



# Indraprastha Power Generation Company Limited

(An Undertaking of Govt. of NCT of Delhi)

Corporate Identity Number (CIN) – U40103DL2001SGC111530

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

No. IPGCL/Comml./2024-25/F.12/ 170

Dt. 20.12.2024

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

To, Secretary  
HSE  
DD Rs. 100000/-  
DD No. 851380



Subject: Filing of Tariff Petition under section 62 of the Electricity Act, 2003 for truing up of tariff for FY 2023-24 and determination of tariff & ARR for FY 2025-26 for GTPS Station.

Ref: DERC letter No. F.3(738)/Tariff/DERC/2024-25/8240/1783 dt 11.12.2024.

Sir,

Please find enclosed herewith the petition for truing up of tariff for FY 2023-24 and ARR for FY 2025-26 of GTPS station (six sets).

The filing fees of Rupees One Lakh vide Demand Draft No.851380 dated 07.12.2024 in favour of Secretary, DERC drawn on SBI, RPH for the said petition is also enclosed.

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

Thanking you,

Yours faithfully,

*Sahendra Singh*  
20/12/2024

(Sahendra Singh)

General Manager (Commercial)

Encl: As above

*Raj*  
20/12/24

*ED (Law)*

*JD/Law - on*  
*dean*

*22 cc/22/2024*

*372/2024*  
20/12/24

*DD (1)*  
20/12/24

*JL (S)*  
23/12/24

**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  
2023-24 and determination of tariff & ARR for FY  
2025-26 of GTPS Station.

**AND**

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

**...PETITIONER**

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Filed by:



**Indraprastha Power Generation Company Limited**  
**PETITIONER**

**Place: New Delhi**

**Date: 19.12.2024**



सत्यमेव जयते

INDIA NON JUDICIAL

Government of National Capital Territory of Delhi

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<b>Description of Document</b>	: Article 4 Affidavit
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<b>Second Party</b>	: Not Applicable
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IN-DL97029400092917W

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

IN THE MATTER  
OF

AND

IN THE MATTER  
OF

Filing of Tariff Petition under section 62 of the Electricity Act, 2003 for truing up of tariff for FY 2023-24 and determination of tariff & ARR for FY 2025-26 of GTPS Station.

Indraprastha Power Generation Company Limited  
Regd. Office "Himadri", Rajghat Power House Complex,  
New Delhi - 110 002

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### AFFIDAVIT VERIFYING DOCUMENTS/INFORMATION

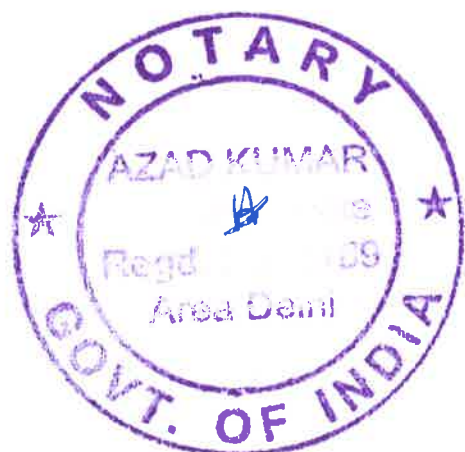
I, Amit Ahuja S/o Sh. K.L. Ahuja aged about 56 years, Resident of A-27, Saraswati Vihar, Pitampura, Delhi -110034, working as Director (Technical) in the Petitioner Company, do hereby solemnly affirm and state as follows:

1. That I am duly authorized by the petitioner company to make this affidavit on its behalf.
2. That the statements made in the petition are based on the provisional records of the company except in the case of estimates wherever made in the said documents, are based on the assumptions and believed by me to be true to the best of my knowledge and be read as part and parcel of this affidavit and the same are not reproduced here for the sake of brevity and nothing has been concealed therefrom.
3. That the Annexures are true copy of the Original.

### VERIFICATION

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

Verified at New Delhi on this .....day of December 2024.



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

9 DEC 2024

*Amit Ahuja*  
**DEPONENT**  
Director (Technical)  
Indraprastha Power Generation Co. Ltd.  
(A Govt. of NCT of Delhi Undertaking)  
'Himadri' RPH Complex, New Delhi-02

*Amit Ahuja*  
**DEPONENT**  
Director (Technical)  
Indraprastha Power Generation Co. Ltd.  
(A Govt. of NCT of Delhi Undertaking)  
'Himadri' RPH Complex, New Delhi-02

**CABIN No. -33**  
ITO Lane, Azad Bhawan Road,  
New Delhi-110002

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

**Petition No. :        of 2024**

**IN THE MATTER OF    Filing of tariff Petition under section 62 (2) of the  
Electricity Act, 2003 for truing up of expenses for FY  
2023-24 and determination of ARR & Tariff for FY 2025-  
26 of GTPS station.**

**AND**

**IN THE MATTER OF    Indraprastha Power Generation Company 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. "Indraprastha Power Generation Company Limited" (IPGCL) is a Government Company engaged in the business of Power Generation and is wholly owned by the Government of National Capital Territory of Delhi. It consists of two stations – Rajghat Power House (RPH) and Gas turbine Power Station (GTPS). The RPH station was closed in December, 2015. The GTPS station has remained in operation and consists of six gas turbines of 30 MW each, using NG/RLNG as fuel and three Waste Heat Recovery Steam Turbines of de-rated capacity of 30 MW each. The gas Turbines of the station were set up in the year 1985-86 to meet the peak load demand of Delhi. The station was retrofitted with Steam Turbines in the year 1996.
2. 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.
3. 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.
4. 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 GTPS Power Station which supplies power within the Delhi states only.

5. Earlier, the Gas Turbine Power Station (GTPS) operates with a total installed capacity of 270 MW. However the PPA of GTPS station was expired in 31<sup>st</sup> March 2021. Accordingly, Hon'ble DERC vide its order dated 24.03.2021 in Petition No. 35/2020 has accorded 'In-principle' approval for Life extension of this station for further 10 years beyond March, 2021 and allowed the extension with following provisions:
  - a) 90 MW (Base Load Capacity) funded through CAPEX; and
  - b) 120 MW (Synchronous Mode Operation) to be funded through PSDF subject to provisions of DERC (Power System Development Fund) Regulations, 2019.
6. As per Regulation 8 of DERC (Terms and Conditions for determination of tariff) Regulations, 2017, the generating entity has to file the Tariff petition before DERC at least 150 days prior to the end of the relevant financial year and hence the last date to submit the petition was 01.11.2024. It is submitted that the PPCL accounts for the FY 2023-24 has not been finalized till date due to which there is delay in filing this petition. Therefore, petitioner prays humble request to the Hon'ble Commission to condone the delay and kindly allow the present petition.
7. The Petitioner is filing the present petition in line with the provisions of DERC Tariff Regulations, 2017 and DERC Business Plan Regulations, 2023 for truing up of tariff for FY 2023-24 and determination of ARR & tariff for FY 2025-26 based on projections. It is further submitted that since the IPGCL accounts have not been finalised, therefore, Petitioner is filing the present petition on provisional basis and requests the Hon'ble Commission to admit the petition and allow submitting the additional submission as and when accounts will be finalised.

## **Chapter 2 : Submissions**

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

### **2.1 Brief of Submissions**

8. IPGCL proposes to make submissions to the Hon'ble Commission in support of this Petition as under:
  - \* Operational Parameters for GTPS
  - \* Financial Parameters for GTPS
  - \* Capital Expenditure for GTPS
  - \* Prayer
9. It is submitted that the norms for heat rate as specified in the DERC Business Plan Regulation, 2023 were not achievable due to part load operation of the units/due to less scheduling by Delhi SLDC, thus resulting in non optimization of fuel consumption. The PLF of the plant in FY 2023-24 is very low i.e. 32.89% against the availability of 83.22%. Thus, it is requested to Hon'ble Commission to allow the heat rate and APC on actual basis, as there is a direct loss on account of recovery of lesser fuel cost when operated under part load operation.
10. This non-scheduling of power may leads to non-utilization of contracted gas quantity resulting in the liability of Take or Pay clause on DISCOMs as per existing Gas agreement. Therefore, the operation of Delhi Generating stations is essential in Delhi to meet the critical power load and to avoid any power crisis situation as well as to avoid Take or Pay liability on distribution licensees.
11. It is further submitted that there has been no change in the Normative Heat rate till date since the Hon'ble Commission started determining the tariff of GTPS station. The Hon'ble Commission ignored the provisions of CERC Tariff Regulations as well as the circumstances in which GTPS have been operating and allowed the same operating Norms as approved earlier in DERC Business Plan regulations, 2023. The Hon'ble Commission did not

consider the plea of the petitioner that the station is very old i.e. completed its life more than 28 years and due to various factors like ageing, frequent start/stops, irregular scheduling of the machines, heat rate as well as auxiliary power consumption of the station get affected.

12.It is submitted that contrary to the orders of Hon'ble Commission in BPR, 2023 petitioner has filed a writ petition no. 15423 of 2023 before Hon'ble High Court of Delhi. Therefore, Petitioner is filing present petition without prejudice to the outcome in existing case on above matters.

13.It is submitted that the Hon'ble Commission vide its order dated 24.03.2021 has allowed the capital infusion of Rs 90.80 Cr towards 90 MW and does not allow any further additional Capex during the extended life of 10 years. In this regard it is to submit that the 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. There are several parts/components in the machine which shall be required to be replaced time to time, otherwise plant may go under forced outages and not be in a position to revive further without replacing the requisite components. Accordingly, in addition to allowed Capex, the Hon'ble Commission is requested to allow expenditure on account of purchase of capital spares in addition to normative O&M expenses in line with CERC Regulations, 2019.

14.Based on the above submission Petitioner request Hon'ble Commission to invoke its power of relaxation wherever required in the petition.

## Chapter 3 : Norms for Operation

Petitioner has taken into consideration the actual performance parameters for truing up of tariff for FY 2023-24 and estimated for FY 2025-26.

### 3.1 Operational Norms

15. The Hon'ble Commission vide its Business Plan Regulations, 2023 has allowed the operating Norms for GTPS as under:-

**Table 3-1: Norms of Operation**

S.No.	Particulars	UoM	FY 23-24
A	Heat Rate (CC)	(kCal/ kWh)	2450
B	Heat Rate (OC)	(kCal/ kWh)	3125
C	APC	%	2.75
D	Availability	%	85
E	PLF	%	85

16. However during FY 2023-24, GTPS station could not achieve the normative parameters approved by the Hon'ble Commission due to frequent Start/Stops of the units and less scheduling by Delhi SLDC. The details of the same areas under:-

**Table 3-2: Actual Parameters achieved by the Station**

S.No.	Particulars	UoM	FY 23-24 to FY 25-26
A	Heat Rate (CC)	(kCal/ kWh)	2639
B	Heat Rate (OC)	(kCal/ kWh)	3498
C	APC	%	6.20
D	Availability	%	83.22
E	PLF	%	32.89

From the above table it is clear that the PLF of the station during FY 2023-24 was very low i.e. only 33%. However the availability of the station as certified by SLDC was 83.22%. Thus, there has been substantial gap between Availability and PLF of the station which has adversely affected the operating parameters of the station.



17. It is submitted that GTPS station has sufficient gas to achieve the target PLF of 85% during FY 2023-24. Still the station did not run due to irregular scheduling by Delhi SLDC, due to which Heat Rate and APC was on higher side as compared to normative Heat Rate and APC allowed by the Commission.
18. It is submitted that the Station has completed its useful life in March 2021. Afterwards, the plant was run beyond its useful life and the Hon'ble commission vide its notification dated 29.03.2023 for Business Plan Regulations, 2023 has wrongly fixed the target norms against the norms submitted by the petitioner for GTPS station and against the principle of degradation with the operating life, which leads to a situation of under recoveries of fixed as well as variable cost. The Hon'ble Commission has failed to appreciate that the Petitioner plant is more than 28 years old and is running on around 30-35% capacity due to less scheduling from Distribution Companies (DISCOMs). However considering the strategic importance of the plant, the same has been running continuously and contributing towards the power requirement of Delhi.
19. Further, the Commission failed to acknowledge its own earlier tariff orders of IPGCL wherein the Commission had given relaxation to the norms while fixing the targets for the generating stations of IPGCL. The relevant extract of Tariff Order dated 13.07.2012 is as under:

***"Commission's Analysis***

*5.88 The GTPS station is 25 years old and has already completed its useful life. The Commission notes that the CERC has also specified separate norms for O&M for the older generating stations.*

*5.89 Considering the old age of the station and the requirement of higher O&M the Commission has not imposed any efficiency factor on the approved O&M expenses for the Station for the Control Period."*

20.CEA has also recognized that the operation efficiency or heat rate and other performance parameters of a Thermal Power Station depends on a number of factors which can be broadly classified as under:-

- a) Technology and equipment
- b) Ambient Conditions
- c) Fuel Quality
- d) Plant operation and maintenance practices.
- e) Unit Sizes

21. Central Electricity Regulatory Commission (Indian Electricity Grid Code) (Fourth Amendment) Regulations, 2016 refers about Technical minimum schedule for operation of power stations. The technical minimum for operation shall be 55% of MCR loading or installed capacity of the unit of at generating station. The CGS or ISGS may be directed by concerned RLDC/SLDC to operate its unit(s) at or above the technical minimum but below the normative plant availability factor on account of grid security or due to the fewer schedules given by the beneficiaries.

22. Further, CERC in its tariff regulations for FY 2019-24 has fixed a Heat rate of 2600 kCal/kWh in combined cycle mode and 3578 kCal/kWh in open cycle mode for similar Assam gas based station of NEEPCO which consists of similar class of gas turbines as of GTPS.

23. As per clause (f) of the National Tariff Policy, 2005, relaxed norms are to be provided for below par old stations. The relevant extracts of the policy which is reproduced as under:

*"In case where operations have been much below the norms for many previous years, the SERC's may fix relaxed norms suitably and draw a transition path over the time for achieving the norms notified by the Central Commission."*

24. In view of above, Hon'ble Commission is requested to relax the operational norms for GTPS station and allowed the same for FY 2023-24 and for FY 2025-26 as under:-

**Table 3-3: Actual and Proposed Operational Parameters**

S.No.	Particulars	UoM	FY 23-24	FY 25-26
A	Heat Rate (CC)	(kCal/ kWh)	2639	2600
B	Heat Rate (OC)	(kCal/ kWh)	3498	3578
C	APC	%	6.20	6.00
D	Availability	%	83.22	85
E	PLF	%	32.89	85

### 3.2 Gross Generation and Net Generation

25. On the basis of above, the Gross and Net Generation of GTPS station during FY 2023-24 and FY 2025-26 is shown here as under:-

**Table 3-4: Gross and Net Generation**

Sr.No.	Description	UoM	FY 23-24	FY 25-26	Remarks
A	Plant Capacity	MW	90	90	
B	NAPLF	%	32.89	85	
C	No. of Days	No.	366	365	
D	Gross Gen.	MU	259.999	670.14	$C$ $=A*B*C*24/100000$
E	Aux. Cons.	%	6.20	6.00	
F	Aux. Cons.	MU	16.12	40.21	$F = D * E$
G	Net Gen.	MU	243.884	629.93	$G = D - F$

## Chapter 4 : Energy Charge Rate and Fuel Cost

This Chapter deals with the fuel sources of GTPS and its consumption throughout the year along with the fuel cost arrived for the year FY 2023-24 and estimated for FY 2025-26.

### 4.1 Fuel Consumption

26. GTPS station of IPGCL runs on the Natural Gas being supplied by GAIL. Earlier GTPS has an allocation of 0.84 MMSCMD domestic gas from MoPNG. However APM gas allocation was reduced to zero since 16.06.2021 on the direction of MOP&NG. Therefore, Petitioner has an agreement with GAIL for supply of 0.6 MMSCMD RLNG gas. As per the agreement with GAIL, the contracted quantity is subject to Take or Pay clause. Accordingly, the Petitioner is to bear the cost of this contracted quantity even if there is no off take of supply.

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

28. Further, DERC vide its order dated 24.03.2021 directed IPGCL to declare availability on 90 MW for GTPS. Accordingly, the total gas required to run the 90 MW on full load (2 GT's and 1 STG) is =  $0.24 \times 2 = 0.48$  MMSCMD. Thus, GTPS has sufficient gas to run the GT's on base load.

29. Based upon the scheduling, the consumption of R-LNG gas for FY 2023-24 is shown as under:

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

Description	UoM	FY 23-24
R-LNG Gas	MMSCM	72.988307



## 4.2 Energy Charge Rate and Fuel Cost

30. 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.*

31. 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. Therefore, petitioner has computed the landed Price of Primary fuel and Gross Calorific Value as per the information available in Form 15 for the months of Jul-24, Aug-24 and Sep-24 to determine the projected fuel cost for FY 2025-26 as under:-

**Table 4-2: Fuel Parameters considered for determination of ECR**

Sr. No	Particulars	UoM	Jul-24	Aug-24	Sep-24
A	Quantum	000'SCM	3348.762	7494.735	7429.309
B	Cost	Rs Cr	16.659	36.799	36.104
C	GCV	kCal/ SCM	9377.44	9367.031	9337.348
D	Average LPPF	Rs/ SCM	49.014		
E	Weighted Average GCV	kCal/ SCM	9356.870		

32. The details of actual fuel cost incurred during FY 2023-24 and projected to be incurred for FY 2025-26 is depicted in the following table as under:

**Table 4-3: Energy Charge Rate and Fuel Cost**

Particulars	Unit	FY 23-24	FY 25-26
Total Gas Cons.	MMSCM	72.988307	186.2123
Avg. Landed Price of Fuel	Rs./ SCM	48.033	49.014
Weighted Average GCV	kCal/ SCM	9400.514	9356.870
Total Gas Cost	Rs. Crore	350.582	912.70
Net Generation	MU	243.884	629.93
<b>Variable Cost - CC</b>	Rs./kWh	<b>14.375</b>	<b>14.489</b>

## Chapter 5 : Estimation of Fixed Cost

This chapter deals with the fixed cost parameters achieved for FY 2023-24 & projected for FY 2025-26 as per DERC (Terms and Conditions for determination of Tariff) Regulations 2017 and Business Plan Regulations, 2023.

### 5.1 Parameters for Fixed Cost

33. As per DERC (Terms and conditions for determination of tariff) Regulation 2017 and Business Plan regulation 2023, the annual fixed cost (AFC) of a Generating Entity shall consist of the following components as specified in these Regulations:

- (a) Return on Capital Employed;
- (b) Depreciation; and
- (c) Operation and Maintenance expenses;

### 5.2 Operation and Maintenance Expenses

34. Hon'ble Commission has specified the Normative Operation and Maintenance expenses in DERC Business Plan Regulations, 2023 for the period from FY 2023-24 to FY 2025-26 as under:

**Table 5-1: O&M Expenses (Rs in Cr.)**

Station	FY 2023-24	FY 2024-25	FY 2025-26
<b>GTPS</b>	33.11	34.65	36.27

35. The maintenance activities of Gas Turbines are cyclic in nature and depend upon the running hours of the machines. The expenditure incurred during the maintenance activities varies depending upon the type of inspections carried out on the machines. All the inspections and overhauling of the machines are done as per the manufactures recommendation.

36. Hon'ble DERC vide its order dated 24.03.2021 in Petition No. 35/2020 has accorded 'In-principle' approval for Life extension of this station for further 10 years beyond March, 2021 and allowed the extension with following provisions:

- a) 90 MW (Base Load Capacity) funded through CAPEX; and
- b) 120 MW (Synchronous Mode Operation) to be funded through PSDF.

37. Further, the Hon'ble Commission vide its order dated 09.10.2021 in RP No. 30 of 2021 directed IPGCL to declare availability for 270 MW of GTPS on Administered Pricing Mechanism (APM) gas or any other alternative fuel available, as an interim measure, until further Orders. Accordingly, IPGCL has made all efforts to ensure the plant available for generation corresponding to 210 MW Capacity including maintain adequate man power at the station, availability of Fuel, availability O&M Spares, the availability of fund for payment of gas bills which arises every fortnightly, ensure the availability/running of corresponding auxiliary of the station etc.

38. The details of Actual O&M expenses during FY 2023-24 are as under:-

**Table 5-2: Actual O&M Expenses during FY 2023-24**

S.No.	Particulars	Amount (Rs in Cr.)
A	Employee Expenses	42.15
B	Repair & Maintenance expenses	5.04
C	A & G expenses	18.37
<b>Total</b>		<b>65.56</b>

39. Further, Petitioner has computed the estimated O&M expenses for FY 2025-26 based on the actual O&M expenses incurred during the FY 2023-24 by multiplying the escalation factor of 4.66% twice as allowed by DERC in BPR, 2023.

40. In view of above, Hon'ble Commission is requested to allow the O&M expenses for FY 2023-24 and projected for FY 2025-26 as under:-

**Table 5-3: O & M Expenses**

S.No.	Particulars	UoM	FY 23-24	FY 25-26
A	Actual O&M expenses	Rs Cr.	65.56	71.81
D	<b>Total O&amp;M Expenses</b>	<b>Rs Cr.</b>	<b>65.56</b>	<b>71.81</b>



### 5.3 Capital Expenditure

41. Hon'ble Commission in its tariff order dated 30.09.2021 has approved the opening GFA of Rs. 123.87 Cr for retrofitting of 1 module (i.e. 90 MW) (inclusive of remaining depreciable value of 210 MW capacity) provisionally subject to prudence check at the time of Truing-up. Assuming Proportionate value for retained asset of 210 MW out of 270 MW of Rs 33.06 Cr.

42. The Hon'ble Commission in its Business Plan Regulations, 2023 has allowed the Capital expenditure for the control period FY 2023-24 to FY 2025-26 as under:-

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

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

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

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

43. Hon'ble Commission vide its order dated 24.03.2021 allowed Capex amounting to Rs 90.00 Cr for GTPS plant for its life extension for combined cycle operation. IPGCL has planned to use this expenditure in phase manner without affecting the plant generation. Therefore, out of Rs 90.00 Cr, the Hon'ble Commission has allowed the Capex of Rs 30.00 Cr during FY 2023-24 and FY 2024-25 in DERC Business Plan Regulations, 2023. However, the scheme was not implemented in FY 2023-24 due to some technical constraint such as non-signing of PPA by the beneficiaries.

44. The station has apprised the board that due to non-implementation of the Capex schemes, the company is having operational losses on account of higher heat rate and APC. Therefore, station is planning to implement the Capex of Rs 47.90 Cr during FY 2025-26 in order to reduce the operational losses. The Board has directed to submit this proposal to the Govt. of NCT of Delhi for consideration. The approval was given by GNCTD and the Capex schemes of Rs 47.90 Cr are likely to be implemented in FY 2025-26. Therefore, Hon'ble Commission is requested to allow the Capex schemes of

Rs 47.90 Cr likely to be implemented in the FY 2025-26. It is to be noted that these schemes are part of the already allowed Capex of Rs 90.00 Cr allowed by the Hon'ble Commission.

45. Since no capital investment/Capex was done by GTPS on account of retrofitting of 1 module during FY 2021-22, FY 2022-23 & FY 2023-24, IPGCL has considered the opening GFA of Rs 33.06 Cr.

46. Further an amount of Rs 1.81 Cr has been capitalized towards Bought out assets and an amount of Rs 1.55 Cr has been capitalized in the books during FY 2023-24 as per IND-AS. Hon'ble Commission is requested to allow the expenses towards Capital Spares additionally in line with CERC Regulations, 2019. The details of the same have been furnished in the Tariff forms. Therefore, Hon'ble Commission is requested to approve the additional capitalization of Rs 3.36Cr (Rs 1.81 Cr + Rs 1.55 Cr) during FY 2023-24.

47. Further an amount of Rs. 0.20 Cr. has been de-capitalized during the FY 2023-24. The amount of Rs 0.20 Cr pertains to consumption of Capital spares which was not initially capitalized as part of GFA by Hon'ble DERC. Since these assets/capital spares were not part of GFA, the same shall not be deducted from GFA.

48. In view of above, the details of Gross Fixed Assets of GTPS since FY 2023-24 is shown as under: -

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

S.No.	Particulars	UoM	FY 21-22	FY 22-23	FY 23-24	FY 24-25	FY 25-26
A	Opening GFA	Rs in Cr.	33.06	33.06	32.24	35.60	35.60
B	Addition	Rs in Cr.	0.00	0.21	3.36	0.00	47.90
C	Deletion	Rs in Cr.	0.00	1.03	0.00	0.00	0.00
D	Closing GFA	Rs in Cr.	33.06	32.24	35.60	35.60	83.50
E	Average GFA	Rs in Cr.	33.06	32.65	33.92	35.60	59.55

## 5.4 Depreciation

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

50. Accordingly, petitioner has calculated the depreciation for FY 2023-24 and estimated for FY 2025-26 as under:-

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

S.No.	Particulars	FY 21-22	FY 22-23	FY 23-24	FY 24-25	FY 25-26	Remarks
A	Average GFA	33.06	32.65	33.92	35.60	59.55	
B	Opening Accumulated Depreciation	0	2.98	5.25	8.41	11.79	
C	Balance Depreciation	29.75	26.41	25.28	23.63	41.81	C = 90% of A - B
D	Balance useful life	10	9	8	7	6	Remaining life
E	Current Year Depreciation	2.98	2.93	3.16	3.38	6.97	E = C/D
F	Depreciation on account of retired Assets	0	0.66	0	0	0	
G	Closing Accumulated Dep.	2.98	5.25	8.41	11.79	18.76	G = B + E-F
H	Average Accumulated Dep.	1.49	4.11	6.83	10.10	15.27	H = (B + G)/2
I	Average Net Fixed Asset	31.57	28.54	27.09	25.50	44.28	I = A - H

## **5.5 Working Capital**

51. Petitioner has calculated the Working Capital for FY 2023-24 and FY 2025-26 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.*

52. Since the Hon’ble Commission has not approved the working capital for FY 2023-24, the petitioner has calculated the same at normative parameters by considering the weighted average of preceeding three months of Jan 2023, to March 2023 before Start of the tariff period as per DERC Regulations, 2017 as under:-

**Table 5-6: Fuel Parameters considered for determination of Working capital**

<b>Sr. No.</b>	<b>Particulars</b>	<b>UoM</b>	<b>Jan-23</b>	<b>Feb-23</b>	<b>Mar-23</b>
A	Quantum	000'SCM	7847.083	7280.486	5463.104
B	Cost	Rs Cr	38.32	35.425	24.779
C	GCV	kCal/ SCM	9459.62	9467.21	9279.68
D	Average LPPF	Rs/ SCM	47.849		
E	Weighted Average GCV	kCal/ SCM	9414.562		

53. Further, it is submitted that petitioner has computed the working capital for FY 2025-26 by considering the weighted Avg. fuel for the period from Jul-24 to Sep-24.



54. In view of above, the working capital requirement for FY 2023-24 and FY 2025-26 is computed as under:-

**Table 5-7: Requirement of Working Capital (Rs in Cr.)**

S.No.	Particulars	Unit	FY 23-24	FY 25-26	Remarks
A	Fuel expenses for 1 month	Rs Cr	69.73	76.06	
B	Maintenance spares @ 30% of O&M	Rs Cr	19.67	21.54	
C	O&M expenses for 1 month	Rs Cr	5.46	5.98	
D	Annual Fixed Cost for the year	Rs Cr	92.34	108.35	
E	Fuel Cost for the year	Rs Cr	836.74	912.70	
F	Receivables equivalent to 2 months of capacity and energy charge	Rs Cr	154.85	170.17	
G	Total Working Capital	Rs Cr	249.71	273.76	G = A+B+C+D+F

55. In view of above, Petitioner requests State Commission to consider the working capital as proposed for FY 2023-24 and FY 2025-26 as shown in the table above.

## 5.6 Requirement of Loan and Equity

56. Since accumulated depreciation has reached over and above 70% of Gross Fixed asset, petitioner has considered the Average NFA as 100% equity only. Accordingly, petitioner has determined the requirement of Loan and Equity for FY 2023-24 and FY 2025-26 as under:-

**Table 5-8: Requirement of Loan & Equity (Rs in Cr.)**

S.No.	Particulars	Unit	FY 23-24	FY 25-26	Remarks
A	Average Net Fixed Asset	Rs in Cr.	27.09	44.28	
B	Average Equity	Rs in Cr.	8.13	13.28	
C	Average CAPEX Loan	Rs in Cr.	18.96	31.00	
D	Working Capital Loan	Rs in Cr.	249.71	273.76	
E	Total Loan Requirement	Rs in Cr.	268.67	304.75	$E = C + D$
F	Average RRB	Rs in Cr.	276.79	318.04	$F = B + E$

57. In view of above, Hon'ble Commission is requested to allow the working capital for FY 2023-24 and as estimated for FY 2025-26 as proposed above.

## 5.6 Return on Capital Employed

58. Hon'ble Commission has specified the methodology for allowing Return on Capital Employed in Tariff Regulations, 2017 as follows:

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

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

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

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

Where,

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

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

60. 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;

61. In this regard it is to submit that petitioner has considered the rate of interest on loan by considering the Bank Rate as Marginal Cost of Fund based Lending Rate (MCLR) of SBI as notified by the State Bank of India plus margin as per DERC Business Plan Regulations, 2023. Therefore, petitioner

has considered the rate of interest on loan as 8.50% for FY 2023-24 on the basis of SBI MCLR as on 01.04.2023 and 8.95% for FY 2025-26 on the basis of current SBI, MCLR.

62. Petitioner has considered the base rate of return on equity @ 13% for FY 2023-24 and FY 2025-26 as per DERC (Business Plan Regulations), 2023 and the same has been grossed up with rate of income tax @ 24.956%. Accordingly, the grossed up rate of return on equity has been computed @ 17.323% for FY 2023-24 and FY 2025-26.

63. Accordingly, Petitioner has requested Hon'ble Commission to consider the Weighted Average Cost of Capital (WACC) and Return on Capital Employed (RoCE) for FY 2023-24 and FY 2025-26 calculated as under:

**Table 5-9: Computation of RoCE (Rs in Cr.)**

S.No.	Particulars	Unit	FY 23-24	FY 25-26	Remarks
A	Average RRB	Rs in Cr.	276.79	318.04	
B	Total Loan	Rs in Cr.	268.67	304.75	
C	Average Equity	Rs in Cr.	8.13	13.28	
D	Cost of Debt, Rd	%	8.5	8.95	
E	Grossed up Rate of return on Equity, Re	%	17.323	17.323	
F	WACC	%	8.76	9.30	As per DERC Regulation, 2017
G	RoCE	Rs in Cr.	24.24	29.58	$G = A * F$

## 5.7 Summary of Fixed Cost

64.The Hon'ble Commission has provided following provisions regarding fixed cost in DERC Tariff Regulation 2017:-

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

Accordingly, the Annual Fixed Cost for FY 2023-24 and FY 2025-26 is computed as under:-

**Table 5-10: Annual Fixed Cost (Rs in Cr.)**

S.No.	Particulars	Unit	FY 23-24	FY 25-26	Remarks
A	Return on Capital Employed	Rs Cr	24.24	29.58	
B	Depreciation	Rs Cr	3.16	6.97	
C	Operation and Maintenance Expenses	Rs Cr	65.56	71.81	
D	Annual Fixed Cost	Rs Cr	92.96	108.35	D = A+B+C
E	Net Generation	MU	243.884	629.93	
F	Fixed Cost Per Unit	Rs/ kWh	3.812	1.720	F = D/E*10

65.On the basis of above submissions, Hon'ble Commission is requested to allow the fixed cost for FY 2023-24 and FY 2025-26 as shown in the table above.



## **Chapter 6: Prayer**

### **6.1 Prayer**

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

- ❖ To condone the delay and admit this petition.
- ❖ To true up the tariff for FY 2023-24 and projected for FY 2025-26.
- ❖ To approve the operational and financial parameters as proposed for FY 2023-24 and FY 2025-26.
- ❖ To consider the impact on performance of thermal generating stations due to part load operation, frequent start/stops etc.
- ❖ To allow the Capex schemes of Rs 47.90 Cr for its implementation in FY 2025-26.
- ❖ 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.

  
(Amit Ahuja)

**DIRECTOR (TECH.)**

**Indraprastha Power Generation Company Limited**


**PETITIONER**

**Place: New Delhi**

**Date: 19.12.2024**

Director (Technical)  
Indraprastha Power Generation Co. Ltd.,  
(A Govt. of NCT of Delhi Undertaking)  
'Himadri' RPH Complex, New Delhi-02

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 lag end of the useful life of Project	N/A
21	Form-9Bi	Details of Assets De-capitalised during the period	√
22	Form-9C	Statement showing reconciliation of ACE claimed with capital additions as per books	√
23	Form-9D	Statement of Capital cost	√
24	Form-9E	Statement of Capital Works in progress	N/A
25	Form-10	Financing of Additional Capitalization	N/A
26	Form-11	Calculation of Depreciation	√
27	Form-12	Statement of Depreciation	√
28	Form-13	Calculation of Weighted Average Rate of Interest on Actual Loans	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 <sup>1</sup>	√

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	✓
<b>Other Information / Documents</b>			
	<b>Sl.No.</b>	<b>Information / Document</b>	<b>Tick</b>
	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 Company : Indraprastha Power Generation Company Limited

Name of the Power Station: Gas Turbine Power Station


Place (Region / District / State): Delhi

S.No.	Particulars	Unit	2023-24	2025-26
1	2	3	4	5
1.1	Depreciation	Rs. Crore	3.16	6.97
1.2	Interest on Loan	Rs. Crore	1.61	2.77
1.3	Return on Equity <sup>1</sup>	Rs. Crore	1.41	2.30
1.4	Interest on Working Capital	Rs. Crore	21.23	24.50
1.5	O & M Expenses(Actual)*	Rs. Crore	65.56	71.81
1.7	Compensation allowance (if applicable)	Rs. Crore	0	0
1.8	Special allowance (if applicable)	Rs. Crore	0	0
	<b>Total</b>	Rs. Crore	92.96	108.36
2.1	Landed Fuel Cost (Domestic : Gas)	Rs./SCM		
	(%) of Fuel quantity	(%)		
2.2	Landed fuel cost ( Imported: Gas)	Rs./SCM	48.03	49.01
	(%) of Fuel quantity	(%)	100	100
2.3	Secondary Fuel Oil Cost	Rs./Unit		
	Energy charges Rate ex-bus (paise/Kwh) from Natural Gas (Combined Cycle)	Rs./Unit	14.271	14.442
	Energy charges Rate ex-bus (paise/Kwh) from Natural Gas ( Open Cycle)	Rs./Unit	18.054	18.932

\* O&M will be considered on Normative basis. Actual O&M expenses will be provided as and when IPGCL Accounts will be finalised.

  
Petitioner



<b>Form-1(I)</b>			
<b>Statement Showing Claimed Capital Cost</b>			
<b>Name of the Petitioner: Indraprastha Power Generation Company Limited</b>			
<b>Name of the Generating Station: Gas Turbine Power Station</b>			
<b>Place (Region / District / State): Delhi</b>			
<b>(Rs in Crore)</b>			
<b>Sl. No.</b>	<b>Particulars</b>	<b>2023-24</b>	<b>2025-26</b>
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>
A	Opening Capital Cost	32.24	35.60
B	Addl: Addition during the year/ period	3.36	47.90
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	<b>Closing Capital Cost</b>	<b>35.60</b>	<b>83.50</b>
G	<b>Average Capital Cost</b>	<b>33.92</b>	<b>59.55</b>
H	<b>Average Net Fixed Assets</b>	<b>27.09</b>	<b>44.28</b>
 <b>Petitioner</b>			



FORM-1(II)

## Statement Showing Return on Equity

Name of the Company : Indraprastha Power Generation Company Limited

Name of the Power Station: Gas Turbine Power Station

Place (Region / District / State): Delhi

(Rs in Crore)

Sl. No.	Particulars	2023-24	2025-26
1	2		3
A	Opening Equity	9.67	10.68
B	Addl: Increase due to Addition during the year/ period	1.01	14.37
C	Less: Decrease due to Decapitalization during the year / Period	0	0
D	Less: Decrease due to reversal during the year /period	0	0
E	Add: Increase due to Discharges during the year/ period	0	0
F	Closing Equity	10.68	25.05
G	Average Equity	10.18	17.87
H	Average equity for the purpose of computation of tariff based on Net Fixed Assets	8.13	13.28
I	Rate of RoE	17.32	17.32
J	Return of Equity	1.41	2.30



Petitioner

## Plant Characteristics

Name of the Company : Indraprastha Power Generation Company Limited

Name of the Power Station: Gas Turbine Power Station

Place (Region / District / State): Delhi

Units(s) / Block(s) Parameters	GT-I	GT-2	GT-3	GT-4	GT-5	GT-6	STG-I	STG-II	STG-III
Installed Capacity (MW)	30	30	30	30	30	30	30	30	30
Schedule COD as per Investment Approval									
Actual COD/ Date of taken Over ( as applicable)	14.05.1986	28.05.1986	24.05.1986	31.07.1986	31.08.1986	15.11.1986	20.03.1995	31.10.1995	26.03.1996
Pit Head or Non pit Head	NA	NA	NA	NA	NA	NA	NA	NA	NA
Name of the Boiler Manufacture	NA	NA	NA	NA	NA	NA	BHEL		
Name of Turbine Generator Manufacture	GE						BHEL		
Main Steams pressure at Turbine Inlet (kg/Cm <sup>2</sup> ) <sup>abs</sup> <sup>1</sup>							40	40	40
Main Steam temperature at Turbine Inlet (°C) <sup>1</sup>							500	500	500
Reheat Steam Pressure at turbine Inlet (kg/Cm <sup>2</sup> ) <sup>1</sup>							NA	NA	NA
Reheat Steam temperature at Turbine Inlet (°C) <sup>1</sup>							NA	NA	NA
Main Steam flow at Turbine inlet under MCR condition (tons/hr) <sup>2</sup>							110	110	110
Main Steam flow at Turbine inlet under VWO condition (tons/hr) <sup>2</sup>							115.5	115.5	115.5
Unit Gross electrical output under MCR/Rated condition (MW) <sup>2</sup>							32.5	32.5	32.5
Unit Gross electrical output under VWO condition (MW) <sup>2</sup>							34.125	34.125	34.125
Guaranteed design Gross Turbine Cycle Heat Rate (kCal/kWh) <sup>3</sup>	3188	3188	3188	3188	3188	3188	2805	2805	2805
Condition on which design turbine cycle heat rate guaranteed	Temp=31.5C,Altitude 216m, Net Frequency 50 Hz								
%MCR	NA	NA	NA	NA	NA	NA	100	100	100
% Makeup Water Consumption	NA	NA	NA	NA	NA	NA	0	0	0
Design Capacity of Make up water system									
Design Capacity of Inlet cooling system							25000 Cubic meter per hour		
Design Cooling Water Temperature (°C)	NA	NA	NA	NA	NA	NA	32.5	32.5	32.5
Back Pressure	NA	NA	NA	NA	NA	NA	0.101		
Steam Flow at super heater outlet under BMCR condition (tons/hr), HRSG#1 & HRSG#2							62.8	62.8	62.8
Steam pressure at super heater outlet under BMCR condition (kg/cm <sup>2</sup> ), HRSG#1 & HRSG#2							41.5	41.5	41.5
Steam Temperature at super heater outlet under BMCR condition (°C), HRSG#1 & HRSG#2							502	502	502
Steam Temperature at Reheater outlet at BMCR condition (°C)							NA	NA	NA
Design/ Guaranteed Boiler Efficiency (%) <sup>4</sup>							Not Available		
Design fuel specification for guaranteed parameters (%)	NG, HSD, Naptha	NG, HSD, Naptha	NG, HSD, Naptha	NG, HSD, Naptha	NG, HSD, Naptha	NG, HSD, Naptha	Waste Heat	Waste Heat	Waste Heat
Type of cooling Tower	Mechanical Induced Draft Type								
Type of cooling System <sup>5</sup>	Closed circuit cooling								
Type of Boiler feed pump <sup>6</sup>	Motor Driven								

Fuel Details<sup>7</sup>

-Primary Fuel	NG	NG	NG	NG	NG	NG	Waste	Waste Heat	Waste Heat
-Secondary Fuel	NA	NA							
-Alternate Fuels	HSD	HSD							
Special Features /Site Specific Features <sup>8</sup>	NA	NA	NA						
Special Technological Features <sup>9</sup>	NA	NA							
Environmental Regulation related features <sup>10</sup>	NA	NA							

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 feature like Advanced class FA technology in Gas Turbines, etc.


10: Environmental Regulation related features like FGD, ESP etc.,

Note-1: In case of deviation from specified conditions in regulation, correction curve of manufacturer may also be submitted.

Note-2: Heat Balance Diagram has to be submitted along with above information in case of new stations.

Note-3: The terms- MCR,BMCR,HHV, Performance coal, are as defined in CEA technical standards for construction of Electric Plants and electric lines Regulations-2010

Note-4: The copy of certificate shall be submitted



Petitioner

## Normative Parameters considered for Tariff Computations

Name of the Company : Indraprastha Power Generation Company Limited

Name of the Power Station: Gas Turbine Power Station


Place (Region / District / State): Delhi

Particulars	Unit	2023-24	2025-26
1	2	3	4
Base Rate of Return on Equity	%	13.00	13.00
Effective Tax Rate <sup>4</sup>	%	24.96	24.96
Target Availability	%	85%	85%
Auxiliary Energy Consumption	%	2.75%	2.75%
Gross Station Heat Rate	kCal/kWh	2450	2450
Specific Fuel Oil Consumption	ml/kWh	NA	NA
Cost of Coal/ Lignite for WC <sup>1</sup>	in Months	NA	NA
Cost of Main Secondary Fuel Oil for WC <sup>1</sup>	in Months	NA	NA
Fuel Cost for WC <sup>2</sup>	in Months	1	1
Liquid Fuel Stock for WC <sup>2</sup>	in Months	NA	NA
O&M Expenses	Rs in Cr	33.11	36.27
Maintenance Spares for WC	% of O&M	30	30
Receivables for WC	in Months	2	2
Storage capacity of Primary fuel	MT	NA	NA
SBI Base Rate plus MCLR Margin	%	8.50%	8.95%
Blending ratio of domestic coal/ imported coal		NA	NA

<sup>1</sup>For Coal / Lignite based generating stations<sup>2</sup>For Gas Turbine/ Combined Cycle generating stations duly taking into account the mode of operation on gas fuel and liquid fuel.<sup>3</sup>Mention relevant date<sup>4</sup>Effective tax rate is to be computed in accordance with Regulation 25 i.e. actual tax(or advance tax)/ gross income, where gross income refers the profit before tax.


Petitioner

**Abstract of Admitted Capital Cost for the existing Projects**

<b>Name of the Company : Indraprastha Power Generation Company Limited</b>		
<b>Name of the Power Station: Gas Turbine Power Station</b>		
<b>Place (Region / District / State): Delhi</b>		
<b>Particulars</b>		<b>FY 2021-22</b>
<b>Last date of order of Commission for the project</b>	Date (DD-MM-YYYY)	30.09.2021
Reference of petition no. in which the above order was passed	Petition No.	05/2021
Following details (whether admitted and/ or considered) as on the last date of the period for which tariff is approved, in the above order by the Commission:		
Capital cost		123.87
Amount of un-discharged liabilities included in above (& forming part of admitted capital cost)		
Amount of un-discharged liabilities corresponding to above admitted capital cost (but not forming part of admitted capital cost being allowed on cash basis)		
Gross normative debt	(Rs. in Crore)	
Cumulative Repayment		
Net Normative debt		
Cumulative depreciation		11.15
Freehold land		
		 <b>Petitioner</b>



## Details of assets De-capitalised during the period during FY 2023-24

Name of the Company : Indraprastha Power Generation Company Limited

Name of the Power Station: Gas Turbine Power Station

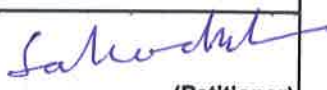
COD


S.No.	Name of the Asset	Nature of De-capitalisation (whether claimed under exclusion or as additional capital expenditure)	Original value of the asset capitalised in rupees	Year Put to use	Depreciation recovered till date of De-capitalization in rupees
1	2	3	4	5	6
1	GASKET,3233012046,HEAT EXCH,ALFA,AK20FMI	Capital Spare Consumed	196600.43	20-05-2023	176940.39
2	FLAME DETECTOR, 362A1052P404,GT,GE,FR9FA	Capital Spare Consumed	501500	21-05-2023	9403.13
3	HALF BEARING,91600076P152,AGB,AA51DA	Capital Spare Consumed	70135.23667	22-05-2023	63121.72
4	HALF BEARING,91600076P153,AGB,AA51DA	Capital Spare Consumed	70492.78	23-05-2023	63443.5
5	HALF BEARING,91600478P161,AGB,AA51DA	Capital Spare Consumed	66960.16	24-05-2023	60284.14
6	BEARING,91600076P355,AGB,FLENDER,AA51DA	Capital Spare Consumed	136612.0833	25-05-2023	122950.87
7	HYD PUMP,32002-40,HARTMANN,AGB,AA51DA	Capital Spare Consumed	165862.2	26-05-2023	149275.98
8	OVERSPEED BOLT ASSY-HP DWG.221B4586G03	Capital Spare Consumed	743400	27-05-2023	11151
9	SPEED PICKUP,TURBINE,185A1117P012,PNL,GE	Capital Spare Consumed	8324.236667	28-05-2023	7491.82
10					
11					
12					
13					
14					
Total			1959887.127		664042.55

NOTE: Yearwise detail need to be submitted.

  
 (Petitioner)



FORM-9C		
Statement showing reconciliation of ACE claimed with the capital additions as per books*		
Name of the Company : Indraprastha Power Generation Company Limited		
Name of the Power Station: Gas Turbine Power Station		
COD		(Rs in Cr)
S.No.	Particulars	2023-24
1	2	3
A	Closing Gross Block	495.47
B	Less: Opening Gross Block	493.62
C	Total additions as per books	2.05
D	Less: Additions pertaining to other stages (give stagewise break-up)	0
E	Net additions pertaining to Instant project / unit / stage	0.00
F	Less: Exclusions (Items not allowable / not claimed)	0.20
G	Net Additional Capital Expenditure claimed	1.85
NOTE : Reason for exclusion of any expenditure shall be given in clear terms.		
* Details will be provided as and when accounts were finalised.		
		 (Petitioner)

FORM-9D		
Name of the Company : Indraprastha Power Generation Company Limited		
Name of the Power Station: Gas Turbine Power Station		
Statement of Capital Cost*		
(To be given for relevant dates and year wise)		
		(Rs in Cr)
S.No.	Particulars	2023-24
A	a) Opening Gross Block Amount as per books	
	b) Amount of Capital liabilities in A(a) above	493.62
	c) Amount of IDC in A(a) above	0.00
	d) Amount of FC in A(a) above	0.00
	e) Amount of FERV in A(a) above	0.00
	f) Amount of Hedging cost in A(a) above	0.00
	g) Amount of IEDC in A(a) above	0.00
B	a) Addition in Gross Block amount during the period (Direct purchases)	
	b) Amount of Capital liabilities in B(a) above **	2.05
	c) Amount of IDC in B(a) above	0.00
	d) Amount of FC in B(a) above	0.00
	e) Amount of FERV in B(a) above	0.00
	f) Amount of Hedging cost in B(a) above	0.00
	g) Amount of IEDC in B(a) above	0.00
C	a) Addition in Gross Block amount during the period (Transferred from CWIP)	0.00
	b) Amount of Capital liabilities in C(a) above	0.00
	c) Amount of IDC in C(a) above	0.00
	d) Amount of FC in C(a) above	0.00
	e) Amount of FERV in C(a) above	0.00
	f) Amount of Hedging cost in C(a) above	0.00
	g) Amount of IEDC in C(a) above	0.00
D	a) Deletion in Gross Block amount during the period	
	b) Amount of Capital liabilities in D(a) above	0.20
	c) Amount of IDC in D(a) above	0.00
	d) Amount of FC in D(a) above	0.00
	e) Amount of FERV in D(a) above	0.00
	f) Amount of Hedging cost in D(a) above	0.00
	g) Amount of IEDC in D(a) above	0.00
E	a) Closing Gross Block amount as per books	495.47
	b) Amount of Capital liabilities in E(a) above	0.00
	c) Amount of IDC in E(a) above	0.00
	d) Amount of FC in E(a) above	0.00
	e) Amount of FERV in E(a) above	0.00
	f) Amount of Hedging cost in E(a) above	0.00
	g) Amount of IEDC in E(a) above	0.00
Note:		
1. Relevant date/s means date of COD of unit/s/station and financial year start date and end		
* Details will be provided as and when accounts were finalised.		
**	Total addition as per accounting during FY 2023-24 was of Rs 2.05 Cr. It also includes the Capital Spares amounting to Rs 1.55 Cr. Details of capital spares have been furnished in Form 16	
		 (Petitioner)

## Calculation of Depreciation

Name of the Company : Indraprastha Power Generation Company Limited

Name of the Power Station: Gas Turbine Power Station

Sl. No.	Name of the Assets <sup>1</sup>	Gross Block as on 31 st March of the previous control period or as on COD, whichever is later and subsequently for each	Depreciation rate as per DERC'S Depreciation rate schedule	(Amount in Rs.Cr)
				Depreciation amount for Each year
	1	2	3	4= Col. 2X Col. 3
1	land*			
2	Building			
3	and so on			
4				
5				
6				
	<b>Total as on FY 2023-24</b>	<b>33.92</b>	<b>9.31%</b>	<b>3.16</b>
	<b>Weighted Average Rate of Depreciation (%)</b>			<b>9.31</b>


\* Provide details of freehold land and lease hold land separately

<sup>1</sup> Name of the Assets should conform to the description of the assets mentioned in Depreciation Schedule appended to the Notification

*Satish Kumar*  
(Petitioner)





FORM-13	
Calculation of Weighted Average Rate of Interest on Actual Loans <sup>1</sup>	
Name of the Company : Indraprastha Power Generation Company	
Name of the Power Station: Gas Turbine Power Station	
Particulars	2023-24
<b>Loan-1</b>	Loan paid and additional capitalisation is funded through equity.
Gross loan- Opening	
Cumulative repayments of Loans upto previous year	
Net Loan- Opening	
Add: Drawal(s) during the year	
Less: Repayment(s) of Loans during the year	
Net Loan- Closing	
Average Net Loan	
Rate of Interest on Loan on annual basis	
Interest on loan	
<b>Total Loan</b>	
Gross loan- Opening	
Cumulative repayments of Loans upto previous year	
Net Loan- Opening	
Add: Drawal(s) during the year	
Less: Repayment(s) of Loans during the year	
Net Loan- Closing	
Average Net Loan	
Rate of Interest on Loan on annual basis	
Interest on loan	
<b>GNCTD Loan No. 2</b>	
Gross loan- Opening	
Cumulative repayments of Loans upto previous year	
Net Loan- Opening	
Add: Drawal(s) during the year	
Less: Repayment(s) of Loans during the year	
Net Loan- Closing	
Rate of Interest on Loan on annual basis	
Interest on loan	
<b>GNCTD Loan No. 3</b>	
Gross loan- Opening	
Cumulative repayments of Loans upto previous year	
Net Loan- Opening	
Add: Drawal(s) during the year	
Less: Repayment(s) of Loans during the year	
Net Loan- Closing	
Rate of Interest on Loan on annual basis	
Interest on loan	
<b>Weighted average Rate of Interest on Loans</b>	
*In case of Foreign Loans, the calculations in Indian Rupees is to be furnished. However, the calculations in original currency is also to be furnished separately in the same form.	
 (Petitioner)	



## Calculation of Interest on Normative Loan

Name of the Company : Indraprastha Power Generation Company Limited

Name of the Power Station: Gas Turbine Power Station

Particulars	2023-24	2025-26
1	2	3
Gross Normative Loan -Opening	0.00	0.00
Cumulative repayment of Normative Loan upto previous year	0.00	0.00
<b>Net Normative Loan- Opening</b>	<b>22.57</b>	<b>24.92</b>
Add: Increase due to addition during the Year/ Period	2.35	33.53
Less: Decrease due to De- Capitalisationl during the Year/ Period	0.00	0.00
Less: Decrease due to Reversal during the Year/ Period	0.00	0.00
Add: Increase due to discharge during the Year/ Period	0.00	0.00
Less: Repayment(s) of Loans during the year	0.00	0.00
<b>Net Normative Loan- Closing</b>	<b>24.92</b>	<b>58.45</b>
<b>Average Normative Loan</b>	<b>23.74</b>	<b>41.69</b>
Average loan for the purpose of computation of tariff based on Net Fixed Assets	18.96	31.00
Weighted average rate of interest	8.50%	8.95%
Interest on Loan	1.61	2.77

  
(Petitioner)

## Calculation of Interest on Working Capital

Name of the Company : Indraprastha Power Generation Company Limited

Name of the Power Station: Gas Turbine Power Station

Sl. No.	Particulars	2023-24	2025-26
1	2		3
1	Cost of Coal/ Lignite <sup>1</sup>	0	0
2	Cost of Main Secondary Fuel Oil <sup>1</sup>	0	0
3	Fuel cost for 1 month <sup>2</sup>	69.73	76.06
4	Liquid Fuel Stock <sup>2</sup>	0.00	0.00
5	O&M Expenses for 1 month	5.46	5.98
6	Maintenance Spares @ 30% of O&M expenses	19.67	21.54
7	Receivables for 2 months	154.85	170.17
8A	Total Working Capital	249.71	273.76
9	Rate of interest*	8.50	8.95
13	Interest on working capital	21.23	24.50

<sup>1</sup> For Coal based / Lignite based generating station.<sup>2</sup> For Gas Turbine/ Combined Cycle generating stations duly taking into account the annual mode of operation (last available) on gas fuel and liquid fuel.

\* As per existing rate of interest for the outstanding loans of petitioner

  
 (Petitioner)

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

Name of the Company : Indraprastha Power Generation Company Limited

Name of the Power Station: Gas Turbine Power Station

Sl. No.	Months	Units	April 23 to March 24	
			Domestic	Imported
1	Quantity of Gas supplied by Gas Company*	(Million SCM)		72988.31
2	Adjustment (+/-) in quantity supplied by Gas Company	(Million SCM)		
3	Gas Supplied by Gas Company (1+2)	(Million SCM)		72988.31
4	Normative Transit & Handling Losses	(Million SCM)		
5	Net Gas Supplied (3-4)	(Million SCM)		72988.31
6	Amount charged by Gas Company	(Rs. )		350.582
7	Adjustment (+/-) in amount charged by Gas Company	(Rs. )		
8	Total Amount charged (6+7)	(Rs. )		350.582
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	48.033	
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	9400.514	

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

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 for FY 2023-24


Name of the Company : Indraprastha Power Generation Company Limited

Name of the Power Station: Gas Turbine Power Station

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 in Rs				
1	FLAME DETECTOR, 362A1052P404,GT,GE,FR9FA	10,03,000.00	NO			
2	OVERSPEED BOLT ASSY-HP DWG-221B4588G03	7,43,400.00	NO			
3	CARD,USCA,IS220UCSAH1A,PNL,GE,MK8e	19,14,604.28	NO			
4	TERMINAL BOARD,IS230TCATH1A,PNL,GE,MK8e	8,34,820.50	NO			
5	IO PACK,THERMOCOUPLE,IS220PTCCH1B,GE	9,09,250.18	NO			
6	PCAA ASSY/CORE ANLG,IS230PCAAH1B,GE,MK8e	17,67,047.64	NO			
7	MEASUREMENT TREATMENT CARD,C1001820,DVR	22,33,571.26	NO			
8	ACTUATOR,ELEC,AUMA,SA30-1F30,415VAC	14,22,644.50	NO			
9	OUTPUT LEAD ASSY,TG,BHEL,TARI 800-28P	46,91,975.00	NO			
	Total	1,55,20,313.36				



Petitioner

FORM-18			
Employee Expenses*			
Name of the Company : Indraprastha Power Generation Company Limited			
Name of the Power Station: Gas Turbine Power Station			
Sl. No.	Particulars	2023-24	2025-26
1	Salaries	37.91	41.53
2	Additional Pay		
3	Dearness Allowance (DA)		
4	Other Allowances & Relief		
5	Addl. Pay & C.Off Encashment		
6	Interim Relief / Wage Revision		
7	Honorarium/Overtime		
8	Bonus/ Exgratia To Employees		
9	Medical Expenses Reimbursement		
10	Travelling Allowance(Conveyance Allowance)		
11	Leave Travel Assistance		
12	Earned Leave Encashment		
13	Payment Under Workman's Compensation And Gratuity		
14	Subsidised Electricity To Employees		
15	Any Other Item		
16	Staff Welfare Expenses	0.98	1.07
17	Apprentice And Other Training Expenses		
18	Contribution To Terminal Benefits		
19	Provident Fund Contribution	3.27	3.58
20	Provision for PF Fund		
21	Any Other Items		
	<b>Total Employee Costs</b>	<b>42.16</b>	<b>46.18</b>
22	Less: Employee expenses capitalised		
	<b>Net Employee expenses (D)-(E)</b>	<b>42.16</b>	<b>46.18</b>
 (Petitioner)			




## A &amp; G Expenses

Name of the Company : Indraprastha Power Generation Company Limited

Name of the Power Station: Gas Turbine Power Station

Sl. No.	Particulars	2023-24	2025-26 (Rs in Cr)
1	Lease/ Rent	0.007	0.008
2	Insurance	2.905	3.183
3	Revenue Stamp Expenses Account		0.000
4	Telephone, Postage, Telegram & Telex Charges		0.000
5	Incentive & Award To Employees/Outsiders		0.000
6	Consultancy Charges		0.000
7	Technical Fees		0.000
8	Other Professional Charges		0.000
9	Conveyance And Travelling	0.037	0.041
10	License and Registration Fees		0.000
11	Vehicle Expenses	0.159	0.174
12	Security / Service Charges Paid To Outside Agencies	11.759	12.880
13	Fee And Subscriptions Books And Periodicals	0.126	0.139
14	Printing And Stationery	0.019	0.021
15	Advertisement Expenses	0.001	0.001
16	Contributions/Donations To Outside Institutes / Associations		0.000
17	Electricity Charges To Offices		0.000
18	Water Charges	0.327	0.358
19	Entertainment Charges		0.000
20	Miscellaneous Expenses	2.044	2.239
21	Legal Charges	0.984	1.078
22	Auditor's Fee		
23	Freight On Capital Equipments		
24	Purchase Related Advertisement Expenses		
25	Vehicle Running Expenses Truck / Delivery Van		
26	Vehicle Hiring Expenses Truck / Delivery Van		
27	Other Freight		
28	Transit Insurance		
29	Octroi		
30	Incidental Stores Expenses		
31	Fabrication Charges		
	<b>Total A&amp;G Expenses</b>	<b>18.369</b>	<b>20.12</b>
	Less: A&G Expenses Capitalised	0.00	0.00
	<b>Total A&amp;G Expenses</b>	<b>18.369</b>	<b>20.121</b>



Petitioner

**R & M Expenses****Name of the Company : Indraprastha Power Generation Company Limited****Name of the Power Station: Gas Turbine Power Station**

Sl. No.	Particulars	2023-24	2025-26 (Rs In Crore)
1	Plant and Machinery	4.13	4.52
2	Building	0.69	0.76
3	Civil Works		
4	Hydraulic Works		
5	Lines, Cables Net Works etc.		
6	Vehicles		
7	Furniture and Fixtures		
8	Office Equipments		
9	Station Supplies (STP Expenditure)		
10	DLN Burners		
11	Other Credits to R&M Charges		
12	Others*	0.21	0.23
	<b>Total</b>	<b>5.03</b>	<b>5.51</b>
13	Any other items (Capitalisation)		
	<b>Total</b>	<b>5.03</b>	<b>5.51</b>

*Sahewal*  
(Petitioner)

## Variable charges for Gas power Plant for FY 2023-24

Name of the Company : Indraprastha Power Generation Company Limited

Name of the Power Station: Gas Turbine Power Station

Particulars	UoM	Plant	Combined Cycle	Open Cycle
Description	MW	90	90	60
GHR claimed By GTPS	Kcal/kWh	2639	2616	3498
Target Availability claimed	%	85	85	85
Time of operation	Days	366	366	366
Gross Generation	MU	260.00	253.12	6.88
Auxilliary Consumption	%	6.20	6.34	1
Auxilliary Consumption	MU	16.12	16.05	0.07
Net Generation	MU	243.88	237.07	6.81
Total Gross Heat value required	Kcal	686127601934.17	662140102876.42	24078267537.69
Gross Heat Obtained from KG Basin Gas	MMBTU/day-GCV			
1 MMBTU	Kcal			
Total Gas required	SCM	72988307	70436584.93	2561377.764
Gross Heat Obtained from KG Basin Gas for the period	Kcal	0.00		
Gross Calorific value of Gas (Assumed)	Kcal/SCM	9400.514	9400.514	9400.514
Volume of KG Basin Gas (APM+PMT+NAPM)	SCM	0		
Balance Heat Required from RLNG	Kcal	686127601.93		
Gross Calorific value of RLNG (Assumed)	Kcal/SCM	9400.514	9400.514	9400.514
Quantity of RLNG required(RLNG+SPOT-RLNG)	SCM	72988.31		
Price of KG Basin Gas	Rs./MMBTU-GCV			
Price of KG Basin Gas	Rs./SCM	0.00	0.00	0.00
Price of RLNG	Rs./MMBTU-GCV			
Price of RLNG	Rs./SCM	48.03	48.03	48.03
KG Basis Gas Landed Cost	Rs. Crores	0.00		
RLNG Landed Cost	Rs. Crores	350.58		
Avg. Landed Cost of Total Gas	Rs/SCM	48.033	48.033	48.033
Total Fuel Cost	Rs. Crores	350.58	338.33	12.30
Monthly Fuel Cost	Rs. Crores	29.22	28.19	1.03
Energy Charge rate on Ex-basis	Rs./Unit	14.375	14.271	18.054
Net Generation from KG Basin Gas	Mus			
Net Generation from RLNGs	MUs			
Energy Charge Rate on Ex-bus basis from KG Basin Gas	Rs./Unit	0.00	0.00	0.00
Energy Charge Rate on Ex-bus basis from RLNG	Rs./Unit	14.37	14.27	18.05



(Petitioner)

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

Name of the Company : Indraprastha Power Generation Company Limited

Name of the Power Station: Gas Turbine Power Station

Particulars	UoM	Plant	Combined Cycle	Open Cycle
Description	MW	90	90	60
GHR claimed By GTPS	Kcal/kWh	2600	2591	3578
Target Availability claimed	%	85	85	85
Time of operation	Days	365	365	365
Gross Generation	MU	670.14	665.67	4.47
Auxilliary Consumption	%	6.00	6.03	1
Auxilliary Consumption	MU	40.21	40.16	0.04
Net Generation	MU	629.93	625.51	4.42
Total Gross Heat value required	Kcal	1742364000000.00	1724570509828.71	15985072800.00
Gross Heat Obtained from KG Basin Gas	MMBTU/day-GCV			
1 MMBTU	Kcal			
Total Gas required	SCM	186212266.4	184310616.6	1708378.177
Gross Heat Obtained from KG Basin Gas for the period	Kcal	0.00		
Gross Calorific value of Gas (Assumed)	Kcal/SCM	9356.870	9356.870	9356.870
Volume of KG Basin Gas (APM+PMT+NAPM)	SCM	0		
Balance Heat Required from RLNG	Kcal	17423640000.00		
Gross Calorific value of RLNG (Assumed)	Kcal/SCM	9356.870	9356.870	9356.870
Quantity of RLNG required(RLNG+SPOT-RLNG)	SCM	1862122.66		
Price of KG Basin Gas	Rs./MMBTU-GCV			
Price of KG Basin Gas	Rs./SCM	0.00	0.00	0.00
Price of RLNG	Rs./MMBTU-GCV			
Price of RLNG	Rs./SCM	49.01	49.01	49.01
KG Basis Gas Landed Cost	Rs. Crores	0.00		
RLNG Landed Cost	Rs. Crores	912.70		
Avg. Landed Cost of Total Gas	Rs./SCM	49.014	49.014	49.014
Total Fuel Cost	Rs. Crores	912.70	903.38	8.37
Monthly Fuel Cost	Rs. Crores	76.06	75.28	0.70
Energy Charge rate on Ex-basis	Rs./Unit	14.489	14.442	18.932
Net Generation from KG Basin Gas	Mus			
Net Generation from RLNGs	MUs			
Energy Charge Rate on Ex-bus basis from KG Basin Gas	Rs./Unit	0.00	0.00	0.00
Energy Charge Rate on Ex-bus basis from RLNG	Rs./Unit	14.49	14.44	18.93



(Petitioner)