In the light of above submissions, this Hon'ble Commission may kindly be pleased:-

- ❖ To condone the delay and admit this petition.
- ❖ To true up the tariff for FY 2022-23 and projected for FY 2024-25.
- ❖ To approve the operational and financial parameters as proposed for FY 2022-23 and FY 2024-25.
- ❖ To consider the impact on performance of thermal generating stations due to part load operation, frequent start/stops etc.
- ❖ To allow the additional R&M on account of DLN burner and STP for FY 2022-23 and FY 2024-25 as prayed.
- ❖ 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.



**(MUKESH KUMAR SHARMA)**

**DIRECTOR (TECH.)**

**Pragati Power Corporation Limited**

**PETITIONER**

Director (Tech.)  
Pragati Power Corporation Ltd.  
'Himadri', RPH Office Complex,  
Rajghat, New Delhi-110002

**Place: New Delhi**


**Date: 07.12.2023**

## Working Capital Requirement for FY 24-25

Month	Particulars	UoM	Domestic	Imported	Total	Net	LPPF
Aug-23	Quantity	('000)SCM	0	41755.91	41755.91	92395.41	46.905
	Amount	Rs. in Cr.	0	190.729	190.729	433.382	
	GCV	kCal/SCM	9459.246		9459.246	9442.359	
Sep-23	Quantity	('000)SCM	0	32513.01	32513.01		
	Amount	Rs. in Cr.	0	151.777	151.777		
	GCV	kCal/SCM	9415.616		9415.616		
Oct-23	Quantity	('000)SCM	0	18126.5	18126.5		
	Amount	Rs. in Cr.	0	90.876	90.876		
	GCV	kCal/SCM	9451.425		9451.425		

				PART-I
TARIFF FILING FORMS (GENERATING STATIONS) FOR DETERMINATION OF TARIFF				
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 fag end of the useful life of Project	✓	
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	✓	
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			

*Signature*  
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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	Re-conciliation 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	
	Note2: Petitioner has submitted the forms for determination of tariff which are applicable as ticked above.	
		 Petitioner

## 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	2022-23	2024-25
1	2	3	4	5
1.1	Depreciation	Rs. Crore	15.60	25.16
1.2	Interest on Loan	Rs. Crore	0.00	0.00
1.3	Return on Equity <sup>1</sup>	Rs. Crore	32.93	31.33
1.4	Interest on Working Capital	Rs. Crore	87.70	66.44
1.5	O & M Expenses(Actual)*	Rs. Crore	81.91	121.42
1.7	Compensation allowance (if applicable)	Rs. Crore	0	0.00
1.8	Special allowance (if applicable) **	Rs. Crore	4.04	9.97
	<b>Total</b>	Rs. Crore	222.18	254.32
2.1	Landed Fuel Cost (Domestic Gas: APM+PMT+NAPM)	Rs./SCM		0.00
	(%) of Fuel quantity	(%)		0.00
2.2	Landed fuel cost ( Imported Gas: RLNG+SPOT	Rs./SCM	73.88	46.91
	(%) of Fuel quantity	(%)		100.00
2.3	Secondary Fuel Oil Cost	Rs./Unit		0
2.4	Energy charges Rate ex-bus (paise/Kwh) from Imported Gas (Combined Cycle)	Rs./Unit	15.920	10.452
2.5	Energy charges Rate ex-bus (paise/Kwh) from Imported Gas ( Open Cycle)	Rs./Unit	24.337	15.103



Petitioner

Form-1(I)

## Statement Showing Claimed Capital Cost

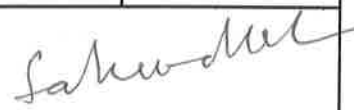
Name of the Petitioner : Pragati Power Corporation Limited

Name of the Generating Station: Pragati Power Station - I

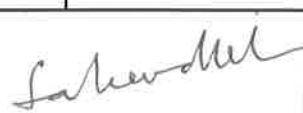
Place (Region / District / State): Delhi

(Rs in Crore)

Sl. No.	Particulars	2022-23	2024-25
1	2	3	4
A	Opening Capital Cost	1057.35	1107.50
B	Addl: Addition during the year/ period	18.74	2.00
C	Less: Decapitalization during the year / Period	4.59	0.00
D	Less: Liability Reversal during the year /period	0.00	0.00
E	Add: Discharges during the year/ period	0.00	0.00
F	Closing Capital Cost	1071.50	1109.50
G	Average Capital Cost	1064.42	1108.50
H	Average Net Fixed Assets	194.16	198.91



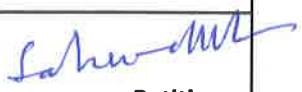
Petitioner


FORM-1(II)			
Statement Showing Return on Equity			
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	2022-23	2024-25
1	2	3	4
A	Opening Equity	317.21	332.25
B	Addl: Increase due to Addition during the year/ period	5.62	0.60
C	Less: Decrease due to Decapitalization during the year / Period	1.38	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	321.45	332.85
G	AverageEquity	319.33	332.55
H	Average equity for the purpose of computation of tariff based on Net Fixed Assets	194.16	198.91
I	Rate of RoE(%)	16.96	15.75
J	Return of Equity	32.93	31.33
<div style="text-align: right;">   <b>Petitioner</b> </div>			



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-1	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
Plt Head or Non plt Head	Not Applicable		
Name of the Boiler Manufacture			BHEL, Trichy
Name of Turbine Generator Manufacture			BHEL
Main Steams pressure at Turbine Inlet (kg/Cm <sup>2</sup> ) <sup>abs</sup> <sup>1</sup>	NA		HP/LP 71.38/5.14
Main Steam temperature at Turbine Inlet (°C) <sup>1</sup>	NA	NA	518.3/198.6
Reheat Steam Pressure at turbine Inlet (kg/Cm <sup>2</sup> ) <sup>1</sup>			NA
Reheat Steam temperature at Turbine Inlet (°C) <sup>1</sup>			NA
Main Steam flow at Turbine Inlet under MCR condition (tons/hr) <sup>2</sup>			180.2/37.1
Main Steam flow at Turbine Inlet under VWO condition (tons/hr) <sup>2</sup>			NA
Unit Gross electrical output under MCR/Rated condition (MW) <sup>2</sup>			121.189
Unit Gross electrical output under VWO condition (MW) <sup>2</sup>			128.671
Guaranteed design Gross Turbine Cusle Heat Rate (kCal/kWh) <sup>3</sup>	2986	2986	1939 (CC)
Condition on which design turbine cycle heat rate guaranteed			
%MCR	NA	NA	100
% Makeup Water Consumtion	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 <sup>2</sup> )			85.39/6.45
Steam Temperature at super heater outlet under BMCR condition (°C)			520/205
Steam Temperature at Reheater outlet at BMCR condtion (°C)			NA
Design/ Guaranteed Boiler Efficiency (%) <sup>4</sup>			
Design fuel specification for guaranteed parameters (%)	Dual Fuel	Dual Fuel	waste heat
Type of cooling Tower	NA	NA	Induced
Type of cooling System <sup>5</sup>	NA	NA	IDC
Type of Boiler feed pump <sup>6</sup>	NA	NA	Motor Driven
Fuel Details <sup>7</sup>			
-Primary Fuel	NG	NG	waste heat
-Secondary Fuel	Not Applicable		
-Alternate Fuels	Not Applicable		
Special Features /Site Speicfic Features <sup>8</sup>	Not Applicable		
Special Technological Features <sup>9</sup>	Gas turbines fitted with DLN combustors		
Environmenalt Regulation related features <sup>10</sup>	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 MCR 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.,			


  
Petitioner

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	2022-23	2024-25
1	2	3	4
Base Rate of Return on Equity	%	14.00	13.00
Effective Tax Rate <sup>4</sup>	%	17.454	17.454
Target Availability	%	85%	90%
Auxillary Energy Consumption (CC)	%	2.75%	2.75%
Gross Station Heat Rate	kCal/kWh	2000	1975
Specific Fuel Oil Consumption	ml/kWh	NA	NA
Cost of Coal/ Lignite for WC <sup>1</sup>	in Months	NA	NA
Cost of Main Secondary Fuel Oil for WC <sup>1</sup>	in Months	NA	NA
Fuel Cost for WC <sup>2</sup>	in Months	1	1
Liquid Fuel Stock for WC <sup>2</sup>	in Months	NA	NA
O&M Expenses	Rs. in lakh/MW	24.82	24.67
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	%	7.00%	8.55%
Blending ratio of domestic coal/ Imported coal		NA	NA
<sup>1</sup> For Coal / Lignite based generating stations			
<sup>2</sup> For Gas Turbine/ Combined Cycle generating stations duly taking into account the mode of operation on gas fuel and liquid fuel.			
<sup>3</sup> Mention relevant date			
<sup>4</sup> 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.			
 <b>Petitioner</b>			

<b>Abstract of Admitted Capital Cost for the existing Projects</b>		
<b>Name of the Petitioner</b>	Pragati Power Corporation Limited	
<b>Name of the Generating Station</b>	Pragati Power Station- I	
<b>Place (Region / District / State):</b>	Delhi	
<b>Particulars</b>		<b>2021-22</b>
<b>Last date of order of Commission for the project</b>	Date (DD-MM-YYYY)	30.09.2021
Reference of petition no. in which the above order was passed	Petition No.	06/2021
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)	1054.87
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		864.24
Freehold land		
		
		<b>Petitioner</b>

## Statement of additional Capitalisation during fag end of useful life of the Project

Name of the Petitioner	Pragati Power Corporation Limited
Name of the Generating Station	Pragati Power Station - I

(Rs In Cr.)

S.N o.	Year	work / equipment added during last 5 years of useful life of each unit / station	ACE Claimed (Actual / Projected)				Regulation under which claimed	Justification	Impact on life extension
			Accrual basis	Undischarged liability Included In Col.4	Cash basis	IDC Included In Col.4			
1	2	3	4	5	6= 4-5	7	8	9	10
A	FY 22-23	Procurement of LP rotor free standing blades (7 <sup>th</sup> and 8 <sup>th</sup> row) for 122 MW steam turbine and Minor overhauling including replacement of blades.	14.4	0	14.4		Regulation 43(7) DERC Regulation, 2018	Work has been done as approved in BPR, 2019	
B	FY 22-23	Capital Spares	4.2	0	4.2		Regulation 43(7) DERC Regulation, 2019	Work has been done as approved in BPR, 2019	
C	FY 22-23	HQ share	0.14	0	0.14			Capitalisation of Assets as per IND-AS requirement	
Total			18.74		18.74				

## NOTE :

1. Cost benefit analysis for capital additions done should be submitted along with petition for approval of such schemes.
2. Justification for additional capital expenditure claim for each asset should be relevant to regulation under which claim has been made and the necessity of capitalisation of the asset.

  
 (Petitioner)


## Details of assets De-capitalised during the period FY 2022-23

Name of the Petitioner: Pragati Power Corporation Limited


Name of the Generating Station: Pragati Power Station - I


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	Overhauling of STG - PPS1	Retirement of Old Overhauling	-4,59,18,503.13	01.04.2019	3,87,43,737.03
2	TURNING MOTOR,1115013700000000,STG,BHEL	Capital Spare Consumed*	-69,90,913.65	31.03.2019	41,07,161.78
3	VALVE SEAT,220,HP BYPASS SYSTEM,STG		-18,02,985.72	11.01.2021	5,63,433.04
4	STORM WATER PUMP,1360 M3/HR,KBL,BHQ-27		-28,94,058.50	14.09.2020	9,30,233.10
5	CT SLUDGE PUMP, KPDS 100/32QF, KBL		-15,24,830.22	20.04.2022	2,28,724.53
6	BEARING,3570101,PUMP,BHM22.5DEG-2STG		-65,847.94	01.04.2012	54,645.78
7	BOWL ASSEMBLY,PUMP,KBL,RKBS 50/15L-4STG		-8,91,979.70	22.04.2022	2,34,144.67
8	UCSB PROCESSOR,IS420UCSBH1A,PNL,GE,MK6e		-5,90,155.72	16.12.2020	4,20,485.96
9	FUSE,DDC/DAVR		-20,050.28	01.04.2012	16,496.83
10	MOD,I/P,BINARY,70EB03,DDC		-69,489.53	01.04.2012	55,159.19
11	MOD,I/P,BINARY,70EB01 b/R2,DDC		-45,455.23	01.04.2012	39,238.65
12	MOD,I/P,BINARY,70EB02,DDC		-42,875.34	01.04.2012	33,855.03
13	MOD,I/P,ANALOG,70EA03 a-E/R1,DDC		-5,25,578.22	01.04.2012	4,14,382.18
14	MOD,O/P,ANALOG,70AA02 a-E/R1,DDC		-90,506.72	01.04.2012	70,634.05
15	MOD,BUS TRAFFIC DIRECTOR,70BV05 a-E,DDC		-2,14,821.97	01.04.2012	1,68,100.35
16	MOD,SUPERVISION,XT377 a/R1,DDC		-33,583.76	01.04.2012	26,756.87
17	MOD,CALCULATING UNIT,7MJ1222-8AA		-55,407.25	01.04.2012	43,356.73
18	MOD,DC/DC CONVERTER,6EV4300		-10,960.44	01.04.2012	9,382.30
19	MOD,INSTANT MEASUREMENT,3PH PWR,LMU 10B		-11,50,938.39	13.06.2012	9,33,917.05
20	MOTOR,CMPND,45KW,2900RPM,AVS280M,VER FLG		-5,56,000.00	01.04.2012	4,56,145.02
21	CABLE,UNARM,CNTRL,1.1KV,CU,12C,1.5MM2		-4,316.23	01.04.2012	3,369.66
	Total		-6,34,99,255.94		4,75,53,359.80

NOTE: \* Capital Spares consumed are not considered to be decapitalised for the period FY 2022-23 as these capital spares are not approved by DERC as addition to Normative O&M. Therefore, Petitioner has de-capitalised the amount of Rs 4.59 Cr only for the FY 2022-23.

  
(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	2022-23
1	2	3
A	Closing Gross Block	1210.73
B	Less: Opening Gross Block	1198.34
C	Total additions as per books	18.74
D	Less: Additions pertaining to other stages (give stagewise break-up)	0.00
E	Net additions pertaining to instant project / unit / stage	0.00
F	Less: Exclusions (items not allowable / not claimed/de-capitalise)	6.35
G	Net Additional Capital Expenditure claimed	12.39
NOTE : Reason for exclusion of any expenditure shall be given in clear terms.		
		 (Petitioner)

FORM-9D		
Name of the Petitioner: Pragati Power Corporation Limited		
Name of the Generating Station: Pragati Power Station - I		
Place (Region / District / State): New Delhi		
Statement of Capital Cost		
(To be given for relevant dates and year wise)		
		(Amount in Rs.Crore)
S.No.	Particulars	2022-23
A	a) Opening Gross Block Amount as per books	1198.34
	b) Amount of Capital liabilities In A(a) above	
	c) Amount of IDC In A(a) above	
	d) Amount of FC In A(a) above	
	e) Amount of FERV In A(a) above	
	f) Amount of Hedging cost In A(a) above	
	g) Amount of IEDC In A(a) above	
B	a) Addition In Gross Block amount during the period (Direct purchases)	18.74
	b) Amount of Capital liabilities In B(a) above	
	c) Amount of IDC In B(a) above	
	d) Amount of FC In B(a) above	
	e) Amount of FERV In B(a) above	
	f) Amount of Hedging cost In B(a) above	
	g) Amount of IEDC In B(a) above	
C	a) Addition In Gross Block amount during the period (Transferred from CWIP)	0
	b) Amount of Capital liabilities In C(a) above	
	c) Amount of IDC In C(a) above	
	d) Amount of FC In C(a) above	
	e) Amount of FERV In C(a) above	
	f) Amount of Hedging cost In C(a) above	
	g) Amount of IEDC In C(a) above	
D	a) Deletion In Gross Block amount during the period	6.35
	b) Amount of Capital liabilities In D(a) above	
	c) Amount of IDC In D(a) above	
	d) Amount of FC In D(a) above	
	e) Amount of FERV In D(a) above	
	f) Amount of Hedging cost In D(a) above	
	g) Amount of IEDC In D(a) above	
E	a) Closing Gross Block amount as per books	1210.73
	b) Amount of Capital liabilities In E(a) above	
	c) Amount of IDC In E(a) above	
	d) Amount of FC In E(a) above	
	e) Amount of FERV In E(a) above	
	f) Amount of Hedging cost In E(a) above	
	g) Amount of IEDC In E(a) above	
Note:		
1. Relevant date/s means date of COD of unit/s/station and financial year start date and end date.		
		 (Petitioner)



## Calculation of Depreciation

Name of the Petitioner		Pragati Power Corporation Limited		
Name of the Generating Station		Pragati Power Station - I		
		FY 2022-23		(Amount in Rs. Crore)
Sl. No.	Name of the Assets <sup>1</sup>	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				
	<b>Total</b>	1,064.42	1.47%	15.60
	<b>Weighted Average Rate of Depreciation (%)</b>			1.47
* Provide details of freehold land and lease hold land separately				
<sup>1</sup> Name of the Assets should conform to the description of the assets mentioned in Depreciation Schedule appended to the Notification				
				 (Petitioner)




Calculation of Weighted Average Rate of Interest on Actual Loans<sup>1</sup>


<b>Name of the Petitioner</b>	Pragati Power Corporation Limited
<b>Name of the Generating Station</b>	Pragati Power Station - I
<b>Place (Region / District / State):</b>	New Delhi
<b>Particulars</b>	<b>2022-23</b>
<b>Loan-1</b>	
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	
<b>Total Loan</b>	
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	
<b>GNCTD Loan No. 2</b>	
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	
<b>GNCTD Loan No. 3</b>	
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	
<b>Weighted average Rate of Interest on Loans</b>	
<b>Interest on working capital loan</b>	8.55%

Actual Loan Repaid and additional capitalisation is funded through equity. Working capital loan has been taken on cash credit basis time to time from SBI @ 8.55% for FY 2022-23 upto 29.03.2023 and @ 9.25% w.e.f 30.03.2023.

<sup>1</sup> 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.

  
(Petitioner)

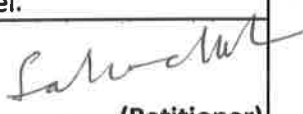
Calculation of Interest on Normative Loan		
Name of the Petitioner: Pragati Power Corporation Limited		
Name of the Generating Station: Pragati Power Station - I		
Place (Region / District / State): Delhi		
Particulars	2022-23	2024-25
1	2	3
(Rs in Crore)		
Gross Normative Loan -Opening	0	0
Cumulative repayment of Normative Loan upto previous year	0	0
<b>Net Normative Loan- Opening</b>	0	0
Add: Increase due to addition during the Year/ Period	0.00	0.00
Less: Decrease due to De- Capitalisationl during the Year/ Period	0.00	0.00
Less: Decrease due to Reversal during the Year/ Period	0	0
Add: Increase due to discharge during the Year/ Period	0	0
Less: Repayment(s) of Loans during the year	0	0
<b>Net Normative Loan- Closing</b>	0.00	0.00
<b>Average Normative Loan</b>	0.00	0.00
Weighted Average rate of interest	8.55%	9.25%
Interest on Loan	0.00	0.00

  
 (Petitioner)

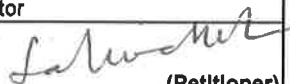
FORM-13B			
Calculation of Interest on Working Capital			
Name of the Petitioner		Pragati Power Corporation Limited	
Name of the Generating Station		Pragati Power Station - I	
Place (Region / District / State):		Delhi	
Sl. No.	Particulars	2022-23	2024-25
1	2	3	4
1	Cost of Coal/ Lignite <sup>1</sup>	N/A	N/A
2	Cost of Main Secondary Fuel Oil <sup>1</sup>	N/A	N/A
3	Fuel cost for 1 month <sup>2</sup>	318.88	208.52
4	Liquid Fuel Stock <sup>2</sup>	0	0.00
5	O&M Expenses for 1 month	7.16	10.95
6	Maintenance Spares @ 30% of O&M expenses	25.78	39.42
7	Receivables for 2 months	673.91	459.43
8	Total Working Capital	1025.74	718.32
9	Rate of interest	8.55	9.25
13	Interest on working capital	87.70	66.44

<sup>1</sup> For Coal based / Lignite based generating station.

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

  
 (Petitioner)

**Details/ Information to be Submitted In respect of Fuel for computation of Energy Charges<sup>1</sup>**

<b>Name of the Petitioner</b>		<b>Pragati Power Corporation Limited</b>		
<b>Name of the Generating Station</b>		<b>Pragati Power Station - I</b>		
<b>Sl. No</b>	<b>Months</b>	<b>Units</b>	<b>April-22 to Mar-23</b>	
			<b>Domestic</b>	<b>Imported</b>
1	Quantity of Gas supplied by Gas Company*	(Million SCM)	0.00	179588.12
2	Adjustment (+/-) in quantity supplied by Gas Company	(Million SCM)	0	0
3	Gas Supplied by Gas Comapny (1+2)	(Million SCM)	0.00	179588.12
4	Normative Transit & Handling Losses	(Million SCM)	0	0
5	Net Gas Supplied (3-4)	(Million SCM)	0.00	179588.12
6	Amount charged by Gas Company	(Rs. )	0.00	1326.88
7	Adjustment (+/-) in amount charged by Gas Company	(Rs. )	0.00	0.00
8	Total Amount charged (6+7)	(Rs. )	0.00	1326.88
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	73.884	
16	Blending Ratio (Domestic/ Imported)			
17	Weighted average cost of coal/Lignite for preceding three months	Rs./SCM		
18	GCV of 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	9488.696	
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, quantirt of coal, and price should be submitted as certified by statutory auditor				
			 (Petitioner)	



Details/ Information to be submitted in respect of Capital Spares for FY 2022-23	
1	Sl. No.
2	Description of Capital Spares
3	Estimated Quantity
4	Estimated Value
5	Remarks

Name of the Petitioner	Pragati Power Station - I
Name of the Generating Station	Pragati Power Station - I

[illegible]

\_\_\_\_\_

*[Signature]*  
Petitioner



## Employee Expenses

Name of the Petitioner: Pragati Power Corporation Limited

Name of the Generating Station: Pragati Power Station - I

(Rs In Cr.)

Sl. No.	Particulars	2022-23	2024-25
1	Salaries	45.35	Claimed as per BPR, 2023
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	45.35	
	<b>Total Employee Costs</b>		
22	Less: Employee expenses capitalised	45.35	
	<b>Net Employee expenses (D)-(E)</b>		

Note:- Details of Actual Employee expenses is given on provisional basis.

  
 (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	173	12	35	13	183	
B	Non-FRSR	0	0	0	0	0	

*Signature*  
Petitioner

**A & G Expenses**

Name of the Company : Pragati Power Corporation Limited

Name of the Power Station: Pragati Power Station - I

Sl. No.	Particulars	2022-23	2024-25 (Rs in Cr)
1	Lease/ Rent		
2	Insurance		
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		
13	Fee And Subscriptions Books And Periodicals		
14	Printing And Stationery		
15	Advertisement Expenses		
16	Contributions/Donations To Outside Institutes / Associations	16.66	
17	Electricity Charges To Offices		
18	Water Charges		
19	Entertainment Charges		
20	Miscellaneous Expenses		
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		
	<b>Total A&amp;G Expenses</b>	16.66	
	Less: A&G Expenses Capitalised		
	<b>Total A&amp;G Expenses</b>	16.66	

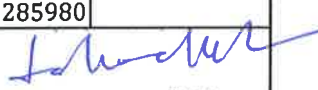
Claimed as  
per BPR,  
2023

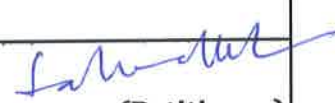
Note:- Details of Actual A&amp;G expenses is given on provisional basis.

  
 Petitioner

## Legal Expenses Incurred during FY 2022-23

Name of the Petitioner		Pragatl Power Corporation Limited			
Name of the Generating Station		Pragatl Power Station - I			
S. No.	Particulars	Case No.	Matter	Fees Per Hearing In Rupees	Total Fees In Rupees
A)	Cases other than 142 before				
1	APTEL	Appeal No. 14 of 2021	Filed by PPCL against DERC tariff order dated 28.08.2020		99000
2	DERC	Petition No. 60 OF 2019	Filed by BSES against DERC order dated 13.05.2019		154000
3	APTEL	Appeal No. 484 of 2023	Filed against DERC tariff order dated 30.09.2021		179580
4	Hon'ble HIGH COURT	WP(C) No. 2904 of 2013	Filed against DERC Tariff Regulations, 2011		8250
5	Hon'ble SUPREME COURT	WP(C) No. 105 of 2014	Filed By BSES		2845150
B)	Cases under 142				
	NIL				
	Total				3285980

  
 Petitioner

FORM-20			
R & M Expenses			
Name of the Petitioner: Pragati Power Corporation Limited			
Name of the Generating Station: Pragati Power Station - I			
Rs. In cr			
Sl. No.	Particulars	2022-23	2024-25
1	Plant and Machinery	13.50	Claimed as per BPR, 2023
2	Building	1.22	
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)		
10	DLN Burners		
11	Other Credits to R&M Charges		
12	Others*	0.36	
	<b>Total</b>	15.08	
13	Any other items (Capitalisation)		
	<b>Total</b>	15.08	
Note:- Details of Actual R&M expenses is on Provisional basis.			
		 (Petitioner)	



## Variable charges for Gas power Plant for FY 2024-25

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	2050	2041	3010
Target Availability claimed	%	85	85	85
Time of operation	Days	365	365	365
Gross Generation	MU	2457.18	2441.69	15.49
Auxilliary Consumption	%	3.00	3.01	1
Auxilliary Consumption	MU	73.72	73.56	0.1548768
Net Generation	MU	2383.465	2368.132	15.333
Total Gross Heat value required	Kcal	5037219000000.00	4982509507556.25	46617916800.00
Gross Heat Obtained from KG Basin Gas	MMBTU/day-GCV			
1 MMBTU	Kcal			
Total Gas Required	SCM	533470413.9	527676364.5	4937105.052
Gross Heat Obtained from KG Basin Gas for the period	Kcal	0.00		
Gross Calorific value of Gas (Assumed)	Kcal/SCM	9442.359	9442.359	9442.359
Volume of KG Basin Gas (APM+PMT+NAPM)	SCM	0		
Balance Heat Required from RLNG	Kcal	50372190000.00		
Gross Calorific value of RLNG (Assumed)	Kcal/SCM	9442.359	9442.359	9442.359
Quantity of RLNG required (RLNG+SPOT-RLNG)	SCM	5334704.14		
Price of KG Basin Gas	Rs./MMBTU-GCV			
Price of KG Basin Gas	Rs./SCM	0.00	0.00	0.00
Price of RLNG	Rs./MMBTU-GCV			
Price of RLNG	Rs./SCM	46.91	46.91	46.91
KG Basins Gas Landed Cost	Rs. Crores	0.000		
RLNG Landed Cost	Rs. Crores	2502.251		
Avg. Landed Cost of Total Gas	Rs/SCM	46.905	46.905	46.905
Total Fuel Cost	Rs. Crores	2502.251	2475.074	23.158
Monthly Fuel Cost	Rs. Crores	208.521	206.256	1.930
Energy Charge rate on Ex-basis	Rs./Unit	10.498	10.452	15.103
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	0.00	0.00	0.00
Energy Charge Rate on Ex-bus basis from RLNG	Rs./Unit	10.50	10.45	15.10

\* Generation in open cycle assumed to be 1%

  
 (Petitioner)