

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

**PETITION NO.....**

**IN THE** : Petition Under Section 62 and 79 (1) (a) of the Electricity  
**MATTER OF** 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 **Feroze  
Gandhi Unchahar Thermal Power Station St-I (420  
MW)** for the period from 01.04.2019 to 31.03.2024.

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*S. P. U.*

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

**PETITION NO.....**

**IN THE MATTER** : Petition Under Section 62 and 79 (1) (a) of the  
**OF** 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  
**Feroze Gandhi Unchahar Thermal Power  
Station St-I (420 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 Limited (RUVNL)  
Vidyut Bhawan, Janpath,  
Jaipur – 302 005 (Rajasthan)  
(On Behalf of DISCOMs of Rajasthan)

①



3. Tata Power Delhi Distribution Ltd.  
Grid Substation, Hudson Road  
Kingsway Camp, New 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  
Shakti Bhawan, Sector-VI,  
Panchkula, Haryana – 134109
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. Power Development Department (PDD-J&K)  
Govt. of 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. Feroze Gandhi Unchahar Thermal Power Station St-I (2 x 210 MW) (hereinafter referred to as 'Unchahar-I') is one such station located in the State of Uttar Pradesh. The power generated from Unchahar-I 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 referred to as '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.”*

It is submitted that the date of filing of tariff petition 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 Unchahar-I for the period from 01.04.2019 to 31.03.2024 as per the Tariff Regulations 2019.

6) The tariff of the Unchahar-I for the tariff period 1.4.2014 to 31.3.2019 was determined by the Hon'ble Commission vide its order dated 22.03.2017 in Petition No. 319/GT/2014 in accordance with the CERC (Terms & Conditions of Tariff) Regulations 2014. The petitioner vide affidavit dated 13.12.2019 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 22.03.2017 in Petition No. 319/GT/2014 has allowed a capital cost of Rs 968.4370 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. 970.5239 Cr based on the actual expenditure after truing up exercise for the period 2014-19. Accordingly, the Petitioner has adjusted an amount of Rs 2.0869 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. 970.5239 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 the Regulation 19 of the Tariff Regulations, 2019.
- 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.

<b>Description</b>	<b>Remarks</b>
Type of Plant	Coal
Type of cooling water system	Closed Cycle
Consumption of Water	462998590 Cubic feet
Rate of Water charges	Rs 12.48 per 1000 cubic feet
Rate of Royalty	Rs 6 Lakhs per cusec per year
Total Water Charges	Rs 160.61 Lakhs

Based on the rate of water charges for FY 2018-19 and the estimated water consumption during 2019-24, the petitioner has claimed water charges for the period 2019-24. In accordance with provision of the Regulations, the petitioner shall be furnishing the details of actuals for the relevant year at the time of truing up and the same shall be subject to retrospective adjustment.

- 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) The present petition is filed on the basis of norms specified in the Tariff Regulations 2019. It is submitted that the petitioner is in the process of installing the Emission Control Systems (ECS) in compliance of the Revised Emission Standards as notified by MoEFCC vide notification dated 07.12.2015 as amended. Completion of these schemes in compliance of revised emission norms will affect the station APC, Heat Rate, O&M expenses etc. In addition, the availability of the unit/ station would also be effected due to shutdown of the units for installation of ECS. The petitioner would be filing the details of the same in a separate petition in terms of the Regulation 29 of Tariff Regulations 2019. The tariff of the instant petition would undergo changes consequent to the order of the Hon'ble Commission in the said ECS petition.



12) It is submitted that a notification dated 25.01.2016 has been issued by Government of India, Ministry of Environment, Forest & Climate Change (MoEFCC) under the statutory provisions of Environment (Protection) Act 1986. The said notification of MoEFCC prescribed bearing the transportation cost of Fly Ash generated at power stations. In this regard, Petitioner filed a petition, being no. 172/MP/2016, before the Hon'ble Commission seeking reimbursement of the additional expenditure for Fly Ash Transportation directly from the beneficiaries as the same was in the nature of statutory expense. Hon'ble Commission vide order dated 05.11.2018 disposed of the said petition and directed as follows:

*"31. Accordingly, we in exercise of the regulatory power hold that the actual additional expenditure incurred by the Petitioner towards transportation of ash in terms of the MOEFCC Notification is admissible under "Change in Law" as additional O&M expenses. However, the admissibility of the claims is subject to prudence check of the following conditions on case to case basis for each station:*

*a) Award of fly ash transportation contract through a transparent competitive bidding procedure. Alternatively, the schedule rates of the respective State Governments, as applicable for transportation of fly ash.*

*b) Details of the actual additional expenditure incurred on Ash transportation after 25.1.2016, duly certified by auditors.*

*c) Details of the Revenue generated from sale of fly ash/ fly ash products and the expenditure incurred towards Ash utilisation up to 25.1.2016 and from 25.1.2016 to till date, separately.*

*d) Revenue generated from fly Ash sales maintained in a separate account as per the MoEF notification.*

*32. The Petitioner is granted liberty to approach the Commission at the time of revision of tariff of the generating stations based on true-up exercise for the period 2014-19 in terms of Regulation 8 of the 2014 Tariff Regulations along with all details / information, duly certified by auditor."*

Petitioner has claimed the additional expenditure towards ash transportation charges for the period 2018-19 in the true-up petition filed vide affidavit dated 13.12.2019 in respect of the instant station.



The expenditure towards the ash transportation charges are recurring in nature. The Petitioner has been incurring ash transportation expenditure in some of its stations in the current tariff period also. In case the same is permitted to be recovered at the end of the tariff period 2019-24, there will be additional liability on the beneficiary on account of the interest payment for the period till the time the true-up petitions for the period 2019-24 is decided. To avoid the interest payment liability of the beneficiaries, it is prayed that the petitioner may be allowed to recover/pass on the ash transportation charges after adjusting the revenue earned from sale of ash at the end of each quarter of financial year subject to true-up at the end of the period.

- 13) 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 dated 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 expenses directly from the beneficiaries.
- 14) 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.



- 15) 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.
- 16) 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.
- 17) **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 Feroze Gandhi Unchahar Thermal Power Station Stage-I for the tariff period from 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) Allow reimbursement of Ash Transportation Charges directly from the beneficiaries quarterly on net basis.
- iv) Pass any other order as it may deem fit in the circumstances mentioned above.

**Petitioner** 

**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 **Feroze Gandhi Unchahar Thermal Power Station Stage-I** 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

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



.....  
and Others

1 (10)

*S. Singh*

**AFFIDAVIT**

I, E. Prabhakara Rao, son of Late Shri E. K. Rama Sharma aged about 52 years resident of D-311, Parsvnath Prestige, Sector-93A, Noida (UP) solemnly affirm and state as follows:

1. That I am the Additional 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 **Feroze Gandhi Unchahar Thermal Power Station Stage-I (2x210 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.

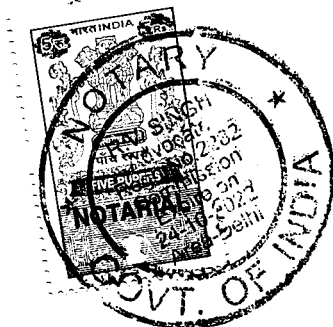
  
Deponent

**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 24<sup>th</sup> January, 2020

  
Deponent



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

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Notary Public, DELHI

11

24 JAN 2020

**TARIFF FILING FORMS (THERMAL)**

**FOR DETERMINATION OF TARIFF**

**FOR**

**Feroze Gandhi Unchahar Thermal Power Station Stage-I**

**(From 01.04.2019 to 31.03.2024)**

**PART-I**

**APPENDIX-I**

**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-3B**	Statement of Special Allowance	✓
FORM- 4	Details of Foreign loans	NA
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	NA
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	✓
FORM- 15A**	Details of Secondary Fuel for Computation of Energy Charges	✓
FORM- 15B**	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

PART-I

**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

*Signature*

**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)	
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

(14)

**Summary of Tariff**

**PART-I  
FORM- 1**

<b>Name of the Petitioner:</b>	<b>NTPC Limited</b>
<b>Name of the Generating Station:</b>	<b>Feroze Gandhi Unchahar Thermal Power Station Stage-I</b>
<b>Place (Region/District/State):</b>	<b>Northern Region/ Raebareli/ Uttar Pradesh</b>

**Amount in Rs. Lakhs**

S. No.	Particulars	Unit	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8	9
1.1	Depreciation	Rs Lakh	757.46	137.08	-	-	-	-
1.2	Interest on Loan	Rs Lakh	0.00	-	-	-	-	-
1.3	Return on Equity	Rs Lakh	9,479.12	5,468.51	5,468.51	5,468.51	5,468.51	5,468.51
1.4	Interest on Working Capital	Rs Lakh	5,165.17	3,561.25	3,589.43	3,619.86	3,652.10	3,684.52
1.5	O&M Expenses	Rs Lakh	18,240.27	14997.07	15586.15	16197.95	16846.09	17519.06
1.6	Special Allowance (If applicable)	Rs Lakh	4,029.59	3990.00	3990.00	3990.00	3990.00	3990.00
1.7	Compensation Allowance (If applicable – relevant for column 4 only)	Rs. Lakh	0.00					
	<b>Total</b>	Rs Lakh	<b>37671.61</b>	<b>28153.93</b>	<b>28634.10</b>	<b>29276.33</b>	<b>29956.70</b>	<b>30662.10</b>
2.1	Landed Fuel Cost of coal	Rs/Ton				4296.44		
	(%) of Fuel Quantity	(%)				100.00		
2.2	Landed Fuel Cost of Imported Coal					N/A		
	(%) of Fuel Quantity					0.00		
2.3	Landed Fuel Cost of coal other than FSA	Rs/Ton				N/A		
	(%) of Fuel Quantity	(%)				0.00		
2.4	Landed Fuel Cost Imported Coal other than FSA.	Rs/Ton				N/A		
	(%) of Fuel Quantity	(%)				0.00		
2.5	Secondary fuel oil cost	Rs/Unit				0.03		
	Energy Charge Rate ex-bus (Paise/kWh)	Rs/Unit				3.012		

(5)

*S. N. S.*  
(Petitioner)



<b>Name of the Petitioner:</b>	<b>NTPC Limited</b>
<b>Name of the Generating Station:</b>	<b>Feroze Gandhi Unchahar Thermal Power Station Stage-I</b>

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	97,052.39	97,052.39	97,052.39	97,052.39	97,052.39
2	Add: Addition during the year	-	-	-	-	-
3	Less: De-capitalisation during the year	-	-	-	-	-
4	Less: Reversal during the year	-	-	-	-	-
5	Add: Discharges during the year	-	-	-	-	-
6	Closing Capital Cost	97,052.39	97,052.39	97,052.39	97,052.39	97,052.39
7	<b>Average Capital Cost</b>	<b>97,052.39</b>	<b>97,052.39</b>	<b>97,052.39</b>	<b>97,052.39</b>	<b>97,052.39</b>

**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	97052.39	97052.39	97052.39	97052.39	97052.39
2	Add: Addition during the year	0.00	0.00	0.00	0.00	0.00
3	Less: De-capitalisation during the year	0.00	0.00	0.00	0.00	0.00
4	Less: Reversal during the year	0.00	0.00	0.00	0.00	0.00
5	Add: Discharges during the year	0.00	0.00	0.00	0.00	0.00
6	Closing Capital Cost	97052.39	97052.39	97052.39	97052.39	97052.39
7	<b>Average Capital Cost</b>	<b>97052.39</b>	<b>97052.39</b>	<b>97052.39</b>	<b>97052.39</b>	<b>97052.39</b>

*S...*

Name of the Petitioner:	NTPC Limited
Name of the Generating Station:	Feroze Gandhi Unchahar Thermal Power Station Stage-I

Amount in Rs. Lakhs

**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	0.00	0.00	0.00	0.00	0.00
2	Add: Addition during the year	0.00	0.00	0.00	0.00	0.00
3	Less: De-capitalisation during the year	0.00	0.00	0.00	0.00	0.00
4	Less: Reversal during the year	0.00	0.00	0.00	0.00	0.00
5	Add: Discharges during the year	0.00	0.00	0.00	0.00	0.00
6	Closing Capital Cost	0.00	0.00	0.00	0.00	0.00
7	<b>Average Capital Cost</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

  
 (Petitioner)

15

**Statement showing Return on Equity at Normal Rate**

**PART-I  
FORM- 1(IIA)**

<b>Name of the Petitioner</b>	<b>NTPC Limited</b>
<b>Name of the Generating Station</b>	<b>Feroze Gandhi Unchahar Thermal Power Station Stage-I</b>

Amount in Rs. Lakhs						
S. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
	<b>Return on Equity</b>					
1	Gross Opening Equity (Normal)	48,021.79	48,021.79	48,021.79	48,021.79	48,021.789
2	Less: Adjustment in Opening Equity	18,906.07	-	-	-	
3	Adjustment during the year	-	18,906.07	18,906.07	18,906.07	18,906.07
4	Net Opening Equity (Normal)	29,115.72	29,115.72	29,115.72	29,115.72	29,115.72
5	Add: Increase in equity due to addition during the year	0.00	0.00	0.00	0.00	0.00
7	Less: Decrease due to De-capitalisation during the year	0.00	0.00	0.00	0.00	0.00
8	Less: Decrease due to reversal during the year	0.00	0.00	0.00	0.00	0.00
9	Add: Increase due to discharges during the year	0.00	0.00	0.00	0.00	0.00
10	Net closing Equity (Normal)	29,115.72	29,115.72	29,115.72	29,115.72	29,115.72
11	Average Equity (Normal)	29,115.72	29,115.72	29,115.72	29,115.72	29,115.72
12	Rate of ROE (%)	18.782	18.782	18.782	18.782	18.782
13	Total ROE	5,468.51	5,468.51	5,468.51	5,468.51	5,468.51

(18)

  
(Petitioner)

**Statement showing Return on Equity at Weighted Average Rate of Interest**

**PART-I  
FORM- 1(IIB)**

<b>Name of the Petitioner:</b>	<b>NTPC Limited</b>
<b>Name of the Generating Station:</b>	<b>Feroze Gandhi Unchahar Thermal Power Station Stage-I</b>

**Amount in Rs. Lakhs**

<b>S. No.</b>	<b>Particulars</b>	<b>2019-20</b>	<b>2020-21</b>	<b>2021-22</b>	<b>2022-23</b>	<b>2023-24</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
	<b>Return on Equity (beyond the original scope of work excluding additional capitalization due to Change in Law)</b>					
1	Gross Opening Equity (Normal)	0.00	0.00	0.00	0.00	0.00
2	Less: Adjustment in Opening Equity	0.00	0.00	0.00	0.00	0.00
3	Adjustment during the year	0.00	0.00	0.00	0.00	0.00
4	Net Opening Equity (Normal)	0.00	0.00	0.00	0.00	0.00
5	Add: Increase in equity due to addition during the year	0.00	0.00	0.00	0.00	0.00
7	Less: Decrease due to De-capitalisation during the year	0.00	0.00	0.00	0.00	0.00
8	Less: Decrease due to reversal during the year	0.00	0.00	0.00	0.00	0.00
9	Add: Increase due to discharges during the year	0.00	0.00	0.00	0.00	0.00
10	Net closing Equity (Normal)	0.00	0.00	0.00	0.00	0.00
11	Average Equity (Normal)	0.00	0.00	0.00	0.00	0.00
12	Rate of ROE (%)	10.200	10.202	10.204	10.202	10.189
13	Total ROE	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

  
 (Petitioner)

(16)

Plant Characteristics

Name of the Petitioner	NTPC Ltd.	
Name of the Generating Station	FGUTPS-I	
Unit(s)/Block(s)/Parameters	Unit-1	Unit-2
Installed Capacity ( MW)	210	210
Schedule COD as per Investment Approval		
Actual COD /Date of Taken Over (as applicable)	13.02.1992	
Pit Head or Non Pit Head	Non Pit Head	
Name of the Boiler Manufacture	BHEL	
Name of Turbine Generator Manufacture		
Main Steams Pressure at Turbine inlet (kg/Cm <sup>2</sup> ) abs.	NA	
Main Steam Temperature at Turbine inlet (°C)		
Reheat Steam Pressure at Turbine inlet (kg/Cm <sup>2</sup> )		
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 <sup>2</sup> )		
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		

S...

**Plant Characteristics**

<b>Name of the Petitioner</b>	NTPC Ltd.	
<b>Name of the Generating Station</b>	FGUTPS-I	
<b>Unit(s)/Block(s)/Parameters</b>	<b>Unit-1</b>	<b>Unit-2</b>
<b>Type of Cooling Tower</b>	Induced draught type Cooling tower	
<b>Type of cooling system</b>	Closed Cycle	
<b>Type of Boiler Feed Pump</b>	MDBFP	
<b>Fuel Details<sup>7</sup></b>		
-Primary Fuel	COAL	
-Secondary Fuel	LDO/HFO	
-Alternate Fuels		
<b>Special Features/Site Specific Features</b>		
<b>Special Technological Features</b>		
<b>Environmental Regulation related features</b>	ESP	
<b>Any other special features</b>	FGD implementation is in process.	

*S*  
Petitioner

**Normative parameters considered for tariff computations**

**PART-I  
FORM- 3**

**Name of the Petitioner:** NTPC Limited

**Name of the Generating Station:** Feroze Gandhi Unchahar Thermal Power Station Stage-I

(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**	%	-	8.418	8.419	8.421	8.419	8.408
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	%	9.00	9.00	9.00	9.00	9.00	9.00
Gross Station Heat Rate	kCal/kWh	2450.00	2430.00	2430.00	2430.00	2430.00	2430.00
Specific Fuel Oil Consumption	ml/kWh	0.50	0.50	0.50	0.50	0.50	0.50
Cost of Coal/Lignite for WC	in Days	60	50	50	50	50	50
Cost of Main Secondary Fuel Oil for WC	in Months	2	2	2	2	2	2
Fuel Cost for WC	in Months						
Liquid Fuel Stock for WC	in Months						
O&M Expenses	Rs lakh/MW	30.51	32.96	34.12	35.31	36.56	37.84
Maintenance Spares for WC	% of O&M	20.00	20.00	20.00	20.00	20.00	20.00
Receivables for WC	in Days	60	45	45	45	45	45
Storage capacity of Primary fuel	MT	6.5 Lakh*					
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							

\*Combined Storage Capacity of Unchahar Stage-I, II, III & IV

\*\* 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

*S*  
Petitioner

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**Part-I**  
**FORM-3A**  
**ADDITIONAL FORM**

**Calculation of O&M Expenses**

<b>Name of the Company :</b>		<b>NTPC Limited</b>				
<b>Name of the Power Station :</b>		<b>Feroze Gandhi Unchahar Thermal Power Station Stage-I</b>				
<b>Amount in Rs. Lakhs</b>						
<b>S.No.</b>	<b>Particulars</b>	<b>2019-20</b>	<b>2020-21</b>	<b>2021-22</b>	<b>2022-23</b>	<b>2023-24</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>7</b>	<b>8</b>
1	<b>O&amp;M expenses under Reg.35(1)</b>					
1a	Normative	13843.20	14330.40	14830.20	15355.20	15892.80
2	<b>O&amp;M expenses under Reg.35(6)</b>					
2a	Water Charges	124.35	124.35	124.35	124.35	124.35
2b	Security expenses	1029.53	1131.41	1243.41	1366.54	1501.92
2c	Capital Spares**	0.00	0.00	0.00	0.00	0.00
3	O&M expenses-Ash Transportation**	0.00	0.00	0.00	0.00	0.00
	<b>Total O&amp;M Expenses</b>	<b>14997.07</b>	<b>15586.15</b>	<b>16197.95</b>	<b>16846.09</b>	<b>17519.06</b>

\*\* Shall be provided at the time of truing up

  
**Petitioner**

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**PART-I**  
**FORM-3B**  
**Additional Form**

**Computation of Special Allowance**

<b>Name of the Company :</b>	<b>NTPC Limited</b>
<b>Name of the Power Station :</b>	<b>Feroze Gandhi Unchahar Thermal Power Station Stage-I</b>

<b>Rate of Special allowance @lakh/MW/year</b>	<b>9.5</b>
<b>(Rs. Lakh)</b>	

Unit No.	Capacity (MW)	Date of COD	Year of completion of useful life of 25 yrs.	Special Allowance as per Clause 28					
				Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	210	21-Nov-88	2013-14	2014.79	1995.00	1995.00	1995.00	1995.00	1995.00
2	210	22-Mar-89	2013-14	2014.79	1995.00	1995.00	1995.00	1995.00	1995.00
<b>Year wise Total for the Station</b>				<b>4029.59</b>	<b>3990.00</b>	<b>3990.00</b>	<b>3990.00</b>	<b>3990.00</b>	<b>3990.00</b>

  
**Petitioner**

(2)

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

<b>Name of the Company :</b>	<b>NTPC Limited</b>
<b>Name of the Power Station :</b>	<b>Feroze Gandhi Unchahar Thermal Power Station Stage-I</b>

Last date of order of Commission for the project	<b>Date (DD-MM-YYYY)</b>	22.03.2017 & Corrigendum dtd 26.05.2017
--	--------------------------	---

Reference of petition no. in which the above order was passed	<b>Petition no.</b>	319/GT/2014
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Following details (whether admitted and /or considered) as on the last date of the period for which tariff is approved, in the above order by the Commission:

Capital cost as on 01.04.2019	<b>(Rs. in lakh)</b>	96,843.70
Amount of un-discharged liabilities included in above (& forming part of admitted capital cost)		
Amount of un-discharged liabilities corresponding to above admitted capital cost (but not forming part of admitted capital cost being allowed on cash basis)		-
Gross Normative Debt		48,884.54
Cumulative Repayment		48,884.54
Net Normative Debt		-
Normative Equity		47,959.18
Cumulative Depreciation		86,837.96
Freehold land		357.08

  
**(Petitioner)**

5

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

<b>Name of the Company :</b>	NTPC Limited	
<b>Name of the Power Station :</b>	Feroze Gandhi Unchahar Thermal Power Station Stage-I	
Reference of Final True-up Tariff Petition	<b>Affidavit dated</b>	13.12.2019
Capital Cost as on 31.03.2019 as per Hon'ble Commission's Order dated 22.03.2017 in Pet. No. 319/GT/2014	<b>Rs. Lakhs</b>	96,843.70
Adjustment as per Para 7 of this petition		208.69
<b>Following details as considered by the Petitioner as on the last date of the period for which final true-up tariff is claimed:</b>		
Capital cost as on 01.04.2019	<b>(Rs. in lakh)*</b>	97,052.39
Amount of un-discharged liabilities included in above (& forming part of admitted capital cost)		
Amount of un-discharged liabilities corresponding to above admitted capital cost (but not forming part of admitted capital cost being allowed on cash basis)		
Gross Normative Debt as on 01.04.2019		49,030.60
Cumulative Repayment as on 01.04.2019		49,030.60
Net Normative Debt as on 01.04.2019		-
Normative Equity		48,021.79
Cumulative Depreciation		86,888.70
Freehold land		357.08
 <b>(Petitioner)</b>		

②

## Form 8- Domestic Bonds- Details of Allocation of corporate loans to various projects during the FY 2014-19

Particulars	54
Source of Loan1	BONDS
Currency2	INR
Amount of Loan sanctioned	1030683
Interest Type6	Fixed
Fixed Interest Rate, if applicable	8.49%
Base Rate, if Floating Interest7	N/A
Margin, if Floating Interest8	N/A
Are there any Caps/Floor9	No
If above is yes,specify caps/floor	N/A
Moratorium Period10	8
Moratorium effective from #	25-03-15
Repayment Period11	Installments Due on 25/03/2023, 25/03/2024 & 25/03/2025
Repayment effective from	25-03-23
Repayment Frequency12	Installments Due on 25/03/2023, 25/03/2024 & 25/03/2025
Repayment Instalment13,14	Installments 1st - 206,136.61 2nd - 412,273.22 3rd - 412,273.22
Base Exchange Rate16	N/A
Door to Door Maturity	10

Name of the Projects	
Anantpur Solar	5,600
Badarpur R&M	2,300
BARH I	74,883
BARH II	63,500
BONGAIGAON	54,000
Chatti Bariatu CMB	8,100
Dadri Gas R & M	600
DARLIPALLI	49,200
FARAKKA III	10,900
Farakka R & M	2,000
GADARWARA	81,000
Gandhar R & M	4,300
Kahalgaon II Phase II	1,800
Khstpp R & M	2,000
Kawas R & M	1,400
Khargone	45,000
KOLDAM	25,100
KORBA III	9,200
Korba R & M	4,400
Kudgi	123,300
LARA I	53,300
Lata Tapovan	1,600
Mauda	21,900
Mauda II	45,800
NCTPP II	11,000

NCTPP R & M	3,700
NORTH KARANPURA	12,400
Pakri Barwadih CMB	26,600
Ramagundam I & II R & M	2,400
Rammam	3,100
RIHAND III	28,300
Rihand R & M	2,500
Simhadari II	26,800
Simhadari R & M	900
Vidhyachal Hydro**	1,900
Singrauli R & M	1,600
Vindychal Solar**	4,800
SIPAT I	20,500
SOLAPUR	70,300
TALCHER II	12,000
Tanda II	9,000
Tapovan Vishnugad	26,400
TSTPP R & M	1,600
TTPS R & M	1,000
Unchahar R & M	3,400
Unchahar IV	17,400
Vindhyachal IV	17,200
Vindhyachal V	33,500
Vindhyachal R & M	1,200
CC	
<b>TOTAL</b>	<b>1,030,683</b>

*S...*

**Statement Giving Details of Project Financed through a Combination of loan**

Form 8

TRANCHE NO

BP NO 5070000011

T00001

D00032

Unsecured Loan From PFC-V		
Source of Loan :	PFC-V	
Currency :	INR	
Amount of Loan :	100,000,000,000	
Total Drawn amount :	5,000,000,000	
Date of Drawl	0	
Interest Type :	Floating	
Rate of Interest as on 01.04.2019	7.68%	
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 :	4 Years	
Moratorium effective from :	26.12.2008	
Repayment Period (Inc Moratorium) :	16 Years	
Repayment Frequency :	48 Quarterly Instalments	
Repayment Type :	FIFO	
First Repayment Date :	15.07.2013	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	SIMHADRI-II	820,000,000.00
	VINDHYACHAL-IV	500,000,000.00
	PAKRI BARWADIH	730,000,000.00
	FARAKKA-III	420,000,000.00
	NCTPP-II	370,000,000.00
	TALCHER STPP-II	340,000,000.00
	TAPOVAN VISHNUGAD	480,000,000.00
	KOLDAM	970,000,000.00
	BADARPUR R&M	300,000,000.00
	RIHAND R&M	70,000,000.00
<b>Total Allocated Amount</b>		<b>5,000,000,000.00</b>

*S...*

**Statement Giving Details of Project Financed through a Combination of loan  
Form 8**

**TRANCHE NO**

**BP NO 5050000261**

**T00001**

**D00012**

<b>Unsecured Loan From SBI-VII</b>		
Source of Loan :	<b>SBI-VII</b>	
Currency :	INR	
Amount of Loan :	100,000,000,000	
Total Drawn amount :	2,500,000,000	
Date of Drawl	22.07.2013	
Interest Type :	Floating	
Rate of Interest as on 01.04.2019	8.25%	
Upfront fees	0.08% excluding service tax	
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 :	4 Years	
Moratorium effective from :	08.07.2011	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	16 Half Yearly Instalments	
Repayment Type :	AVG	
First Repayment Date :	30.09.2015	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
<b>Project Code</b>	<b>Project Name</b>	<b>Amount</b>
	BARH-II	670,000,000
	FARAKKA-III	350,000,000
	SIMHADRI-II	200,000,000
	RAMAGUNDAM SOLAR	100,000,000
	FGUTPS-I	84,009,477
	FGUTPS-II	55,990,523
	VSTPS R&M	280,000,000
	RAMAGUNDAM-R&M	180,000,000
	KORBA-R&M	170,000,000
	KAWAS-R&M	170,000,000
	BADARPUR-R&M	140,000,000
	TSTPP-R&M	100,000,000
<b>Total Allocated Amount</b>		<b>2,500,000,000.00</b>

*S. N.*

**Statement Giving Details of Project Financed through a Combination of loan  
Form 8**

**TRANCHE NO**

**BP NO 5050000442**

**T00001**

**18**

<b>Unsecured Loan From SBI-VIII</b>		
Source of Loan :	<b>SBI-VIII</b>	
Currency :	<b>INR</b>	
Amount of Loan :	<b>100,000,000,000</b>	
Total Drawn amount :	<b>1,500,000,000</b>	
Date of Drawl	<b>21.04.2016</b>	
Interest Type :	<b>Floating</b>	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	<b>D00018-8.25%</b>	
Margin, If Floating Interest :	<b>0.00%</b>	
Are there any Caps/ Floor :	<b>Y/N</b>	
Frequency of Intt. Payment	<b>Monthly</b>	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :	<b>6 Years</b>	
Moratorium effective from :	<b>21.04.2016</b>	
Repayment Period (Inc Moratorium) :	<b>15 Years</b>	
Repayment Frequency :	<b>9 Yearly Installments</b>	
Repayment Type :	<b>AVG</b>	
First Repayment Date :	<b>31.01.2022</b>	
Base Exchange Rate :	<b>RUPEE</b>	
Date of Base Exchange Rate :	<b>N.A.</b>	
<b>Project Code</b>	<b>Project Name</b>	<b>Amount</b>
	BONGAIGAON	700,000,000
	UNCHAHAR-IV	50,000,000
	RAMAGUNDAM R&M	150,000,000
	TSTPS R&M	210,000,000
	GANDHAR R&M	80,000,000
	KORBA R&M	60,000,000
	DADRI GAS R&M	100,000,000
	UNCHAHAR R&M	50,000,000
	BADARPUR R&M	50,000,000
	KAHALGAON R&M	50,000,000
<b>Total Allocated Amount</b>		<b>1,500,000,000</b>

*S. M. ...*



**Statement Giving Details of Project Financed through a Combination of loan  
Form 8**

**TRANCHE NO**

**BP NO 5050000521**

**T00001**

**D00004**

<b>Unsecured Loan From HDFC Bank Ltd.-IV</b>		
Source of Loan :	<b>HDFC Bank Ltd.-IV</b>	
Currency :	INR	
Amount of Loan :	20,000,000,000	
Total Drawn amount :	12,450,000,000	
Date of drawl	29.06.2018	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	8.45%	
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.	
<b>Project Code</b>	<b>Project Name</b>	<b>Amount</b>
	KORBA R&M	900,000,000
	RAMAGUNDAM R&M	2,200,000,000
	UNCHAHAHAR R&M	700,000,000
	RIHAND R&M	900,000,000
	KAWAS R&M	1,800,000,000
	AURAIYA R&M	1,800,000,000
	TSTPP R&M	900,000,000
	GANDHAR R&M	1,850,000,000
	NCTPP R&M	300,000,000
	KAHALGAON R&M	300,000,000
	ANTA R&M	800,000,000
<b>Total Allocated Amount</b>		<b>12,450,000,000</b>

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**Statement Giving Details of Project Financed through a Combination of loan  
Form 8**

**TRANCHE NO**

**BP NO 5050000571**

**T00001**

**D00003**

<b>Unsecured Loan From Punjab National Bank-III</b>		
Source of Loan :	<b>Punjab National Bank-III</b>	
Currency :	INR	
Amount of Loan :	20,000,000,000	
Total Drawn amount :	5,000,000,000	
Date of Drawl	13.08.2018	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	8.30%	
Margin, If Floating Interest :	0.00%	
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 :	13.08.2018	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	9 Yearly Instalment	
Repayment Type :	AVG	
First Repayment Date :	01.02.2022	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
<b>Project Code</b>	<b>Project Name</b>	<b>Amount</b>
	BARH-I	300,000,000.00
	SOLAPUR	200,000,000.00
	TANDA-II	200,000,000.00
	TALLAIPALLI	500,000,000.00
	SINGRAULI R&M	800,000,000.00
	FARAKKA R&M	800,000,000.00
	RIHAND R&M	500,000,000.00
	DADRI GAS R&M	400,000,000.00
	KORBA R&M	400,000,000.00
	RAMAGUNDAM R&M	400,000,000.00
	VINDHAYACHAL R&M	300,000,000.00
	UNCHAHAR R&M	200,000,000.00
<b>Total Allocated Amount</b>		<b>5,000,000,000.00</b>

*Signature*

**Year wise Statement of Additional Capitalisation after COD**

<b>Name of the Petitioner</b>	NTPC Limited
<b>Name of the Generating Station</b>	Feroze Gandhi Unchahar Thermal Power Station Stage-I
<b>Date of Take-over (TOD)</b>	13-02-1992
<b>For Financial Year</b>	2019-24 (Summary)

Sl. No.	Head of Work /Equipment	ACE Claimed (Projected)					Justification	Amount in Rs Lakh
		2019-20	2020-21	2021-22	2022-23	2023-24		Admitted Cost by the Commission, if any
1	2	3	4	5	6	7	8	9
<b>A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate</b>								
NA (Shall be claimed at the time of truing-up as per actuals, if any)								
	<b>Total (A)</b>	-	-	-	-			
<b>B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest</b>								
NA (Shall be claimed at the time of truing-up as per actuals, if any)								
	<b>Total (B)</b>	-	-	-	-			
<b>Total Add. Cap. Claimed (A+B)</b>		-	-	-	-			

(15)

  
(Petitioner)

**Year wise Statement of Additional Capitalisation after COD**

Name of the Petitioner		NTPC Limited						
Name of the Generating Station		Feroze Gandhi Unchahar Thermal Power Station Stage-I						
Date of Take-over (TOD)		13-02-1992						
For Financial Year		2019-20						
Sl. No.	Head of Work /Equipment	ACE Claimed (Projected)				Regulations under which claimed	Justification	Amount in Rs Lakh
		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3			Admitted Cost by the Commission, if any
1	2	3	4	5= (3-4)	6	7	8	9
<b>A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate</b>								
NA (Shall be claimed at the time of truing-up as per actuals, if any)								
Total (A)		-	-	-	-			
<b>B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest</b>								
NA (Shall be claimed at the time of truing-up as per actuals, if any)								
Total (B)		-	-	-	-			
Total Add. Cap. Claimed		-	-	-	-			

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*[Signature]*  
(Petitioner)

**Year wise Statement of Additional Capitalisation after COD**

Name of the Petitioner		NTPC Limited						
Name of the Generating Station		Feroze Gandhi Unchahar Thermal Power Station Stage-I						
Date of Take-over (TOD)		13-02-1992						
For Financial Year		2020-21						
Sl. No.	Head of Work /Equipment	ACE Claimed (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
<b>A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate</b>								
NA (Shall be claimed at the time of truing-up as per actuals, if any)								
Total (A)		-	-	-	-			
<b>B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest</b>								
NA (Shall be claimed at the time of truing-up as per actuals, if any)								
Total (B)		-	-	-	-			
Total Add. Cap. Claimed (A+B)		-	-	-	-			

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*S. P. N.*  
(Petitioner)

**Year wise Statement of Additional Capitalisation after COD**


Name of the Petitioner		NTPC Limited						
Name of the Generating Station		Feroze Gandhi Unchahar Thermal Power Station Stage-I						
Date of Take-over (TOD)		13-02-1992						
For Financial Year		2021-22						
Sl. No.	Head of Work /Equipment	ACE Claimed (Projected)				Regulations under which claimed	Justification	Amount in Rs Lakh
		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3			Admitted Cost by the Commission, if any
1	2	3	4	5= (3-4)	6	7	8	9
<b>A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate</b>								
NA (Shall be claimed at the time of truing-up as per actuals, if any)								
Total (A)		-	-	-	-			
<b>B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest</b>								
NA (Shall be claimed at the time of truing-up as per actuals, if any)								
Total (B)		-	-	-	-			
Total Add. Cap. Claimed (A+B)		-	-	-	-			

(5)

SPN  
(Petitioner)

**Year wise Statement of Additional Capitalisation after COD**

<b>Name of the Petitioner</b>		NTPC Limited						
<b>Name of the Generating Station</b>		Feroze Gandhi Unchahar Thermal Power Station Stage-I						
<b>Date of Take-over (TOD)</b>		13-02-1992						
<b>For Financial Year</b>		2022-23						
Sl. No.	Head of Work /Equipment	ACE Claimed (Projected)				Regulations under which claimed	Justification	Amount in Rs Lakh
		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3			Admitted Cost by the Commission, if any
1	2	3	4	5= (3-4)	6	7	8	9
<b>A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate</b>								
NA (Shall be claimed at the time of truing-up as per actuals, if any)								
<b>Total (A)</b>		-	-	-	-			
<b>B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest</b>								
NA (Shall be claimed at the time of truing-up as per actuals, if any)								
<b>Total (B)</b>		-	-	-	-			
<b>Total Add. Cap. Claimed (A+B)</b>		-	-	-	-			

  
 (Petitioner)

**Year wise Statement of Additional Capitalisation after COD**

Name of the Petitioner		NTPC Limited						
Name of the Generating Station		Feroze Gandhi Unchahar Thermal Power Station Stage-I						
Date of Take-over (TOD)		13-02-1992						
For Financial Year		2023-24						
Sl. No.	Head of Work /Equipment	ACE Claimed (Projected)				Regulations under which claimed	Justification	Amount in Rs Lakh
		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3			Admitted Cost by the Commission, if any
1	2	3	4	5= (3-4)	6	7	8	9
<b>A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate</b>								
NA (Shall be claimed at the time of truing-up as per actuals, if any)								
Total (A)		-	-	-	-			
<b>B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest</b>								
NA (Shall be claimed at the time of truing-up as per actuals, if any)								
Total (B)		-	-	-	-			
Total Add. Cap. Claimed (A+B)		-	-	-	-			

(3)

  
(Petitioner)



**Financing of Additional Capitalisation**

**PART-I  
FORM- 10**

<b>Name of the Petitioner</b>	<b>NTPC Limited</b>
<b>Name of the Generating Station</b>	<b>Feroze Gandhi Unchahar Thermal Power Station Stage-I</b>
<b>Date of Take-over (TOD)</b>	<b>13-02-1992</b>

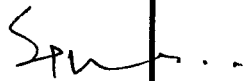
Financial Year (Starting from COD)1	Actual					Admitted				
	2019-20	2020-21	2021-22	2022-23	2023-24	2019-20	2020-21	2021-22	2022-23	2023-24
	1	3	4	5	6	7	8	9	10	11

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, if any, is proposed to be funded in Debt:Equity ratio of 70:30**

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**(Petitioner)**

**Statement of Depreciation**


**PART-I  
FORM- 12**

**Name of the Company :** NTPC Limited  
**Name of the Power Station :** Feroze Gandhi Unchahar Thermal Power Station Stage-I

(Amount in Rs Lakh)

S. No.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8
1	Opening Capital Cost	96747.76	97,052.39	97,052.39	97,052.39	97,052.39	97,052.39
2	Closing Capital Cost	97052.39	97,052.39	97,052.39	97,052.39	97,052.39	97,052.39
3	Average Capital Cost	96900.08	97,052.39	97,052.39	97,052.39	97,052.39	97,052.39
1a	Cost of IT Equipments & Software included in (1) above		636.81	636.81	636.81	636.81	636.81
2a	Cost of IT Equipments & Software included in (2) above		636.81	636.81	636.81	636.81	636.81
3a	Average Cost of IT Equipments & Software		636.81	636.81	636.81	636.81	636.81
4	Freehold land	357.08	357.08	357.08	357.08	357.08	357.08
5	Rate of depreciation	-	-	-	-	-	-
6	Depreciable value	86,888.70	87,089.46	87,089.46	87,089.46	87,089.46	87,089.46
7.	Balance useful life at the beginning of the period	1.00	-	-	-	-	-
8	Remaining depreciable value	757.46	200.76	-	-	-	-
9	Depreciation (for the period)	0.00	200.76	-	-	-	-
10	Depreciation (annualised)	757.46	200.76	-	-	-	-
11	Cumulative depreciation at the end of the period		87,089.46	87,089.46	87,089.46	87,089.46	87,089.46
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	106.34	-	-	-	-	-
15	Net Cumulative depreciation at the end of the period after adjustments	86,888.70	87,089.46	87,089.46	87,089.46	87,089.46	87,089.46

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(Petitioner)

Calculation of Interest on Actual  
LoansName of the Company NTPC Limited  
Name of the Power Station Unchahar -I

Sl. no.	Particulars	(Amount in lacs)				
		2019-20	2020-21	2021-22	2022-23	2023-24
1	<b>PFC-V T1 D33</b>					
	Gross loan - Opening	500.00	500.00	500.00	500.00	500.00
	Cumulative repayments of Loans	239.58	239.58	239.58	239.58	239.58
	Net loan - Opening	260.42	260.42	260.42	260.42	260.42
	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	260.42	260.42	260.42	260.42	260.42
	Average Net Loan	260.42	260.42	260.42	260.42	260.42
	Rate of Interest on Loan	7.6800%	7.6800%	7.6800%	7.6800%	7.6800%
	Interest on loan	20.00	20.00	20.00	20.00	20.00
2	<b>SBI VII D-12</b>					
	Gross loan - Opening	840.09	840.09	840.09	840.09	840.09
	Cumulative repayments of Loans	420.05	525.06	630.07	735.08	840.09
	Net loan - Opening	420.04	315.03	210.02	105.01	0.00
	Addition	0.00	0.00	0.00	0.00	0.00
	Repayments of Loans during the year	105.01	105.01	105.01	105.01	0.00
	Net loan - Closing	315.03	210.02	105.01	0.00	0.00
	Average Net Loan	367.54	262.52	157.51	52.50	0.00
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest on loan	30.32	21.66	12.99	4.33	0.00
3	<b>Bonds 54 Series Repayment in 3 yearly Installments starting 25.03.2023</b>					
	Gross loan - Opening	3400.00	3400.00	3400.00	3400.00	3400.00
	Cumulative repayments of Loans	0.00	0.00	0.00	0.00	1133.33
	Net loan - Opening	3400.00	3400.00	3400.00	3400.00	2266.67
	Addition	0.00	0.00	0.00	0.00	0.00
	Repayments of Loans during the year	0.00	0.00	0.00	1133.33	1133.33
	Net loan - Closing	3400.00	3400.00	3400.00	2266.67	1133.33
	Average Net Loan	3400.00	3400.00	3400.00	2833.33	1700.00
	Rate of Interest on Loan	8.5200%	8.5200%	8.5200%	8.5200%	8.5200%
	Interest on loan	289.68	289.68	289.68	241.40	144.84

4 SBI VIII Total repayment from 31.01.2022 -9Y

Gross loan - Opening	500.00	500.00	500.00	500.00	500.00
Cumulative repayments of Loans	0.00	0.00	0.00	55.56	111.11
Net loan - Opening	500.00	500.00	500.00	444.44	388.89
Addition Repayments of Loans during the year	0.00	0.00	0.00	0.00	0.00
Net loan - Closing	500.00	500.00	444.44	388.89	333.33
Average Net Loan	500.00	500.00	472.22	416.67	361.11
Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
Interest on loan	41.25	41.25	38.96	34.38	29.79

5 HDFC IV Repayment (9 Yearly installments) from 17.04.2021

Gross loan - Opening	7000.00	7000.00	7000.00	7000.00	7000.00
Cumulative repayments of Loans	0.00	0.00	0.00	777.78	1555.56
Net loan - Opening	7000.00	7000.00	7000.00	6222.22	5444.44
Addition Repayments of Loans during the year	0.00	0.00	0.00	0.00	0.00
Net loan - Closing	7000.00	7000.00	6222.22	5444.44	4666.67
Average Net Loan	7000.00	7000.00	6611.11	5833.33	5055.56
Rate of Interest on Loan	8.4500%	8.4500%	8.4500%	8.4500%	8.4500%
Interest on loan	591.50	591.50	558.64	492.92	427.19

6 PNB III Repayment (9 Yearly installments) from 01.02.2022

Gross loan - Opening	2000.00	2000.00	2000.00	2000.00	2000.00
Cumulative repayments of Loans	0.00	0.00	0.00	222.22	444.44
Net loan - Opening	2000.00	2000.00	2000.00	1777.78	1555.56
Addition Repayments of Loans during the year	0.00	0.00	0.00	0.00	0.00
Net loan - Closing	2000.00	2000.00	1777.78	1555.56	1333.33
Average Net Loan	2000.00	2000.00	1888.89	1666.67	1444.44
Rate of Interest on Loan	8.3000%	8.3000%	8.3000%	8.3000%	8.3000%
Interest on loan	166.00	166.00	156.78	138.33	119.89

**TOTAL LOAN**

Gross loan - Opening	14240.09	14240.09	14240.09	14240.09	14240.09
Cumulative repayments of Loans	659.63	764.64	869.65	2030.22	4324.12
Net loan - Opening	13580.46	13475.45	13370.44	12209.87	9915.97
Addition Repayments of Loans during the year	105.01	105.01	1160.57	2293.90	2188.89
Net loan - Closing	13475.45	13370.44	12209.87	9915.97	7727.08
Average Net Loan	13527.95	13422.94	12790.15	11062.92	8821.52
Rate of Interest on Loan	8.4178%	8.4191%	8.4209%	8.4187%	8.4080%
Interest on loan	1138.75	1130.09	1077.05	931.36	741.71

Rate as per CERC

Note:-

- 1) LIC III Rate of interest includes upfront fees of 0.0158% (i.e. 0.20%\*1.103%/14years).
- 2) SBI VII Rate of interest includes upfront fees of 0.0075% (i.e. 0.08%\*1.1236%/12years).

**Details of Source wise Fuel for Computation of Energy Charges**

**PART-I  
FORM- 15**

Name of the Company :		NTPC Limited						
Name of the Power Station :		Feroze Gandhi Unchahar Thermal Power Station Stage-I						
S. No.	Month	Unit	Oct-18		Nov-18		Dec-18	
			Domestic	Imported	Domestic	Imported	Domestic	Imported
1	Quantity of Coal supplied by Coal Company*	(MT)	4,26,491		4,66,331		7,17,402	
2	Adjustment (+/-) in quantity supplied made by Coal Company	(MT)	-205		-		-465	
3	Coal supplied by Coal Company (1+2)	(MT)	4,26,286		4,66,331		7,16,937	
4	Normative Transit & Handling Losses	(MT)	3,090		3,442		4,872	
5	Net coal Supplied (3-4)	(MT)	4,23,196		4,62,889		7,12,066	
6	Amount charged by the Coal Company*	(Rs.)	1,31,86,25,700.43		1,43,47,92,596.53		2,09,80,44,089.86	
7	Adjustment (+/-) in amount charged made by Coal Company	(Rs.)	-5,94,500.00		-		-12,65,625.00	
8	Total amount Charged (6+7)	(Rs.)	1,31,80,31,200.43		1,43,47,92,596.53		2,09,67,78,464.86	
9	Transportation charges by rail/ship/road transport	(Rs.)	54,50,31,691		60,99,78,457		86,17,48,793	
10	Adjustment (+/-) in amount charged made by Railways/ Transport company	(Rs.)						
11	Demurrage Charges, if any	(Rs.)						
12	Cost of diesel in transporting coal through MGR system, if applicable	(Rs.)						
13	Total Transportation Charges (9 +/- 10 - 11 + 12)	(Rs.)	54,50,31,691		60,99,78,457		86,17,48,793	
13A	Others (stone picking charges, lococ driver's salary, sampling charges etc)	(Rs.)						
14	Total amount Charged for coal supplied including Transportation (8+13+13A)	(Rs.)	1,86,30,62,891		2,04,47,71,054		2,95,85,27,257	
15	Landed cost of coal (14/ 5)	Rs./MT	4402.36		4417.41		4154.85	
16	Blending Ratio (Domestic/Imported)		1.00	0.00	1.00	0.00	1.00	0.00
17	Weighted average cost of coal for preceding three months	Rs./MT			4296.44			
18	GCV of Domestic Coal supplied as per bill of Coal Company	(kCal/Kg)	4561		4692		4467	
19	GCV of Imported Coal supplied as per bill Coal Company	(kCal/Kg)						
20	Weighted average GCV of coal as Billed	(kCal/Kg)	4561		4692		4467	
21	GCV of Domestic Coal supplied as received at Station	(kCal/Kg)	4120		3952		3794	
22	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)						
23	Weighted average GCV of coal as Received	(kCal/Kg)	4120		3952		3794	

\* This includes opening balance

(Petitioner)

Details of Secondary Fuel for Computation of Energy Charges

Name of the Company :		NTPC Limited						
Name of the Power Station :		Feroze Gandhi Unchahar Thermal Power Station Stage-I						
Sl.No.	Month	Unit	Oct-18		Nov-18		Dec-18	
			HFO	LDO	HFO	LDO	HFO	LDO
1	Quantity of Oil supplied by Oil Company	KL	343.19	130.13	896.53	832.13	907.10	1,553.63
2	Adjustment(+/-) in quantity supplied made by Oil Company	KL	-		-		-	
3	Oil supplied by Oil Company (1+2)	KL	343.19	130.13	896.53	832.13	907.10	1,553.63
4	Normative Transit & Handling Losses	KL	-		-		-	
5	Net Oil Supplied (3-4)	KL	343.19	130.13	896.53	832.13	907.10	1,553.63
6	Amount charged by the Oil Company	(Rs)	1,48,08,026	60,16,428	4,50,37,315	4,82,11,238	4,39,38,213	8,64,28,035
7	Adjustment(+/-) in amount charged made by Oil Company	(Rs)						
8	Total amount charged (6+7)	(Rs)	1,48,08,026	60,16,428	4,50,37,315	4,82,11,238	4,39,38,213	8,64,28,035
9	Transportation charges by rail / ship / road transport	(Rs)						
10	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs)						
11	Demurrage Charges, if any	(Rs)						
12	Cost of diesel in transporting Oil through MGR system, if applicable	(Rs)						
13	Total Transportation Charges (9+/-10-11+12)	(Rs)						
14	Others -Entry Tax on Oil	(Rs.)						
15	Total amount Charged for fuel supplied including Transportation (8+13+14)	(Rs)	1,48,08,026	60,16,428	4,50,37,315	4,82,11,238	4,39,38,213	8,64,28,035
16	Weighted average GCV of Oil as fired	(kCal/L)		9,488.00		9,626.00		9,720.00
17	Weighted average rate of Secondary Fuel	Rs/KL	43,148.69	46,235.40	50,234.92	57,937.42	48,438.22	55,629.67

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PETITIONER

**Computation of Energy Charges**

**Form-15B  
ADDITIONAL FORM**

Name of the Company	NTPC Limited
Name of the Power Station	Feroze Gandhi Unchahar Thermal Power Station Stage-I

**Computation of Energy Charges**

1	Rate of Energy Charge from Sec. Fuel Oil/ Alternate Fuel (p/kwh) (REC) <sub>s</sub>	= (Q <sub>s</sub> ) <sub>n</sub> X P <sub>s</sub>	2.795
2	Heat Contribution from SFO / Alternate Fuel (H <sub>s</sub> )	= (Q <sub>s</sub> ) <sub>n</sub> X (GCV) <sub>s</sub>	4.838
3	Heat Contribution from coal (H <sub>p</sub> ) <sub>s</sub>	= GHR- H <sub>s</sub>	2425.16
4	Specific Primary Fuel Consumption (Q <sub>p</sub> ) <sub>n</sub>	= H <sub>p</sub> / (GCV) <sub>p</sub>	0.631
5	Rate of Energy charge from Primary Fuel (p/kwh) (REC) <sub>p</sub>		271.266
6	Rate of Energy charge ex-bus (p/kWh) (REC)	= ((REC) <sub>s</sub> + (REC) <sub>p</sub> ) / (1-(AUX))	301.166

		2019-20	2020-21	2021-22	2022-23	2023-24
No of Days in the year	Days	366	365	365	365	366
Sp. Oil consumption	ml/kwh	0.5	0.5	0.5	0.5	0.5
Auxiliary consumption	%	9.00	9.00	9.00	9.00	9.00
Heat Rate	Kcal/Kwh	2,430.00	2,430.00	2,430.00	2,430.00	2430

**Computation of Variable Charges**

		2019-20	2020-21	2021-22	2022-23	2023-24
Variable Charge (Coal)	p/kwh	298.094	298.094	298.094	298.094	298.094
Variable Charge (Oil)	p/kwh	3.072	3.072	3.072	3.072	3.072
<b>Total</b>	<b>p/kwh</b>	<b>301.166</b>	<b>301.166</b>	<b>301.166</b>	<b>301.166</b>	<b>301.166</b>

**Price of fuel from Form-15/15A**

Coal Cost	(Rs./MT)	4296.44	4296.44	4296.44	4296.44	4296.44
Oil Cost	(Rs./KL)	55907.07	55907.07	55907.07	55907.07	55907.07

**Computation of Fuel Expenses for Calculation of IWC:**

ESO in a year	(MUs)	2853.66	2845.86	2845.86	2845.86	2853.658
ESO for 50 days	(MUs)	389.844	389.844	389.84	389.84	389.844
Cost of coal for 45 Days	(Rs. Lakh)	11621.03	11621.03	11621.03	11621.03	11621.03
Cost of oil for 2 months	(Rs. Lakh)	146.10	145.70	145.70	145.70	146.10
Energy Expenses for 45 days	(Rs. Lakh)	10566.71	10566.71	10566.71	10566.71	10566.71

Coal		3rd month	2nd month	1st month	Wtd. Avg.
Wtd. Avg. Price of Coal	Rs./MT	4402.36	4417.41	4154.85	<b>4296.44</b>
Wtd. Avg. GCV of Coal as received	kCal/Kg	4120	3952	3794	<b>3926.09</b>
<b>Wtd. Avg. GCV of Coal as received after adjustment of 85 kcal/kg</b>					<b>3841.09</b>
<b>Sec. Oil</b>					
Wtd. Avg. Price of Secondary Fuel	Rs/KL	46235.40	57937.42	55629.67	<b>55907.07</b>
Wtd. Avg. GCV of Secondary Fuel	kCal/L	9488.00	9626.00	9720.00	<b>9676.91</b>

  
**PETITIONER**

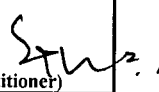
5

**Statement of Capital cost**Name of the Petitioner  
Name of the Generating StationNTPC Ltd  
Feroze Gandhi Unchahar Thermal Power Station Stage-I

(Amount in Rs. Lakh)

S. No.	Particulars	2019-20		
		Accrual Basis	Un-discharged Liabilities	Cash Basis
A	a) Opening Gross Block Amount as per books	1,17,124.20	640.30	1,16,483.90
	b) Amount of IDC in A(a) above			432.20
	c) Amount of FC in A(a) above			
	d) Amount of FERV in A(a) above			813.73
	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			

Shall be filed at the time of truing-up.

  
(Petitioner)



**Statement of Capital Woks in Progress**

Name of the Petitioner

NTPC Ltd

Name of the Generating Station

Feroze Gandhi Unchahar Thermal Power Station Stage-I

(Amount in Rs. Lakh)

S. No.	Particulars	2019-20		
		Accrual Basis	Un-discharged Liabilities	Cash Basis
A	a) Opening CWIP as per books	1,755.50	619.10	1,136.40
	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			

Shall be filed at the time of truing-up.

  
 (Petitioner)

**Calculation of Interest on Normative Loan**

Name of the Company :		NTPC Limited					
Name of the Power Station :		Feroze Gandhi Unchahar Thermal Power Station Stage-I					
(Amount in Rs Lakh)							
S. No.	Particulars	Existing	2019-20	2020-21	2021-22	2022-23	2023-24
		2018-19					
1	2	3	4	5	6	7	8
1	Gross Normative loan – Opening	48,817.36	49,030.60	49,030.60	49,030.60	49,030.60	49,030.60
2	Cumulative repayment of Normative loan up to previous year	48,817.36	49,030.60	49,030.60	49,030.60	49,030.60	49,030.60
2A	Adjustment due to liability discharge						
2B	Adjustment due to decapitalization	82.71					
3	<b>Net Normative loan – Opening</b>	-	-	-	-	-	-
4	Add: Increase due to addition during the year / period	295.95	-	-	-	-	-
5	Less: Decrease due to de-capitalisation during the year / period	82.71	0.00	0.00	0.00	0.00	0.00
6	Less: Decrease due to reversal during the year / period						
7	Add: Increase due to discharges during the year / period	0.00	0.00	0.00	0.00	0.00	0.00
8	Less: Repayment of Loan	295.95	-	-	-	-	-
9	<b>Net Normative loan - Closing</b>	-	-	-	0.00	-	-
10	<b>Average Normative loan</b>	-	-	-	-	-	-
11	Weighted average rate of interest	7.5087	8.4178	8.4191	8.4209	8.4187	8.4080
12	<b>Interest on Loan</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

  
(Petitioner)

**Calculation of Interest on Working Capital**

Name of the Company :	NTPC Limited
Name of the Power Station :	Feroze Gandhi Unchahar Thermal Power Station Stage-I

(Amount in Rs Lakh)

S. No.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8
1	Cost of Coal/Lignite	13,503.56	11621.03	11621.03	11621.03	11621.03	11621.03
2	Cost of Main Secondary Fuel Oil	145.39	146.10	145.70	145.70	145.70	146.10
3	Fuel Cost						
4	Liquid Fuel Stock						
5	O & M Expenses	1,520.02	1249.76	1298.85	1349.83	1403.84	1459.92
6	Maintenance Spares	3,648.05	2999.41	3117.23	3239.59	3369.22	3503.81
7	Receivables	19,443.50	13537.68	13605.02	13684.20	13768.08	13846.06
8	Total Working Capital	38260.53	29553.98	29787.83	30040.35	30307.87	30576.93
9	Rate of Interest	13.5000	12.0500	12.0500	12.0500	12.0500	12.0500
10	<b>Interest on Working Capital</b>	<b>5165.17</b>	<b>3561.25</b>	<b>3589.43</b>	<b>3619.86</b>	<b>3652.10</b>	<b>3684.52</b>

Petitioner

**Statement of Liability Flow**

**PART-I  
FORM-S**

Name of the Company : **NTPC Limited**  
 Name of the Power Station : **Feroze Gandhi Unchahar Thermal Power Station Stage-I**

**Amount in Rs**

Sr. No.	Name of the Party	Name of the work	Year of creation of liability capitalised in Gross Block	Remark	Undischarged liabilities relating to GB as on 31.03.2019
(1)	(2)	(3)	(4)	(5)	(6)
1	LARSEN & TOUBRO LTD-1006827	Renovation & Modernisation of MCCs At CHP Stage-I	2014-15	Not claimed	973
2	CAPITAL CONTROLS INDIA PVT LTD	Chlorine Leak Detection & Absorbtion System For CW System Stage-I	2014-15	Not claimed	13,80,845
3	ABB India Ltd	R&M of Control System for Stage-I Ash Handling Plant	2015-16	Not claimed	2,88,500
4	HONEYWELL AUTOMATION INDIA LTD	R&M of C&I System Package for Stage-I	2015-16	Not claimed	28,04,051
5	BHARAT HEAVY ELECTRICALS LTD-1006668	Modification of ESP	2017-18	Disallowed	4,86,42,104
6	FORBES MARSHALL CODEL PVT LTD	COMPLETE CO ANALYZER ( IN-SITU TYPE)	2018-19	Not claimed	21,000
7	GIRIRAJ WATER SOLUTIONS PVT LTD	COMPLETE ASSY	2018-19	Not claimed	1,22,600
8	R G ENGINEERING CORPORATION	COMPLETE TELESCOPIC SPOUT	2018-19	Not claimed	1,10,000
9	AUTOMATIC ELECTRIC LTD	PT;6.6KV/V3/110/V3/110V3;100&50VA/0.5/	2018-19	Not claimed	1,63,519
10	BHARAT HEAVY ELECTRICALS LTD	SERVO MOTOR FOR ESV OF 210 MW	2018-19	Not claimed	51,45,779
11	MASIBUS AUTOMATION AND	OPC COMPLIANT SYSTEM	2018-19	Not claimed	10,73,405
12	HIRAL TEKTRONIX PVT LTD.	BIOMETRIC-M/C:FACE CUM FINER PRINT ACS	2018-19	Not claimed	20,900
13	AGRAY INFOSOLUTIONS PVT LTD	MS SQL SERVER:2008, STANDARD	2018-19	Not claimed	39,988
14	TRF LTD	HUB FOR FIX PLOUGH ARM	2018-19	Not claimed	48,327
15	KAKATI KARSHAK INDUSTRIES PVT LTD	KVL-750:COMPLETE ASSY	2018-19	Not claimed	1,28,246
16	RASMAN TECHNOLOGIES PVT LTD	GEAR BOX:SZN280 COMP.UNIT FLENDER	2018-19	Not claimed	1,13,830
17	ASTECH MARKETING PVT	AUMA(G) COMPLETE ACT. MODEL SA10.1-GO-	2018-19	Not claimed	76,847
18	BHARAT HEAVY ELECTRICALS LTD	GLAND STEAM VALVE SERVO 011323901000/0	2018-19	Not claimed	37,15,200
19	ENGINEERS COMBINE	32-125:COMPLETE ASSY.	2018-19	Not claimed	1,33,600
	<b>Total Liability</b>				<b>6,40,29,715</b>

(5)

*S. S.*  
(Petitioner)

**Summary of issue involved in the petition**

**PART 1  
FORM-T**

<b>Name of the Company :</b>		<b>NTPC Limited</b>				
<b>Name of the Power Station :</b>		<b>Feroze Gandhi Unchahar Thermal Power Station Stage-I</b>				
<b>1</b>	<b>Petitioner:</b>	<b>NTPC Limited</b>				
<b>2</b>	<b>Subject</b>	<b>Determination of Tariff for 2019-24 period</b>				
<b>3</b>	<b>Prayer:</b>	i) Approve tariff of Feroze Gandhi Unchahar Thermal Power Station Stage-I 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) Allow reimbursement of Ash Transportation Charges directly from the beneficiaries quarterly on net basis.				
<b>4</b>	<b>Respondents</b>					
	<b>Name of Respondents</b>					
	a. Uttar Pradesh Power Corp. Ltd.	g. Punjab State Power Corporation Ltd.				
	b. Rajasthan Urja Vikas Nigam Limited	h. Himachal Pradesh State Electricity Board Ltd				
	c. Tata Power Delhi Distribution Ltd	i. Power Development Department (PDD-J&K)				
	d. BSES Rajdhani Power Ltd. (BRPL)	j. Electricity Department (Chandigarh)				
	e. BSES Yamuna Power Ltd.	k. Uttarakhand Power Corporation Ltd.				
	f. Haryana Power Purchase Centre					
<b>5</b>	<b>Project Scope</b>					
	<b>Capital Cost as on 01.04.2019</b>	97052.39				
	<b>Date of Takeover</b>	13-02-1992				
	<b>Claim</b>					
	<b>AFC (Rs Lakhs)</b>	<b>2019-20</b>	<b>2020-21</b>	<b>2021-22</b>	<b>2022-23</b>	<b>2023-24</b>
		28,153.93	28,634.10	29,276.33	29,956.70	30,662.10
	<b>Capital Cost as on 01.04.2019</b>	97052.39				
	<b>Initial spare</b>	N/A				
	<b>NAPAF (Gen)</b>	85%				
	<b>Any Specific</b>					

  
 Petitioner

(52)