

Petition No :



Auraiya Gas Power Station

(663.36 MW)

**TRUE-UP PETITION FOR REVISION OF
TARIFF FOR THE PERIOD
01.04.2019 TO 31.03.2024**

BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

PETITION NO.....

IN THE MATTER OF : Petition Under Section 62 and 79 (1) (a) of the Electricity Act, 2003 read with Chapter-V of the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 1999 and Chapter-3, Regulation-9 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for approval of tariff of **Auraiya Gas Power Station (663.36 MW)** for the period from **01.04.2019 to 31.03.2024**.

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BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

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IN THE MATTER OF : Petition Under Section 62 and 79 (1) (a) of the Electricity Act, 2003 read with Chapter-V of the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 1999 and Chapter-3, Regulation-9 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for approval of tariff of **Auraiya Gas Power Station (663.36 MW)** for the period from **01.04.2019 to 31.03.2024**.

AND
IN THE MATTER OF

Petitioner: : NTPC Ltd.
NTPC Bhawan
Core-7, Scope Complex
7, Institutional Area, Lodhi Road
New Delhi-110 003.

Respondents

1. Uttar Pradesh Power Corp. Ltd. (UPPCL)
Shakti Bhawan
14, Ashok Marg
Lucknow – 226 001
2. Rajasthan Urja Vikas Nigam Ltd (RUVNL)
(on behalf of Discoms of Rajasthan)
Vidyut Bhawan, Janpath,
Jaipur 302 005
3. Tata Power Delhi Distribution Ltd. (TPDDL)
Grid Substation, Hudson Road
Kingsway Camp, Delhi-110009
4. BSES Rajdhani Power Ltd. (BRPL)
BSES Bhawan, Nehru Place
New Delhi – 110019



- 5 BSES Yamuna Power Ltd. (BYPL)
Shakti Kiran Building
Karkardooma
Delhi- 110092

- 6 Haryana Power Purchase Centre. (HPPC)
Shakti Bhawan
Sector – VI,
Panchkula
Haryana – 134 109

- 7 Punjab State Power Corporation Ltd. (PSPCL)
The Mall
Patiala – 147 001

- 8 Himachal Pradesh State Electricity Board Ltd.
(HPSEB Ltd)
Kumar Housing Complex Building-II
Vidyut Bhawan
Shimla – 171 004

- 9 J&K State Power Trading Company Ltd
(on behalf of Power Development
Department(PDD), J&K)
Civil Secretariat
Srinagar

- 10 Electricity Department (Chandigarh)
Union Territory of Chandigarh
Addl. Office Building
Sector-9 D
Chandigarh

- 11 Uttarakhand Power Corporation Ltd. (UPCL)
Urja Bhavan
Kanwali Road
Dehradun – 248 001



The Petitioner humbly states that:

- 1) The Petitioner herein NTPC Ltd. (hereinafter referred to as 'Petitioner' or 'NTPC'), is a company incorporated under provisions of the Company Act, 1956 and a Government Company as defined under Section 2(45) of the Companies Act, 2013. Further, NTPC is a 'Generating Company' as defined under Section 2(28) of the Electricity Act, 2003.
- 2) In terms of Section 79(1)(a) of Electricity Act, 2003, the Hon'ble Commission has been vested with the functions to regulate the tariff of NTPC, being a Generating Company owned and controlled by the Central Government. The regulation of the tariff of NTPC is as provided under Section 79(1)(a) read with Section 61, 62 and 64 of the Electricity Act, 2003 and the Regulations notified by the Hon'ble Commission in exercise of powers under Section 178 read with Section 61 of the Electricity Act, 2003.
- 3) The Petitioner is having power stations/ projects at different regions and places in the country. Auraiya Gas power Station, 663.36 MW (4 GTs x 111.19 MW+ 2 STs x 109.3 MW) (hereinafter referred to as Auraiya GPS) is one such station located in the State of Uttar Pradesh. The power generated from Auraiya GPS is being supplied to the respondents herein above.
- 4) The Hon'ble Commission has notified the Central Electricity Regulatory Commission (Terms & Conditions of Tariff) Regulations, 2019 (hereinafter 'Tariff Regulations 2019') which came into force from 01.04.2019, specifying the terms & conditions and methodology of tariff determination for the period 01.04.2019 to 31.03.2024.
- 5) Regulation 9(2) of Tariff Regulations 2019 provides as follows:
"(2) In case of an existing generating station or unit thereof, or transmission system or element thereof, the application shall be made by the generating company or the transmission licensee, as the case may be, by 31.10.2019, based on admitted capital cost including additional capital expenditure already admitted and incurred up to 31.3.2019 (either based on actual or projected additional capital expenditure) and estimated additional capital expenditure for the



respective years of the tariff period 2019-24 along with the true up petition for the period 2014-19 in accordance with the CERC (Terms and Conditions of Tariff) Regulations, 2014."

The date of filing of Tariff Petition for the period 2019-24 has subsequently been extended by Hon'ble Commission vide order dated 28.10.2019 in Petition No. 331/MP/2019.

In terms of above, the Petitioner is filing the present petition for determination of tariff for Auraiya GPS for the period from 01.04.2019 to 31.03.2024 as per the Tariff Regulations 2019.

- 6) The tariff of the Auraiya GPS for the tariff period 1.4.2014 to 31.3.2019 was determined by the Hon'ble Commission vide its order dated 27.01.2017 in Petition No. 308/GT/2014 in accordance with the CERC (Terms & Conditions of Tariff) Regulations 2014. The petitioner vide affidavit dated 25.10.2019 had filed a separate true up petition for the period 01.04.2014 to 31.03.2019 for revision of tariff in line with the applicable provisions of Tariff Regulations 2014.
- 7) It is submitted that Hon'ble Commission vide order dated 18.04.2017 in Petition no 285/GT/2014 has allowed a capital cost of Rs 991.7651 Cr as on 31.03.2019 based on the admitted projected capital expenditure for the 2014-19 period. However, the actual closing capital cost as on 31.03.2019 has been worked out in the foresaid true-up petition as Rs 1331.7283 Cr based on the actual expenditure after truing up exercise for the period 2014-19. Accordingly, the Petitioner has adjusted an amount of Rs 339.9632 Cr from the admitted capital cost as on 31.03.2019 and accordingly the opening capital cost as on 01.04.2019 has been considered as Rs 1331.7283 Cr. in the instant petition. The Hon'ble Commission may be pleased to accordingly adopt this adjustment in the admitted capital cost as on 31.3.2019 and determine the tariff in the present petition for the period 2019-24.
- 8) The capital cost claimed in the instant petition is based on the opening capital cost as on 01.04.2019 considered as above and projected estimated capital expenditures for the period 2019-24 under Regulation 26 of the Tariff Regulations, 2019.


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- 9) The Petitioner further respectfully submits that as per Regulation 35(1)(6) of the Tariff Regulations 2019, the water charges, security expenses and capital spares consumed for thermal generating stations are to be allowed separately. The details in respect of water charges such as type of cooling water system, water consumption, rate of water charges as applicable for 2018-19 have been furnished below. Petitioner has considered 2% escalation per year and accordingly claimed water charges for 2019-24 period. Hon'ble Commission may be pleased to allow the same in tariff for 2019-24 period. In accordance with provision of the Regulations, the petitioner shall be furnishing the details of actual for the relevant year at the time of truing up and the same shall be subject to retrospective adjustment.

Description	Remarks
Type of Plant	Gas
Type of cooling water system	Closed Cycle
Consumption of Water	205,546,000 cft / 13 cusec
Rate of Water charges	Rs 12.48 per 1000 cft
Rate of Royalty Charge	Rs 6 Lakh/cusec/yr
Total Water Charges (for FY 2018-19)	Rs 111.82 Lakh

- 10) Similarly, the Petitioner is claiming the security expenses based on the estimated expenses for the period 2019-24, the same shall be subject to retrospective adjustment based on actuals at the time of truing up. In respect of capital spares consumption, it is submitted that the same shall be claimed at the time of true-up in terms of the proviso to the Regulation 35 (1)(6) based on actual consumption of spares during the period 2019-24
- 11) It is submitted that the Petitioner has already paid the requisite filing fee vide UTR No. CMS1106438370 on 22.04.2019 for the year 2019-20 and the details of the same have been duly furnished to the Hon'ble Commission vide our letter dtd 25.04.2019. For the subsequent years, it shall be paid as per the provisions of the CERC (Payment of Fees) Regulations, 2012 as amended. Further Regulation 70 (1) of Tariff Regulations 2019 provides that the application fee and publication expenses may be allowed to be recovered directly from the beneficiaries at the discretion of the Hon'ble Commission. Accordingly, it is prayed that Hon'ble Commission may be pleased to allow recover filing fee and publication fee directly from the beneficiaries.



- 12) The petitioner has accordingly calculated the tariff for 2019-24 period based on the above and the same is enclosed as **Appendix-I** to this petition.
- 13) It is submitted the Petitioner has served the copy of the Petition on to the Respondents mentioned herein above and has posted the Petition on the company website i.e. www.ntpc.co.in
- 14) It is submitted that the petitioner is filing this tariff petition subject to the outcome of its various appeals/ petitions pending before different courts. Besides, the petitions filed by NTPC for determination of capital base as on 31.3.2019 through true-up exercise are pending before the Hon'ble Commission and would take some time. The Petitioner, therefore, reserves its right to amend the tariff petition as per the outcome in such appeals/ petitions, if required.

Prayers

In the light of the above submissions, the Petitioner, therefore, prays that the Hon'ble Commission may be pleased to:

- i) Approve tariff of Auraiya GPS for the tariff period 01.04.2019 to 31.03.2024.
- ii) Allow the recovery of filing fees as & when paid to the Hon'ble Commission and publication expenses from the beneficiaries.
- iii) Pass any other order as it may deem fit in the circumstances mentioned above.


Petitioner

New Delhi

Date: 27.01.2020

BEFORE THE CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI

PETITION NO.....

IN THE MATTER OF : Petition Under Section 62 and 79 (1) (a) of the Electricity Act, 2003 read with Chapter-V of the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 1999 and Chapter-3, Regulation-9 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for approval of tariff of **Auraiya Gas Power Station (663.36 MW)** for the period from 01.04.2019 to 31.03.2024

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Respondents 1. Uttar Pradesh Power Corp. Ltd (UPPCL)
Shakti Bhawan
14, Ashok Marg
Lucknow – 226 001

and Others



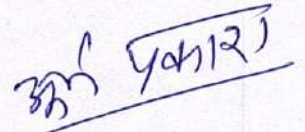
30/10/22

AFFIDAVIT

I, S. P. Kesarwani, son of Shri R. L. Kesarwani aged about 43 years resident of D-5, NTPC Samriddhi colony, Noida Sector-33 (UP) solemnly affirm and state as follows:

1. That I am the Deputy General Manager (Commercial) in Petitioner Corporation NTPC Ltd and am well conversant with the facts of the case and am competent to swear the present affidavit.

2. The statement made in the accompanying Petition for approval of tariff of **Auraiya Gas Power Station (663.36 MW)** for the period from 01.04.2019 to 31.03.2024 are based on the official records maintained during the ordinary course of business and believed by the deponent to be true.


Deponent

Verification

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

Verified at New Delhi on this 27th Jan, 2020


Deponent



Solemnly affirmed before me, read over & explained to the deponent.

Notary Public DELHI

27 JAN 2020

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TARIFF FILING FORMS (THERMAL)

FOR DETERMINATION OF TARIFF

FOR

Auraiya Gas power Station

(From 01.04.2019 to 31.03.2024)

PART-I

Appendix-I

A handwritten signature in blue ink, consisting of stylized initials, is written above a horizontal line.

Checklist of Main Tariff Forms and other information for tariff filing for Thermal Stations

Form No.	Title of Tariff Filing Forms (Thermal)	Tick
FORM- 1	Summary of Tariff	✓
FORM -1 (I)	Statement showing claimed capital cost	✓
FORM -1 (II)	Statement showing Return on Equity	✓
FORM-2	Plant Characteristics	✓
FORM-3	Normative parameters considered for tariff computations	✓
FORM-3A**	Statement showing O&M Expenses	✓
FORM- 4	Details of Foreign loans	✓
FORM- 4A	Details of Foreign Equity	NA
FORM-5	Abstract of Admitted Capital Cost for the existing Projects	✓
FORM-5A**	Abstract of Claimed Capital Cost for the existing Projects	✓
FORM- 6	Financial Package upto COD	NA
FORM- 7	Details of Project Specific Loans	✓
FORM- 8	Details of Allocation of corporate loans to various projects	✓
FORM-9A**	Summary of Statement of Additional Capitalisation claimed during the period	✓
FORM-9 ##	Statement of Additional Capitalisation after COD	✓
FORM- 10	Financing of Additional Capitalisation	✓
FORM- 11	Calculation of Depreciation on original project cost	NA
FORM- 12	Statement of Depreciation	✓
FORM- 13	Calculation of Weighted Average Rate of Interest on Actual Loans	✓
FORM- 14	Draw Down Schedule for Calculation of IDC & Financing Charges	NA
FORM- 15	Details of Fuel for Computation of Energy Charges : Natural Gas	✓
FORM- 15A	Details of Fuel for Computation of Energy Charges : RLNG	✓
FORM- 15B	Details of Fuel for Computation of Energy Charges : Liquid Fuel	✓
FORM- 15F	Computation of Energy Charges	✓
FORM- 16	Details of Limestone for Computation of Energy Charge Rate	NA
FORM-17	Details of Capital Spares	***
FORM- 18	Non-Tariff Income	***
FORM-19	Details of Water Charges	***
FORM-20	Details of Statutory Charges	***

Provided yearwise for the period 2019-24

*** Shall be provided at the time of true up



List of Supporting Forms / documents for tariff filing for Thermal Stations

Form No.	Title of Tariff Filing Forms (Thermal)	Tick
FORM-A	Abstract of Capital Cost Estimates	NA
FORM-B	Break-up of Capital Cost for Coal/Lignite based projects	NA
FORM-C	Break-up of Capital Cost for Gas/Liquid fuel based Projects	NA
FORM-D	Break-up of Construction/Supply/Service packages	NA
FORM-E	Details of variables , parameters , optional package etc. for New Project	NA
FORM-F	Details of cost over run	NA
FORM-G	Details of time over run	NA
FORM-H	Statement of Additional Capitalisation during end of the useful life	NA
FORM-I	Details of Assets De-capitalised during the period	***
FORM-J	Reconciliation of Capitalisation claimed vis-à-vis books of accounts	***
FORM-K	Statement showing details of items/assets/works claimed under Exclusions	***
FORM-L	Statement of Capital cost	***
FORM-M	Statement of Capital Woks in Progress	***
FORM-N	Calculation of Interest on Normative Loan	✓
FORM-O	Calculation of Interest on Working Capital	✓
FORM-P	Incidental Expenditure up to SCOD and up to Actual COD	NA
FORM-Q	Expenditure under different packages up to SCOD and up to Actual COD	NA
FORM-R	Actual cash expenditure	NA
FORM-S	Statement of Liability flow	***
FORM-T	Summary of issues involved in the petition	✓

** Additional Forms

*** Shall be provided at the time of true up



List of supporting documents for tariff filing for Thermal Stations

S. 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)	NA
2	A. Station wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures on COD of the Station for the new station & for the relevant years.	NA
	B. Station wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures for the existing station for relevant years.	***
3	Copies of relevant loan Agreements	NA
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package.	NA
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	NA
6	Copies of the BPSA/PPA with the beneficiaries, if any	NA
7	Detailed note giving reasons of cost and time over run, if applicable.	NA
	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	
8	Generating Company shall submit copy of Cost Audit Report along with cost accounting records, cost details, statements, schedules etc. for the Generating Unit wise /stage wise/Station wise/ and subsequently consolidated at Company level as submitted to the Govt. of India for first two years i.e. 2019-20 and 2020-21 at the time of mid-term true-up in 2021-22 and for balance period of tariff period 2019-24 at the time of final true-up in 2024-25. In case of initial tariff filing the latest available Cost Audit Report should be furnished.	***
9	Any other relevant information, (Please specify)	NA
10	Reconciliation with Balance sheet of any actual additional capitalization and amongst stages of a generating station	***
11	BBMB is maintaining the records as per the relevant applicable Acts. Formats specified herein may not be suitable to the available information with BBMB. BBMB may modify the formats suitably as per available information to them for submission of required information for tariff purpose.	NA

*** Shall be provided at the time of true up



Summary of Tariff

Name of the Petitioner:		NTPC Limited								
Name of the Generating Station:		Auraiya Gas power Station								
Place (Region/District/State):		Northern Region/ Auraiya/ Uttar Pradesh								
S. No.	Particulars	Unit	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	Amount in Rs. Lakhs	
									4	5
1	2	3								
1.1	Depreciation	Rs Lakh	4,047.87	4,080.83	4,210.25	4,327.14	4,327.14	4,327.14		
1.2	Interest on Loan	Rs Lakh	592.01	566.98	405.79	214.19	51.13	-		
1.3	Return on Equity	Rs Lakh	10,815.51	10,294.81	10,339.94	10,373.38	10,373.38	10,373.38		
1.4	Interest on Working Capital	Rs Lakh	8,104.64	9,275.86	9,312.84	9,349.22	9,385.63	9,424.46		
1.5	O&M Expenses	Rs Lakh	12,587.83	13363.49	13932.01	14529.12	15156.31	15821.90		
	Total	Rs Lakh	38052.09	37581.97	38200.84	38793.05	39293.59	39946.87		
2.1	Landed Fuel Cost (Domestic gas)	Rs/1000SCM			16783.14					
	(%) of Fuel Quantity	(%)			62.04					
2.2	Landed Fuel Cost (RLNG)	Rs/1000SCM			47586.90					
	(%) of Fuel Quantity	(%)			35.31					
2.3	Landed Fuel Cost (Liquid)	Rs/KL			66236.37					
	(%) of Fuel Quantity	(%)			2.65					
2.4	Secondary fuel oil cost (ex-bus)	Rs/Kwh			NA					
2.5	Energy Charge Rate (Gas) ex-bus-CC	Rs/Kwh			3.965					
2.6	Energy Charge Rate (LNG) ex-bus-CC	Rs/Kwh			11.194					
2.7	Energy Charge Rate(Naptha ex-bus-CC	Rs/Kwh			12.549					
2.8	Weighted Average Energy Charge Rate ex-bus-CC	Rs/Kwh			6.745					

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(Petitioner)

Name of the Petitioner: NTPC Limited
Name of the Generating Station: Auraiya Gas power Station

Amount in Rs. Lakhs

Statement showing claimed capital cost – (A+B)

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	Opening Capital Cost	1,33,172.83	1,33,587.83	1,34,774.83	1,34,774.83	1,34,774.83
2	Add: Addition during the year/period	415.00	1,187.00	-	-	-
3	Less: De-capitalisation during the year/period	-	-	-	-	-
4	Less: Reversal during the year / period	-	-	-	-	-
5	Add: Discharges during the year/ period	-	-	-	-	-
6	Closing Capital Cost	1,33,587.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83
7	Average Capital Cost	1,33,380.33	1,34,181.33	1,34,774.83	1,34,774.83	1,34,774.83

Statement showing claimed capital cost eligible for RoE at normal rate (A)

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	Opening Capital Cost	133172.83	133587.83	134774.83	134774.83	134774.83
2	Add: Addition during the year / period	415.00	1,187.00	-	-	-
3	Less: De-capitalisation during the year / period	-	-	-	-	-
4	Less: Reversal during the year / period	-	-	-	-	-
5	Add: Discharges during the year / period	-	-	-	-	-
6	Closing Capital Cost	133587.83	134774.83	134774.83	134774.83	134774.83
7	Average Capital Cost	133380.33	134181.33	134774.83	134774.83	134774.83

**Statement showing claimed capital cost eligible for RoE at weighted average rate of interest
on actual loan portfolio (B)**

S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
1	Opening Capital Cost	-	-	-	-	-
2	Add: Addition during the year / period	-	-	-	-	-
3	Less: De-capitalisation during the year / period	-	-	-	-	-
4	Less: Reversal during the year / period	-	-	-	-	-
5	Add: Discharges during the year / period	-	-	-	-	-
6	Closing Capital Cost	-	-	-	-	-
7	Average Capital Cost	-	-	-	-	-



(Petitioner)

NTPC Limited

Auraiya Gas power Station

Statement showing Return on Equity at Normal Rate

S. No.	Particulars	Amount in Rs. Lakhs				
		2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
	Return on Equity					
1	Gross Opening Equity (Normal)	54,749.85	54,874.35	55,230.45	55,230.45	55,230.45
2	Less: Adjustment in Opening Equity	-				
3	Adjustment during the year		-	-	-	-
4	Net Opening Equity (Normal)	54,749.85	54,874.35	55,230.45	55,230.45	55,230.45
5	Add: Increase in equity due to addition during the year / period	124.50	356.10			
7	Less: Decrease due to De-capitalisation during the year / period					
8	Less: Decrease due to reversal during the year / period					
9	Add: Increase due to discharges during the year / period					
10	Net closing Equity (Normal)	54,874.35	55,230.45	55,230.45	55,230.45	55,230.45
11	Average Equity (Normal)	54,812.10	55,052.40	55,230.45	55,230.45	55,230.45
12	Rate of ROE (%)	18.782	18.782	18.782	18.782	18.782
13	Total ROE	10,294.81	10,339.94	10,373.38	10,373.38	10,373.38



(Petitioner)

Name of the Petitioner: NTPC Limited

Name of the Generating Station: Auraiya Gas power Station

Statement showing Return on Equity at Normal Rate

S. No.	Particulars	Amount in Rs. Lakhs						
		2019-20	2020-21	2021-22	2022-23	2023-24		
1	2	3	4	5	6	7		
	Return on Equity (beyond the original scope of work excluding additional capitalization due to Change in Law)							
1	Gross Opening Equity (Normal)	-	-	-	-	-	-	-
2	Less: Adjustment in Opening Equity	-	-	-	-	-	-	-
3	Adjustment during the year	-	-	-	-	-	-	-
4	Net Opening Equity (Normal)	-	-	-	-	-	-	-
5	Add: Increase in equity due to addition during the year / period	-	-	-	-	-	-	-
7	Less: Decrease due to De-capitalisation during the year / period	-	-	-	-	-	-	-
8	Less: Decrease due to reversal during the year / period	-	-	-	-	-	-	-
9	Add: Increase due to discharges during the year / period	-	-	-	-	-	-	-
10	Net closing Equity (Normal)	-	-	-	-	-	-	-
11	Average Equity (Normal)	-	-	-	-	-	-	-
12	Rate of ROE (%)	16.307	16.342	16.372	16.402	16.450		
13	Total ROE	0.00	0.00	0.00	0.00	0.00	0.00	0.00



(Petitioner)

Plant Characteristics

Name of the Petitioner	NTPC Ltd											
Name of the Generating Station	Auraiya Gas Power Station											
Unit(s)/Block(s)/Parameters	GT-1	GT-2	GT-3	GT-3	ST-1	ST-2						
Installed Capacity (MW)	111.19	111.19	111.19	111.19	109.30	109.30						
Schedule COD as per Investment Approval												
Actual COD	1-Oct-90	1-Oct-90	1-Nov-90	1-Nov-90	1-Nov-90	1-Dec-90						
Pit Head or Non Pit Head	NA											
Name of the Boiler Manufacture												
Name of Turbine Generator Manufacture												
Main Steams Pressure at Turbine inlet (kg/Cm ²) abs	Not Applicable											
Main Steam Temperature at Turbine inlet (°C)												
Reheat Steam Pressure at Turbine inlet (kg/Cm ²)												
Reheat Steam Temperature at Turbine inlet (°C)												
Main Steam flow at Turbine inlet under MCR condition (tons /hr)												
Main Steam flow at Turbine inlet under VWO condition (tons /hr)												
Unit Gross electrical output under MCR /Rated condition (MW)												
Unit Gross electrical output under VWO condition (MW)												
Guaranteed Design Gross Turbine Cycle Heat Rate (kCal/kWh)												
Conditions on which design turbine cycle heat rate guaranteed												
% MCR												
% Makeup Water Consumption												
Design Capacity of Make up Water System												
Design Capacity of Inlet Cooling System												
Design Cooling Water Temperature (°C)												
Back Pressure												
Steam flow at super heater outlet under BMCR condition (tons/hr)												
Steam Pressure at super heater outlet under BMCR condition) (kg/Cm ²)												
Steam Temperature at super heater outlet under BMCR condition (°C)												
Steam Temperature at Reheater outlet at BMCR condition (°C)												
Design / Guaranteed Boiler Efficiency (%)												
Design Fuel with and without Blending of domestic/imported coal												
Type of Cooling Tower							IDCT					
Type of cooling system							Closed Circuit					
Type of Boiler Feed Pump							Motor Driven					
Fuel Details												
-Primary Fuel	Natural Gas											
-Secondary Fuel	NA											
-Alternate Fuels	Naphtha											
Special Features/Site Specific Features												
Special Technological Features												
Environmental Regulation related features												
Any other special features												


Petitioner

Normative parameters considered for tariff computations

Name of the Petitioner:	NTPC Limited
Name of the Generating Station:	Auraiya Gas power Station

(Year Ending March)

Particulars	Unit	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8
Base Rate of Return on Equity \$\$	%	15.50	15.50	15.50	15.50	15.50	15.50
Base Rate of Return on Equity on Add. Capitalization** \$\$	%	-	4.947	5.151	5.323	5.497	5.770
Effective Tax Rate	%	21.549	17.472	17.472	17.472	17.472	17.472
Target Availability	%	85.00	85.00				
In High Demand Season	%	-	-	85.00	85.00	85.00	85.00
Peak Hours	%	-	-	85.00	85.00	85.00	85.00
Off-Peak Hours	%	-	-	85.00	85.00	85.00	85.00
In Low Demand Season(Off-Peak)	%	-	-	85.00	85.00	85.00	85.00
Peak Hours	%	-	-	85.00	85.00	85.00	85.00
Off-Peak Hours	%	-	-	85.00	85.00	85.00	85.00
Auxiliary Energy Consumption	%	2.50	2.75	2.75	2.75	2.75	2.75
Gross Station Heat Rate	kCal/kWh	2100	2100	2100	2100	2100	2100
Specific Fuel Oil Consumption	ml/kWh	NA	NA	NA	NA	NA	NA
Cost of Coal/Lignite for WC	in Days	NA	NA	NA	NA	NA	NA
Cost of Main Secondary Fuel Oil for WC	in Months	NA	NA	NA	NA	NA	NA
Fuel Cost for WC	in Days	30	30	30	30	30	30
Liquid Fuel Stock for WC	in Days	15	15	15	15	15	15
O&M Expenses	Rs lakh/MW	18.72	17.58	18.2	18.84	19.5	20.19
Maintenance Spares for WC	% of O&M	30.00	30.00	30.00	30.00	30.00	30.00
Receivables for WC	in Days	60	45	45	45	45	45
Storage capacity of Primary fuel	MT			NA			
SBI 1 Year MCLR plus 350 basis point	%	13.50	12.05	12.05	12.05	12.05	12.05
Blending ratio of domestic coal/imported coal				NA			

** Rate of Return on Add - cap beyond original scope and excluding Change in Law

\$\$ Additional RoE due to better ramp rate would be claimed at the time of true-up or as per guidelines to be issued



Petitioner

Part-I
FORM-3A
ADDITIONAL FORM

Calculation of O&M Expenses

Name of the Company :		NTPC Limited							
Name of the Power Station :		Auraiya Gas power Station							
		Amount in Rs. Lakhs							
S.No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24	2022-23	2023-24	
1	2	3	4	5	7	8			
1	O&M expenses under Reg.35(1)								
1a	Normative	11661.87	12073.15	12497.70	12935.52	13393.24			
2	O&M expenses under Reg.35(6)								
2a	Water Charges	114.06	116.34	118.67	121.04	123.46			
2b	Security expenses	1587.56	1742.52	1912.75	2099.75	2305.20			
2c	Capital Spares**	-	-	-	-	-			
3	O&M expenses-Ash Transportation	NA	NA	NA	NA	NA			
	Total O&M Expenses	13363.49	13932.01	14529.12	15156.31	15821.90			

** Shall be provided at the time of truing up



Petitioner

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Form-4

DETAILS OF FOREIGN LOANS

(Details only in respect of loans applicable to the project under petition)

Name of the company
Name of the Power StationNTPC LIMITED
AURAIYA R & M

Exchange Rate as on 31-03-2019 USD = Rs. 69.77 EUR = Rs. 78.84 JPY 0.6343

	2.44% (Amount in Lacs)				(Amount in Lacs)			
	2019-20 (01.04.2019 to 31.03.2020)		2020-21 (01.04.2020 to 31.03.2021)		2019-20 (01.04.2019 to 31.03.2020)		2020-21 (01.04.2020 to 31.03.2021)	
1	2	3	4	1	2	3	4	
Date	Amount (FC)	Ex. Rate	Amount (INR)	Date	Amount (FC)	Ex. Rate	Amount (INR)	
Financial Year (Starting from COD)								
1								
4.75% Eurobonds 2022								
Currency 1 USD								
At the date of drawl	121.81	69.77	8,498.33		121.81	69.77	8,498.33	
Loan repayment upto previous period	-	0.00	-					
Net loan at the Beginning of the period	121.81	69.77	8,498.33	01-04-2020	121.81	69.77	8,498.33	
Schedule repayment date of principal								
2								
Scheduled payment date of interest	02-04-2019	2.89	201.84	02-04-2020	2.89	69.77	201.84	
3								
Withholding tax including surcharge on interest	02-04-2019	0.17	11.66	02-04-2020	0.17	69.77	11.66	
4								
Schedule repayment date of principal								
5								
Scheduled payment date of interest	02-10-2019	2.89	201.84	02-10-2020	2.89	69.77	201.84	
6								
Withholding tax including surcharge on interest	02-10-2019	0.17	11.66	02-10-2020	0.17	69.77	11.66	
7								
At the end of Financial year	31-03-2020	121.81	8,498.33	31-03-2021	121.81	69.77	8,498.33	

	100.00% (Amount in Lacs)				(Amount in Lacs)			
	2019-20 (01.04.2019 to 31.03.2020)		2020-21 (01.04.2020 to 31.03.2021)		2019-20 (01.04.2019 to 31.03.2020)		2020-21 (01.04.2020 to 31.03.2021)	
1	2	3	4	1	2	3	4	
Date	Amount (FC)	Ex. Rate	Amount (INR)	Date	Amount (FC)	Ex. Rate	Amount (INR)	
Financial Year (Starting from COD)								
1								
JBIC Auraiya								
Currency 1 JPY								
At the date of drawl	79,859.80	0.63	50,655.07	01-04-2020	79,859.80	0.63	50,655.07	
Loan repayment upto previous period	26,620.02	0.63	16,885.08		33,275.02	0.63	21,106.35	
Net loan at the Beginning of the period	53,239.78	0.63	33,769.99	01-04-2020	46,584.78	0.63	29,548.73	
Schedule repayment date of principal	23-05-2019	3327.5	2,110.63	23-05-2020	3,327.50	0.63	2,110.63	
2								
Scheduled payment date of interest	23-05-2019	503.23	319.20	23-05-2020	442.76	0.63	280.84	
3								
Withholding tax including surcharge on interest	23-05-2019	11.63	7.37	23-05-2020	10.23	0.63	6.49	
4								
Schedule repayment date of principal	23-11-2019	3,327.50	2,110.63	23-11-2020	3,327.50	0.63	2,110.63	
5								
Scheduled payment date of interest	23-11-2019	479.60	304.21	23-11-2020	415.65	0.63	263.65	
6								
Withholding tax including surcharge on interest	23-11-2019	11.08	7.03	23-11-2020	9.60	0.63	6.09	
7								
At the end of Financial year	31-03-2020	46,584.78	29,548.73	31-03-2021	39,929.78	0.63	25,327.46	


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(Amount in Lacs)			
2021-22 (01.04.2021 to 31.03.2022)		2022-23 (01.04.2022 to 31.03.2023)	
1	2	3	4
Date	Amount (FC)	Ex. Rate	Amount (INR)
	121.81	69.77	8,498.33
01-04-2021	121.81	69.77	8,498.33
02-04-2021	2.89	69.77	201.84
02-04-2021	0.17	69.77	11.66
02-10-2021	2.89	69.77	201.84
02-10-2021	0.17	69.77	11.66
31-03-2022	121.81	69.77	8,498.33
			0.00


(Amount in Lacs)				(Amount in Lacs)				(Amount in Lacs)			
2021-22 (01.04.2021 to 31.03.2022)		2022-23 (01.04.2022 to 31.03.2023)		2023-24 (01.04.2023 to 31.03.2024)							
1	2	3	4	1	2	3	4				
Date	Amount (FC)	Ex. Rate	Amount (INR)	Date	Amount (FC)	Ex. Rate	Amount (INR)				
01-04-2021	79,859.80	0.63	50,655.07	01-04-2023	79,859.80	0.63	50,655.07				
01-04-2021	39,930.02	0.63	25,327.61	01-04-2023	53,240.02	0.63	33,770.14				
01-04-2021	39,929.78	0.63	25,327.46	01-04-2023	26,619.78	0.63	16,884.93				
23-05-2021	3,327.50	0.63	2,110.63	23-05-2023	3,327.50	0.63	2,110.63				
23-05-2021	377.43	0.63	239.40	23-05-2023	251.62	0.63	159.60				
23-05-2021	8.72	0.63	5.53	23-05-2023	5.81	0.63	3.69				
23-11-2021	3,327.50	0.63	2,110.63	23-11-2023	3,327.50	0.63	2,110.63				
23-11-2021	351.71	0.63	223.09	23-11-2023	223.81	0.63	141.96				
23-11-2021	8.12	0.63	5.15	23-11-2023	5.17	0.63	3.28				
31-03-2022	33,274.78	0.63	21,106.19	31-03-2024	19,964.78	0.63	12,663.66				

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Abstract of Admitted Capital Cost for the existing Projects

Name of the Company :		NTPC Limited	
Name of the Power Station :		Auraiya Gas power Station	
Last date of order of Commission for the project		Date (DD-MM-YYYY)	18-04-2017
Reference of petition no. in which the above order was passed		Petition no.	285/GT/2014
Following details as admitted as on the last date of the period for which tariff is approved, in the above order by the Commission:			
Capital cost as on 31.03.2019			99176.51
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)			4.64
Gross Normative Debt as on 31.03.2019		(Rs. in lakh)	54625.56
Cumulative Repayment as on 31.03.2019			48701.31
Net Normative Debt as on 31.03.2019			5924.25
Normative Equity as on 31.03.2019			44550.95
Cumulative Depreciation as on 31.03.2019			78384.06
Freehold land			905.42
			 (Petitioner)

Abstract of Claimed Capital Cost for the existing Projects

Name of the Company : NTPC Limited		Affidavit dated	
Name of the Power Station : Auraiya Gas power Station		25.10.2019	
Reference of Final True-up Tariff Petition			
Capital Cost as on 31.03.2019 as per Hon'ble Commission's Order dated 18.04.2017 in Pet. No. 285/GT/2014		Rs. Lakhs	99,176.51
Adjustment as per Para 7 of this petition			33,996.32
Following details as considered by the Petitioner as on the last date of the period for which final true-up tariff is claimed:			
Capital cost as on 31.03.2019			1,33,172.83
Amount of un-discharged liabilities included in above (& forming part of admitted capital cost)			
Amount of un-discharged liabilities considered to above considered capital cost (but not forming part of considered capital cost being claimed on cash basis)			247.51
Gross Normative Debt as on 31.03.2019		(Rs. in lakh)	78,422.98
Cumulative Repayment as on 31.03.2019			65,065.57
Net Normative Debt as on 31.03.2019			13,357.41
Normative Equity as on 31.03.2019			54,749.85
Cumulative Depreciation as on 31.03.2019			92,416.38
Freehold land			905.42
			 (Petitioner)

Form-7

Name of the Company	
Name of the Power Station	Auraiya R&M
Particulars	
Source of Loan	JBIC Auraiya
Currency	JPY
Amount of loan sanctioned	8,02,16,22,579.00
Amount of Gross Loan drawn upto 31.03.2019	7,98,59,78,815.00
Interest Type	Fixed
Fixed Interest Rate, if applicable	1.88%
Base Rate, if floating interest	-
Margin, if floating interest rate	-
Are there any Caps / Floor	NO
If above is Yes, specify Caps / Floor	-
Moratorium Period	1 Year 4 Months
Moratorium effective from	25-Jan-2014
Repayment period	24 Installemnts
Repayment effective from	26-May-2015
Repayment frequency	Semi Annual
Repayment installment	JPY 332,750,000/- each except last of JPY 332,728,815/-
Base Exchange Rate (31.03.2019)	0.6343
Name of the Projects	Auraiya R&M

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Name of the Company
Name of the Power Station

NTPC Limited
Various

Form-8

Particulars	
Source of Loan	4.75% Fixed Rate Notes due 2022#
Drawal	-
Currency	USD
Amount of loan sanctioned	50,00,00,000
Amount of Gross Loan drawn upto 31.03.2013 / COD	50,00,00,000
Interest Type	Fixed
Fixed Interest Rate, if applicable	4.75% #
Base Rate, if floating interest*	-
Margin, if floating interest rate	-
Are there any Caps / Floor	NO
If above is Yes, specify Caps / Floor	-
Moratorium Period	10 Years
Moratorium effective from	03-Oct-2012
Repayment period	Bullet payment
Repayment effective from ^	03-Oct-2022
Repayment frequency	One time
Repayment installment	50,00,00,000
Base Exchange Rate (31.03.2014)	60.61
Are foreign currency loan hedged	NO
If above is Yes, specify details	
Date of Drawl	03-10-2012
Exchange rate on date of drawal	51.91

Name of the Projects	%
Koldam	6.4273%
Sipat-I	1.0900%
Bongaigaon	4.8526%
Tapovan Vishnugad	3.1659%
Rihand-III	9.5929%
Barh-II	2.7817%
Vindhyachal-IV	10.6301%
Simhadri-II	3.9948%
Mouda-I	8.4848%
Barh-I	11.2669%
Kudgi-I	5.0420%
Lara-I	15.2868%
Mouda-II	3.6033%
Solapur	5.4994%
Kawas R&M	4.4580%
Gandhar R&M	0.2499%
Auraiya R&M	2.4361%
Korba R&M	1.1375%
Gadarwara	

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Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000521

T00001

D00004

Unsecured Loan From HDFC Bank Ltd.-IV		
Source of Loan :	HDFC Bank Ltd.-IV	
Currency :	INR	
Amount of Loan :	20,00,00,00,000	
Total Drawn amount :	12,45,00,00,000	
Date of drawl	29.06.2018	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	8.00%	
Margin, If Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	3 Years	
Moratorium effective from :	29.06.2018	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	9 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	17.04.2021	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	KORBA R&M	90,00,00,000
	RAMAGUNDAM R&M	2,20,00,00,000
	UNCHAHAR R&M	70,00,00,000
	RIHAND R&M	90,00,00,000
	KAWAS R&M	1,80,00,00,000
	AURAIYA R&M	1,80,00,00,000
	TSTPP R&M	90,00,00,000
	GANDHAR R&M	1,85,00,00,000
	NCTPP R&M	30,00,00,000
	KAHALGAON R&M	30,00,00,000
	ANTA R&M	80,00,00,000
Total Allocated Amount		12,45,00,00,000

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Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000641

T00001

D00002

Unsecured Loan From HDFC Bank Ltd. VI		
Source of Loan :	HDFC Bank Ltd. VI	
Currency :	INR	
Amount of Loan :	15,00,00,00,000	
Total Drawn amount :	5,00,00,00,000	
Date of drawl	11.10.2018	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	8.30%	
Margin, If Floating Interest :	NIL	
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	MONTHLY	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	6 Years	
Moratorium effective from :	11.10.2018	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	26.09.2025	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BARH-I	55,00,00,000
	TAPOVAN VISHNUGARH	10,00,00,000
	BONGAIGAON	10,00,00,000
	SOLAPUR	14,00,00,000
	LARA-I	33,00,00,000
	GADARWARA	68,00,00,000
	NORTH KARANPURA	42,00,00,000
	DARLIPALLI	34,00,00,000
	TANDA II	31,00,00,000
	RAMMAM	3,00,00,000
	KHARGONE	48,00,00,000
	TELANGANA	42,00,00,000
	AURAIYA R&M	50,00,00,000
	NCTPP R&M	10,00,00,000
	KAWAS R&M	15,00,00,000
	GANDHAR R&M	35,00,00,000
Total Allocated Amount		5,00,00,00,000



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Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner		NTPC Limited							Amount in Rs Lakh	
Name of the Generating Station		Auraiya Gas power Station								
COD		01-12-1990								
For Financial Year		2019-24 (Summary)								
Sl. No.	Head of Work /Equipment	ACE Claimed (Projected)							Justification/ Regulation under which claimed	Admitted Cost by the Commission, if any
		2019-20	2020-21	2021-22	2022-23	2023-24	2023-24	2023-24		
1	2	3	4	5	6	7	8	9		
A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate										
1	CLO2 system	37.00	693.00	-	-	-	-	-	Refer Form 9A of 2019-20 & 2020-21	-
2	Zero Liquid Discharge (ZLD)	300.00	240.00	-	-	-	-	-	Refer Form 9A of 2019-20 & 2020-21	-
3	Solar PV system within plant	54.00	54.00	-	-	-	-	-	Refer Form 9A of 2019-20 & 2020-21	-
4	Bio-Methanation Plant	11.00	-	-	-	-	-	-	Refer Form 9A of 2019-20	-
5	Fire Alarm system at Administrative Building	13.00	-	-	-	-	-	-	Refer Form 9A of 2019-20	-
6	CW treatment for High COC	-	200.00	-	-	-	-	-	Refer Form 9A of 2020-21	-
	Sub Total (A)	415.00	1,187.00	-	-	-	-	-		-
B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest										
	Sub Total (B)	-	-	-	-	-	-	-		-
	Total Add. Cap. Claimed (A+B)	415.00	1,187.00	-	-	-	-	-		-


(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited			
Name of the Generating Station	Auraiya Gas power Station			
COD	01-12-1990			
For Financial Year	2019-20			

Sl. No.	Head of Work /Equipment	ACE Claimed (Actual / Projected)			Regulations under which claimed	Justification	Amount in Rs Lakh Admitted Cost by the Commission, if any
		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis included in col. 3			
1	2	3	4	5= (3-4)	6	7	9
A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate							
1	ClO2 system	37.00		37.00		26(1)(b) & (d)	In the instant station, at present Chlorine gas is being dozed directly at various stages of water treatment to maintain water quality and to inhibit organic growth in the water retaining structures/ equipment such as clarifiers, storage tanks, cooling towers, condenser tubes & piping etc. Chlorine dosing is done from chlorine stored in cylinders/ tonners. Chlorine gas is very hazardous and may prove fatal in case of leakage; handling and storage of same involves risk to the life of public at large. In the interest of public safety the chlorine dozing system is now being replaced by Chlorine Dioxide (ClO2) system, which is much safer and less hazardous than chlorine. In the proposed scheme ClO2 shall be produced on site by use of commercial grade HCl and sodium chlorite. As ClO2 is generated at site, avoids handling and storage risk. Further, at Kudgi NTPC project Department of Factories, Boiler, Industrial Safety and Health, Govt of Karnataka has directed NTPC to replace highly hazardous gas chlorination system with ClO2 system. SPCB, Odisha while issuing consent to establish in case of Daripalli Station has asked NTPC to explore the possibility of installing ClO2 system instead of Chlorine gas system (Relevant documents is attached at Annexure-I). For safety of public NTPC is replacing the chlorination system with ClO2 system. A part of the work is expected to be capitalised during FY 2019-20 and balance major work shall be capitalised in subsequent Yrs. Accordingly, Hon'ble Commission may be pleased to allow the same under Reg. 26(1)(b) & (d).
2	Zero Liquid Discharge (ZLD)	300.00		300.00		26(1)(b)	As per the directions of Central Pollution Control Board (CPCB), ZLD has to be ensured in various Water polluting industries including the Power Generating Stations. Further, as per the 'Consent to operate', granted by the State Pollution Control Board, the Zero liquid discharge has to be ensured by the station. (Relevant document is attached at Annexure-II) To comply with above directions, ZLD work may please be allowed by the Hon'ble Commission under change in law, under Regulation 26 (1) (b).

Name of the Petitioner		NTPC Limited						
Name of the Generating Station		Auraiya Gas power Station						
COD		01-12-1990						
For Financial Year		2019-20						
Sl. No.	Head of Work /Equipment	ACE Claimed (Actual / Projected)			Regulations under which claimed	Justification	Amount in Rs Lakh Admitted Cost by the Commission, if any	
		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis				IDC included in col. 3
1	2	3	4	5-(3+4)	6	7	8	9
3	Solar PV system within plant	54.00	-	54.00	-	26(1)(b)	In view of the Government of India target for installation of 175 GW of Renewable power by the end of 2022 and as the measure of energy conservation, the Petitioner has taken initiative by installing Rooftop Solar. This initiative will help in reducing the CO2 emission and will also contribute to decrease in auxiliary power consumption (APC). While on one hand it will help pass on the benefit of saving in APC to the beneficiaries of the station on the other hand, it shall contribute towards the cleaner environment for the benefit of the public at large. Presently, MOEF is also prescribing the installation of renewable generation plants in the premises of thermal generating station, while granting the MOEF clearance for new projects. Accordingly, Hon'ble Commission may be pleased to allow the same under Reg. 26(1) (b).	9
4	Bio-Methanation Plant	11.00	-	11.00	-	26(1)(b)	U.P. Pollution Control Board(UPPCB) vide its consent order dtd 12.4.2018 (copy attached as Annexure-II) has directed Auraiya Station that Solid waste shall be disposed in such a manner that no air, water and soil pollution takes place. To comply the direction, a Bio digesters system has been commissioned at Auraiya station. A biogas digester (also known as a biogas plant) consist of a large tank where inside Biogas is produced by bacteria through the decomposition/ breakdown of organic matter. Major work was completed during FY 2017-18 and Rs 57.41 Lakh has been capitalized during FY 2017-18. Balance work is projected to be capitalized during FY 2019-20. Hon'ble Commission may be pleased to allow the same.	
5	Fire Alarm system at Administrative Building	13.00	-	13.00	-	26(1)(b) & (d)	Presently, there is no Fire Alarm system at Administrative Building. In one of safety Audit, it was recommended that there should be Fire Alarm system at Administrative Building. Further vide letter dtd 25.01.2020 copy attached as Annexure-III , CISF directed to install fire detectors and alarming system at administrative building. In order to comply the direction of CISF, it has been decided to implement Fire Alarm system at Administrative Building. Since, the capitalization is as per direction of CISF for the safety of the plant building, Hon'ble Commission may be pleased allow the same.	
Sub Total (A)		378.00	-	378.00	-			
B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest								
Sub Total (B)		-	-	-	-			
Total Add. Cap. Claimed		378.00	-	378.00	-			


(Petitioner)

Year wise Statement of Additional Capitalisation after COD


Name of the Petitioner		NTPC Limited						Amount in Rs Lakh
Name of the Generating Station		Auraiya Gas power Station						
COD		01-12-1990						
For Financial Year		2020-21						
Sl. No.	Head of Work /Equipment	Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	Regulations under which claimed	Justification	Admitted Cost by the Commission, if any
		3	4	5= (3-4)	6	7	8	9
A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate								
1	CLO2 system	693.00	-	693.00	-	26(1)(b) & (d)	Justification as mentioned in Form-9A for FY 2019-20 at sl no. 1. Major part of the work is expected to be capitalised in FY 2020-21. Accordingly, Hon'ble Commission may be pleased to allow the same under Reg. 26(1)(b) & (d).	
2	Zero Liquid Discharge (ZLD)	240.00	-	240.00	-	26(1)(b)	Justification as mentioned in Form-9A for FY 2019-20 at sl no. 2. The Balance part of the work is expected to be capitalised in FY 2020-21. Hon'ble Commission may be pleased allow the same.	

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Name of the Petitioner		NTPC Limited	
Name of the Generating Station		Auraiya Gas power Station	
COD		01-12-1990	
For Financial Year		2020-21	

Sl. No.	Head of Work /Equipment	ACE Claimed (Actual / Projected)				Regulations under which claimed	Justification	Amount in Rs Lakh Admitted Cost by the Commission, if any
		Accrual basis as per I/GAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3			
1	2	3	4	5= (3-4)	6	7	8	9
3	CW treatment for High COC	200.00	-	200.00	-	26(1)(b)	MoEF vide notification dtd 07.12.2015 has directed all thermal power plants to reduce water consumption. Further, UP Pollution Control Board(PCB) vide its Consent Order dtd 12.04.2018 has directed Auraiya GPS to comply with the conditions contained in notifications issued by MoEF time to time. In order to comply with the statutory requirement, it has been decided to operate CW system at High Cycle of Concentration(CoC) for reduction of blow down water quantity and thereby reduce water consumption. However, High COC operation of CW system will require installation of CW treatment system for chemical handling, storage & dosing etc. Since the expenditure is against compliance of Statutory Directions, Hon'ble Commission may be pleased allow the same.	
4	Solar PV system within plant	54.00	-	54.00	-	26(1)(b)	Justification as mentioned in Form-9A for FY 2019-20 at sl no. 3. The Balance part of the work is expected to be capitalised in FY 2020-21. Hon'ble Commission may be pleased allow the same.	

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Name of the Petitioner		NTPC Limited						
Name of the Generating Station		Auraiya Gas power Station						
COD		01-12-1990						
For Financial Year		2020-21						
Sl. No.	Head of Work /Equipment	Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	Regulations under which claimed	Justification	Amount in Rs Lakh Admitted Cost by the Commission, if any
1	2	3	4	5=(3-4)	6	7	8	9
	Sub Total (A)	1,187.00	-	1,187.00	-			
B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest								
	Sub Total (B)	-	-	-	-			
	Total Add. Cap. Claimed (A+B)	1,187.00	-	1,187.00	-			
 (Petitioner)								

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner		NTPC Limited				
Name of the Generating Station		Auraiya Gas power Station				
COD		01-12-1990				
For Financial Year		2021-22				

Sl. No.	Head of Work /Equipment	ACE Claimed (Actual / Projected)				Regulations under which claimed	Justification	Amount in Rs Lakh Admitted Cost by the Commission, if any
		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3			
1	2	3	4	5=(3-4)	6	7	8	9
A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate								
1	NA	NA	NA	NA	NA	NA	NA	NA
Total (A)		-	-	-	-	-	-	-
B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest								
2	NA	NA	NA	NA	NA	NA	NA	NA
Total (B)		-	-	-	-	-	-	-
Total Add. Cap. Claimed (A+B)		-	-	-	-	-	-	-



(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner		NTPC Limited					
Name of the Generating Station		Auraiya Gas power Station					
COD		01-12-1990					
For Financial Year		2022-23					

Sl. No.	Head of Work /Equipment	Accrual basis as per IGAAP	ACE Claimed (Actual / Projected)		Regulations under which claimed	Justification	Amount in Rs Lakh Admitted Cost by the Commission, if any	
			Un-discharged Liability included in col. 3	Cash basis included in col. 3				
1	2	3	4	5=(3-4)	6	7	8	9
A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate								
1	NA	NA	NA	NA	NA	NA	NA	NA
Total (A)		-	-	-	-	-	-	-
B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest								
2	NA	NA	NA	NA	NA	NA	NA	NA
Total (B)		-	-	-	-	-	-	-
Total Add. Cap. Claimed (A+B)		-	-	-	-	-	-	-


(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited	
Name of the Generating Station	Aurajya Gas power Station	
COD	01-12-1990	
For Financial Year	2023-24	

Sl. No.	Head of Work /Equipment	Accrual basis as per IGAAP	ACE Claimed (Actual / Projected)		Regulations under which claimed	Justification	Amount in Rs Lakh Admitted Cost by the Commission, if any
			Un-discharged Liability included in col. 3	Cash basis included in col. 3			
1	2	3	4	5=(3-4)	7	8	9
A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate							
1	NA	NA	NA	NA	NA	NA	NA
Total (A)		-	-	-			
B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest							
2	NA	NA	NA	NA	NA	NA	NA
Total (B)		-	-	-			
Total Add. Cap. Claimed (A+B)		-	-	-			


(Petitioner)

**PART-I
FORM-10**

Name of the Petitioner	NTPC Limited										
Name of the Generating Station	Auraiya Gas power Station										
Date of Commercial Operation	01-12-1990										

Financial Year (Starting from COD)1	Actual					Admitted				
	2019-20	2020-21	2021-22	2022-23	2023-24	2019-20	2020-21	2021-22	2022-23	2023-24
1		3	4	5	6	7	8	9	10	11

Amount capitalised in Work/ Equipment

Financing Details	
Loan-1	
Loan-2	
Loan-3 and so on	
Total Loan2	
Equity	
Internal Resources	
Others (Pl. specify)	
Total	

Add cap is proposed to be finance in Debt:Equity ratio of 70:30

Note:

1. Year 1 refers to Financial Year of COD and Year 2, Year 3 etc. are the subsequent financial years respectively.
2. Loan details for meeting the additional capitalisation requirement should be given as per FORM-7 or 8 whichever is relevant.

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(Petitioner)

Statement of Depreciation

Name of the Company :		NTPC Limited																	
Name of the Power Station :		Auraiya Gas power Station																	
S. No.	Particulars	Existing 2018-19	2019-20					2020-21			2021-22			2022-23			2023-24		
			3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
1	Opening Capital Cost	133106.65	1,33,172.83	1,33,587.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	
2	Closing Capital Cost	133172.83	1,33,587.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	
3	Average Capital Cost	133139.74	1,33,380.33	1,34,181.33	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	1,34,774.83	
1a	Cost of IT Equipments & Software included in (1) above**		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2a	Cost of IT Equipments & Software included in (2) above**		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3a	Average Cost of IT Equipments & Software**		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4	Freehold land	905.42	905.42	905.42	905.42	905.42	905.42	905.42	905.42	905.42	905.42	905.42	905.42	905.42	905.42	905.42	905.42	905.42	
5	Rate of depreciation	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
6	Depreciable value	1,19,010.89	1,19,227.42	1,19,948.32	1,20,482.47	1,20,482.47	1,20,482.47	1,20,482.47	1,20,482.47	1,20,482.47	1,20,482.47	1,20,482.47	1,20,482.47	1,20,482.47	1,20,482.47	1,20,482.47	1,20,482.47	1,20,482.47	
7	Balance useful life at the beginning of the period	7.57	6.57	5.57	4.57	3.57	2.57	1.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	0.57	
8	Remaining depreciable value	30,642.38	26,811.04	23,451.11	19,775.01	15,447.87	11,120.74	6,803.60	2,478.67	813.74	378.81	133.88	378.81	133.88	378.81	133.88	378.81	133.88	
9	Depreciation (for the period)	0.00	4,080.83	4,210.25	4,327.14	4,327.14	4,327.14	4,327.14	4,327.14	4,327.14	4,327.14	4,327.14	4,327.14	4,327.14	4,327.14	4,327.14	4,327.14	4,327.14	
10	Depreciation (annualised)	4,047.87	4,080.83	4,210.25	4,327.14	4,327.14	4,327.14	4,327.14	4,327.14	4,327.14	4,327.14	4,327.14	4,327.14	4,327.14	4,327.14	4,327.14	4,327.14	4,327.14	
11	Cumulative depreciation at the end of the period		96,497.21	1,00,707.46	1,05,034.60	1,09,361.73	1,13,688.87	1,18,016.01	1,22,343.15	1,26,670.29	1,31,000.43	1,35,330.57	1,39,660.71	1,44,000.85	1,48,340.99	1,52,681.13	1,57,021.27	1,61,361.41	
12	Less: Cumulative depreciation adjustment on account of un-discharged liabilities deducted as on 01.04.2009	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
13	Add: Cumulative depreciation adjustment on account of liability Discharge	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
14	Less: Cumulative depreciation adjustment on account of de-capitalisation	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
15	Net Cumulative depreciation at the end of the period after adjustments	92,416.38	96,497.21	1,00,707.46	1,05,034.60	1,09,361.73	1,13,688.87	1,18,016.01	1,22,343.15	1,26,670.29	1,31,000.43	1,35,330.57	1,39,660.71	1,44,000.85	1,48,340.99	1,52,681.13	1,57,021.27	1,61,361.41	

** Shall be provided at the time of truing up

Calculation of Interest on Actual Loans						
Name of the Company		NTPC Limited				
Name of the Power Station		Auraiya GPS				
						(Amount in lacs)
Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	JBIC & SMBC					
	Gross loan - Opening	43311.99	43311.99	43311.99	43311.99	43311.99
	Cumulative repayments of Loans	14437.33	18046.66	21655.99	25265.33	28874.66
	Net loan - Opening	28874.66	25265.33	21655.99	18046.66	14437.33
	Addition					
	Repayments of Loans during the year	3609.33	3609.33	3609.33	3609.33	3609.33
	Net loan - Closing	25265.33	21655.99	18046.66	14437.33	10828.00
	Average Net Loan	27069.99	23460.66	19851.33	16242.00	12632.66
	Rate of Interest on Loan	1.95%	1.95%	1.95%	1.95%	1.95%
	Interest on loan	528.31	457.87	387.43	316.99	246.55
3	4.75% Fixed Rate Notes Due 2022					
	Gross loan - Opening	6322.90	6322.90	6322.90	6322.90	6322.90
	Cumulative repayments of Loans	0.00	0.00	0.00	0.00	6322.90
	Net loan - Opening	6322.90	6322.90	6322.90	6322.90	0.00
	Addition					
	Repayments of Loans during the year	0.00	0.00	0.00	6322.90	0.00
	Net loan - Closing	6322.90	6322.90	6322.90	0.00	0.00
	Average Net Loan	6322.90	6322.90	6322.90	3161.45	0.00
	Rate of Interest on Loan	5.0243%	5.0243%	5.0243%	5.0243%	5.0243%
	Interest on loan	317.68	317.68	317.68	158.84	0.00
4	HDFC Bank Ltd. IV D00004					
	Gross loan - Opening	18000.00	18000.00	18000.00	18000.00	18000.00
	Cumulative repayments of Loans	0.00	0.00	0.00	2000.00	4000.00
	Net loan - Opening	18000.00	18000.00	18000.00	16000.00	14000.00
	Addition	0.00	0.00	0.00	0.00	0.00
	Repayments of Loans during the year	0.00	0.00	2000.00	2000.00	2000.00
	Net loan - Closing	18000.00	18000.00	16000.00	14000.00	12000.00
	Average Net Loan	18000.00	18000.00	17000.00	15000.00	13000.00
	Rate of Interest on Loan	8.4500%	8.4500%	8.4500%	8.4500%	8.4500%
	Interest on loan	1521.00	1521.00	1436.50	1267.50	1098.50
5	HDFC Bank Ltd. VI D00002					
	Gross loan - Opening	5000.00	5000.00	5000.00	5000.00	5000.00
	Cumulative repayments of Loans	0.00	0.00	0.00	0.00	0.00
	Net loan - Opening	5000.00	5000.00	5000.00	5000.00	5000.00
	Addition	0.00	0.00	0.00	0.00	0.00
	Repayments of Loans during the year	0.00	0.00	0.00	0.00	0.00
	Net loan - Closing	5000.00	5000.00	5000.00	5000.00	5000.00
	Average Net Loan	5000.00	5000.00	5000.00	5000.00	5000.00
	Rate of Interest on Loan	8.4500%	8.4500%	8.4500%	8.4500%	8.4500%
	Interest on loan	422.50	422.50	422.50	422.50	422.50
	Total Loan					
	Gross loan - Opening	67,634.88	67,634.88	67,634.88	67,634.88	67,634.88
	Cumulative repayments of Loans	14,437.33	18,046.66	21,655.99	27,265.33	39,197.56
	Net loan - Opening	58,197.56	54,588.22	50,978.89	45,369.56	33,437.33
	Addition	-	-	-	-	-
	Repayments of Loans during the year	3,609.33	3,609.33	5,609.33	11,932.23	5,609.33
	Net loan - Closing	54,588.22	50,978.89	45,369.56	33,437.33	27,828.00
	Average Net Loan	56,392.89	52,783.56	48,174.22	39,403.44	30,632.66
	Rate of Interest on Loan	4.9465%	5.1513%	5.3226%	5.4966%	5.7701%
	Interest on loan	2,789.50	2,719.06	2,564.11	2,165.83	1,767.55

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Computation of Energy Charges

Name of the Company : **NTPC Limited**
 Name of the Power Station : **Auraiya Gas power Station**

Sl	Description	Unit			Domestic Gas	RLNG	Naphtha
		Gas/RLNG (Kcal/kwh)	Naphtha (Kcal/kwh)				
1	Normative Heat Rate (For CC Operation)				2100		
2	Normative Heat Rate (For OC Operation)				3045		
3	Capacity	MW	MW		663.36		
4	Normative Availability Factor	%	%		85.00%		
5	APC for CC operation	%	%		2.75%		
6	APC for OC operation	%	%		1.00%		
7	Weighted Average Rate of Fuel	Rs/1000SCM	Rs/Kg	16,783.14	47,586.90	66,236.37	
8	Weighted Average GCV of Fuel	Kcal/SCM	Kcal/Kg	9,139.62	9,179.54	11,397.92	
9	Rate of Energy- Ex Bus-CC	(Paise/kwh)	(Paise/kwh)	396.529	1119.429	1254.876	
10	Rate of Energy- Ex Bus-OC	(Paise/kwh)	(Paise/kwh)	564.804	1594.479	1787.406	
11	Mode of Operation on Fuel during 2014-19 (% of Schedule Generation)	%	%	62.04%	35.31%	2.65%	
12	Weighted Average Energy Charge Rate as per above in 2014-19- Ex Bus CC	(Paise/kwh)	(Paise/kwh)	674.531			

WC Calculation at CC Operation

13	Year	Rs. Lakh				
		2019-20	2020-21	2021-22	2022-23	2023-24
14	No. Of days	366	365	365	365	366
15	ESO in a year (in MUs)	4816.71	4803.55	4803.55	4803.55	4816.71
16	Fuel cost for 30 days	26631.30	26631.30	26631.30	26631.30	26631.30
17	Cost of Liquid stock for 15 days	656.46	656.46	656.46	656.46	656.46

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PETITIONER

FORM-15 (Final)

Details/Information to be provided to beneficiaries under Clause (6) of Regulation 21 of CERC (Terms & Conditions of Tariff) Regulations, 2009

Details/Information to be submitted in respect of Fuel for Computation of Energy Charges

Name of the Company:- NTPC Ltd.

Name of Power Station:- AURAIYA GAS POWER STATION

Month:- OCTOBER 18

Oct-18

S.No.	Particulars	Unit	Natural Gas		RLNG	Liquid fuel
			APM	NON APM		
1	Quantity of gas/RLNG/Liquid fuel supplied by oil/gas company/supplier inclusive of opening stock (for liquid fuel)	SCM	8606.32		48011.52	1738.11
2	Adjustment (+/-) in quantity supplied by oil/gas company/supplier	SCM				
3	Gas/RLNG/Liquid fuel supplied by oil/gas company/supplier inclusive of opening stock (for liquid fuel) (1 + 2)	SCM	8606.32		48011.52	1738.11
4	Normative transit & handling losses	SCM	NOT APPLICABLE			
5	Net Gas/RLNG/Liquid fuel supplied by oil/gas company/supplier inclusive of opening stock (for liquid fuel) (3 - 4)	SCM	8606.32		48011.52	1738.11
6	Amount charged by oil/gas company/supplier inclusive of value of opening stock (for liquid fuel)	(Rs.)	152515722		2302464857	114610165.18
7	Adjustment (+/-) in amount charged by oil/gas company/supplier	(Rs.)				
8	Total amount charged inclusive of opening stock (for liquid fuel) (6 + 7)	(Rs.)	152515722		2302464857	114610165.18
9	Transportation charges by Rail / Ship / Road Transport	(Rs.)				
10	Adjustment (+/-) in amount charged by Railways / transport Company	(Rs.)				
11	Demurrage charges, if any	(Rs.)				
12	Cost of diesel in trans. Cont. MGR sys					0
13	Total Transportation Charges and other charges (9+/- 10-11+12)	(Rs.)				
13A	Others	(Rs.)				
15	Total amount charged for gas/RLNG/liquid fuel supplied including transportation (8+13)	(Rs.)	152515722		2302464857	114610165
16	Weighted average GCV of gas/RLNG/liquid fuel as received	(kcal/SCM)	9164.11		9188.65	11389.85
17	Weighted average PRICE of gas / RLNG/liquid fuel	Rs/1000 SCM	17721.36		47956.51	65939.65

* Inclusive of opening stock in liquid fuel only



Shalaby

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FORM-15 (Final)

Details/Information to be provided to beneficiaries under Clause (6) of Regulation 21 of CERC (Terms & Conditions of Tariff) Regulations, 2009

Details/Information to be submitted in respect of Fuel for Computation of Energy Charges

Name of the Company:- NTPC Ltd.

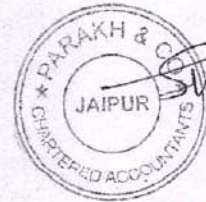
Name of Power Station:- AURAIYA GAS POWER STATION

Month:- NOVEMBER 18

Nov-18

S.No.	Particulars	Unit	Natural Gas		RLNG	Liquid fuel
			APM	NON APM		
1	Quantity of gas/RLNG/Liquid fuel supplied by oil/gas company/supplier inclusive of opening stock (for liquid fuel)	SCM	10766.43		8569.80	1738.08
2	Adjustment (+/-) in quantity supplied by oil/gas company/supplier	SCM				
3	Gas/RLNG/Liquid fuel supplied by oil/gas company/supplier inclusive of opening stock (for liquid fuel) (1 + 2)	SCM	10766.43		8569.80	1738.08
4	Normative transit & handling losses	SCM	NOT APPLICABLE			
5	Net Gas/RLNG/Liquid fuel supplied by oil/gas company/supplier inclusive of opening stock (for liquid fuel) (3 - 4)	SCM	10766.43		8569.80	1738.08
6	Amount charged by oil/gas company/supplier inclusive of value of opening stock (for liquid fuel)	(Rs.)	173379442		399241683	115433116.74
7	Adjustment (+/-) in amount charged by oil/gas company/supplier	(Rs.)				
8	Total amount charged inclusive of opening stock (for liquid fuel) (6 + 7)	(Rs.)	173379442		399241683	115433116.74
9	Transportation charges by Rail / Ship / Road Transport	(Rs.)				
10	Adjustment (+/-) in amount charged by Railways / transport Company	(Rs.)				
11	Demurrage charges, if any	(Rs.)				
12	Cost of diesel in trans. Coal MGR sys					
13	Total Transportation Charges and other charges (9+/- 10-11+12)	(Rs.)				0
13A	Others	(Rs.)				
15	Total amount charged for gas/RLNG/liquid fuel supplied including transportation (8+13)	(Rs.)	173379442		399241683	115433117
16	Weighted average GCV of gas/RLNG/liquid fuel as received	(kcal/SCM)	9119.10		9126.84	11408.21
17	Weighted average PRICE of gas / RLNG/liquid fuel	Rs/1000 SCM	16103.72		46587.08	66414.27

* Inclusive of opening stock in liquid fuel only



Shalekh
30/11

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FORM-15 (Final)

Details/Information to be provided to beneficiaries under Clause (6) of Regulation 21 of CERC (Terms & Conditions of Tariff) Regulations, 2009

Details/Information to be submitted in respect of Fuel for Computation of Energy Charges

Name of the Company:- NTPC Ltd.

Name of Power Station:- AURAIYA GAS POWER STATION

Month:- DECEMBER 18

Dec-18

S.No.	Particulars	Unit	Natural Gas		RLNG	Liquid fuel
			APM	NON APM		
1	Quantity of gas/RLNG/Liquid fuel supplied by oil/gas company/supplier inclusive of opening stock (for liquid fuel)	SCM	250.39		1179.84	1751.74
2	Adjustment (+/-) in quantity supplied by oil/gas company/supplier	SCM				
3	Gas/RLNG/Liquid fuel supplied by oil/gas company/supplier inclusive of opening stock (for liquid fuel) (1 + 2)	SCM	250.39		1179.84	1751.74
4	Normative transit & handling losses	SCM	NOT APPLICABLE			
5	Net Gas/RLNG/Liquid fuel supplied by oil/gas company/supplier inclusive of opening stock (for liquid fuel) (3 - 4)	SCM	250.39		1179.84	1751.74
6	Amount charged by oil/gas company/supplier inclusive of value of opening stock (for liquid fuel)	(Rs.)	3442831		46968138	116235836.74
7	Adjustment (+/-) in amount charged by oil/gas company/supplier	(Rs.)				
8	Total amount charged inclusive of opening stock (for liquid fuel) (6 + 7)	(Rs.)	3442831		46968138	116235836.74
9	Transportation charges by Rail / Ship / Road Transport	(Rs.)				
10	Adjustment (+/-) in amount charged by Railways / transport Company	(Rs.)				
11	Demurrage charges, if any	(Rs.)				
12	Cost of diesel in trans. Coal MGR sys					
13	Total Transportation Charges and other charges (9+/- 10-11+12)	(Rs.)				0
13A	Others	(Rs.)				
15	Total amount charged for gas/RLNG/liquid fuel supplied including transportation (8+13)	(Rs.)	3442831		46968138	116235837
16	Weighted average GCV of gas/RLNG/liquid fuel as received	(kcal/SCM)	9180.04		9191.39	11395.71
17	Weighted average PRICE of gas / RLNG/liquid fuel	Rs/1000 SCM	13749.77		39809.01	66354.62

* Inclusive of opening stock in liquid fuel only



Shalabh

SM

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Name of the Petitioner	NTPC Ltd
Name of the Generating Station	Auraiya Gas power Station

Statement of Capital cost

(To be given for relevant dates and year wise)

(Amount in Rs. Lakh)

S. No.	Particulars	as on 31.03.2019		
		Accrual Basis	Un-discharged Liabilities	Cash Basis
A	a) Opening Gross Block Amount as per books	1,69,070.76	5,888.87	1,63,181.88
	b) Amount of IDC in A(a) above		1820.73	
	c) Amount of FC in A(a) above			-
	d) Amount of FERV in A(a) above		8250.8303	
	e) Amount of Hedging Cost in A(a) above			-
	f) Amount of IEDC in A(a) above			-
B	a) Addition in Gross Block Amount during the period (Direct purchases)			
	b) Amount of IDC in B(a) above			
	c) Amount of FC in B(a) above			
	d) Amount of FERV in B(a) above			
	e) Amount of Hedging Cost in B(a) above			
	f) Amount of IEDC in B(a) above			
C	a) Addition in Gross Block Amount during the period (Transferred from CWIP)			
	b) Amount of IDC in C(a) above			
	c) Amount of FC in C(a) above			
	d) Amount of FERV in C(a) above			
	e) Amount of Hedging Cost in C(a) above			
	f) Amount of IEDC in C(a) above			
D	a) Deletion in Gross Block Amount during the period			
	b) Amount of IDC in D(a) above			
	c) Amount of FC in D(a) above			
	d) Amount of FERV in D(a) above			
	e) Amount of Hedging Cost in D(a) above			
	f) Amount of IEDC in D(a) above			
E	a) Closing Gross Block Amount as per books			
	b) Amount of IDC in E(a) above			
	c) Amount of FC in E(a) above			
	d) Amount of FERV in E(a) above			
	e) Amount of Hedging Cost in E(a) above			
	f) Amount of IEDC in E(a) above			

To be filed at the time of truing-up

Note:

1. Relevant date/s means date of COD of unit/s/station and financial year start date and end date



(Petitioner)

4.5

Name of the Petitioner NTPC Ltd
Name of the Generating Station Auraiya Gas power Station

Statement of Capital Woks in Progress

(To be given for relevant dates and year wise)

(Amount in Rs. Lakh)

S. No.	Particulars	as on 31.03.2019		
		Accrual Basis	Un-discharged Liabilities	Cash Basis
A	a) Opening CWIP as per books	33.32	16.85	16.47
	b) Amount of IDC in A(a) above			-
	c) Amount of FC in A(a) above			-
	d) Amount of FERV in A(a) above			-
	e) Amount of Hedging Cost in A(a) above			-
	f) Amount of IEDC in A(a) above			-
B	a) Addition in CWIP during the period			
	b) Amount of IDC in B(a) above			
	c) Amount of FC in B(a) above			
	d) Amount of FERV in B(a) above			
	e) Amount of Hedging Cost in B(a) above			
	f) Amount of IEDC in B(a) above			
C	a) Transferred to Gross Block Amount during the period			
	b) Amount of IDC in C(a) above			
	c) Amount of FC in C(a) above			
	d) Amount of FERV in C(a) above			
	e) Amount of Hedging Cost in C(a) above			
	f) Amount of IEDC in C(a) above			
D	a) Deletion in CWIP during the period			
	b) Amount of IDC in D(a) above			
	c) Amount of FC in D(a) above			
	d) Amount of FERV in D(a) above			
	e) Amount of Hedging Cost in D(a) above			
	f) Amount of IEDC in D(a) above			
E	a) Closing CWIP as per books			
	b) Amount of IDC in E(a) above			
	c) Amount of FC in E(a) above			
	d) Amount of FERV in E(a) above			
	e) Amount of Hedging Cost in E(a) above			
	f) Amount of IEDC in E(a) above			

To be filed at the time of truing-up.

Note:

1. Relevant date/s means date of COD of unit/s/station and financial year start date and end date



(Petitioner)

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**PART-I
FORM-N**

Calculation of Interest on Normative Loan

Name of the Company :		NTPC Limited							
Name of the Power Station :		Auraiya Gas power Station							
S. No.	Particulars	Existing	2019-20	2020-21	2021-22	2022-23	2023-24	(Amount in Rs Lakh)	
		2018-19	4	5	6	7	8		
1	2	3							
1	Gross Normative loan – Opening	78,376.65	78,422.98	78,713.48	79,544.38	79,544.38	79,544.38		79,544.38
2	Cumulative repayment of Normative loan up to previous year	61,017.70	65,065.57	69,146.40	73,356.65	77,683.79	82,010.92		
3	Net Normative loan – Opening	17,358.95	13,357.41	9,567.08	6,187.73	1,860.59	-		
4	Add: Increase due to addition during the year / period	-	290.50	830.90	-	-	-		
5	Less: Decrease due to de-capitalisation during the year / period	-	-	-	-	-	-		
6	Less: Decrease due to reversal during the year / period								
7	Add: Increase due to discharges during the year / period	46.33	-	-	-	-	-		
8	Less: Repayment of Loan	4047.87	4,080.83	4,210.25	4,327.14	4,327.14	4,327.14		4,327.14
9	Net Normative loan - Closing	13,311.08	9,567.08	6,187.73	1,860.59	-	-		
10	Average Normative loan	15,335.01	11,462.25	7,877.41	4,024.16	930.30	-		
11	Weighted average rate of interest	3.8547	4.9465	5.1513	5.3226	5.4906	5.7701		5.7701
12	Interest on Loan	591.12	566.98	405.79	214.19	51.13	0.00		0.00


(Petitioner)

Calculation of Interest on Working Capital

Name of the Company : **NTPC Limited**
 Name of the Power Station : **Auraiya Gas power Station**

S. No.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	(Amount in Rs Lakhs)	
							2022-23	2023-24
1	2	3	4	5	6	7	8	
1	Cost of Coal/Lignite	-	-	-	-	-	-	-
2	Cost of Main Secondary Fuel Oil	-	-	-	-	-	-	-
3	Fuel Cost	18368.48	26631.30	26631.30	26631.30	26631.30	26631.30	26631.30
4	Liquid Fuel Stock	1.88	656.46	656.46	656.46	656.46	656.46	656.46
5	O & M Expenses	1,207.67	1113.62	1161.00	1210.76	1263.03	1318.49	1318.49
6	Maintenance Spares	4,347.62	4009.05	4179.60	4358.74	4546.89	4746.57	4746.57
7	Receivables	38,577.84	44567.68	44656.64	44729.65	44791.36	44858.45	44858.45
8	Total Working Capital	44133.13	76978.11	77285.00	77586.91	77889.04	78211.27	78211.27
9	Rate of Interest	13.5000	12.0500	12.0500	12.0500	12.0500	12.0500	12.0500
10	Interest on Working Capital	5957.97	9275.86	9312.84	9349.22	9385.63	9424.46	9424.46


Petitioner

Statement of Liability Flow

		Name of the Petitioner		Name of the Generating Station :		Liabilities as on 31.03.2019		Liability addition during FY 2019-20		Liability Discharged during FY 2019-20		Undischarge liabilities as on 31.03.2020		Remarks	
		NTPC Limited		Auraiya Gas power Station											
Sl	Name of The party	Name of Asset/ Work	Year of actual capitalisation	Liabilities as on 31.03.2019	Liability addition during FY 2019-20	by Payment	by Reversal	Total	Undischarge liabilities as on 31.03.2020						
a) For assets eligible for normal RoE															
1	R B Singh	Sewerage system for permanent Township	1988-89	20,560											Allowed
2	LAND Acquisition	As per High Court- Anand, Brelj	2012-13	22,52,179											Claimed
3	Gemini Communication Ltd	CC TV System Integration With Existing System	2013-14	4,37,850											Allowed
4	MARUBENI CORPORATION LTD JAPAN	RENOVATION AND MODRENISATION OF GT AND C&I GT AND ST	2014-15	5,330											Allowed
5	Surya Shakti (I) Pvt ltd	solar waqter heater system	2014-15	73,200											Claimed
6	LAND Compensation	Land Compensation as per High Court Order	2014-15	1,38,80,323											Claimed
7	ERV	GAS TURBINE NO. 1	2015-16	15,72,50,853											Exclusion
8	ERV	GAS TURBINE NO. 2	2015-16	11,66,38,109											Exclusion
9	ERV	GAS TURBINE NO. 3	2015-16	11,63,44,984											Exclusion
10	ERV	GAS TURBINE NO. 4	2015-16	11,06,07,522											Exclusion
11	ERV	GAS TURBINE NO. 1(C&I)	2015-16	25,59,071											Exclusion
12	ERV	GAS TURBINE NO. 2(C&I)	2015-16	28,65,773											Exclusion
13	ERV	GAS TURBINE NO. 3(C&I)	2015-16	27,91,446											Exclusion
14	ERV	GAS TURBINE NO. 4(C&I)	2015-16	27,75,193											Exclusion
15	ERV	STEAM TURBINE NO. 1(C&I)	2015-16	2,19,66,136											Exclusion
16	ERV	STEAM TURBINE NO. 2(C&I)	2015-16	1,94,80,937											Claimed
17	NATURAL SYSTEMS	SOLAR GRID-CONNECT SOLAR GEN SYSTEM	2015-16	88,900											Exclusion
18	MICON VALVES (INDIA) PVT LTD	GV-IS;10611-H.O BWE.CI-1500;300NB	2016-17	2,93,405											Exclusion
19	Schweitzer Engineering	PRO-GENERAL-3Ph Num molar, prot. relay	2016-17	12,43,482											Exclusion
20	UJAAS ENERGY LTD	SOALR SYSTEM 2*30 KW	2016-17	4,89,300											Claimed
21	INVA POWER SYSTEMS PVT LTD	Bio digestors & piping network system	2017-18	4,58,846											Claimed
22	BHARAT HEAVY ELECTRICALS LTD	148 MVA STEAM GENERATOR TRANSFORMER	2017-18	31,38,271											Claimed
23	OBLUM ELECTRICAL INDUSTRIES	219KV,10KA GAPLESS TYPE LA	2017-18	40,918											Claimed
24	AJAY ELECTRONICS	RADIATOR TYPE HEATER	2017-18	26,000											Exclusion
25	Godrej & Boyce Mfg. Co. Ltd.	BOOK CASE;GODREJ;FOUR DOOR;STD	2017-18	9,508											Exclusion

To be filed at the time of truing-up

Statement of Liability Flow

Name of the Petitioner		Name of the Generating Station :		NTPC Limited		Auraiya Gas power Station		Remarks	
Sl	Name of The party	Name of Asset/ Work	Year of actual capitalisation	Liabilities as on 31.03.2019	Liability addition during FY 2019-20	Liability Discharged during FY 2019-20 by Reversal	Liability Discharged during FY 2019-20 by Payment	Total	Undischarge liabilities as on 31.03.2020
26	SCOPE T&M PVT LTD	LA 3RD HARMONIC LEAKAGE CURRENT	20018-19	89,000					Exclusion
27	GOENKA ENGINEERING &	HIGH PR. PORTABLE BREATHING AIR	20018-19	52,000					Exclusion
28	ABB LTD	C.T. RATIO 2000-1000-500/1A 400KV, 40VA	20018-19	6,97,057					Exclusion
29	ION EXCHANGE INDIA LTD	ACID STORAGE TANK:ACID STORAGE	20018-19	1,11,000					Exclusion
30	ENERGY EFFICIENCY SERVICES LTD	ENERGY EFFICIENT CEILING FAN - 50 WATT	20018-19	1,11,000					Exclusion
31	HIRAL TEKTRONIX PVT LTD.	BIOMETRIC-MIC:FINGER PRINT, ACCESS SYSTEM	20018-19	1,42,176					Exclusion
32	BLUE STAR LTD/Ajay electronic	TOWER TYPE 4TON AIRCONDITIONER	20018-19	1,40,702					Exclusion
33	RELIANCE DIGITAL	TELEVISION:LIGHT EMITTING DIODE(LED)-	20018-19	16,31,561					Exclusion
34	MANORANJAN	1.5 TON:INVERTER AIR CONDITIONER (SPLIT)	20018-19	18,95,000					Exclusion
35	CORPORATE INFOTECH PVT LTD	DESKTOP	20018-19	2,46,740					Exclusion
36	EESL	LIGHT FIXTURED BASDHIBAY LIGHT	20018-19	36,64,934					Claimed
37	Godrej & Boyce Mfg. Co. Ltd./HINDUSTAN	FURNITURE& FIXTURE	20018-19	21,74,306					Exclusion
Sub Total (a)				58,88,87,352					
b) For assets eligible for RoE at weightage average rate of interest on loan									
1	-	-	-	-					
Sub Total (b)									
Grand Total (a) + (b)				58,88,87,352					

To be filed at the time of truing-up



(Petitioner)

Summary of issue involved in the petition

Name of the Company :		NTPC Limited				
Name of the Power Station :		Auraiya Gas power Station				
1	Petitioner:	NTPC Limited				
2	Subject: Determination of tariff of Auraiya Gas power station (663.36 MW) for the period from 01.04.2019 to 31.03.2024					
Prayer:						
3	i) Approve tariff of Auraiya GPS for the tariff period 01.04.2019 to 31.03.2024.					
	ii) Allow the recovery of filing fees as & when paid to the Hon'ble Commission and publication expenses from the beneficiaries.					
	iii) Pass any other order as it may deem fit in the circumstances mentioned above.					
Name of Respondents						
	1. Uttar Pradesh Power Corp. Ltd (UPPCL)					
	2. Uttarakhand Power Corporation Ltd (UPCL)					
	3. Rajasthan Urja Vikas Nigam Limited (RUVNL)					
	4. Tata Power Delhi Distribution Ltd (TPDDL)					
4	5. BSES Rajdhani Power Ltd (BRPL)					
	6. BSES Yamuna Power Ltd (BYPL)					
	7. Punjab State Power Corporation Ltd (PSPCL)					
	8. Himachal Pradesh State Electricity Board Ltd (HPSEBL)					
	9. Power Development Department (PDD), J&K					
	10. Haryana Power Purchase Centre (HPPC)					
	11. Electricity Department (Chandigarh)					
Project Scope : Auraiya Gas power station (663.36 MW)						
Cost: Approved Capital Cost Rs 99176.51 Lakh as on 31.03.2019						
Commissioning : Station COD on 01.12.1990						
5	Claim	2019-20	2020-21	2021-22	2022-23	2023-24
	AFC (in Rs Lakh)	37,581.97	38,200.84	38,793.05	39,293.59	39,946.87
	Capital cost (in Rs Lakh)	1,33,380.33	1,34,181.33	1,34,774.83	1,34,774.83	1,34,774.83
	Initial spare (in Rs Lakh)	included in above				
	NAPAF (Gen) (in %)	85				
	Any Specific	NA				



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GOVERNMENT OF KARNATAKA

DEPARTMENT OF FACTORIES, BOILERS, INDUSTRIAL SAFETY & HEALTH

CSMC/TFC/CR-13/2013-14

Phone No : 080-26531200

Fax No : 080-26531202

Directorate of Factories, Boilers, Industrial Safety & Health, "Karmika Bhavana" 2nd floor, Near Bengaluru Dairy, I.T.I. compound, Bannerghatta road,

Bengaluru-29. Dated 23.09.2013

To
General Manager,
M/s NIPC Limited,
Kudgi Super Thermal Power Project,
Plot No. 9, Mallikarjun Nagar,
Managuli Road, Bijapur-586 109

Sir,

Subject : Site Clearance for setting up of super thermal power project-reg

Reference : 1. Your letter dated 03.05.2013
2. Proceedings of Task force committee meeting held on 12.09.2013
3. Your reply mail dated 19.09.2013.

* * *

We are pleased to inform you that the Task Force Committee in its meeting held on 12.09.2013 has reviewed the presentation, documents, details of the safety systems adopted, etc and has concurred in principle to issue the Site Clearance for the initial location for the establishment of super thermal power project for generating electrical power of 3 X 800 MW at Near Kudugi village, Basavana bagewadi Taluk, Bijapur District.

The site clearance is issued subject to the following conditions;

1. The replacing of highly hazardous chlorine with available less hazardous alternative chemicals like chlorine dioxide, sodium hypo chlorite shall be considered.
2. The mobile hydrogen cylinder bank with manifold system shall be adopted in place of loose Hydrogen Cylinders.
3. The safety check shall be prepared in storing, handling and usage of Hydrazine and its holding capacity shall be limited to a minimum required quantity.
4. The exclusive safety, health and environment (SHE) department shall be formed under the direct control & supervision of the occupier. This department shall be supported by the senior level qualified and competent executives with adequate field staff.
5. The effective online monitoring system shall be adopted to ensure the safe and healthy work environment with special trust to fugitive emission, it radiation, noise level etc.
6. No building of structure shall be constructed with obtaining a prior approval of plans by Director, Department of Factories, Boilers, Industrial Safety and Health.
7. The pre and periodical medical examination shall be carried out to all the category of employees including contract and casual. The medical surveillance shall be carried out by creating a base line health data and shall have the provision for up-dating the same and continuous basis.

AGM (PKS)
17/10/2013
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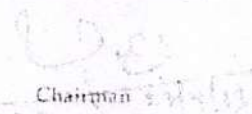
8. The mitigation measures as submitted at the presentation and as suggested by committee shall be incorporated in the on-site emergency plan. The same shall be submitted for scrutiny and approval.
9. The provisions of rule 50 to 251 of Building and Other Construction Workers (Regulation of Employment and condition of service) (Karnataka) Rules 2006 shall be complied to ensure occupational safety and health of the construction workers involved project. The compliance shall be furnished regularly to jurisdiction officers of our department and to the Director of Factories, Boilers, Industrial Safety and Health.

Suggestions:

1. The industry shall adopt the rain - harvesting system to harvest atleast 80% of the rain water.
2. The industry shall adopt solar energy system at least catering to street lighting and in other suitable areas like water heating in the canteen, etc.

All the above conditions and suggestions shall be complied and a report shall be submitted. The department reserves all the rights to modify or withdraw clearance issued at any point of time.

Your's Faithfully,


Chairman
Task Force Committee
and Director of Factories, Boilers,
Industrial Safety and Health, Bangalore.



True copy

GOVERNMENT OF KARNATAKA
DEPARTMENT OF FACTORIES, BOILDERS INDUSTRIAL SAFETY & HEALTH

CSMS/TFC/CR—13/2013-14

Directorate of Factories, Boilers, Industrial Safety &
Health, Karmika Bhavana 2nd floor, Near Bengaluru
Dairy, ITI Compound Bannerhatta Road
Bengaluru -29 Date 23.09.2013

Phone No. 080-26531200

Fax No. 080-26531202

To
General Manager
M/s NTPC Limited
Kudgi Super Thermal Power Project

Sir,


Subject: Site Clearance setting up of super thermal power project-reg

Reference: 1. Your letter dtd. 03.05.2013
2. Proceedings of Task Force Committee Meeting held on 12.09.2013
3. Your reply mail dated 19.09.2013

We are pleased to inform that the Task Force Committee in its meeting held on 12.09.2013 has reviewed the presentation documents details of the safety systems adopted etc and has concurred in principle to issue the Site Clearance for the initial location for the establishment of super thermal power project for generating electricity of 3x500 MW at New Kudgi village, Basavana Bagewadi, Bijapur District

The Site clearance is issued subject to the following conditions:

1. The replacing of highly hazardous chlorine with available less hazardous alternative chemicals like chlorine dioxide, sodium hypochlorite shall be considered.
2. The mobile hydrogen cylinder bank with manifold system shall be adopted in place of loose hydrogen cylinders.
3. The Safety check shall be prepared in storing, handling and usage of hydrazine and its handling capacity shall be limited to a minimum required quantity.
4. The exclusive safety health and environment (SHE) department shall be formed under the direct control and supervision of the occupy. This department shall be supported by he senior level qualified and competent executive with adequate field staff.


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5. The effective online monitoring system shall be adopted to ensure the safe and healthy work environment with special trust to fugitive emission, its radiation noise level etc. No building of structure shall be constructed with obtaining a prior approval of plans by Director, Department of Factories, Boilers, Industrial Safety & Health.
6. No building of structure shall be constructed with obtaining a prior approval of plans by Director, Deptt of factories, boilers, industrial safety and health.
7. The pre and periodical medical examination shall be carried out to all the category of employees including contract and casual. The medical surveillance shall be carried out by creating a base line health data and shall have the provision for updating the same and continuous basis.
8. The mitigation measures as submitted in the presentation and as suggested by committee shall be incorporated in the on site emergency plan. The same shall be submitted for scrutiny and approval.
9. The provision of rule no. 251 of Building and Other Construction Workers (Regulation for employment and condition of service) (Karnataka) Rules 2006 shall be complied to ensure occupational safety and health of construction workers involved in the project. The compliance shall be regularly to jurisdiction officer of our department and to the director of factories, boilers, industrial safety and health.

SUGGESTIONS:

1. The industry shall adopt the rain-harvesting system to harvest at least 80% of the rain water.
2. The industry shall adopt solar energy system at least catering to street lighting to street light and in other suitable areas like water heating in the canteen, etc.

Yours faithfully

Chairman
Task Force Committee
And Director of Factories Boilers,
Industrial safety and Health, Bangalore



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CONSENT ORDER

Ref No. - 14581/UPPCB/KanpurDehat(UPPCBRO)/CTO/water/AURAIYA /2018

Dated : 12/04/2018

To ,

M/S VIPAN KUMAR
NTPC AURAIYA GAS POWER STATION
NTPC Auraiya NTPC Ltd. Auraiya Gas Power Station, Dibiyapur, Distt-Auraiya, UP-206244
AURAIYA

Sub : Consent under Section 25/26 of The Water (Prevention and control of Pollution) Act, 1974 (as amended) for discharge of effluent to M/s. NTPC AURAIYA GAS POWER STATION

Reference Application No :643423

Dated :12/04/2018

1. For disposal of effluent into water body or drain or land under The Water (Prevention and control of Pollution) Act,1974 as amended (here in after referred as the act) M/s. NTPC AURAIYA GAS POWER STATION is hereby authorized by the board for discharge of their industrial effluent generated through ETP for irrigation/river through drain and disposal of domestic effluent through septic tant/soak pit subject to general and special conditions mentioned in the annexure ,in refrence to their foresaid application .
2. This consent is valid for the period from 01/01/2018 to 31/12/2019 .
3. In spite of the conditions and provisions mentioned in this consent order UP Pollution Control Board reserves its right and powers to reconsider/amend any or all conditions under section 27(2) of the Water (Previntion and Controt of Pollution) Act, 1974 as amended .

This consent is being issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board

Digitally signed by TANZAR ULLAH KHAN
Date: 2018.04.12 18:27:43 +05'30'

Chief Environmental Officer (circle-2)

**Enclosed : As above
(condition of consent):**

Copy to: Regional Officer, U.P. Pollution Control Board, Kanpur Dehat with direction to send the compliance report of consent conditions on quarterly basis.

Digitally signed by TANZAR ULLAH KHAN
Date: 2018.04.12 18:27:55 +05'30'

Chief Environmental Officer (circle-2)

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U.P. POLLUTION CONTROL BOARD, LUCKNOW

Annexure to Consent issued to M/s.NTPC AURAIYA GAS POWER STATION vide

Consent Order No. 643423/ Water

Dated : 12/04/2018

CONDITIONS OF CONSENT

1. This consent is valid only for the approved production capacity of Electricity Generation-652 MW/day .
2. The quantity of maximum daily effluent discharge should not be more than the following :

Effluent Discharge Details			
S.No	Kind of Effluent	Maximum daily discharge,KL/day	Treatment facility and discharge point
1	Domestic	500 KLD treated effluent to be reused in irrigation as much as possible.	STP
2	Industrial	2800 KLD after neutralization and settling to be recycled as much as possible and rest to be discharge as per norms.	ETP

3. Arrangement should be made for collection of water used in process and domestic effluent separately in closed water supply system. The treated domestic and industrial effluent if discharged outside the premises, if meets at the end of final discharge point, arrangement should be made for measurement of effluent and for collecting its sample. Except the effluent informed in the application for consent no other effluent should enter in the said arrangements for collection of effluent. It should also be ensured that domestic effluent should not be discharged in storm water drain .
- 4 a. The domestic effluent should be treated in treatment plant so that the should be in conformity with the following norms dated treated effluent .

Domestic Effluent		
S.No	Parameter	Standard
1	BOD	30 mg/l
2	COD	250 mg/l
3	Total Suspended Solids	100 mg/l

- 4 b. The industrial effluent should be treated in treatment plant so that the treated effluent should be in conformity with the following norms. .

Industrial Effluent		
S.No	Parameter	Standard
1	BOD	30 mg/l
2	COD	250 mg/l
3	Total Suspended Solids	100 mg/l
4	Oil & Grease	10 mg/l

5. Effluent generated in all the processes, bleed water, cooling effluent and the effluent generated from washing of floor and equipments etc should be treated before its disposal with treated industrial effluent so that it should be according to the norms prescribed under The Environment (Protection) Act,1986 or otherwise mandatory .
6. The other pollutant for which norms have not been prescribed, the same should not be more than the norms prescribed for the water used in manufacturing process of the industry .

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7. The method for collecting industrial and domestic effluent and its analysis should be as per legal Indian standards and its subsequent amendments/standards prescribed under The Environment (Protection) Act, 1986.
8. The treated domestic and industrial effluent be mixed (as per the provisions of Condition No. 2) and disposed of on one disposal point. This common effluent disposal point should have arrangement for flow meter/V Notch for measuring effluent and its log book be maintained .

Specific Conditions:

1. This consent is valid for 652 MW per day electricity generation using Natural Gas 2.44 MSCM/day.
2. The industry shall install Electro Magnetic Flow meter at water withdrawal source and logbook of flow meter reading shall be maintained.
3. The industry shall operate and maintain Online Continuous Effluent Quality Monitoring System effectively and data shall be transmitted to CPCB and UPPCB server. OCEQMS system shall be calibrated on six monthly basis through recognized agency and calibration certificate should be submitted to UPPCB.
4. The industry shall comply with the conditions of Environmental Clearance issued by MoEF&CC Govt of India and its compliance report should be submitted to UPPCB.
5. Solid waste shall be disposed in such a manner that no air, water and soil pollution takes place.
6. Industry shall treat Back Waste of DM plant, Boiler Blow down and other generated waste water through ETP and treated effluent shall be recycled in the process, irrigation as much as possible and rest treated effluent shall be discharged through closed pipe line upto final discharge point i.e. Sengur river. Industry shall also submit analysis report of Treated effluent from approved laboratory on quarterly basis.
7. Industry shall submit a time bound proposal for 100% utilization of treated industrial and domestic effluent within 03 months.
8. Domestic effluent shall be treated through STP as per prescribed norms under E(P) rules, 1986, and used for irrigation and other purposes in industry premises.
9. Ground water of water sources in the industry premises shall be monitored on quarterly basis and analysis report shall be sent to UPPCB.
10. Storm Water drain shall be kept separate in such manner that industrial effluent does not get mixed with storm water.
11. Industry shall develop and maintain green belt as per the guidelines issued by the Board vide office order dated 16/02/2018, which is available on Board's Website- www.uppcb.com. The proposal for plantation in the year 2018-19 shall be submitted within 01 month.
12. Industry shall comply with various provisions of Hazardous and Other waste (Management & Trans-boundary Movement) Rule 2016.
13. Industry shall submit environmental statement in prescribed format as per rule 14 of Environment (Protection) Act, 1986.
14. Industry shall comply with the relevant provisions of Environmental Laws.
15. Industry shall abide by directions given by Hon'ble Courts, Central Pollution Control Board and UPPCB for protection and safe guard of environment from time to time.
16. In case of closure directions under section-5 of E(P) Act, 1986 issued by CPCB, this consent will be automatically suspended during the closure period, and will be automatically reinstated with specific conditions as per CPCB revocation orders.

Issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board .

Digitally signed by TANZAR ULLAH KHAN
Date: 2018.04.12 18:28:11 +05'30'

Chief Environmental Officer (circle-2)



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OFFICE OF THE DY. COMMANDANT
CENTRAL INDUSTRIAL SECURITY FORCE
(MINISTRY OF HOME AFFAIRS)

Annexure-III

CISF Unit AuGPS/NTPC
Post: Dibiyaipur
Distt: Auraiya (UP)

No.E-42099/CISF/FW/AuGPS/20- *u2*

Dated: *25* /01/2020

To,

The Sr.Manager (Safety)
NTPC Dibiyaipur, Auraiya (UP).

Sub:- providing of detector and alarm system : Reg.

It is to inform that CISF Fire wing is providing all round fire protection to NTPC Dibiyaipur plant and its important building. It is observed that some vital building/places like O&M building, ADM building and auditorium do not have any fire sensor/detectors system, as these buildings are very important for administrative work. Fire smoke detectors and proper annunciation system, is very much required at that places so that any spark or danger could be observed timely. This point was also noticed by U.P state fire service & during unit level mock drill.

Therefore it is requested that necessary arrangement may kindly be made to install the detectors and alarming system at above said places.

[Signature]
**DY.COMMANDANT
CISF UNIT NTPC DIBIYAPUR**

[Signature]

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