



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/ 328

Dt. 19.01.2021

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

Subject: Filing of Tariff Petition under section 62 of the Electricity Act, 2003
for determination of Tariff for the financial Year 2021-22 and truing up of
tariff for FY 2019-20 for PPS-I Station.

Ref: 1. PPCL letter No. Comml./DERC/F.12/2020-21/306 dt 31.12.2020.

2.DERC letter No. F.3(634)/Tariff-Engg/DERC/Part File/2020-21/6981/2370
dt 18.01.2021

Sir/Madam,

May Please find enclosed herewith the petition for determination of the
Tariff for the Financial Year 2021-22 and truing up of tariff for FY 2019-20 for PPS-
I (six sets).

The filing fee of Rupees One Lakh vide Demand Draft No. 850399 dated
11.01.2021 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,

Yours faithfully,

(Dr. Rajendra Kumar Yadav)
Additional 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
2019-20 and determination of tariff for FY 2021-22 of
PPCL 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:


(S. K. SHARMA)
Pragati Power Corporation Limited

Pragati Power Corporation Ltd.
(A Government Undertaking)
PETITIONER
Himadri, RPH Complex, New Delhi-02

Place: New Delhi

Date: 19-01-2021



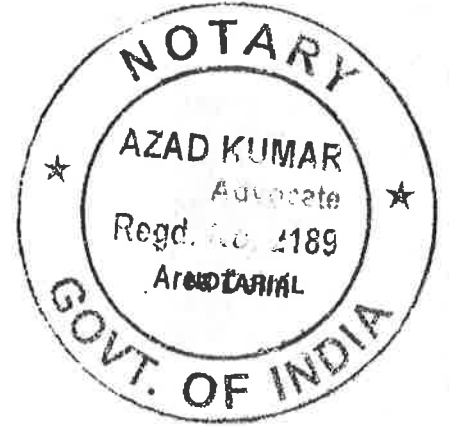
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Certificate Issued Date	: 18-Jan-2021 02:29 PM
Account Reference	: IMPACC (IV)/ dl782603/ DELHI/ DL-DLH
Unique Doc. Reference	: SUBIN-DL78260367889956530631T
Purchased by	: PPCL
Description of Document	: Article 4 Affidavit
Property Description	: Not 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)



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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 2019-20 and determination of tariff for FY 2021-22 of PPCL Station.

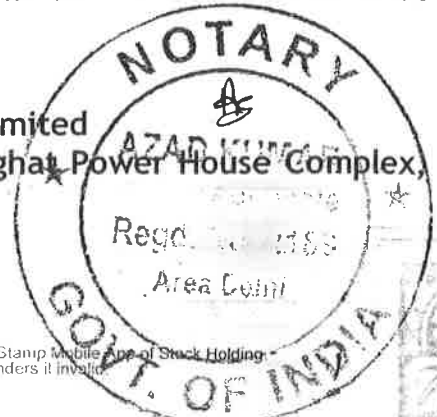
AND

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

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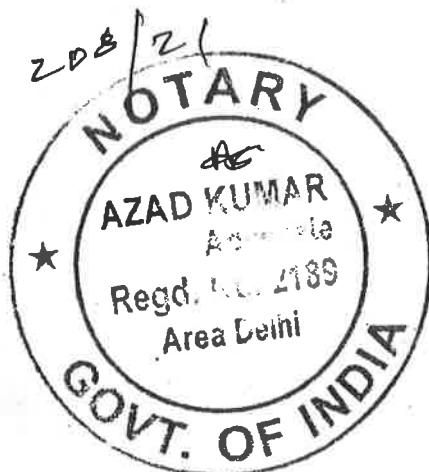
I, Surender Mohan Verma S/o Late Sh. Ram Kishan Verma aged about 58 years, Residing at Flat No. 17, Jai Laxmi Apartment, IP Extn., Delhi-110092, do hereby solemnly affirm and state as follows:

1. That I am working as Director (Technical) in the Petitioner Company and am duly authorized by the said petitioner to make this affidavit on its behalf.
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 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 19 JAN 2021 day of January, 2021.



ATTESTED

Azad Kumar
**BY NOTARY PUBLIC
NEW DELHI (INDIA)
AZAD KUMAR - Adv.**

19 JAN 2021

CABIN No. 33

**U.O. Lane, Azad Bhawan Road
New Delhi-110 002**

[Signature]
(S. M. VERMA)
DEPONENT
Director (Technical)
Pragati Power Corporation Ltd.
(A Govt. of NCT of Delhi Undertaking)
Himadri, RPH Complex, New Delhi-02

[Signature]
(S. M. VERMA)
DEPONENT
Director (Technical)
Pragati Power Corporation Ltd.
(A Govt. of NCT of Delhi Undertaking)
Himadri, RPH Complex, New Delhi-02

BEFORE THE HON'BLE DELHI ELECTRICITY REGULATORY COMMISSION

Petition No. : of 2021

IN THE MATTER OF Filing of tariff Petition under section 62 (2) of the Electricity Act, 2003 for truing up of expenses for FY 2019-20 and determination of tariff for FY 2021-22 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 was replaced 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 determination of PPS-III Bawana is determined by Hon'ble Central Electricity regulatory commission (CERC).
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 by FY 2028. 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 for supply of electricity by a generating company to a distribution licensee and the appropriate Commission may

require a generating company to furnish separate details as may be specified in respect of generation for determination of tariff.

5. Delhi Electricity Regulatory Commission (hereinafter referred to as 'DERC' or the 'Commission') was constituted by the GNCTD on 03.03.1999 and it became operational from 10.12.1999. Accordingly, the State Commission (hereinafter referred as 'DERC') determines the tariff of Pragati Power Station-I which supply power within the Delhi states only.
6. PPS-I is filing the present petition in line with the provisions of clause 13, 140, 142, 145 & 146 of DERC (terms and conditions of determination of Tariff regulation), 2017 and DERC Business Plan Regulations 2017 & 2019 for truing up of expenses for FY 2019-20 and determination of ARR for FY 2021-22 respectively.
7. It is further to submit that Hon'ble APTEL vide its order dated 28.05.2020 in Appeal No. 288 of 2015 filed by petitioner against impugned order dt. 29.09.2015 of State Commission in the matter of petition no. 15 of 2015, has directed to relook and reconsider certain components of true-up for FY 2012-13 & FY 2013-14 and ARR of FY 2015-16. The relevant extracts of APTEL order dated 28.05.2020 is extracts as under:-

"6. The appellants had presented these appeals raising a number of issues under broad heads which are more or less common. However, after filing of these appeals, an assurance has been held out by the State Commission that it would reconsider the contentions of the appellants vis-à-vis three of the said heads in the next tariff orders, the subjects thereby covered being the grievances of the appellants on account of restricted factoring in of interest on working capital to actual scheduled generation for FY 2015-16 in light of the Normative Annual Plant Availability Factor (NAPAF) in terms of Multi Year Tariff ("MYT") Regulations, 2011; the claim of the appellants to incentive for availability over and above the normative availability for FY 2012-13 and FY 2013-14; and the disallowance of "take or pay charges" towards Gas Authority of India Limited (GAIL) and Coal India Limited (CIL). Given the assurance noted above for the said issues being

revisited by the State Commission in the next tariff orders, these grievances vis-à-vis the impugned orders have not been pressed for consideration or determination by us in the present appeals. We make it clear the fact that such issues as above which have not been pressed for decision by this Tribunal for the periods in question in these appeals will not be treated as forfeiture of the claim by the appellants would be at liberty to press the same for appropriate consideration and adjudication at the stage of next tariff order, it being, in turn, the obligation of the State Appeal Nos. 284 and 288 of 2015 Page 6 of 35 Commission to revisit and decide afresh the said in accordance with law without being influenced by its previous dispensation."

Accordingly, Hon'ble APTEL has directed to allow impact of a reconsideration of above issues in the following tariff order. The remanded petition 43 of 2020 is already in progress with State Commission; therefore, Hon'ble Commission is requested to include impact of above parameters on re-consideration in the tariff order of current petition.

8. Due to ongoing Pandemic, Petitioner requested State Commission to allow extension of due date of filing True up petition for FY 2019-20 and determination of ARR for FY 2021-22 vide letter No. Comml./DERC/F.12/2020-21/306 dated 31.12.2020, as the accounts for the FY 2019-20 have not been finalized till date. Therefore Petitioner is filing present petition on provisional values of FY 2019-20. The final values will be filed as additional submission as and when the same are finalized during prudence of present petition or thereafter.

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

9. 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

10. It is submitted that the norms for heat rate in open cycle mode as specified in the DERC Business Plan Regulation, 2017 were not achievable due to partial operation of the units, thus resulting in non optimization of fuel consumption. It is requested to Hon'ble Commission to allow open cycle 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.

11. 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 running hours of the machine. The gas turbine components are subject to high temperature and high velocity of flue gases which needs periodic inspection at regular interval and replacement of worn out parts on the completion of recommended life, beyond which repair is not Economical and reliable. Hence, the expenditure on account of DLN burner/AGPI of the machines is being allowed on actual basis by sate Commission in addition to normative O&M.

12. In line with above, it is to submit that DLN parts of GT#2 of PPS-1 have been worn out and need replacement for efficient and reliable operation. Therefore, the overhauling/repair cycle of the machine is planned to be completed by March-2021. Therefore, Petitioner has placed an order for HGPI (Hot Gas Path Inspection) and worn out part replacement of GT#2.

The supply and services are to be completed by first quarter of FY 2021-22. Hon'ble Commission is therefore requested to allow the expenditure on account of DLN Burner/HGPI additionally during the FY 2021-22. A copy of the order placed to OEM is attached as **Annexure A** for ready reference.

13. Further, PPS-I is sourcing its plant water requirement from the treated effluent water from 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. Therefore, expenditure on account of sewage treated water is being allowed additionally on actual basis by the State Commission. However, as per present practice, the same is recoverable by petitioners only after truing up of expenditure for applicable financial year, this result in a delay in the recovery of more than year after actual expenditure is incurred by Petitioner. Honorable Commission is therefore, requested to allow expenditure on account of STP additionally to normative O&M provisionally in the ARR for PPS-I plant for respective year based upon the estimates given by the petitioner or from the expenditure of previous year.

14. The State Commission in the tariff order dated 28.08.2020 in petition no. 05 of 2020 has allowed the expenditure on account of STP for FY 2014-15 along with carrying cost upto FY 2018-19 only. The Carrying cost on the same has been allowed upto the date of order issued by the Commission i.e 28.08.2020. However, as per the provisions of DERC tariff regulation 2017, the carrying cost on any amount of refund or recovery is to be allowed with carrying cost up to date of billing. The relevant clause 151 of DERC tariff regulation 2017 is re-produced here as under for ready reference;

" 151. The financial gains and losses by a generating company or the transmission licensee, as the case may be, on account of uncontrollable parameters other than capitalization shall be passed on to beneficiaries of the

generating company to the long term transmission customers of transmission system, as the case may be.

Provided that the amount under-recovered or over-recovered, along with simple interest rate the rate equal to the bank rate as on 1st April of the respective year, shall be recovered or refunded by the generating company or the transmission licensee, as the case may be, in six equal monthly installments starting within three months from the date of the tariff order issued by the Commission."

Hence, State Commission is requested to allow the carrying cost for the period FY 2019-20 and FY 2020-21 on the already approved expenditure on account of STP and in line with above regulation.

15. Petitioner may like to further submit that pay and perks of employees of the petitioner Company is determined in line with Central Pay Commission Recommendations. In case of Petitioner Company the same has been implemented on the recommendation of wage revision committee. Since the commission has allowed the impact of 7th Pay commission additionally to the extent of IR paid in the past years, therefore, it is requested to Hon'ble Commission to allow the impact of the same for FY 2019-20 & FY 2021-22 also as additional to normative O&M expenses on actual basis.

16. It is to further submit that the State Commission trued up the tariff for FY 2017-18 and 2018-19 vide tariff order dated 31.07.2019 and 28.08.2020 respectively. However, aggrieved by certain decisions of the State commission contrary to DERC tariff regulation, 2017 and Business plan Regulation, 2017 in the impugned order, Petitioner has filed an APPEAL no. 393 of 2019 and DFR No. 439 of 2020 before Appellate tribunal of Electricity against DERC tariff order dated 31.07.2019 and 28.08.2020 respectively. There are similar issues for FY 2017-18 and FY 2018-19, therefore, Petitioner is filing present petition without prejudice to its submission in existing case on above matter.

Chapter 3 : Norms for Operation

Petitioner has taken into consideration the actual performance parameters for FY 2019-20 and as per DERC business Plan Regulation, 2019 for FY 2021-22 in arriving the financial values.

3.1 Station Heat Rate

17. The Hon'ble Commission has approved 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, 2017 & 2019. The heat rate achieved by the station for FY 2019-20 and as proposed for FY 2021-22 is shown as under:-

Table 3-1: Station Heat Rate (kCal/kWh)

Description	UoM	FY 19-20	FY 21-22
SHR (CC)	kCal/kWh	1979	2000
SHR (OC)	kCal/kWh	3083	2900

18. The heat rate achieved by the station in open cycle mode is on higher side due to partial loading on erratic load scheduling by the beneficiaries. Hence, PPCL requests Hon'ble Commission to relax the norms of SHR in open cycle mode and allow the heat rate on actual basis for FY 2019-20.

3.2 Availability

19. The State Commission has fixed the norm of 85% availability factor for full fixed cost recovery. The Availability achieved by the station for FY 2019-20 and proposed for FY 2021-22 is shown as under:-

Table 3-2: Availability (%)

Description	UoM	FY 19-20	FY 21-22
Plant Availability	(%)	96.95	85

3.3 Auxiliary Power Consumption (APC)

20. The actual APC achieved by the station during FY 2019-20 and proposed for FY 2021-22 is shown here as under:-

Table 3-3: Auxiliary Power Consumption

Description	UoM	FY 19-20	FY 21-22
Auxiliary Consumption	(%)	2.31	2.75

3.4 Gross Generation and Net Generation

21. On the basis of PLF and Auxiliary Power Consumption, the Gross and Net Generation of PPS-I for FY 2019-20 and proposed for FY 2021-22 is shown here as under:-

Table 3-4: Gross and Net Generation

Sr.No.	Description	UoM	FY 19-20	FY 21-22	Remarks
A	Plant Capacity	MW	330	330	
B	NAPLF	%	52.76	85	
C	No. of Days	No.	366	365	
D	Gross Generation	MU	1529.299	2457.180	$C = A * B * C * 24 / 100000$
E	Aux. Cons.	%	2.31	2.75	Table 3-3
F	Aux. Cons.	MU	35.27	67.57	$E = C * D$
G	Net Gen.	MU	1494.031	2389.608	$F = C - E$

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 2019-20 and proposed for FY 2021-22.

4.1 Fuel Consumption

22. 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 an allocation of 1.75 MMSCMD of APM Gas. This gas was sufficient to run both the Gas Turbines on base load. However, due to depleting gas reserves of ONGC, GAIL has been imposing cuts on its supply on day to day basis. MoP&NG has allocated 0.02 MMSCMD non-APM ONGC gas whose supply has been commenced from mid October, 2011. Therefore, to meet the short fall in the gas supply, fall back agreement has been signed with GAIL for supply of R-LNG gas on take and pay basis. In addition to this company enters in short term contract to purchase Spot-RLNG. Thus, PPS-I has sufficient gas to run both the GT's on base load.

23. Based upon the allocation, the consumption of APM, PMT, R-LNG and NAPM gas for FY 2019-20 is shown as under:

Table 4-1: Total Gas Consumption

Description	UoM	FY 19-20
APM Gas	MMSCM	93.810
PMT Gas	MMSCM	11.750
NAPM Gas	MMSCM	17.375
R-LNG Gas	MMSCM	202.473
Total Gas	MMSCM	325.408

4.2 Energy Charge Rate and Fuel Cost

24. The Commission has specified the formula for computation of energy charge rate in Tariff Regulations, 2017 as follows:

"103. Energy charge rate (ECR) in Rupees per kWh on ex-power plant basis shall be determined to three decimal places in accordance with the following formulae:

(b) For gas and liquid fuel based stations

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

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

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

LPPF = Weighted average landed price of primary fuel

AUX = Normative auxiliary energy consumption in percentage;

CVPF = Weighted Average Gross calorific value of primary fuel as received.

25. The prices of the domestic gases are determined by the GoI whereas the price of imported gas is driven by market fundamentals in the LNG market worldwide and is varying every year. Petitioner has considered the actual gas consumption for FY 2019-20 and weighted average landed price of Fuel and GCV of preceding three months i.e September to November 2020 for FY 2021-22 as provided in the Form-15 of DERC Regulation, 2017. Accordingly for FY 2021-22 the fuel cost and ECR has been arrived. The copy of the bills along with calculation is marked as **Annexure B**.

26. However as per Regulation 107 of DERC Regulation, 2017 the landed fuel cost for Tariff determination is to be based on moving average cost of respective fuel before start of the tariff period. The relevant extract is reproduced as under:-

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

Tariff Petition for True-up of Expenses of PPS-I for FY 2019-20 & ARR for FY 2021-22

Accordingly, petitioner has filed current petition as per details required in Form-15. Hon'ble Commission is therefore requested to look in to the ambiguity in above provisions of the regulations as it will impact on working capital and related interest thereon.

27. The details of total gas consumption, rate per SCM and total cost of the gas for FY 2019-20 and proposed for FY 2021-22 is calculated as under:

Table 4-2: Energy Charge Rate and Fuel Cost

Particulars	Unit	FY 19-20	FY 21-22
Total Gas Cons.	MMSCM	325.408	525.11
Avg. Landed Price of Fuel	Rs./ SCM	25.199	21.043
Weighted Average GCV	kCal/ SCM	9305.866	9358.642
Total Gas Cost	Rs. Crore	820.07	1105.00
Net Generation	MU	1494.031	2389.608
Variable Cost - CC	Rs./kWh	5.489	4.624

Chapter 5 : Estimation of Fixed Cost

This chapter deals with the fixed cost parameters achieved for FY 2019-20 and proposed for FY 2021-22 as per DERC (Terms and conditions for determination of tariff) Regulation 2017 and Business Plan regulation 2017 & 2019.

5.1 Operation and Maintenance Expenses

28. Hon'ble Commission has specified the Normative Operation and Maintenance expenses in DERC Business Plan Regulation, 2017 & 2019 for FY 2019-20 & FY 2021-22 shown as under:

Table 5-1: O&M Expenses (Rs. Lakh/ MW)

Station	2019-20	2021-22
PPS-I	19.73	23.90

29. Petitioner has paid an Interim relief to the employees of PPCL for the years starting from FY 17-18 on the recommendation of wage revision committee. The Interim relief paid for FY 2019-20 was of Rs 10.37 Cr. Further, the payment along with the arrears has been paid to the employees of PPCL in FY 2020-21. Accordingly, State Commission is requested to consider the impact of adhoc payment of Rs 10.37 Cr as IR due to pay revision as additional expenditure on account of Employees cost for FY 2019-20.

30. Further it is to submit that the impact of the 7th Pay commission for FY 2021-22 may also be given to the petitioner as additional to normative O&M due to revision in pay structure as same was not envisaged by Hon'ble Commission while fixing norms of O&M in Business Plan Regulation, 2019. PPCL has considered the impact of adhoc payment of Rs 1.67 Cr due to pay revision as additional expenditure on account of Employees cost for FY 2021-22. Thus, State Commission is requested to allow the same for FY 2021-22.

31. Hon'ble Commission in its Business Plan Regulation, 2019 has specified as under:-

"The impact of difference of amount on account of actual implementation of Seventh Pay Revision and Interim Relief already considered for determination of norms for O&M Expenses, if any, shall be allowed separately in line with the methodology adopted for computation of norms for O&M Expenses, at the time of True up of ARR for relevant Financial year subject to prudence check".

32. Further, the State Commission in Business Plan Regulation, 2019 regarding the additional Repair & Maintenance expenses on account of Dry Low NOx (DLN) burners and Sewage Treatment Plant (STP) has quoted as under:-

"Additional Repair & Maintenance expenses on account of Dry Low NOx (DLN) burners and Sewage Treatment Plant (STP), if any, shall be allowed on actual basis during the Control Period after prudence check at the time of True Up on submission of documentary evidence."

33. The repair and maintenance expenditure on account of DLN/AGPI of the machine is cyclic in nature; therefore, varies on year to year basis based on the running hours of the machine. All the expenditure is done after the inspections of the machines as per the manufacturer recommendation. The State commission has been allowing the expenditure on account of DLN burner as additional R&M in previous years on actual basis. The petitioner had spent an amount of Rs 3.62 Cr in FY 2019-20 towards DLN. Further as described in Annexure A, Petitioner has planned to replace the worn out parts of the DLN with HGPI of GT#2 machine as per recommendation of OEM. Accordingly, the expenditure to be incurred towards DLN/HGPI of the machine will be of Rs 64.64 Cr (inclusive of taxes) during FY 2021-22. Therefore, Hon'ble Commission is requested to allow the same additionally to normative O&M in line with Business Plan regulation, 2019.

34. Petitioner has used the sewage treated water for the operation of the plants from sewage treatment plants and has incurred an amount of Rs 112 Cr

towards STP in FY 2019-20 and the amount estimated for FY 2021-22 towards STP will be of Rs 5.20 Cr. Considering the essential O&M requirement to ensure continuous raw water supply for the plant, Hon'ble commission is requested to allow the same for FY 2019-20 and as proposed for FY 2021-22 additionally to normative O&M.

35. In view of above, the actual O & M expenses for FY 2019-20 and proposed for FY 2021-22 is shown as under:

Table 5-2: O & M Expenses

S.No.	Particulars	UoM	FY 19-20	FY 21-22
A	Base O&M expenses	Rs Cr.	65.11	78.87
B	DLN Burner for the period	Rs Cr.	3.62	64.64
C	STP	Rs Cr.	5.12	5.20
D	Impact of Adhoc payment as IR due to Pay Revision	Rs Cr.	10.37	1.67
E	Total O&M Expenses	Rs Cr.	84.22	150.38

5.3 Capital Expenditure

36. Hon'ble Commission has approved the Closing Gross Fixed Asset of Rs. 1048.50 Cr for FY 2018-19 and Rs. 1051.32 Cr for FY 2020-21 in PPCL tariff order dated 28.08.2020.

37. The State Commission in its Business Plan regulation, 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 2020-21 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	-

38. Further, some Capex schemes have been implemented in FY 2019-20.

Earlier, Petitioner has submitted the details of proposed Capex Schemes in its tariff petition no. 06 of 2018 for FY 16-17 and ARR for FY 18-19. These schemes are essential to improve the efficiency, reliability of plants. Accordingly, petitioner has requested to allow the expenditure of Rs 3.13 Cr to be met on account of Up-gradation of STG process controller system, vibration system of GT1, GT2 & STG, Refurbishment of cooling tower cells by replacing fills and Refurbishment of Cooling tower cells and structure. The State Commission in subsequent tariff order dated 28.03.2018 for truing up of tariff for FY 2016-17 and ARR for FY 2018-19 in above petition has approved these capex schemes.

39. Accordingly, the petitioner has spent an amount of Rs 7.99Cr in FY 2019-20 towards Capital Expenditure. Therefore, Hon'ble Commission is requested to true up the above expenditure for FY 2019-20. Accordingly, the GFA of PPS-I for FY 2019-20 and projected for FY 2021-22 is calculated as under:-

Table 5-3: Capital Expenditure

S.No.	Particulars	Unit	FY 2019-20	FY 2021-22
A	Opening GFA	Rs in Cr.	1048.50	1051.32
B	Addition	Rs in Cr.	7.99	0.00
C	Deletion	Rs in Cr.	0.00	0.00
D	Closing GFA	Rs in Cr.	1056.49	1051.32
E	Average GFA	Rs in Cr.	1052.50	1051.32

5.4 Depreciation

40. 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, in accordance with the DERC Tariff Regulation, 2017. The total accumulated depreciation allowed by the Hon'ble Commission till FY 2018-19 was of Rs 822.53 Cr and till FY 2020-21 will be Rs 849.86 Cr. Accordingly, depreciation calculated for FY 2019-20 and projected for FY 2021-22 is as under:-

Table 5-4: Details of Depreciation (Rs. in Cr.)

S.No.	Particulars	FY 19-20	FY 21-22	Remarks
A	Average GFA	1052.50	1051.32	Table 5-3
B	Opening Accumulated Depreciation	822.53	849.86	DERC tariff order dt 28.08.2020
C	Balance Depreciation	124.72	96.33	$C = 90\% \text{ of } A - B$
D	Balance useful life	9	7	
E	Current Year Depreciation	13.86	13.76	$E = C/D$
F	Closing Accumulated Depreciation	836.39	863.62	$F = B + E$
G	Average Accumulated Depreciation	829.46	856.74	$G = (B + F)/2$
H	Average Net Fixed Asset	223.04	194.58	$H = A - G$

5.5 Working Capital

41. Petitioner has calculated the Interest on Working Capital as per DERC Tariff Regulations, 2017 which reads as under:

“(2) Open-cycle Gas Turbine/Combined Cycle thermal generating stations as follows:

(a) Fuel Cost for 30 days corresponding to the NAPAF duly taking into account mode of operation of the generating station on gas fuel and liquid fuel;

(b) Liquid fuel stock for 15 days

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

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

(e) Operation and maintenance expenses for one month.

42. Earlier, State Commission in Tariff order dated 31.07.2019 has taken fuel cost for the month of Mar-19, Apr-19 and May-19 in arriving working capital for FY 19-20. However, as per DERC tariff regulation 2017, the landed fuel cost for Tariff determination is to be based on moving average cost of respective fuel before start of the tariff period. The relevant extract is reproduced as under:-

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

However, as per from-15 of the DERC regulation 2017 weighted average landed price of Fuel and GCV of preceeding three months is to be taken. Accordingly, petitioner has filed current petition as per details required in Form-15. Hon'ble Commission is therefore requested to look in to the

ambiguity in above provisions of the regulations as it will impact on working capital and related interest thereon.

43. Accordingly, Petitioner has taken fuel cost for working capital by taking average of three months from Jan-19 to March-19 as per DERC tariff Regulation 2017 for FY 2019-20. i.e weighted average landed price of fuel is 17.888 Rs/SCM and weighted average GCV is 9346.598 kCal/SCM. The copy of the bills along with calculation is marked as **Annexure C**. Thus, Fuel Cost arrived @ Normative parameters is Rs 943.11 Cr. Accordingly, the working capital arrived for FY 2019-20 and proposed for FY 2021-22 is shown as under:

Table 5-5: Requirement of Working Capital

S.No.	Particulars	Unit	FY 19-20	FY 21-22	Remarks
A	Fuel expenses for 1 month	Rs Cr	78.59	92.08	
C	Maintenance spares @ 30% of O&M	Rs Cr	20.41	45.11	
D	O&M expenses for 1 month	Rs Cr	5.67	12.53	
E	Annual Fixed Cost for the year	Rs Cr	149.84	225.94	
F	Fuel Cost for the year	Rs Cr	943.11	1105.00	
G	Receivables equivalent to 2 months of capacity and energy charge	Rs Cr	182.16	221.82	$G = (E+F)/6$
H	Total Working Capital	Rs Cr	286.83	371.55	$H = A+B+C+D+G$

44. In view of above, Petitioner has revised the requirement of working capital on normative basis for FY 2019-20 as per Form-15 of DERC regulation, 2017 and proposed for FY 2021-22.

5.6 Requirement of Loan and Equity

45. Since accumulated depreciation has reached over and above 70% of Gross Fixed asset, the remaining value is 100% equity only. Accordingly, petitioner has determined the requirement of Loan and Equity for FY 2019-20 and projected for FY 2021-22 as follows:-

Table 5-6: Requirement of Loan & Equity

S.No.	Particulars	Unit	FY 19-20	FY 21-22	Remarks
A	Average Net Fixed Asset	Rs in Cr.	223.04	194.58	Table 5-4
B	Average Equity	Rs in Cr.	223.04	194.58	
C	Average CAPEX Loan	Rs in Cr.	0.00	0.00	
D	Working Capital Loan	Rs in Cr.	286.83	371.55	Table 5-5
E	Total Loan Requirement	Rs in Cr.	286.83	371.55	$E = C + D$
F	Average RRB	Rs in Cr.	509.87	566.13	$F = B + E$

46. 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 in APTEL for adjudication of disputes in treating GFA in absence of any existing loan as above. Therefore Petitioner is filing present true up petition without prejudice to its submission in existing case on above matter.

5.7 Return on Capital Employed

47. 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."

48. 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.

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;

49. 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 and margin as approved in Business Plan Regulations, 2017. Accordingly rate of interest on loan for FY 19-20 has been calculated on the basis of SBI MCLR of 8.55% as on 1st April, 2019 and for FY 2021-22, it is taken as 7.75% as on 1st April, 2020.

50. Petitioner has considered the base rate of return on equity at 14% and the same has been grossed up with rate of income tax @ 17.47% for FY 2019-20 and similarly for FY 2021-22. Accordingly the grossed up rate of return on equity has been computed @ 16.96% for FY 2019-20 and FY 2021-22.

51. Accordingly, Petitioner has computed Weighted Average Cost of Capital (WACC) and Return on Capital Employed (RoCE) for FY 2019-20 and proposed for FY 2021-22 as follows:

Table 5-7: WACC and RoCE

S.No.	Particulars	Unit	FY 19-20	FY 21-22	Remarks
A	Average RRB	Rs in Cr.	509.87	566.13	Table 5-6
B	Total Loan	Rs in Cr.	286.83	371.55	Table 5-6
C	Average Equity	Rs in Cr.	223.04	194.58	Table 5-6
D	Cost of Debt, Rd	%	8.55	7.75	
E	Grossed up Rate of Return on Equity, Re	%	16.96	16.96	
F	WACC	%	12.23	10.92	As per DERC Regulation, 2017
G	RoCE	Rs in Cr.	62.36	61.80	$I = A * H$

5.8 Fixed Auxiliary Consumption Expenses

52. The State Commission has allowed Fixed Auxiliary Consumption (0.5%) @ Normative PLF for FY 2019-20. Accordingly, Petitioner has calculated Fixed Auxiliary Consumption Expenses for FY 2019-20 as follows:

Table 5-8: Fixed Auxiliary Consumption Expenses

S.No.	Particulars	Unit	FY 19-20	Remarks
A	Plant Capacity	MW	330	
B	Normative PLF	%	85	
C	Gross Generation	MU	2463.912	$C = A*B*366*24/1000/100$
D	Fixed Auxiliary Consumption	%	0.5	As Per BPR 2017
E	Fixed Auxiliary Consumption	MU	12.32	$E = C*D$
F	Energy Charge Rate	Rs/kWh	4.427	DERC tariff order dt 31.07.2019
G	Fixed Auxiliary Consumption	Rs Cr	5.45	$G = E*F/10$

5.9 Summary of Fixed Cost

53. The State Commission has provided following provisions regarding fixed cost in DERC tariff regulation 2017:-

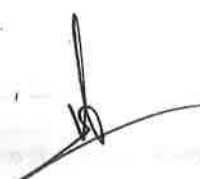
"99. The annual fixed cost (AFC) of a Generating Entity shall consist of the following components as specified in these Regulations: Return on Capital Employed; Depreciation; and Operation and Maintenance expenses."

Accordingly, the Annual Fixed Cost for FY 2019-20 and proposed for FY 2021-22 is shown as under:-

Table 5-9: Annual Fixed Cost

S.No.	Particulars	Unit	FY 19-20	FY 21-22	Remarks
A	Return on Capital Employed	Rs Cr	62.36	61.80	Table 5-7
B	Depreciation	Rs Cr	13.86	13.76	Table 5-4
C	Operation and Maintenance Expenses	Rs Cr	84.22	150.38	Table 5-2
D	Fixed Auxiliary Consumption	Rs Cr	5.45	0.00	Table 5-8
E	Annual Fixed Cost	Rs Cr	165.89	225.94	E = A+B+C+D
F	Net Generation	MU	1494.031	2389.608	Table 3-4
G	Fixed Cost Per Unit	Rs/ kWh	1.11	0.95	G = E/F*10

54. On the basis of above submissions, the Hon'ble Commission is requested to true-up the total fixed cost for FY 2019-20 and allow ARR proposed for FY 2021-22 as per the above submission.



Chapter 6 : 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 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.

Further, in regard to Capex schemes it is to submit that the State Commission vide its tariff order dated 28.03.2018 in petition no. 06 of 2018 had approved the CAPEX schemes of Rs 2.00 Cr for FY 2018-19 in relevant Para 4.24 of tariff order. The details of the Capex schemes submitted by the petitioner in petition no. 06 of 2018 for approval during FY 2017-18 to FY 2020-21 are as under;

Table 6-1: Details of Proposed Capex

S.No.	Scheme	Estimate (Rs. Lacs)	2017-18	2018-19	2019-20	2020-21
1.	GT Compressor Rotor with IGV	3000				3000
2.	Up-gradation of processor of STG Control System	150	75		75	
3.	Vibration System of GT#1,GT#2 & STG	38	38			
4.	Refurbishment of cooling tower cells by replacing fills	200	100	100		
5.	Refurbishment of structure of cooling tower	200	100	100		
	Total Rs. in Lacs	3588	313	200	75	3000
	Total Rs. in crores	35.88	3.13	2.00	0.75	30.00

However, the out of above e Capex Schemes of Rs 3.13 Cr estimated for FY 2017-18 , only one no. of schemes was fully implemented in FY 2018-19 i.e Up-gradation of processor of STG Control System and the same has been allowed by the State

Tariff Petition for True-up of Expenses of PPS-I for FY 2019-20 & ARR for FY 2021-22

Commission in the tariff order dt 28.08.2020 in petition no. 05 of 2020. The rest of the Capex schemes have been implemented in FY 2019-20. The details have been described as under.

Table 6-2: Capex Schemes for FY 19-20

S. N o.	Item/ Scheme	Amount (Rs. In Lac)	Amount claimed inclusive of tax for FY 2019-20 (Rs. In Lac)	Purchase order No.	Remarks
1.	Up gradation of Vibration Monitoring System of GT & STG auxiliaries at PPS-I.	(39.90 ddllacs + taxes)	43.37	4010004772	The Scheme was implemented in FY 2019-20 and the payment has been done for the amount of Rs 36.75 lacs plus taxes. The remaining amount of Rs 3.15 lacs plus taxes will be paid after completion of said scheme. The scheme is pending on service part.
2.	Refurbishment of cooling tower cells by replacement of fills.	(164.75 lacs + taxes)	194.41	4010004705	Scheme Implemented for FY 2019-20, completion date: 07.02.2020
3.	Repair of Distressed RCC Members of Cooling Tower Structure at Pragati Power Station-I.	(126.27 lacs + taxes)	136.50	4020004054	Scheme Implemented for FY 2019-20.
Total (Rs in Lacs)		330.92 lacs + taxes	374.27		
Total (Rs in Cr.)			3.74		

In addition to above some of the schemes related to Enterprise Resource Management implemented during FY 2019-20, however, there is no prior approval of State Commission. The details of the schemes are as under:-

Tariff Petition for True-up of Expenses of PPS-I for FY 2019-20 & ARR for FY 2021-22

S.No.	Item/ Scheme	Amount claimed inclusive of tax for FY 2019-20 (Rs. In Lac)	Remarks
1	Major Technical Refresh of HW/SW of ERP.	413.27	PO No. 4020004011 and 4030000484. Scheme implemented in FY 2019-20.
2	Licence for SAP Fiori Server	11.69	
	Total (Rs in Lacs)	424.96	
	Total (Rs in Cr.)	4.25	


In this regard, petitioner submits that the implementation of ERP in the petitioner company was undertaken on approval of State Commission as Capital Expenditure during the year 2009-2010. The above expenditure is in the process of up-gradation/replacement due to advancement in hardware/software to upkeep the system in synchronous with latest technology and working environment. Therefore expenditure of ERP as detailed above has been met by the petitioner and capitalised in the books during FY 2019-20. Accordingly State Commission is requested to accord ex-post facto approval of the same and allow the Capital expenditure of Rs 7.99 Cr for FY 2019-20.

Chapter 7 : Prayer

7.1 Prayer

Petitioner respectfully prays to the Hon'ble Commission;

- ❖ To admit this petition.
- ❖ To true up the tariff for FY 2019-20 and allow ARR for FY 2021-22.
- ❖ To approve the operational and financial parameters as proposed for FY 2021-22.
- ❖ To consider the impact on performance of thermal generating stations operated in part load operation.
- ❖ To allow the carrying cost on the expenditure incurred in STP in FY 2014-15 for the period FY 2019-20 and FY 2020-21 and up to date of billing as provided in DERC regulation 2017.
- ❖ To allow the expenditure incurred on account of DLN burner and STP for FY 2021-22 as prayed.
- ❖ To allow the submission of final values of PPS-I for FY 2019-20 after finalisation of accounts/during prudence check.
- ❖ 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.


(S.M. VERMA)
(SURENDER MOHAN VERMA)
Director (Technical)
Pragati Power Corporation Ltd.
Director of NCT of Delhi Undertaking
DIRECTOR (TECH.)
Himadri, RPH, Con. No. 1, Delhi-02

Pragati Power Corporation Limited

PETITIONER

**PRAGATI POWER CORPORATION LTD.**

(A Government of NCT of Delhi Undertaking)

PAN NO. AACCP8035F

ANNEXURE-4

**C&M Department,
Pragati Power Station,
IP Estate, Ring Road,
New Delhi-110002
Fax: 011-23379164**

Vendor Code:103483**BHEL GE GAS TURBINE SERVICES PVT LT**

Module A1,A2&A3, Quadrant 01

7th Floor, Cyber Towers,

HITEC City, Madhapur,

Hyderabad-500081

INDIA

Tel No. 011-26448432-34

Mob No. 9958003811

Fax No. 040-27816962

Email ID. dhaneesh.kd@ge.com

Purchase Order No.: 4010005410**PO Date: 18.12.2020****Subject: HGPI of GT-2 with AGP components at PPS-1.****Our Enquiry No.: 1000010971****Your Offer No.:**

Dear Sir,

We are pleased to accept your above cited offer along with correspondences thereof and place our Purchase Order No. 4010005410 dated 18.12.2020. Please arrange to deliver the materials as detailed in Annexure-1 subject to terms and conditions specified in Annexure-5 and in our General Purchase Conditions, other specifications and requirement. Duplicate copy of the Purchase Order may please be signed and returned back to us within 10 days of its receipt in token of acceptance of the same.

All other terms and conditions shall be as per our NIT.

Thanking You,

Regards,

(Naveen C. Sharma)

Addl. General Manager - C&M-I

Copy To:

1. AGM (T) Store, IPGCL/PPCL

2. MGR (FIN) SB

3. Case file

COVID-19 Pledge with "hands, face, space" motto- which advises people to wash their hands, avoid touching their face and giving enough space to those around you.

ANNEXURE - 1

Purchase Order Currency: Indian Rupee
Our Bankers: State Bank of India, Rajghat, New Delhi-110002
Paying Authority: AM(Finance) SB., Rajghat Power House, Rajghat, New Delhi - 110002. Phone No. 011-23282731

Consignee -Manager(Store)
Delivery Address:
 PRAGATI POWER STATION

I.P. ESTATE, RING ROAD
 NEW DELHI 110002, INDIA
Telephone No. : 011-23379578 **Fax No. :**

S.No.	Material Code	Description	Qty	UOM	Unit Rate	Discount%	Lumpsum Discount / Unit	Net Price	Total Amount
10	170101952	AGP BUCKET KIT,1STG,314B7168 G017,GT,FR9E	1	SET	5,04,77,460.00		0	5,04,77,460.00	5,04,77,460.00
Tax: IGST@18%									
20	170101953	AGP BUCKET KIT,2STG,314B7169 G025,GT,FR9E	1	SET	5,64,33,464.00		0	5,64,33,464.00	5,64,33,464.00
Tax: IGST@18%									
30	170101954	AGP BUCKET KIT,3STG,314B7170 G025,GT,FR9E	1	SET	6,95,81,573.00		0	6,95,81,573.00	6,95,81,573.00
Tax: IGST@18%									
40	170101955	AGP NOZZLE KIT,1STG,102T8803 G002,GT,FR9E	1	SET	4,85,86,821.00		0	4,85,86,821.00	4,85,86,821.00
Tax: IGST@18%									
50	170101956	AGP NOZZLE KIT,2STG,101T9158 G002,GT,FR9E	1	SET	6,64,38,997.00		0	6,64,38,997.00	6,64,38,997.00
Tax: IGST@18%									
60	170101957	AGP NOZZLE KIT,3STG,102T1036 G002,GT,FR9E	1	SET	7,06,71,946.00		0	7,06,71,946.00	7,06,71,946.00
Tax: IGST@18%									
70	170101958	AGP SHROUD KIT,1STG,101T7744 G001,GT,FR9E	1	SET	1,22,38,611.00		0	1,22,38,611.00	1,22,38,611.00
Tax: IGST@18%									
80	170101959	AGP SHROUD KIT,2STG,101T7473 G001,GT,FR9E	1	SET	81,53,746.00		0	81,53,746.00	81,53,746.00
Tax: IGST@18%									
90	170101960	AGP SHROUD KIT,3STG,101T7526 G001,GT,FR9E	1	SET	50,38,213.00		0	50,38,213.00	50,38,213.00
Tax: IGST@18%									
100	170101961	TRNSITION PIECE,32K,102T007 9G001,GT,FR9E	1	SET	3,18,53,248.00		0	3,18,53,248.00	3,18,53,248.00
Tax: IGST@18%									
110	170101962	CMBSN LINER KIT,32K,114T8044G 001 GT FR9E	1	SET	7,88,63,774.00		0	7,88,63,774.00	7,88,63,774.00

Tax: IGST@18%								
120	170101964	CROSS FIRE TUBE KIT,32K,GT,GE,FR 9E	1	SET	16,05,833.00	0	16,05,833.00	16,05,833.00
Tax: IGST@18%								
130	170101966	FUEL NOZZLE,PRI,32K,G T,GE,FR 9E	1	SET	2,83,03,249.00	0	2,83,03,249.00	2,83,03,249.00
Tax: IGST@18%								
140	170101967	FUEL NOZZLE,SEC,32K,G T,GE,FR 9E	1	SET	80,03,418.00	0	80,03,418.00	80,03,418.00
Tax: IGST@18%								
150	170101201	SPRING WASHER,158A7887 P001,GT,GE,FR9E	64	NO	263.00	0	263.00	16,832.00
Tax: IGST@18%								
160	170101649	BUSHING,158A7888 P007,GT,GE,FR9E	128	NO	691.00	0	691.00	88,448.00
Tax: IGST@18%								
170	170101283	BUSHING,339A9913 P004,TEFLON,GT,G E,FR9E	64	NO	1,554.00	0	1,554.00	99,456.00
Tax: IGST@18%								
180	170101650	PIPE,298A8538P001, GT,GE,FR9E	64	NO	1,108.00	0	1,108.00	70,912.00
Tax: IGST@18%								
190	170101191	WASHER,THRUST, 352A6633P001,GT,G E,FR9E	64	NO	763.00	0	763.00	48,832.00
Tax: IGST@18%								
200	170101796	STL STR PIN,N512P03112B,G T,GE,FR9E	64	NO	675.00	0	675.00	43,200.00
Tax: IGST@18%								
210	170101797	SCREW SET,N173P02510,GT GE,FR9E	64	NO	675.00	0	675.00	43,200.00
Tax: IGST@18%								
220	170101987	SCREW, CAP HEX HD,N14P33076,GT,G E,FR9E	1	SET	2,802.00	0	2,802.00	2,802.00
Tax: IGST@18%								
230	170101988	STL LOCKNUT,N265BP3 3,GT,GE,FR9E	1	SET	695.00	0	695.00	695.00
Tax: IGST@18%								
240	170101989	GASKET,302A4597P 041,GT,GE,FR9E	1	SET	450.00	0	450.00	450.00
Tax: IGST@18%								

Total Amount

INR53,66,65,180.00

S. B. K.

ANNEXURE - 2

PRAGATI POWER CORPORATION LTD. (A Government of NCT of Delhi Undertaking) TECHNICAL DATA SHEET

S.No.	Material Code	Specification
10	170101952	<p>"PART NAME : AGP BUCKET ASSEMBLY, STAGE 1, PART NUMBER : 314B7168G017,</p> <p>EQUIPMENT NAME : GAS TURBINE,</p> <p>EQUIPMENT MANUFACTURER : GE, EQUIPMENT MODEL NUMBER : FRAME 9E,</p> <p>ADDITIONAL INFORMATION :</p> <p>AGP S1B WITH IMPROVED COOLING DESIGN (TURBULATORS) AND DOVETAIL SEALING,</p> <p>AGP BUCKET SHOULD BE WITH INSTALLATION KIT INCLUDING ALL HARDWARE LIKE</p> <p>AGP BUCKET SEAL PINS, BKT RET KEY, BKT LOCK PIN ETC,</p> <p>ALSO INCLUDE ALL OTHER HARDWARE WHICH ARE REQUIRED FOR SUCCESSFUL</p> <p>INSTALLATION AT SITE, (1 SET = 92 NOS)"</p>
20	170101953	<p>"PART NAME : AGP BUCKET ASSEMBLY, STAGE 2, PART NUMBER : 314B7169G025,</p> <p>EQUIPMENT NAME : GAS TURBINE,</p> <p>EQUIPMENT MANUFACTURER : GE, EQUIPMENT MODEL NUMBER : FRAME 9E,</p> <p>ADDITIONAL INFORMATION :</p> <p>AGP S2B RE-DESIGNED FOR IMPROVED CREEP CAPABILITY AND IMPROVED DOVETAIL SEALING (TWIST LOCK TO REDUCE DOVETAIL LEAKAGE, REDUCED WHEEL POST GAP, INCREASED SEAL PIN LENGTH),</p> <p>AGP BUCKET SHOULD BE WITH INSTALLATION KIT INCLUDING ALL HARDWARE LIKE</p> <p>AGP BUCKET SEAL PINS, BKT RET KEY, BKT LOCK PIN ETC,</p> <p>ALSO INCLUDE ALL OTHER HARDWARE WHICH ARE REQUIRED FOR SUCCESSFUL</p> <p>INSTALLATION AT SITE, (1 SET = 92 NOS)"</p>
30	170101954	<p>"PART NAME : AGP BUCKET ASSEMBLY, STAGE 3, PART NUMBER : 314B7170G025,</p> <p>EQUIPMENT NAME : GAS TURBINE,</p> <p>EQUIPMENT MANUFACTURER : GE, EQUIPMENT MODEL NUMBER : FRAME 9E,</p> <p>ADDITIONAL INFORMATION :</p> <p>S3B (ADVANCED AERO DESIGN, PIP) WITH IMPROVED DOVETAIL SEALING,</p> <p>AGP BUCKET SHOULD BE WITH INSTALLATION KIT INCLUDING ALL HARDWARE LIKE</p> <p>AGP BUCKET SEAL PINS, BKT RET KEY, BKT LOCK PIN ETC,</p> <p>ALSO INCLUDE ALL OTHER HARDWARE WHICH ARE REQUIRED FOR SUCCESSFUL</p> <p>INSTALLATION AT SITE, (1 SET = 92 NOS)"</p>
40	170101955	<p>"PART NAME : AGP NOZZLE ASSEMBLY, STAGE 1, PART NUMBER : 102T8803G002,</p> <p>EQUIPMENT NAME : GAS TURBINE,</p> <p>EQUIPMENT MANUFACTURER : GE, EQUIPMENT MODEL NUMBER : FRAME 9E,</p>

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S.No.	Material Code	Specification
		<p>ADDITIONAL INFORMATION :</p> <p>AGP S1N WITH IMPROVED SEALING AND OPTIMIZED COOLING (FILM COOLING HOLE IMPROVEMENT, REDUCED CHUTE LEAKAGE ON CLOTH SEALS),</p> <p>RE-DESIGNED RETAINING RING WITH OPTIMIZED COOLING AND ANTI-ROTATION PIN SLOT,</p> <p>AGP NOZZLES SHOULD BE WITH INSTALLATION KIT INCLUDING ALL INSTALLATION HARWARE LIKE AGP NOZZLE SEAL PINS ETC,</p> <p>ALSO INCLUDE ALL OTHER HARDWARE WHICH ARE REQUIRED FOR SUCCESSFUL INSTALLATION AT SITE, (1 SET = TWO HALVES)"</p>
50	170101956	<p>"PART NAME : AGP NOZZLE ASSEMBLY, STAGE 2, PART NUMBER : 101T9158G002,</p> <p>EQUIPMENT NAME : GAS TURBINE,</p> <p>EQUIPMENT MANUFACTURER : GE, EQUIPMENT MODEL NUMBER : FRAME 9E,</p> <p>ADDITIONAL INFORMATION :</p> <p>AGP S2N USING GTD-262 ALLOY WITH IMPROVED CREEP, LOW CYCLE FATIGUE, OXIDATION AND WITH IMPROVED SEALING,</p> <p>AGP NOZZLES SHOULD BE WITH INSTALLATION KIT INCLUDING ALL INSTALLATION HARWARE LIKE AGP NOZZLE SEAL PINS ETC,</p> <p>ALSO INCLUDE ALL OTHER HARDWARE WHICH ARE REQUIRED FOR SUCCESSFUL INSTALLATION AT SITE, (1 SET = 16 SEGMENTS)"</p>
60	170101957	<p>"PART NAME : AGP NOZZLE ASSEMBLY, STAGE 3, PART NUMBER : 102T1036G002,</p> <p>EQUIPMENT NAME : GAS TURBINE,</p> <p>EQUIPMENT MANUFACTURER : GE, EQUIPMENT MODEL NUMBER : FRAME 9E,</p> <p>ADDITIONAL INFORMATION :</p> <p>AGP S3N (ADVANCED AERO DESIGN, PIP) WITH IMPROVED SEALING (CLOTH SEALS INSTEAD OF SOLID SEALS),</p> <p>AGP NOZZLES SHOULD BE WITH INSTALLATION KIT INCLUDING ALL INSTALLATION HARWARE LIKE AGP NOZZLE SEAL PINS ETC,</p> <p>ALSO INCLUDE ALL OTHER HARDWARE WHICH ARE REQUIRED FOR SUCCESSFUL INSTALLATION AT SITE, (1 SET = 16 SEGMENTS)" </p>
70	170101958	<p>"PART NAME : AGP SHROUD ASSEMBLY, STAGE 1, PART NUMBER : 101T7744G001,</p> <p>EQUIPMENT NAME : GAS TURBINE,</p> <p>EQUIPMENT MANUFACTURER : GE, EQUIPMENT MODEL NUMBER : FRAME 9E,</p> <p>ADDITIONAL INFORMATION :</p> <p>AGP S1S WITH IMPROVED SEALING, OPTIMIZED COOLING AND LATEST GENERATION</p>

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S.No.	Material Code	Specification
		PATTERNED ABRADABLE COATING FOR IMPROVED DURABILITY AND REDUCED OPERATING CLEARANCE, AGP SHROUD SHOULD BE WITH INSTALLATION KIT INCLUDING ALL INSTALLATION HARWARE LIKE SEAL STRIPS, KEYS, SEAL PINS ETC, ALSO INCLUDE ALL OTHER HARDWARE WHICH ARE REQUIRED FOR SUCCESSFUL INSTALLATION AT SITE, (1 SET= 48 NOS)"
80	170101959	"PART NAME : AGP SHROUD ASSEMBLY, STAGE 2, PART NUMBER : 101T7473G001, EQUIPMENT NAME : GAS TURBINE, EQUIPMENT MANUFACTURER : GE, EQUIPMENT MODEL NUMBER : FRAME 9E, ADDITIONAL INFORMATION : AGP S2S WITH IMPROVED SEALING AND ABRABLE HONEY-COMB FOR IMPROVED OPERATING CLEARANCE, CLOTH AND SOLID SEALS ARE REPLACING PUMPKIN TEETH, AGP SHROUD SHOULD BE WITH INSTALLATION KIT INCLUDING ALL INSTALLATION HARWARE LIKE SEAL STRIPS, KEYS, SEAL PINS ETC, ALSO INCLUDE ALL OTHER HARDWARE WHICH ARE REQUIRED FOR SUCCESSFUL INSTALLATION AT SITE, (1 SET= 32 NOS)"
90	170101960	"PART NAME : AGP SHROUD ASSEMBLY, STAGE 3, PART NUMBER : 101T7526G001, EQUIPMENT NAME : GAS TURBINE, EQUIPMENT MANUFACTURER : GE, EQUIPMENT MODEL NUMBER : FRAME 9E, ADDITIONAL INFORMATION : S3S WITH ABRADABLE HONEY-COMB FOR IMPROVED OPERATING CLEARANCE, CLOTH AND SOLID SEALS REPLACING ARE PUMPKIN TEETH, W-SEAL, AGP SHROUD SHOULD BE WITH INSTALLATION KIT INCLUDING ALL INSTALLATION HARWARE LIKE SEAL STRIPS, KEYS, SEAL PINS ETC, ALSO INCLUDE ALL OTHER HARDWARE WHICH ARE REQUIRED FOR SUCCESSFUL INSTALLATION AT SITE, (1 SET= 32 NOS)"
100	170101961	"PART NAME : TRANSITION PIECE KIT, PART NUMBER : 102T0079G001, EQUIPMENT NAME : GAS TURBINE, EQUIPMENT MANUFACTURER : GE, EQUIPMENT MODEL NUMBER : FRAME 9E, ADDITIONAL INFORMATION : 32K CI ADVANCED EXTENDOR TRANSITION PIECE ASSEMBLY : IMPROVED FORWARD MOUNTS, FULL LENGTH CLASS-C TBC, INTEGRAL MOUNT TP,

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S.No.	Material Code	Specification
		<p>CLOTH TYPE INNER AND OUTER SEALS, TRANSITION PIECE MOUNTING HARDWARE, NEW TP BULLHORNS DESIGN, CLOTH TYPE SIDE SEALS, TRANSITION PIECE SHOULD BE WITH INSTALLATION KIT INCLUDING ALL INSTALLATION HARWARES LIKE BULL HORN, END SEAL, RETAINERS, LOCK PLATES, BOLTS ETC, ALSO INCLUDE ALL OTHER HARDWARE WHICH ARE REQUIRED FOR SUCCESSFUL INSTALLATION AT SITE, (1 SET= 14 NOS)"</p>
110	170101962	<p>"PART NAME : COMBUSTION LINEAR KIT, PART NUMBER : 114T8044G001, EQUIPMENT NAME : GAS TURBINE, EQUIPMENT MANUFACTURER : GE, EQUIPMENT MODEL NUMBER : FRAME 9E, ADDITIONAL INFORMATION : 32K CI ADVANCED EXTENDOR CAP & LINER ASSEMBLY : DOUBLE LEAF HULA SEAL AND 2-COOL DESIGN AFT END SLEEVE, SPRING LOADED LINER STOP WITH WEAR COATING, SIMPLIFIED LIQUID CONNECTIONS, LIP SEALS, GROOVED TIP SFN, NIMONIC LINER AFT END WITH CLASS C TBC (NOTE THAT EXISTING C&LS INSTALLED ON THESE UNITS, CONTAIN C&LS FITTED WITH THIS FEATURE, NEW WEAR COATING ON FN AND X-FIRE TUBE COLLARS, COMBUSTION LINER KIT SHOULD BE WITH INSTALLATION KIT INCLUDING ALL INSTALLATION HARWARE ETC, ALSO INCLUDE ALL OTHER HARDWARE WHICH ARE REQUIRED FOR SUCCESSFUL INSTALLATION AT SITE, (1 SET= 14 NOS)"</p>
120	170101964	<p>"PART NAME : CROSS FIRE TUBE KIT(MALE&FEMALE), EQUIPMENT NAME : GAS TURBINE, EQUIPMENT MANUFACTURER : GE, EQUIPMENT MODEL NUMBER : FRAME 9E, ADDITIONAL INFORMATION : 32K CI ADVANCED EXTENDOR CROSS FIRE TUBE SET (MALE & FEMALE), CROSS FIRE TUBE KIT SHOULD BE WITH INSTALLATION KIT INCLUDING ALL INSTALLATION HARWARE PACKING GASKETS ETC, ALSO INCLUDE ALL OTHER HARDWARE WHICH ARE REQUIRED FOR SUCCESSFUL INSTALLATION AT SITE (1 SET= 14 NOS MALE AND 14 NOS FEMALE)"</p>

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S.No.	Material Code	Specification
130	170101966	"PART NAME : FUEL NOZZLE, PRIMARY, DLN1, EQUIPMENT NAME : GAS TURBINE, EQUIPMENT MANUFACTURER : GE, EQUIPMENT MODEL NUMBER : FRAME 9E, ADDITIONAL INFORMATION : 32K CI ADVANCED EXTENDOR PRIMARY FUEL NOZZLE DLN1, FULLY MACHINED TIPS AND WEAR COATING, PRIMARY FUEL NOZZLE DLN1 SHOULD BE WITH INSTALLATION KIT INCLUDING ALL INSTALLATION HARWARE AND GASKETS ETC, ALSO INCLUDE ALL OTHER HARDWARE WHICH ARE REQUIRED FOR SUCCESSFUL INSTALLATION AT SITE (1 SET= 14 NOS)"
140	170101967	"PART NAME : FUEL NOZZLE, SECONDARY, DLN1, EQUIPMENT NAME : GAS TURBINE, EQUIPMENT MANUFACTURER : GE, EQUIPMENT MODEL NUMBER : FRAME 9E, ADDITIONAL INFORMATION : 32K CI ADVANCED EXTENDOR SECONDARY FUEL NOZZLE DLN1, GROOVED TIP DESIGN AND LIP SEALS, SECONDARY FUEL NOZZLE DLN1 SHOULD BE WITH INSTALLATION KIT INCLUDING ALL INSTALLATION HARWARE AND GASKETS ETC, ALSO INCLUDE ALL OTHER HARDWARE WHICH ARE REQUIRED FOR SUCCESSFUL INSTALLATION AT SITE (1 SET= 14 NOS)"
150	170101201	PART NAME : SPRING WASHER, PART NUMBER : 158A7887P001, EQUIPMENT NAME : GAS TURBINE,#EQUIPMENT MANUFACTURER : GE, EQUIPMENT MODEL NU MBER : FRAME 9E,#ADDITIONAL INFORMATION : IGV ARRGT MS9001IDE - VAR
160	170101649	"PART NAME : BUSHING, PART NUMBER : 158A7888P007, EQUIPMENT NAME : GAS TURBINE, EQUIPMENT MANUFACTURER : GE, EQUIPMENT MODEL NUMBER : FRAME 9E, SUB ASSEMBLY NAME : INLET GUIDE VANE"
170	170101283	"PART NAME : BUSHING, PART NUMBER : 339A9913P004, PART MATERIAL : TEFLON, EQUIPMENT NAME : GAS TURBINE, EQUIPMENT MANUFACTURER : GE, EQUIPMENT MODEL NUMBER : FRAME 9E"
180	170101650	"PART NAME : PIPE, PART NUMBER : 298A8538P001, EQUIPMENT NAME : GAS TURBINE, EQUIPMENT MANUFACTURER : GE,

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S.No.	Material Code	Specification
		EQUIPMENT MODEL NUMBER : FRAME 9E, SUB ASSEMBLY NAME : INLET GUIDE VANE"
190	170101191	PART NAME : WASHER,THRUST, PART NUMBER : 352A6633P001, EQUIPMENT NAME : GAS TURBINE,#EQUIPMENT MANUFACTURER : GE, EQUIPMENT MODEL NUMBER : FRAME 9E,#ADDITIONAL INFORMATION : IGV ARRGT MS9001IDE - VAR
200	170101796	"PART NAME : STL STR PIN, PART NUMBER : N512P03112B, EQUIPMENT NAME : GAS TURBINE, EQUIPMENT MANUFACTURER : GE, EQUIPMENT MODEL NUMBER : FRAME 9E, ADDITIONAL INFORMATION : FOR INLET GUIDE VANE"
210	170101797	"PART NAME : SCREW SET, PART NUMBER : N173P02510, EQUIPMENT NAME : GAS TURBINE, EQUIPMENT MANUFACTURER : GE, EQUIPMENT MODEL NUMBER : FRAME 9E, ADDITIONAL INFORMATION : FOR INLET GUIDE VANE"
220	170101987	PART NAME : SCREW, CAP HEX HD, PART NUMBER :N14P33076, EQUIPMENT NAME : GAS TURBINE,EQUIPMENT MANUFACTURER : GE, EQUIPMENT MODEL NUMBER : FRAME 9E,ADDITIONAL INFORMATION:1 SET=8NOS
230	170101988	PART NAME : STL LOCKNUT, PART NUMBER :N265BP33, EQUIPMENT NAME : GAS TURBINE,EQUIPMENT MANUFACTURER : GE, EQUIPMENT MODEL NUMBER : FRAME 9E,ADDITIONAL INFORMATION:1 SET=8NOS
240	170101989	PART NAME : GASKET, PART NUMBER :302A4597P041, EQUIPMENT NAME : GAS TURBINE,EQUIPMENT MANUFACTURER : GE, EQUIPMENT MODEL NUMBER : FRAME 9E,ADDITIONAL INFORMATION:1 SET=2NOS

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ANNEXURE - 3 (Service)

Paying Authority: AM (Fin) Works. Rajghat Power House, Rajghat, New Delhi - 110002. Phone No. 011-23274396								
S.No.	Service Code	Description	Qty	UOM	Unit Rate	Discount%	Net Price	Total Amount
250		Service during HGPI of GT-2	1.000	AU				1,11,44,268.00
Tax: IGST@18%								
250.10	ME2100371 4C	HGPI with AGP comp. of Fr9e Gas turbine	1.000	AU	65,06,731. 00	0	65,06,731.00	65,06,731.00
250.20	CI21001282 C	C&I SCOPE FOR HGPI OF GT	1.000	NO	10,85,829. 00	0	10,85,829.00	10,85,829.00
250.30	ME2100185 8C	Replacement of IGV activities (if requir	1.000	EA	14,73,183. 00	0	14,73,183.00	14,73,183.00
250.40	ME2100227 5C	Overhauling of AGB of GT	1.000	NO	20,78,525. 00	0	20,78,525.00	20,78,525.00

Total Amount

INR 1,11,44,268



ANNEXURE - 4 (Service)

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S.No.	Service Code	Specification
250	Service during HGPI of GT-2	
250 .10	ME21003714C	Hot Gas Path inspection of the Gas turbine Fr9e with AGP componenets as per given scope of work.
250 .20	CI21001282C	"C&I activities to be carried out during GT HGPI 1. Checking and Calibration of hydraulic control gas valve: SRV, GCV,GTV, GSV and IGV. Replacement of hydraulic control gas valve if required. 2. Checking /Calibration and servicing of all C&I instruments like transmitters, limit switches, solenoid valves, bleed valves etc of Gas Turbine. 3. Servicing of Mark VIE panel, HMI workstation and network switches. Diagnostic alarm checking and removal . 4. Checking of all loops, logics and diagnostic alarms with interlocks for AC/DC pumps and motors. 5. Removal and Reinstallation of all C&I equipment required for HGPI like wheel space thermocouple etc"
250 .30	ME21001858C	(1) Remove inlet elbow, inlet transition piece & bell mouth.#(2) Remove FWD compressor casing.#(3) Inspect IGV#S and do the necessary rectification/ replacement as per requirement.#(4) Do the necessary rectification, angle adjustments, drilling, pinning etc.#(5) Reassemble all above.
250 .40	ME21002275C	O/H of BHEL Make Accessory Gear Box of G T, Model: AA 30 AA as per Scope of Work.



ANNEXURE - 5**Terms and Conditions**

1.	Total Value	INR 54,78,09,448.00
2.	Discount Value	INR .00
3.	Order Value	INR 54,78,09,448.00
4.	Price Basis	FOR Destination at PPS-I store
5.	Packing & Handling Charges	Inclusive
6.	Freight Charges	On vendor account.
7.	Inspection	Inspection will be carried out at PPS-I store after receipt of material at PPS-I store.
8.	Price Variation	Firm.
9.	Mode of Dispatch	By road.
10.	Payment Terms	<p>Original Invoice/Bills/Performa Invoice are to be submitted to Consignee with copy to paying authority & one copy to this office. In case of payment through bank, original documents are to be submitted to our banker with copy to consignee, paying authority and one copy to this office.</p> <p>Material:- 100% Within 30 days of receipt and acceptance of material</p> <p>Service:- 100% payment within 30 days after completion of services.</p> <p>Document to be submitted for release of payment :-</p> <p>(i) Three sets of copy of Invoice along with all requisite document to AGM (Store), C&M Deptt., 220 KV S/Stn Building, Pragati Power Station, IP Estate, Ring Road, New Delhi-110002 and One Set to DM(Store)PPS-I.</p> <p>(ii) Delivery Challan if applicable</p> <p>(iii) LR/RR/AWB if applicable</p> <p>(iv) Guarantee/Warranty certificate</p> <p>(v) Interchangeability Certificate</p> <p>(vi) PBG</p> <p>Paying Authority:- DM(Finance)Store Billing, RPH Contact No.:- 011-23282731 e-mail ID:- pkipgcl@gmail.com sbppcl@gmail.com</p>
11.	Delivery Period	<p>Supply: Delivery period will be six (6) months. On best effort basis, they will expedite the delivery to five (5) months from the date of receipt of PPCL detailed PO. However, LD will be applicable after confirmed delivery period of six months.</p> <p>Site Services: The completion period for subject work shall be 15 days for Service No- 1,2 and 4, and 05 days additional for service no- 3 (if required) from the date of handing over the machine to BGGTS.</p> <p>Date of start: when site is handed over to BGGTS and machine is on turning gear.</p> <p>Date of completion: when the machine put on turning gear after completion of the work</p>



		Name of Concerned DM (Store):-Mr. GOPAL SINGH, PPS-I. MOB:-9891971122																																													
12.	Insurance	On vendor account.																																													
13.	Bank Charges	To Respective account.																																													
14.	Recovery for Delay in Delivery	<p>In case of delay in execution of order beyond stipulated date of delivery schedule, PPCL reserves the right to recover from vendor sum Of equivalent to 0.5% of the value of delayed material/equipment for each week or part thereof subject to maximum of 5% of the total value of Purchase Order, subject to force majeure clause.</p> <p>Supply: The Liquidated damages at 0.5% (half per cent) per week on undelivered value and subject to maximum of 5% of undelivered portion value only.</p> <p>Site Services: The liquidated damages at 0.5% (half percent per week of delay in job completion and maximum 5% of delayed portion value only for solely reason attributed to BGGTS.</p>																																													
15.	WARRANTY/GUARANTEE	<p>For supply of material:- Applicable as mentioned below. In case of any failure spares may be replaced free of cost.</p> <table> <tr> <th>Capital Parts</th><th>Expected Repair</th><th>Expected replace life</th></tr> <tr> <td>Buckets stage 1</td><td>32000</td><td>96000</td></tr> <tr> <td>Buckets stage 2</td><td>32000</td><td>96000</td></tr> <tr> <td>Buckets stage 3</td><td>32000</td><td>96000</td></tr> <tr> <td>Nozzles stage 1</td><td>32000</td><td>96000</td></tr> <tr> <td>Nozzles stage 2</td><td>32000</td><td>96000</td></tr> <tr> <td>Nozzles stage 3</td><td>32000</td><td>96000</td></tr> <tr> <td>Shrouds stage 1</td><td>32000</td><td>96000</td></tr> <tr> <td>Shrouds stage 2</td><td>32000</td><td>96000</td></tr> <tr> <td>Shrouds stage 3</td><td>32000</td><td>96000</td></tr> <tr> <td>Transition Piece</td><td>32000</td><td>96000</td></tr> <tr> <td>Combustion Liner</td><td>32000</td><td>96000</td></tr> <tr> <td>Primary and secondary</td><td>32000</td><td>96000</td></tr> <tr> <td>Nozzles</td><td></td><td></td></tr> <tr> <td>Cross fire tubes</td><td>32000</td><td>96000</td></tr> </table> <p>Guarantee/Warranty for services;- 06 months from the date of success for completion of the work.</p> <p>Vendor has to submit documents along with invoice in case of imported material as a proof of import</p>	Capital Parts	Expected Repair	Expected replace life	Buckets stage 1	32000	96000	Buckets stage 2	32000	96000	Buckets stage 3	32000	96000	Nozzles stage 1	32000	96000	Nozzles stage 2	32000	96000	Nozzles stage 3	32000	96000	Shrouds stage 1	32000	96000	Shrouds stage 2	32000	96000	Shrouds stage 3	32000	96000	Transition Piece	32000	96000	Combustion Liner	32000	96000	Primary and secondary	32000	96000	Nozzles			Cross fire tubes	32000	96000
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Primary and secondary	32000	96000																																													
Nozzles																																															
Cross fire tubes	32000	96000																																													
16.	PBG AMOUNT	<p>You are required to submit 10% of the order value towards Performance Bank Guarantee before claiming the payment as per Performa enclosed herewith.</p> <p>PBG @ 10% of order value for material and service cost</p>																																													
17.	SECURITY DEPOSIT	Not applicable.																																													
18.	INTERCHANGEABILITY CERTIFICATE	The items are interchangeable with the items existing in IPGCL/PPCL and if fails to interchange the same shall be replaced free of cost.																																													
19.	TEST CERTIFICATE																																														

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		Not applicable.
20.	QVC	Not applicable.
21.	Quantity Tolerance	Not applicable
22.	Others	<p>1. GST: Extra as applicable at the time of dispatch however the present rate is IGST@18% extra & TCS is extra if applicable</p> <p>2. HSN Code:-84119900</p> <p>3. SAC Code:-99833</p> <p>4. GSTIN:-36AAACB5126H1ZZ</p> <p>5. Order Cancellation:-Once the order is placed, order cancellation shall be done in line with mutual agreement and confirmation from the BGGTS for the cancellation in writing.</p> <p>6.Limitation of Liability:-Limitation of Liability limited to awarded value of the contract subject to BGGTS liability will be limited to the contract value</p> <p>7.Scope of Work:-</p> <p>(A) Hot gas path inspection of GT-II with AGP</p> <ol style="list-style-type: none"> (1) Record data and shut down (2) Remove turbine compartment roof, inlet duct section as per requirement etc. (3) Remove all piping & all combustion parts. (4) Place mechanical jacks, load and casing & conduct standard checks. (5) Remove turbine casings. (6) Record all the required clearances. (7) Inspect and record all the stator parts (nozzles shroud etc.) (8) Zyglo inspection on buckets. (9) DP check on casing. (10) Reinstall the entire above item. (11) Remove accessory coupling shaft, clean, inspect and do the rectification/replacement work as per requirement. (12) Measure & record the required clearances. (13) Install turbine casing. (14) Install the wheel space thermocouples in 2nd & 3rd stages. (15) Install all the combustion parts & piping. (16) Install turbine compartment roofs etc. (17) Clean the compartment and check for start up. (18) Start turning gear. (19) Crank, check & attend fuel line /water injection line leaks. (20) Perform FSNL test and load. (21) Record data. (22) All the above activities will be as per standard practices of BHEL & GE. <p>(B) C & I Scope-</p> <ol style="list-style-type: none"> 1. Checking and Calibration of hydraulic control gas valve: SRV, GCV, GTV, GSV and IGV. Replacement of hydraulic control gas valve if required. 2. Checking /Calibration and servicing of all C&I instruments like transmitters, limit switches, solenoid valves, bleed valves etc of Gas Turbine. 3. Servicing of Mark VIE panel, HMI workstation and network switches. Diagnostic alarm checking and removal. 4. Checking of all loops, logics and diagnostic alarms with interlocks

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for AC/DC pumps and motors.

5. Removal and Reinstallation of all C&I equipment required for HGPI like wheel space thermocouple etc

(C) Replacement of IGV activities (if required)-

(1) Remove inlet elbow, inlet transition piece & bell mouth.

(2) Remove FWD compressor casing.

(3) Inspect IGV#S and do the necessary rectification/ replacement as per requirement.

(4) Do the necessary rectification, angle adjustments, drilling, pinning etc.

(5) Reassemble all above.

(D) Overhauling of Accessory Gear Box

1. Disassembly of oil deflectors of shaft # 1.

2. Remove Accessory coupling guard.

3. Check accessory coupling radial clearances & axial float of coupling

4. Matchmark and decouple AGB to GT coupling (Accessory coupling)

5. Matchmark and decouple AGB to torque converter coupling.

6. Removing the aux. gear box top cover.

7. Checking and leveling of accessory gear box.

8. Disassembly of hydraulic pump from the aux. gear box.

9. Disassembly of MOP gears and bearings.

10. Taking out of gear trains from the Gear box.

11. Inspection of all the new bearing of shaft #1, #2, #3A, #3B & #4

12. Assemble shaft #4 of aux gear box.

13. Inspection of the MOP gears and bearings. Replace if required.

14. Check and adjusting MOP float if required.

15. Assembly of gears in aux gear box.

16. Inspection of gear backlash and floats.

17. Re-fixing of the accessories like Main Oil Pump, Main Hydraulic Oil

Pump etc. in position.

18. Check closing radial clearances & axial float of coupling

19. Fill with new grease or oil

20. install Accessory coupling guard.

9. Force Majeure:- As per NIT

10. Welding Generator:- Welding generator or any other tooling required for completion of the job shall be arranged by BGGTS

11. Unloading and Loading Facilities:- Loading/Unloading of the material will be in BGGTS scope

12. Machine Shop Facilities:- Machining job required in this case will be in BGGTS scope

13. EOT Crane Operator/Mobile:- Operator for EOT and Mobile cranes shall be arranged by BGGTS

14. Contract agreement for Service:- As per NIT

15. Indemnity Bond for Services:- As per NIT

16. Other T&C :-

1. In order to provide on-line technical support for PPCL GTs, M/s BGGTS

Pvt. Ltd. have offered complimentary Remote Operations Response package.

The details of which as submitted are enclosed.

2. As new TAX regime of Tax Collected at Source (TCS) is applicable on this contract.

3. Other Terms & Conditions: All other terms and conditions shall be as per the last PPCL orders mentioned below for relevant clause:

a) Supply: 4010003495 dt 12/01/2016

b) Service: 4020003775 dt 17/02/2018

17.

Completion Period-

The completion period for subject work shall be 15 days for Service No- 1, 2 and 4, and 05 days additional for service no- 3 (if required) from the date of handing over the machine to BGGTS.

Date of start: when site is handed over to BGGTS and machine is on turning gear.

Date of completion: when the machine put on turning gear after completion of the work.

18.

Safety measures-

Contractor shall ensure that safety rules are observed (as per NIT safety clause) to avoid any accident which may cause loss of life to contractor's or IPGCL/PPCL staff and damage to IPGCL/PPCL property. In

case of violation of these safety instructions, safety codes and applicable Act & Rules, which are necessary to ensure safety of men, material, environment and equipment, or contractor's willful failure to comply with the instructions of Engineer in charge/Safety Engineer; IPGCL/PPCL shall impose a penalty @ 1% or Rs.500/- (Rs Five

Hundred only) whichever is less for each instance of non-compliance subject to maximum 5% of the total contract value. PPCL may provide the

safety equipment to the contractor's employees at his request and the cost of which will be recovered from the contractor's bill.

19. Inspection report: Vendor has to submit the inspection report before submitting the final bill.

Withholding payment:

PPCL may withhold the whole or part of any payment for work claimed by

the contract, which is in the opinion of PPCL, is necessary to protect itself from the loss on account of: -

a. Defective work not remedied

b. Claims filed against the contractor by PPCL for actions by deficiencies of the contractor.

c. Failure by the contractor to make the payment for material and labour appointed by him.

All the insurances are to be arranged by BGGTS in line with last PO No 4020002181 which states that :- M/s BGGTS shall at its own expense, maintain insurance cover like the workmen compensation & third party insurance to the extent of Rs.2 Lacs and hold PPCL harmless from liabilities whatsoever on this account. The copy of Insurance cover to be furnished to PPCL.

The contractor shall ensure compliance of all statutory and mandatory requirements including all labour law requirements. The contractor shall also keep PPCL indemnified against any liabilities that may arise on

this account.

The contractor shall further responsible for observance of all the acts and rules under Factory Act like minimum wages act, EPF act, ESI

Act or any other act , which may become applicable to contractor time to time.

The contractor shall submit EPF & ESI challans along with bill

2. PPCL obligations:

The following will be in the scope of supply of PPCL (free of cost)-

- a. Providing electricity, water and compressed air.
- b. Providing space for site office / store depending upon the availability
- c. All spares and consumables directly going into the machine / equipment
- d. Special tools and tackles
- e. Gantry crane/mobile crane

3. Contractor's Obligations:

The following items are general in nature and are also to be arranged by the contractor at his own cost:

- 1 Welding electrodes
- 2 DA and Oxygen gas
- 3 All general purpose tools and tackles
- 4 Welding machine
- 5 Cutting set
6. Rustolene, marking cloth, cutting wheel, hacksaw blade, Persian blue, DP test kit, Old cotton dhotis etc.
7. Trolley for transportation of material, if required and tools.
8. Crane operator EOT and mobile crane.

Spares, Tools & Tackles:-All the required spares, special tools and tackles etc. are to be provided by PPCL and accounted for by PPCL. BGGTS & its sub-contractor shall bring the general tools and tackles required for job execution which shall be taken back after unit job completion.

The rates include travel to site and back, accommodation and local travel to their team.

Terms and condition for C&I scope of work:

1. The contractor shall provide calibration/testing report of all the instruments within 30 days of completion of work.
2. The contractor shall provide calibration report of master equipment used. The master equipment calibration agency should have standards traceable link to national or international standards.
3. All the calibration , testing instrument and T&P required to carry out the work is in scope of contractor

Contact Person:-Mr. KD Dhaneesh
Mob No:- 9958003811

23 .	Dispatch Advice	The material shall be dispatched, in most securely packed conditions marked for handling during transit(if applicable).
24 .	Execution & Billing By	Company BHEL GE GAS TURBINE SERVICES PVT LT Module A1,A2&A3, Quadrant 01 7th Floor, Cyber Towers, HITEC City, Madhapur, 500081 HYDERABAD INDIA



Annexure B

Working Capital Requirement for FY 21-22

Month	Particulars	UoM	Domestic	Imported	Total	Weighted average	LPPF
Sep-20	Quantity	('000)SCM	11907.5	14142.13	26049.626	76816.691	21.043
	Amount	Rs. in Cr.	12.089	36.492	48.581	161.644	
	GCV	kCal/SCM	9616.284		9616.284	9358.642	
Oct-20	Quantity	('000)SCM	5786.772	19733.86	25520.627		
	Amount	Rs. in Cr.	4.535	49.338	53.873		
	GCV	kCal/SCM	9233.095		9233.095		
Nov-20	Quantity	('000)SCM	2004.67	23241.77	25246.438		
	Amount	Rs. in Cr.	1.567	57.623	59.19		
	GCV	kCal/SCM	9219.714		9219.714		



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

Name of the Generating Company		Pragati Power Corporation Limited		
Name of the Generating Station		Pragati Power Station - I		
Sl. No.	Months	Units	Sep-20	
			Domestic	Imported
1	Quantity of Gas supplied by Gas Company*	('000)SCM	11907.500	14142.126
2	Adjustment (+/-) in quantity supplied by Gas Company	('000)SCM	0.000	0.000
3	Gas Supplied by Gas Comapny (1+2)	('000)SCM	11907.500	14142.126
4	Normative Transit & Handling Losses	('000)SCM		
5	Net Gas Supplied (3-4)	('000)SCM	11907.500	14142.126
6	Amount charged by Gas Company	(Rs. in Cr.)	12.089	36.492
7	Adjustment (+/-) in amount charged by Gas Company	(Rs. in Cr.)		
8	Total Amount charged (6+7)	(Rs. in Cr.)	12.089	36.492
9	Transportation Charges by rail/ship/road/gas pipeline	(Rs. in Cr.)		
10	Adjustment (+/-) in amount charged made by Transport Company	(Rs. in Cr.)		
11	Demurrage / Imbalance/ Ship or Pay Charges, if any	(Rs. in Cr.)		
12	Cost of diesel in transporting coal through MGR system, if applicable	(Rs. in Cr.)		
13	Total Transportation Charges (9+/- 10-11+12)	(Rs. in Cr.)		
14	Total Amount charged for gas supplied including Transportation (8+13)	(Rs. in Cr.)		
15	Landed cost of Coal/Lignite/Gas	Rs./SCM		18.649
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		
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		9616.284

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.

DM (Fin) Fuel Accounting

Dy.Mgr (T) Commercial

Signature

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

Name of the Generating Company		Pragati Power Corporation Limited		
Name of the Generating Station		Pragati Power Station - I		
Sl. No.	Months	Units	Oct-20	
			Domestic	Imported
1	Quantity of Gas supplied by Gas Company*	('000)SCM	5786.772	19733.855
2	Adjustment (+/-) in quantity supplied by Gas Company	('000)SCM	0.000	0.000
3	Gas Supplied by Gas Company (1+2)	('000)SCM	5786.772	19733.855
4	Normative Transit & Handling Losses	('000)SCM		
5	Net Gas Supplied (3-4)	('000)SCM	5786.772	19733.855
6	Amount charged by Gas Company	(Rs. in Cr.)	4.535	49.338
7	Adjustment (+/-) in amount charged by Gas Company	(Rs. in Cr.)		
8	Total Amount charged (6+7)	(Rs. in Cr.)	4.535	49.338
9	Transportation Charges by rail/ship/road/gas pipeline	(Rs. in Cr.)		
10	Adjustment (+/-) in amount charged made by Transport Company	(Rs. in Cr.)		
11	Demurrage / Imbalance/ Ship or Pay Charges, if any	(Rs. in Cr.)		
12	Cost of diesel in transporting coal through MGR system, if applicable	(Rs. in Cr.)		
13	Total Transportation Charges (9+/- 10-11+12)	(Rs. in Cr.)		
14	Total Amount charged for gas supplied including Transportation (8+13)	(Rs. in Cr.)		
15	Landed cost of Coal/Lignite/Gas	Rs./SCM		21.110
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		
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		9233.095

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.

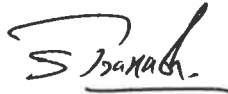
DM (Fin) Fuel Accounting

Dy. Mar (T) Commercial

Annexure C

Working Capital Requirement for FY 19-20

Month	Particulars	UoM	Domestic	Imported	Total	Weighted average	LPPF
Jan-19	Quantity	('000)SCM	19799.43	7030.22	26829.651	45227.012	17.888
	Amount	Rs. in Cr.	24.885	24.331	49.216	80.9	
	GCV	kCal/SCM	9333.05		9333.05	9346.598	
Feb-19	Quantity	('000)SCM	13188.73	4515.929	17704.659		
	Amount	Rs. in Cr.	16.875	14.324	31.199		
	GCV	kCal/SCM	9371.766		9371.766		
Mar-19	Quantity	('000)SCM	692.702	0	692.702		
	Amount	Rs. in Cr.	0.788	-0.303	0.485		
	GCV	kCal/SCM	9228.05		9228.05		



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

Name of the Generating Company

Pragati Power Corporation Limited

Name of the Generating Station

Pragati Power Station - I

Sl. No.	Months	Units	Jan-19	
			Domestic	Imported
1	Quantity of Gas supplied by Gas Company*	('000)SCM	19799.431	7030.220
2	Adjustment (+/-) in quantity supplied by Gas Company	('000)SCM	0.000	0.000
3	Gas Supplied by Gas Company (1+2)	('000)SCM	19799.431	7030.220
4	Normative Transit & Handling Losses	('000)SCM		
5	Net Gas Supplied (3-4)	('000)SCM	19799.431	7030.220
6	Amount charged by Gas Company	(Rs. in Cr.)	24.885	24.331
7	Adjustment (+/-) in amount charged by Gas Company	(Rs. in Cr.)		
8	Total Amount charged (6+7)	(Rs. in Cr.)	24.885	24.331
9	Transportation Charges by rail/ship/road/gas pipeline	(Rs. in Cr.)		
10	Adjustment (+/-) in amount charged made by Transport Company	(Rs. in Cr.)		
11	Demurrage / Imbalance/ Ship or Pay Charges, if any	(Rs. in Cr.)		
12	Cost of diesel in transporting coal through MGR system, if applicable	(Rs. in Cr.)		
13	Total Transportation Charges (9+/- 10-11+12)	(Rs. in Cr.)		
14	Total Amount charged for gas supplied including Transportation (8+13)	(Rs. in Cr.)		
15	Landed cost of Coal/Lignite/Gas	Rs./SCM		18.344
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		
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		9333.050

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.

Dy Mgr (Fin) Fuel Accounting

S. S. S. S.

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

Name of the Generating Company

Pragati Power Corporation Limited

Name of the Generating Station

Pragati Power Station - I

Sl. No. Months

Units

Feb-19

Domestic

Imported

1	Quantity of Gas supplied by Gas Company*	('000)SCM	13188.730	4515.929
2	Adjustment (+/-) in quantity supplied by Gas Company	('000)SCM	0.000	0.000
3	Gas Supplied by Gas Company (1+2)	('000)SCM	13188.730	4515.929
4	Normative Transit & Handling Losses	('000)SCM		
5	Net Gas Supplied (3-4)	('000)SCM	13188.730	4515.929
6	Amount charged by Gas Company	(Rs. in Cr.)	16.875	14.324
7	Adjustment (+/-) in amount charged by Gas Company	(Rs. in Cr.)		
8	Total Amount charged (6+7)	(Rs. in Cr.)	16.875	14.324
9	Transportation Charges by rail/ship/road/gas pipeline	(Rs. in Cr.)		
10	Adjustment (+/-) in amount charged made by Transport Company	(Rs. in Cr.)		
11	Demurrage / Imbalance/ Ship or Pay Charges, if any	(Rs. in Cr.)		
12	Cost of diesel in transporting coal through MGR system, if applicable	(Rs. in Cr.)		
13	Total Transportation Charges (9+/- 10-11+12)	(Rs. in Cr.)		
14	Total Amount charged for gas supplied including Transportation (8+13)	(Rs. in Cr.)		
15	Landed cost of Coal/Lignite/Gas	Rs./SCM	17.622	
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		
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	9371.766	

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.

Sr Mgr (Fin) Fuel Accounting

Dy. Mgr (T) Commercial

S. Singh

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

Name of the Generating Company		Pragati Power Corporation Limited		
Name of the Generating Station		Pragati Power Station - I		
Sl. No.	Months	Units	Mar-19	
			Domestic	Imported
1	Quantity of Gas supplied by Gas Company*	('000)SCM	692.702	0.000
2	Adjustment (+/-) in quantity supplied by Gas Company	('000)SCM	0.000	0.000
3	Gas Supplied by Gas Company (1+2)	('000)SCM	692.702	0.000
4	Normative Transit & Handling Losses	('000)SCM		
5	Net Gas Supplied (3-4)	('000)SCM	692.702	0.000
6	Amount charged by Gas Company	(Rs. in Cr.)	0.769	-0.303
7	Adjustment (+/-) in amount charged by Gas Company	(Rs. in Cr.)		
8	Total Amount charged (6+7)	(Rs. in Cr.)	0.769	-0.303
9	Transportation Charges by rail/ship/road/gas pipeline	(Rs. in Cr.)		
10	Adjustment (+/-) in amount charged made by Transport Company	(Rs. in Cr.)		
11	Demurrage / Imbalance/ Ship or Pay Charges, if any	(Rs. in Cr.)		
12	Cost of diesel in transporting coal through MGR system, if applicable	(Rs. in Cr.)		
13	Total Transportation Charges (9+/- 10-11+12)	(Rs. in Cr.)		
14	Total Amount charged for gas supplied including Transportation (8+13)	(Rs. in Cr.)		
15	Landed cost of Coal/Lignite/Gas	Rs./SCM	6.729	
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		
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	9228.050	

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.

DM (Fin) Fuel Accounting

Dy. Mgr (T) Commercial

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	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	N/A
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	N/A
29	Form-13A	Calculation of Interest on Normative Loan	√
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 ¹	√

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	N/A
	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.	N/A
	3	Copies of relevant loan Agreements	N/A
	4	Copies of the approval of Competent Authority for the Capital Cost and Financial package	N/A
	5	Copies of the Equity participation agreements and necessary approval for the foreign equity	N/A
	6	Copies of the BPSA/PPA with the beneficiaries, if any	N/A
	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 d. Justification for cost and time overrun	N/A
	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)	N/A
	10	Re-conciliation with balance-sheet of any actual additional capitalisation and amongst stages of a generating station.	N/A
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. However the documents to be provided at Sl. No. 8 will be submitted later after finalisation of accounts.			


 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	2019-20	2021-22
1	2	3	4	5
1.1	Depreciation	Rs. Crore	13.86	13.76
1.2	Interest on Loan	Rs. Crore	0.24	-
1.3	Return on Equity ¹	Rs. Crore	53.55	53.49
1.4	Interest on Working Capital	Rs. Crore	24.52	28.80
1.5	O & M Expenses(Actual)	Rs. Crore	84.22	150.38
1.7	Compensation allowance (if applicable)	Rs. Crore	0.00	0.00
1.8	Special allowance (if applicable)	Rs. Crore	0.00	0.00
	Total	Rs. Crore	176.39	246.43
2.1	Landed Fuel Cost (Domestic Gas: APM+PMT+NAPM)	Rs./SCM	12.936	9.235
	(%) of Fuel quantity	(%)	37.78	25.64
2.2	Landed fuel cost (Imported Gas: RLNG+SPOT	Rs./SCM	32.645	25.115
	(%) of Fuel quantity	(%)	62.22	74.36
2.3	Secondary Fuel Oil Cost	Rs./Unit	0	0
	Energy charges Rate ex-bus (paise/Kwh) from Natural Gas (Combined Cycle)	Rs./Unit	2.81	2.03
	Energy charges Rate ex-bus (paise/Kwh) from Natural Gas (Open Cycle)	Rs./Unit	4.31	2.89


 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	2019-20	2021-22
1	2	3	4
A	Opening Capital Cost	1048.50	1051.32
B	Addl: Addition during the year/ period	7.99	0.00
C	Less: Decapitalization during the year / Period	0.00	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	1056.49	1051.32
G	Average Capital Cost	1052.50	1051.32
 Petitioner			

FORM-1(II)

Statement Showing Return on Equity

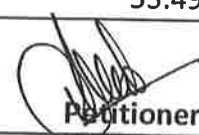
Name of the Petitioner : Pragati Power Corporation Limited

Name of the Generating Station: Pragati Power Station - I

Place (Region / District / State): Delhi

(Rs in Crore)

Sl. No.	Particulars	2019-20	2021-22
1	2	3	4
A	Opening Equity	314.55	315.40
B	Add: Increase due to Addition during the year/ period	2.40	0.00
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	316.95	315.40
G	Average Equity	315.75	315.40
H	Rate of RoE(%)	16.96%	16.96%
I	Return of Equity	53.55	53.49




Petitioner

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
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 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 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 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	2019-20	2021-22
1	2	3	4
Base Rate of Return on Equity	%	14.00	14.00
Effective Tax Rate ⁴	%	17.74	17.74
Target Availability	%	85%	85%
Auxiliary Energy Consumption (CC)	%	2	2.75%
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	19.73	23.90
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	%	8.55%	7.75%
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		
Particulars	2019-20	2021-22	
Last date of order of Commission for the project	Date (DD-MM-YYYY)	28.08.2020	28.08.2020
Reference of petition no. in which the above order was passed	Petition No.	05/2020	05/2020
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)	1048.5	1051.32
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(opening)		822.53	849.86
Freehold land			
 Petitioner			

Details of assets De-capitalised during the period (2019-20)

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					
2					
3					
4					
5					
6					

NOTE: Yearwise detail need to be submitted.

* No Asset has been de-capitalised during the period FY 2019-20


 (Petitioner)

Calculation of Depreciation

Name of the Petitioner		Pragati Power Corporation Limited		
Name of the Generating Station		Pragati Power Station - I		
		FY 2019-20		(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	1,052.50	As Per DERC Regulation 2017	13.86
	Weighted Average Rate of Depreciation (%)			1.32
* 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

Sl. No.	Particulars	(Rs in Crore)	
		2019-20	2021-22
1	2	3	4
	Depreciation on Capital Cost		
A	Opening Capital Cost	1048.50	1051.32
B	Closing Capital Cost	1056.49	1051.32
C	Average Capital Cost	1052.50	1051.32
E	Freehold land		
F	Rate of depreciation	1.32%	1.31%
G	Depreciable Value@90%	947.25	946.19
H	Balance useful life at the beginning of the period	9	7
I	Remaining depreciable value	124.72	96.33
J	Depreciation (for the period)	13.86	13.76
K	Depreciation (annualised)	13.86	13.76
L	Cumulative depreciation at the end of the previous period	822.53	849.86
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	836.39	863.62



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	2019-20	2021-22
1	2	3
(Rs in Crore)		
Gross Normative Loan -Opening	0	0.00
Cumulative repayment of Normative Loan upto previous year	0	0.00
Net Normative Loan- Opening	0	0.00
Add: Increase due to addition during the Year/ Period	5.59	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
Net Normative Loan- Closing	5.59	0.00
Average Normative Loan	2.80	0.00
Weighted Average rate of interest	8.55%	7.75%
Interest on Loan	0.24	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	
		(Rs in Crore)	
Sl. No.	Particulars	2019-20	2021-22
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	78.59	92.08
4	Liquid Fuel Stock ²	0.00	0.00
5	O&M Expenses for 1 month	5.67	12.53
6	Maintenance Spares @ 30% of O&M expenses	20.41	45.11
7	Receivables for 2 months	182.16	221.82
8	Total Working Capital	286.83	371.55
9	Rate of interest	8.55%	7.75%
13	Interest on working capital	24.52	28.80
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.			
 (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-19 to Mar-20	
			Domestic	Imported
1	Quantity of Gas supplied by Gas Company*	(Million SCM)	122935.69	202472.50
2	Adjustment (+/-) in quantity supplied by Gas Company	(Million SCM)	0	0
3	Gas Supplied by Gas Company (1+2)	(Million SCM)	122935.69	202472.50
4	Normative Transit & Handling Losses	(Million SCM)	0	0
5	Net Gas Supplied (3-4)	(Million SCM)	122935.69	202472.50
6	Amount charged by Gas Company	(Rs.)	159.03	660.98
7	Adjustment (+/-) in amount charged by Gas Company	(Rs.)	0.00	0.00
8	Total Amount charged (6+7)	(Rs.)	159.03	660.98
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	25.199	
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	9305.866	
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)

Details/ Information to be submitted in respect of Capital Spares (2019-20)

Name of the Petitioner		Pragati Power Corporation Limited				
Name of the Generating Station		Pragati Power Station - I				
Sl. No.	Details of Capital Spares and Expenses		Claimed as a part of additional Capitalisation	Funded through compensatory allowance	Funded through special allowance (if Applicable)	Claimed as a part of stores and spares
	Name of spare	Amount				
1	ALL BLADE SEALS,5,DAMPER,HRSG BY PASS	25,86,280.65	✓			
2	COMP BLEED VALVE,91417091P004,GT,GE,FR9E	14,07,322.00	✓			
3	HYDRAULIC CYLINDER,298A8866P003,GT,GE	15,87,588.46	✓			
4	FLAME DETECTOR,362A1052P104,GT,GE	16,70,781.12	✓			
5	PUMP,2STG,20.5MWC,750M3/HR,KBL,BHM22.5	21,64,045.18	✓			
6	SUCTION BELL MOUTH,PUMP,BHEL,CW1Q	20,10,912.96	✓			
7	REPAIR KIT,PUMP,NASH,AT2006E	10,53,286.39	✓			
8	REPAIR KIT,PUMP,NASH,AT2006E	5,26,643.54	✓			
9	CHECK VALVE,INTERSTAGE,529,PUMP,NASH	6,89,701.08	✓			
10	CHILLER UNIT,WATER COOLED,80TR,MS FR	12,03,321.00	✓			
11	GEAR BOX,11.18:1,PHARPUR,SERIES 32.2	8,62,277.92	✓			
12	MOTOR,ACT,LMITRQ,SMB-3-150	5,46,930.00	✓			
13	MOTOR,ACT,LMITRQ,SMB-4-200	6,07,700.00	✓			
14	STD O/H KIT,ACT(EHA),REXROTH,D900-211	24,88,202.00	✓			
15	STD O/H KIT,ACT(EHA),REXROTH,D900-213	40,91,156.76	✓			
16	PCAA ASSY/CORE ANLG,IS230PCAAH1A,GE,MK6E	27,30,432.68	✓			
17	IO PACK,RTD,IS220PRTDH1A,PNL,GE,MK6e	14,80,107.04	✓			
18	IO PACK,IS220PAICH1A,PNL,GE,MK6e	10,01,230.00	✓			
19	UCSB PROCESSOR,IS420UCSBH1A,PNL,GE,MK6e	10,85,128.00	✓			
20	MICROOHM METER,0TO2500?,IN-BUILT BATT	5,53,419.66	✓			
21	MOD,ETHERNET I/F,IC693CMM321,PLC,GEFANUC	5,36,900.00	✓			
22	CPU W/ 64MB ON BD MEMORY,IC695CPE330,PLC	11,47,007.09	✓			
	Total	3,20,30,353.53	✓			

Note: The above items are the capital spares purchased during the FY 2019-20. Accordingly, PPCL request Hon'ble Commission to allow separately an amount of Rs 3.20 Cr in respect of capital spares as additional to normative O&M for FY 2019-20.



Petitioner

Employee Expenses

Name of the Petitioner: Pragati Power Corporation Limited

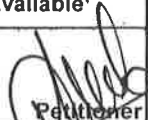
Name of the Generating Station: Pragati Power Station - I

Sl. No.	Particulars	2019-20	2021-22 (Rs in crore)
1	Salaries		
2	Additional Pay		
3	Dearness Allowance (DA)		
4	Other Allowances & Relief		
5	Addl. Pay & C.Off Encashment		
6	Interim Relief / Wage Revision	10.37	1.67
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	10.37	1.67
22	Less: Employee expenses capitalised		
	Net Employee expenses (D)-(E)	10.37	1.67

Note:- Basic expenses of Employee Cost included in Normative O&M. Therefore not shown separately as same is allowed on normative basis


 (Petitioner)

Employee Strength FY 2019-20

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	Reconcilliation with Audited Accounts of the year (Please mention Exact Note/Schedule for the Audlited Accounts), if available
A	FRSR	145	0	0	8	137	
B	Non-FRSR	51	0	0	0	51	
 Petitioner							

A & G Expenses

Name of the Company : Pragati Power Corporation Limited

Name of the Power Station: Pragati Power Station - I

Sl. No.	Particulars	2019-20	2021-22
			(Rs in crore)
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		
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		
	Total A&G Expenses		
	Less: A&G Expenses Capitalised		
	Total A&G Expenses		

Note:- Basic A&G expenses included in Normative O&M. Therefore not shown separately as same is allowed on normative basis.




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					
1	APTEL	Appeal no. 93 of 2016	Filed by BRPL vs PPCL against DERC tariff order dated 29.09.2015		165000
2	APTEL	Appeal No. 288 of 2015	Filed by PPCL against DERC tariff order dated 29.09.2015		132000
3	DERC	Petition No. 40 of 2018	Filed by TPDDL vs IPGCL & ors		49500
4	DERC	Petition No. 23 & 24 OF 2015	BRPL Vs. APCPL & Ors and BYPL Vs. APCPL & Ors		136125
5	DERC	Petition No. 08 & 26 OF 2018	BRPL Vs. IPGCL & Ors and BYPL Vs. IPGCL & Ors		11000
6	HIGH COURT	2904 OF 2013	PPCL Vs. DERC & Ors		49500
7	DERC	Petition No. 60 OF 2019	PPCL VS ITS BENEFICERIES		27500
8	APTEL	Appeal No. 99 OF 2018	BRPL Vs. DERC & ORS		33000
9	APTEL	Appeal No. 393 OF 2019	PPCL Vs. DERC & Ors		54000
10	SCI	Writ Petition No.104/2014 & No.105/2014	BRPL & BYPL VS UOI & ORS		16500
B) Cases under 142					
11	DERC	Petition NO. 51 of 2016	Filed by IPGCL and Ors vs TPDDL regarding non compliance of DERC order dated 18.12.2015		16500

Reconciliation with Audited Accounts of the year (Please mention Exact Note/Schedule for the Audited Accounts), if available


Petitioner

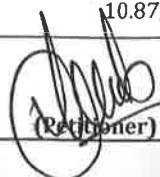
FORM-20			
R & M Expenses			
Name of the Petitioner: Pragati Power Corporation Limited			
Name of the Generating Station: Pragati Power Station - I			
Rs. in cr			
Sl. No.	Particulars	2019-20	2021-22
1	Plant and Machinery	65.11	78.87
2	Building		
3	Civil Works		
4	Hydraulic Works		
5	Lines, Cables Net Works etc.		
6	Vehicles		
7	Furniture and Fixtures		
8	Office Equipments		
9	Station Supplies (STP Expenditure)	5.12	5.20
10	DLN Burners	3.62	64.64
11	Other Credits to R&M Charges		
12	Others*		
	Total	73.85	148.71
13	Any other items (Capitalisation)		-
	Total	73.85	148.71
<p>Note:- Basic R&M included in Normative O&M. Therefore not shown separately as same is allowed on normative basis.</p>			
<p style="text-align: right;">  (Petitioner) </p>			

Variable charges for Gas power Plant for FY 2019-20

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	1980	1978	3083
Target Availability claimed	%	85	85	85
Time of operation	Days	366	366	366
Gross Generation	MU	1529.30	1526.16	3.14
Auxilliary Consumption	%	2.31	2.31	0.5
Auxilliary Consumption	MU	35.27	35.25	0.0157
Net Generation	MU	1494.031	1490.907	3.124
Total Gross Heat value required	Kcal	3028219252104.85	3018537323288.89	9681928815.96
Gross Heat Obtained from KG Basin Gas	MMBTU/day-GCV			
1 MMBTU	Kcal			
Total Gas Required	SCM	325408191.8	324369294.9	1040411.327
Gross Heat Obtained from KG Basin Gas for the period	Kcal	1144023125.71		
Gross Calorific value of Gas (Assumed)	Kcal/SCM	9305.866	9305.866	9305.866
Volume of KG Basin Gas (APM+PMT+NAPM)	SCM	122935.692		
Balance Heat Required from RLNG	Kcal	1884182033.08		
Gross Calorific value of RLNG (Assumed)	Kcal/SCM	9305.866	9305.866	9305.866
Quantity of RLNG required (RLNG+SPOT-RLNG)	SCM	202472.4998		
Price of KG Basin Gas	Rs./MMBTU-GCV			
Price of KG Basin Gas	Rs./SCM	12.94	12.94	12.94
Price of RLNG	Rs./MMBTU-GCV			
Price of RLNG	Rs/SCM	32.65	32.65	32.65
KG Basis Gas Landed Cost	Rs. Crores	159.029		
RLNG Landed Cost	Rs. Crores	660.979		
Avg. Landed Cost of Total Gas	Rs/SCM	25.199	25.199	25.199
Total Fuel Cost	Rs. Crores	820.008	817.390	2.622
Monthly Fuel Cost	Rs. Crores	68.334	68.116	0.218
Energy Charge rate on Ex-basis	Rs./Unit	5.489	5.483	8.392
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	2.82	2.81	4.31
Energy Charge Rate on Ex-bus basis from RLNG	Rs./Unit	7.11	7.10	10.87



(Petitioner)

Variable charges for Gas power Plant for FY 2021-22

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	2000	2000	2900
Target Availability claimed	%	85	85	85
Time of operation	Days	365	365	365
Gross Generation	MU	2457.18	2441.69	15.49
Auxilliary Consumption	%	2.75	2.75	1
Net Generation	MU	2389.608	2374.546	15.333
Total Gross Heat value required	Kcal	4928298912000.00	4883384640000.00	44914272000.00
Gross Heat Obtained from KG Basin Gas	MMBTU/day-GCV			
1 MMBTU	Kcal			
Total Gas Required	SCM	526604062.3	521804832.7	4799229.615
Gross Heat Obtained from KG Basin Gas for the period	Kcal	184355346.58		
Gross Calorific value of Gas (Assumed)	Kcal/SCM	9358.642	9358.642	9358.642
Volume of KG Basin Gas (APM+PMT+NAPM)	SCM	19698.942		
Balance Heat Required from RLNG	Kcal	534544566.56		
Gross Calorific value of RLNG (Assumed)	Kcal/SCM	9358.642	9358.642	9358.642
Quantity of RLNG required (RLNG+SPOT-RLNG)	SCM	57117.75		
Price of KG Basin Gas	Rs./MMBTU-GCV			
Price of KG Basin Gas	Rs./SCM	9.23	9.23	9.23
Price of RLNG	Rs./MMBTU-GCV			
Price of RLNG	Rs./SCM	25.12	25.12	25.12
KG Basis Gas Landed Cost	Rs. Crores	18.191		
RLNG Landed Cost	Rs. Crores	143.453		
Avg. Landed Cost of Total Gas	Rs/SCM	21.043	21.043	21.043
Total Fuel Cost	Rs. Crores	1108.124	1098.025	10.099
Monthly Fuel Cost	Rs. Crores	92.344	91.502	0.842
Energy Charge rate on Ex-basis	Rs./Unit	4.637	4.624	6.586
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	2.03	2.03	2.89
Energy Charge Rate on Ex-bus basis from RLNG	Rs./Unit	5.52	5.52	7.86

* Generation in open cycle assumed to be 1%

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