

Petition No :



A Maharatna Company

Sipat STPS Stage-II

2X500 MW

**TARIFF PETITION 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 ***Sipat Super Thermal Power Station Stage-II (2x500 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

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 ***Sipat Super Thermal Power Station Stage-II(2x500 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. Madhya Pradesh Power Management Company Limited,
Shakti Bhawan, Vidyut Nagar,
Jabalpur 482 008
2. Maharashtra State Electricity Distribution Co Ltd.
Prakashgad, Bandra (East),
Mumbai 400 051
3. Gujarat UrjaVikas Nigam Ltd.(GUVNL)
Vidyut Bhavan, Race Course
Vadodara – 390 007
4. Chattisgarh State Power Distribution Co. Ltd.,
P.O. Sundar Nagar,
Danganiya, Raipur – 492013
- 5 Government of Goa,
Electricity Department, VidyutBhawan,
Panaji, Goa

(1)



6 Electricity Department,
Administration of Daman & Diu
Daman-396 210

7 Electricity Department,
Administration of Dadra & Nagar Haveli,
Silvasa.

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. Sipat Super Thermal Power Station Stage – II (2x500 MW) (hereinafter referred to as SIPAT-II) is one such station located in the State of Madhya Pradesh. The power generated from SIPAT-II 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.

For

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 SIPAT-II for the period from 01.04.2019 to 31.03.2024 as per the Tariff Regulations 2019.

6) The tariff of the SIPAT-II for the tariff period 1.4.2014 to 31.3.2019 was determined by the Hon'ble Commission vide its order dated 21.03.2017 in Petition No. 322/GT/2014 in accordance with the CERC (Terms & Conditions of Tariff) Regulations 2014. The petitioner vide affidavit dated 07.01.2020 had filed a separate true up petition for the period from 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 21.03.2017 in Petition no 322/GT/2014 has allowed a capital cost of Rs 4331.2032 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. 4331.6473 Crs based on the actual expenditure after truing up exercise for the period 2014-19. Accordingly, the Petitioner has adjusted an amount of Rs. (+) 0.44 Cr to 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. 4331.6473 Crs. 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 expenditure claimed in the instant petition is based on the opening capital cost as on 01.04.2019 considered as above and capital expenditures for the period 2019-24 have been projected based on the Regulation 19 and Regulation 25 and 26 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. Accordingly, water charges may be allowed in tariff based on the same for the 2019-24. 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	Coal based Thermal Power Plant
Type of cooling water system	Closed Circuit Cooling System
Consumption of Water#	78.38 MCM
Rate of Water charges*	Rs 12.25/Cubic Meter
Total Water Charges*	3821.64 Lakh

*As per truing up petition filed for the instant station

- 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.

Page

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 MOEF vide notification dated 07.12.2015 as amended. Completion of these schemes in compliance of revised emission norms will effect the station APC, Heat Rate , O&M expenses etc. In addition the availability of the unit/ station would be also 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 for sharing of transportation cost of Fly Ash generated at power stations with the users of Fly Ash. 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 trueing –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 2017-18 and 2018-19 in the true-up petition filed vide affidavit dated 07.01.2020 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 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.
- 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.

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- 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 31.3.2014 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 SIPAT-II 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.
- iv) Pass any other order as it may deem fit in the circumstances mentioned above.


Petitioner

New Delhi
28.01.2020

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 ***Sipat Super Thermal Power Station Stage-II (2x500 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. Madhya Pradesh Power Management
Company Limited,
Shakti Bhawan, Vidyut Nagar,
Jabalpur 482 008 and Others

AFFIDAVIT

I, Sachin Jain, son of Shri S. S Jain aged about 41 years, resident of Flat no 2302, Ashoka Enclave Plot 8 A Sector-11, Dwarka, New Delhi-110075 do solemnly affirm and state as under:

1. That I am the Deputy General Manager (Commercial) in NTPC Ltd. and am well conversant with the facts of the case and am competent to swear the present affidavit.
2. That I have read the contents of the accompanying Petition filed by NTPC and have understood the contents of the same.



Sachin Jain

(8)

3. That the contents of the accompanying Petition being filed by NTPC are based on information available with the petitioner in the normal course of business and believed by the deponent to be true.

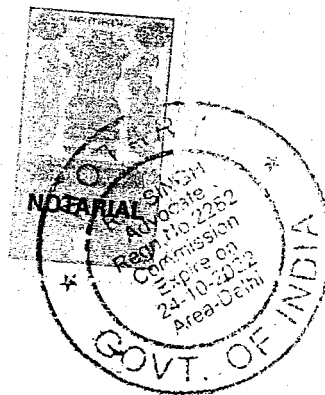
Sachin Jain
(Deponent)

Verification:

I, Sachin Jain 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 therefrom.

Verified at New Delhi on this day of January 2020.

Sachin Jain
(Deponent)



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

[Signature]
Notary Public, DELHI

28 JAN 2020

TARIFF FILING FORMS (THERMAL)

FOR DETERMINATION OF TARIFF

FOR

Sipat Super Thermal Power Station Stage-II

(From 01.04.2019 to 31.03.2024)

PART-I

ANNEXURE-I

Page

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	NA
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	✓
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	
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

[Handwritten 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.	NA
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	NA
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

** At the time of truing up

P. J. S.

PART-I
FORM- 1

Summary of Tariff

Name of the Petitioner:		NTPC Limited												
Name of the Generating Station:		Sipat Super Thermal Power Station Stage-II												
Place (Region/District/State):		Western Region/Bilaspur/ Chattisgarh												
S. No.	Particulars	Unit	Existing 2018-19						Amount in Rs. Lakhs					
			4	5	6	7	8	9	2020-21	2021-22	2022-23	2023-24		
1	2	3												
1.1	Depreciation	Rs Lakh	22.133.53	22.154.72	22.175.16	9.022.75	9.022.75	9.022.75	9.022.75	9.065.65				
1.2	Interest on Loan	Rs Lakh	7.373.57	5.560.76	3.680.06	2.324.53	1.540.18	1.540.18	1.540.18	792.09				
1.3	Return on Equity	Rs Lakh	25.672.02	24.429.64	24.452.18	24.452.18	24.452.18	24.452.18	24.452.18	24.480.35				
1.4	Interest on Working Capital	Rs Lakh	6.885.31	4.688.79	4.712.06	4.542.68	4.582.04	4.582.04	4.582.04	4.621.54				
1.5	O&M Expenses	Rs Lakh	26.491.64	27453.48	28411.04	29404.31	30433.50	30433.50	30433.50	31488.81				
1.6	Special Allowance (If applicable)	Rs Lakh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
1.7	Compensation Allowance (If applicable -- relevant for column 4 only)	Rs. Lakh	0.00											
	Total	Rs Lakh	88556.07	84287.39	83430.50	69746.45	70030.65	70030.65	70030.65	70448.43				
2.1	Landed Fuel Cost (coal/gas/RLNG/ liquid) as per FSA approved by beneficiaries	Rs/Ton												
	(%) of Fuel Quantity	(%)												
2.2	Landed Fuel Cost Imported Coal as per FSA approved by beneficiaries													
	(%) of Fuel Quantity													
2.3	Landed Fuel Cost (coal/gas /RLNG/liquid) other than FSA	Rs/Ton												
	(%) of Fuel Quantity	(%)												
2.4	Landed Fuel Cost Imported Coal other than FSA.													
	(%) of Fuel Quantity													
2.5	Secondary fuel oil cost	Rs/Unit								0.028				
	Energy Charge Rate ex-bus (Paise/kWh) 2A.	Rs/Unit								1.270				
	2B, 2C, 2D													

1869.33

(13)

[Signature]
(Petitioner)

Name of the Petitioner: NTPC Limited

Name of the Generating Station: Sipat Super Thermal Power Station Stage-II

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	4,33,164.73	4,33,964.73	4,33,964.73	4,33,964.73	4,33,964.73
2	Add: Addition during the year/period	800.00	-	-	-	1,000.00
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	4,33,964.73	4,33,964.73	4,33,964.73	4,33,964.73	4,34,964.73
7	Average Capital Cost	4,33,564.73	4,33,964.73	4,33,964.73	4,33,964.73	4,34,464.73

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	433164.73	433964.73	433964.73	433964.73	433964.73
2	Add: Addition during the year / period	800.00	0.00	0.00	0.00	1000.00
3	Less: De-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00
4	Less: Reversal during the year / period	0.00	0.00	0.00	0.00	0.00
5	Add: Discharges during the year / period	0.00	0.00	0.00	0.00	0.00
6	Closing Capital Cost	433964.73	433964.73	433964.73	433964.73	434964.73
7	Average Capital Cost	433564.73	433964.73	433964.73	433964.73	434464.73

**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 / period	0.00	0.00	0.00	0.00	0.00
3	Less: De-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00
4	Less: Reversal during the year / period	0.00	0.00	0.00	0.00	0.00
5	Add: Discharges during the year / period	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	Average Capital Cost	0.00	0.00	0.00	0.00	0.00

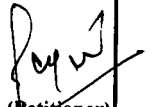
P. J. N.
(Petitioner)

Name of the Petitioner: NTPC Limited

Name of the Generating Station: Sipat Super Thermal Power Station Stage-II

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)	1,29,949.42	1,30,189.42	1,30,189.42	1,30,189.42	1,30,189.42
2	Less: Adjustment in Opening Equity	-				
3	Adjustment during the year		0.00	0.00	0.00	0.00
4	Net Opening Equity (Normal)	1,29,949.42	1,30,189.42	1,30,189.42	1,30,189.42	1,30,189.42
5	Add: Increase in equity due to addition during the year / period	240.00	0.00	0.00	0.00	300.00
7	Less: Decrease due to De-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00
8	Less: Decrease due to reversal during the year / period	0.00	0.00	0.00	0.00	0.00
9	Add: Increase due to discharges during the year / period	0.00	0.00	0.00	0.00	0.00
10	Net closing Equity (Normal)	1,30,189.42	1,30,189.42	1,30,189.42	1,30,189.42	1,30,489.42
11	Average Equity (Normal)	1,30,069.42	1,30,189.42	1,30,189.42	1,30,189.42	1,30,339.42
12	Rate of ROE (%)	18.782	18.782	18.782	18.782	18.782
13	Total ROE	24,429.64	24,452.18	24,452.18	24,452.18	24,480.35


(Petitioner)

Name of the Petitioner: NTPC Limited

Name of the Generating Station: Sipat Super Thermal Power Station Stage-II

Statement showing Return on Equity at Normal Rate

Amount in Rs. Lakhs

S. No.	Particulars	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)	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 / period	0.00	0.00	0.00	0.00	0.00
7	Less: Decrease due to De-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00
8	Less: Decrease due to reversal during the year / period	0.00	0.00	0.00	0.00	0.00
9	Add: Increase due to discharges during the year / period	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 (%)	10.426	10.432	10.376	10.297	10.178
13	Total ROE	0.00	0.00	0.00	0.00	0.00


 (Petitioner)

Plant Characteristics

Name of the Petitioner	NTPC Limited	
Name of the Generating Station	Sipat Super Thermal Power Station Stage-II	

Unit(s)/Block(s)/Parameters	Unit-I	Unit-II
Installed Capacity (MW)	500	500
Schedule COD as per Investment Approval		
Actual COD /Date of Taken Over (as applicable)	20-Jun-08	1-Jan-09
Pit Head or Non Pit Head	Pit Head	Pit Head
Name of the Boiler Manufacture	BHEL	BHEL
Name of Turbine Generator Manufacture	BHEL	BHEL

Main Steams Pressure at Turbine inlet (kg/Cm ²) abs ¹ .		
Main Steam Temperature at Turbine inlet (°C) ¹		
Reheat Steam Pressure at Turbine inlet (kg/Cm ²) ¹		
Reheat Steam Temperature at Turbine inlet (°C) ¹		
Main Steam flow at Turbine inlet under MCR condition (tons /hr) ²		
Main Steam flow at Turbine inlet under VWO condition (tons /hr) ²		
Unit Gross electrical output under MCR /Rated condition (MW) ²		
Unit Gross electrical output under VWO condition (MW) ²		
Guaranteed Design Gross Turbine Cycle Heat Rate (kCal/kWh) ³		

Conditions on which design turbine cycle heat rate guaranteed(kcal/kwhr)		
% MCR		
% Makeup Water Consumption	NA	
Design Capacity of Make up Water System(% of throttle steam flow)		
Design Capacity of Inlet Cooling System		
Design Cooling Water Temperature (°C)		
Back Pressure(Average condenser pressure in mmHg(A))		
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 (%) ⁴		
Design Fuel with and without Blending of domestic/imported coal		
(GCV) Domestic Design coal		
Blended Coal (Domestic Design 70%+ Imported 30%)		

Type of Cooling Tower	Induced draught type Cooling tower	
Type of cooling system ⁵	Open Recirculating type Cooling water system	
Type of Boiler Feed Pump ⁶	2X50%TDBFP & 1X50% MDBFP	2X50%TDBFP & 1X50% MDBFP

Fuel Details ⁷		
-Primary Fuel	Coal	
-Secondary Fuel	LDO	
-Alternate Fuels		

Special Features/Site Specific Features ⁸		
Special Technological Features ⁹		

Environmental Regulation related features ¹⁰	1. ESP is provided 2.FGD under implementation	1. ESP is provided 2.FGD under implementation
Any other special features		

- 1: At Turbine MCR condition.
 2: with 0% (Nil) make up and design Cooling water temperature
 3: at TMCR output based on gross generation, 0% (Nil) makeup and design Cooling water temperature.
 4: With Performance coal based on Higher Heating Value (HHV) of fuel and at BMCR) out put
 5: Closed circuit cooling, once through cooling, sea cooling, natural draft cooling, induced draft cooling etc.
 6: Motor driven, Steam turbine driven etc.
 7: Coal or natural gas or Naptha or lignite etc.
 8: Any site specific feature such as Merry-Go-Round, Vicinity to sea, Intake /makeup water systems etc. scrubbers etc. Specify all such features
 9: Any Special Technological feature like Advanced class FA technology in Gas Turbines, etc.
 10: Environmental Regulation related features like FGD, ESP etc.,

[Signature]
(PETITIONER)

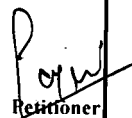
Normative parameters considered for tariff computations

Name of the Petitioner:		NTPC Limited					
Name of the Generating Station:		Sipat Super Thermal Power Station Stage-II					
(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** \$\$	%	-	8.604	8.609	8.563	8.498	8.399
Effective Tax Rate	%	21.5490	17.4720	17.4720	17.4720	17.4720	17.4720
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	%	5.75	6.25	6.25	6.25	6.25	6.25
Gross Station Heat Rate	kCal/kWh	2375.00	2390.00	2390.00	2390.00	2390.00	2390.00
Specific Fuel Oil Consumption	ml/kWh	0.50	0.50	0.50	0.50	0.50	0.50
Cost of Coal/Lignite for WC1	in Days	45	40	40	40	40	40
Cost of Main Secondary Fuel Oil for WC1	in Months	2	2	2	2	2	2
Fuel Cost for WC2	in Months						
Liquid Fuel Stock for WC2	in Months						
O&M Expenses	Rs lakh/MW	0	22.51	23.3	24.12	24.97	25.84
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	759000	759000	759000	759000	759000	759000
SBI 1 Year MCLR plus 350 basis point ³	%	13.50	12.05	12.05	12.05	12.05	12.05
Blending ratio of domestic coal/imported coal							

** 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

The Storage capacity indicated pertains to Sipat STPS



Petitioner

(18)

Calculation of O&M Expenses

Name of the Company : NTPC Limited

Name of the Power Station : Sipat Super Thermal Power Station Stage-II

Amount in Rs. Lakhs


S.No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	7	8
1	O&M expenses under Reg.35(1)					
1a	Normative	22510.00	23300.00	24120.00	24970.00	25840.00
2	O&M expenses under Reg.35(6)					
2a	Water Charges	3955.40	4093.84	4237.12	4385.42	4538.91
2b	Secutiry expenses	988.08	1017.20	1047.19	1078.08	1109.90
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
	Total O&M Expenses	27453.48	28411.04	29404.31	30433.50	31488.81

** Shall be provided at the time of truing up

[Signature]
Petitioner

(19)

Abstract of Admitted Capital Cost for the existing Projects

Name of the Company :	NTPC Limited	
Name of the Power Station :	Sipat Super Thermal Power Station Stage-II	
Last date of order of Commission for the project	Date (DD-MM-YYYY)	21.03.2017
Reference of petition no. in which the above order was passed	Petition no.	322/GT/2014
Following details (whether admitted and /or considered) as on the last date of the period for which tariff is approved, in the above order by the Commission:		
Capital cost	(Rs. in lakh)	433120.32
Amount of un-discharged liabilities included in above (& forming part of admitted capital cost)		0.00
Amount of un-discharged liabilities corresponding to above admitted capital cost (but not forming part of admitted capital cost being allowed on cash basis)		4255.86
Gross Normative Debt		303184.22
Cumulative Repayment		226930.94
Net Normative Debt		76253.28
Normative Equity		129936.1
Cumulative Depreciation		2,27,770.72
Freehold land		5171.63
 (Petitioner)		

(20)

Abstract of Claimed Capital Cost for the existing Projects

Name of the Company :	NTPC Limited
Name of the Power Station :	Sipat Super Thermal Power Station Stage-II

Reference of Final True-up Tariff Petition	Affidavit dated	
Capital Cost as on 31.03.2019 as per Hon'ble Commission's Order dated 21.03.2017 In Pet. No.322/GT/2014	Rs. Lakhs	433120.32
Adjustment as per Para (7) of this petition		44.41
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 01.04.2019	(Rs. in lakh)*	433164.73
Amount of un-discharged liabilities included in above (& forming part of admitted capital cost)		0
Amount of un-discharged liabilities corresponding to above admitted capital cost (but not forming part of admitted capital cost being allowed on cash basis)		1301.40695
Gross Normative Debt		3,03,215.31
Cumulative Repayment		2,27,786.31
Net Normative Debt		75,427.99
Normative Equity		1,29,949.42
Cumulative Depreciation		2,28,853.73
Freehold land		5,212.10


(Petitioner)

(21)

Form 8- Domestic Bonds- Details of Allocation of corporate loans to various projects

Particulars	<u>XXII 8.1771%</u>	<u>XXIII 8.3796%</u>	<u>XXVII 11.25%</u>
Source of Loan ¹	BONDS	BONDS	BONDS
Currency ²	INR	INR	INR
Amount of Loan sanctioned	50000	50000	35000
Interest Type ⁶	Fixed	Fixed	Fixed
Fixed Interest Rate, if applicable	8.1771%	8.3796%	11.250%
Base Rate, if Floating Interest ⁷	N/A	N/A	N/A
Margin, if Floating Interest ⁸	N/A	N/A	N/A
Are there any Caps/Floor ⁹	No	No	No
If above is yes,specify caps/floor			
Moratorium Period ¹⁰	4.5 yrs *	4.5 yrs *	11 yrs
Moratorium effective from #	02.01.07	05.02.07	06.11.2008
Repayment Period ¹¹	9.5 yrs	9.5 yrs	5 yrs
Repayment effective from	02.07.11	05.08.11	06.11.19
Repayment Frequency ¹²	Half Yearly	Half Yearly	Yearly
Repayment Instalment ^{13,14}	2500	2500	7000
Base Exchange Rate ¹⁶			
Door to Door Maturity	14 yrs	14 yrs	15 yrs
Name of the Projects			
SIPAT II	4,200	6,800	3,000

(22)

Jaw

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

DRAWAL NO.

BP NO 5050000241

T00001

D00001

Unsecured Loan From LIC-III		
Source of Loan :	LIC-III	
Currency :	INR	
Amount of Loan :	40,00,00,00,000	
Total Drawn amount :	5,00,00,00,000	
Date of Drawal	22.03.2004	
Interest Type :	Fixed	
Fixed Interest Rate :	6.571%	
Base Rate, If Floating Interest		
Margin, If Floating Interest :		
Are there any Caps/ Floor :	Y/N	
Frequency of Intt. Payment	Half Yearly	
If Above is yes, specify Caps/ Floor :		
Moratorium Period :		
Moratorium effective from :		
Repayment Period (Inc Moratorium) :		
Repayment Frequency :		
Repayment Type :		
First Repayment Date :		
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	TALCHER-II	90,00,00,000.00
	RAMAGUNDAM-III	50,00,00,000.00
	KOLDAM	1,30,00,00,000.00
	VINDHYACHAL-III	80,00,00,000.00
	KAHALGAON-II	85,00,00,000.00
	SIPAT-II	35,00,00,000.00
	SIPAT-I	10,00,00,000.00
	UNCHAHAAR-III	15,00,00,000.00
	RGCCPP	5,00,00,000.00
Total Allocated Amount		5,00,00,00,000.00

(23)

parvi

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000141

T00001

D00002

Unsecured Loan From State Bank of India - VI		
Source of Loan :	State Bank of India - VI	
Currency :	INR	
Amount of Loan :	15,75,00,00,000	
Total Drawn amount :	3,00,00,00,000	
Date of Drawl	22.09.2009	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	8.25%	
Margin, If Floating Interest :		
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 :	14.05.2009	
Repayment Period (Inc Moratorium) :	10 Years	
Repayment Frequency :	14 Half Yearly	
Repayment Type :	AVG	
First Repayment Date :	30.09.2012	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	KAHALGAON-II	1,30,00,00,000.00
	SIMHADRI-II	40,00,00,000.00
	SIMHADRI-II	60,00,00,000.00
	SIPAT-II	50,00,00,000.00
	KOLDAM	20,00,00,000.00
Total Allocated Amount		3,00,00,00,000.00

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Page

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000141

T00001

D00003

Unsecured Loan From State Bank of India - VI		
Source of Loan :	State Bank of India - VI	
Currency :	INR	
Amount of Loan :	15,75,00,00,000	
Total Drawn amount :	2,00,00,00,000	
Date of Drawl	28.09.2010	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	8.25%	
Margin, If Floating Interest :		
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 :	14.05.2009	
Repayment Period (Inc Moratorium) :	10 Years	
Repayment Frequency :	14 Half Yearly	
Repayment Type :	AVG	
First Repayment Date :	30.09.2012	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	NCTPP-DADRI-II	65,00,00,000.00
	SIPAT-II	1,35,00,00,000.00
Total Allocated Amount		2,00,00,00,000.00

(25)

Pam

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000141

T00001

D00004

Unsecured Loan From State Bank of India - VI		
Source of Loan :	State Bank of India - VI	
Currency :	INR	
Amount of Loan :	15,75,00,00,000	
Total Drawn amount :	3,00,00,00,000	
Date of Drawl	11.10.2010	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	8.25%	
Margin, If Floating Interest :		
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 :	14.05.2009	
Repayment Period (Inc Moratorium) :	10 Years	
Repayment Frequency :	14 Half Yearly	
Repayment Type :	AVG	
First Repayment Date :	30.09.2012	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	SIPAT-II	70,00,00,000.00
	BONGAIGAON	30,00,00,000.00
	MAUDA	50,00,00,000.00
	RIHAND-III	75,00,00,000.00
	VINDHYANCHAL-IV	75,00,00,000.00
	Total Allocated Amount	3,00,00,00,000.00

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Payor

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000141

T00001

D00005

Unsecured Loan From State Bank of India - VI		
Source of Loan :	State Bank of India - VI	
Currency :	INR	
Amount of Loan :	15,75,00,00,000	
Total Drawn amount :	2,25,00,00,000	
Date of Drawl	11.12.2010	
Interest Type :	Floating	
Fixed Interest Rate :		
Base Rate, If Floating Interest	8.25%	
Margin, If Floating Interest :		
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 :	14.05.2009	
Repayment Period (Inc Moratorium) :	10 Years	
Repayment Frequency :	14 Half Yearly	
Repayment Type :	AVG	
First Repayment Date :	30.09.2012	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BONGAIGAON	25,00,00,000.00
	BARH-II	35,00,00,000.00
	MAUDA	25,00,00,000.00
	PAKRI BARWADIH	40,00,00,000.00
	KORBA-III	20,00,00,000.00
	SIPAT-II	10,00,00,000.00
	KOLDAM	10,00,00,000.00
	SIMHADRI-II	20,00,00,000.00
	VINDHYACHAL IV	15,00,00,000.00
	RIHAND-III	25,00,00,000.00
Total Allocated Amount		2,25,00,00,000.00

(27)

Faru

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000261

T00001

D00001

Unsecured Loan From SBI-VII		
Source of Loan :	SBI-VII	
Currency :	INR	
Amount of Loan :	1,00,00,00,00,000	
Total Drawn amount :	5,00,00,00,00,000	
Date of draw :	08.07.2011	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest :	8.25%	
Margin, If Floating Interest :		
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.	
Project Code	Project Name	Amount
	BARH-II	2,00,00,00,000.00
	RIHAND-III	95,00,00,000.00
	VINDHYACHAL IV	45,00,00,000.00
	SIPAT-II	35,00,00,000.00
	SIMHADRI-II	35,00,00,000.00
	MAUDA	90,00,00,000.00
Total Allocated Amount		5,00,00,00,000.00

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Papari

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000442

T00001

D00024

Unsecured Loan From SBI-VIII		
Source of Loan :	SBI-VIII	
Currency :	INR	
Amount of Loan :	1,00,00,00,00,000	
Total Drawn amount :	11,50,00,00,00,000	
Date of Drawl	14.02.2017	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	8.25%	
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 :	6 Years	
Moratorium effective from :	14.02.2017	
Repayment Period (Inc Moratorium) :	15 Years	
Repayment Frequency :	9 Yearly Installments	
Repayment Type :	AVG	
First Repayment Date :	31.01.2022	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	BARH-I	3,00,00,00,000
	BONGAIGAON	34,28,57,142
	FARAKKA III	14,28,57,141
	GADARWARA	2,50,00,00,000
	KOLDAM	92,85,71,427
	KORBA-III	2,85,71,428
	KUDGI	1,00,00,00,000
	MOUDA-I	40,71,42,856
	NCTPP-II	15,71,42,855
	NORTH KARANPURA	1,00,00,00,000
	RIHAND-III	32,14,28,570
	SIMHADRI-II	53,28,57,141
	SIPAT-I	21,42,85,711
	SIPAT-II	5,71,42,856
	TAPOVAN VISHNUGAD	50,00,00,000
	VINDHYACHAL IV	32,42,85,714
	PAKRI BARWADIH	4,28,57,159
Total Allocated Amount		11,50,00,00,000

Fajri

(29)

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5070000011

T00001

D00031

Unsecured Loan From PFC-V		
Source of Loan :	PFC-V	
Currency :	INR	
Amount of Loan :	1,00,00,00,00,000	
Total Drawn amount :	4,00,00,00,00,000	
Date of Drawl	24.09.2011	
Interest Type :	Floating	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	7.44%	
Margin, If Floating Interest :		
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
	KOLDAM	58,00,00,000.00
	TAPOVAN VISHNUGAD	15,00,00,000.00
	FARAKKA-III	48,00,00,000.00
	SIPAT-I	1,20,00,00,000.00
	NCTPP-II	37,00,00,000.00
	BARH-II	40,00,00,000.00
	KORBA-III	62,00,00,000.00
	KAHALGAON-II	15,00,00,000.00
	SIPAT-II	5,00,00,000.00
Total Allocated Amount		4,00,00,00,000.00

(30)

Pajw

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5070000011

T00001

D00033

Unsecured Loan From PFC-V		
Source of Loan :	PFC-V	
Currency :	INR	
Amount of Loan :	1,00,00,00,00,000	
Total Drawn amount :	5,00,00,00,00,000	
Date of Drawl	31.12.2011	
Interest Type :	Fixed with Reset after every 3 Years	
Fixed Interest Rate :	-----	
Base Rate, If Floating Interest	7.83%	
Margin, If Floating Interest :		
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
	SIPAT-I	90,00,00,000.00
	BARH-I	65,00,00,000.00
	BARH-II	80,00,00,000.00
	MOUDA-I	47,00,00,000.00
	BONGAIGAON	25,00,00,000.00
	RIHAND-III	38,00,00,000.00
	FARAKKA-III	1,31,00,00,000.00
	KORBA-III	7,00,00,000.00
	SIPAT-II	4,00,00,000.00
	KAHALGAON-II	8,00,00,000.00
	UNCHA HAR R&M	5,00,00,000.00
Total Allocated Amount		5,00,00,00,000.00

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Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000711

T00001

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Unsecured Loan From Punjab National Bank-III		
Source of Loan :	Punjab National Bank-III	
Currency :	INR	
Amount of Loan :	20,00,00,00,000	
Total Drawn amount :	20,00,00,00,000	
Date of Drawl	01.01.2019	
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 :	01.01.2019	
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.	
Project Code	Project Name	Amount
	UNCHA HAR STPP IV	65,00,00,000.00
	TANDA-II	85,00,00,000.00
	NCTPP-II	36,43,00,000.00
	DADRI GAS R&M	56,00,00,000.00
	KORBA-III	15,00,00,000.00
	SIPAT-II	17,14,00,000.00
	FARAKKA-III	8,57,00,000.00
	KAHALGAON-II	17,14,00,000.00
	BARH-I	1,08,57,00,000.00
	BARH-II	8,00,00,000.00
	NORTH KARANPURA	1,09,00,00,000.00
	KOLDAM	6,43,00,000.00
	TAPOVAN VISHNUGAD	28,57,00,000.00
	PAKRI BARWADIH	1,42,00,00,000.00
	CHATTI BARIATU	10,00,00,000.00
	BONGAIGAON	36,43,00,000.00
	KUDGI	60,00,00,000.00
	LARA	1,23,00,00,000.00
	GADARWARA	2,27,72,00,000.00
	DARLIPALLI	2,73,00,00,000.00
	KHARGONE	50,00,00,000.00
	ANANTPUR SOLAR	17,00,00,000.00
	TALAIPALI COAL MINE	5,00,00,00,000.00
Total Allocated Amount		20,00,00,00,000.00

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[Signature]

Statement Giving Details of Project Financed through a Combination of loan

Form 8

TRANCHE NO

BP NO 5050000721

T00001

D00001

Unsecured Loan From Corporation Bank-IV		
Source of Loan :	Corporation Bank-IV	
Currency :	INR	
Amount of Loan :	20,00,00,00,000	
Total Drawn amount :	20,00,00,00,000	
Date of Drawal:	11.01.2019	
Interest Type :	Floating	
Fixed Interest Rate :	8.25%	
Base Rate, If Floating Interest	-	
Margin, If Floating Interest :	-	
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 :	11.01.2019	
Repayment Period (Inc Moratorium) :	12 Years	
Repayment Frequency :	9 Yearly Instalments	
Repayment Type :	AVG	
First Repayment Date :	11-Jan-23	
Base Exchange Rate :	RUPEE	
Date of Base Exchange Rate :	N.A.	
Project Code	Project Name	Amount
	SINGRAULI 8MW HYDRO	8,75,00,000
	FARIDABAD SOLAR PV	8,75,00,000
	SINGRAULI SOLAR	8,75,00,000
	FARAKKA III	11,42,85,716
	RAJGARH SOLAR	13,12,50,000
	NCTPP-II	14,28,57,139
	GANDHAR R&M	16,60,71,436
	SIMHADRI-II	23,21,42,855
	SIPAT-I	23,43,75,000
	MOUDA-II	50,00,00,000
	VINDHYACHAL-V	1,00,00,00,000
	SIPAT-II	1,01,07,14,287
	MOUDA-I	1,05,44,64,284
	RIHAND-III	1,22,85,71,426
	VINDHYACHAL-IV	2,45,00,00,000
	KOLDAM	2,71,51,78,577
	BARH-II	6,75,75,89,280
	KUDGI	2,00,00,00,000
	Total Allocated Amount	20,00,00,00,000

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(23)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited			
Name of the Generating Station	Sipat Super Thermal Power Station Stage-II			
COD	01-01-2009			
For Financial Year	2019-24 (Summary)			

Sl. No.	Head of Work /Equipment	ACE Claimed (Actual / Projected)					Regulation under which claimed	Amount in Rs Lakh Admitted Cost by the Commission, if any
		2019-20	2020-21	2021-22	2022-23	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	Ash Dyke Works	800.00	0	0	1000		25(1)(C)& 25(1)(E)	
	Total (A)	800.00	-	-	1,000.00			
B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest								
1		-	-	-	-			
	Total (B)	-	-	-	-			
	Total Add. Cap. Claimed (A+B)	800.00	-	-	1,000.00			

P. W.
(Petitioner)

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Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited	
Name of the Generating Station	Sipat Super Thermal Power Station Stage-II	
COD	01-01-2009	
For Financial Year	2019-20	

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 included in col. 3	Un-discharged Liability included in col. 3	Cash basis included in col. 3				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	Ash Dyke Works	800.00	0	800	0	25(1)(C)& 25(1)(E)	This is part of ongoing raising work of existing ash dyke and is within the original scope. As the existing capacity of ash dyke is envisaged to get exhausted accordingly, the raising of the ash dyke is necessarily required for increasing its capacity for further disposal of ash generated from the instant station for sustained operation. Hon'ble Commission may pleased to allow the same.	
Total (A)		800.00	-	800.00	-			
B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest								
6								
Total (B)								
Total Add. Cap. Claimed (A+B)		800.00	-	800.00	-			

[Signature]
(Petitioner)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited	
Name of the Generating Station	Sipat Super Thermal Power Station Stage-II	
COD	01-01-2009	
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
A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate								
1				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								
6								
Total (B)		-	-	-	-			
Total Add. Cap. Claimed (A+B)		-	-	-	-			

P. W.
(Petitioner)

(36)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited	
Name of the Generating Station	Sipat Super Thermal Power Station Stage-II	
COD	01-01-2009	
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 included in col. 3	Un-discharged Liability included in col. 3	Cash basis included in col. 3				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								
2								
3								
Total (A)								

NA

B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest								
1								
2								
3								
Total (B)								
Total Add. Cap. Claimed (A+B)								

NA

[Signature]
(Petitioner)

(-37)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited		
Name of the Generating Station	Sipat Super Thermal Power Station Stage-II		
COD	01-01-2009		
For Financial Year	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			
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							
								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							
	Total (B)	-	-	-	-	-	-	-
	Total Add. Cap. Claimed (A+B)	-	-	-	-	-	-	-

P. Singh
(Petitioner)

(38)

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited	
Name of the Generating Station	Sipat Super Thermal Power Station Stage-II	
COD	01-01-2009	
For Financial Year	2023-24	

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
A. Works under Original scope, Change in Law etc. eligible for RoE at Normal Rate								
1	Ash Dyke Works	1,000.00		1,000.00		25(1)(C)& 25(1)(E)	As per the justification made in for 9 for 2019-20	
2								
	Total (A)	1,000.00	-	1,000.00	-			
B. Works beyond Original scope excluding add-cap due to Change in Law eligible for RoE at Wtd. Average rate of Interest								
6								
7								
	Total (B)	-	-	-	-			
	Total Add. Cap. Claimed (A+B)	1,000.00	-	1,000.00	-			

[Signature]
(Petitioner)

(229)

Name of the Petitioner: **NTPC Limited**
 Name of the Generating Station: **Sipat Super Thermal Power Station Stage-II**
 Date of Commercial Operation: **01-01-2009**

Financial Year (Starting from COD)1	Actual					Amount in Rs Lakh 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	Amount in Rs Lakh
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


(Petitioner)

Calculation of Depreciation

Name of the Company : NTPC Limited
Name of the Power Station : Sipat Super Thermal Power Station Stage-II

(Amount in Rs Lakh)

Sl.No.	Name of the Assets ¹	Gross Block as on 31.04.2019 as on COD	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount for each year up to 31.03.24
1	2	3	4	5= Col.3 X Col.4
1	Land- Free Hold	5382.94	0.00%	0.00
2	Land- Lease Hold	1894.19	3.34%	63.27
3	Land- Right Of Use	47.06	3.34%	1.57
4	Plant & Machinery	340987.57	5.28%	18004.14
5	Cooling Toters&CW System.	9280.51	5.28%	490.01
6	Air conditioning.	932.44	5.28%	49.23
7	Chimney	3091.24	5.28%	163.22
8	Main Plant Building	29495.26	3.34%	985.14
9	Service Building	5787.21	3.34%	193.29
10	S-Yard	7666.73	5.28%	404.80
11	Raw Water Reservoir	2922.30	5.28%	154.30
12	MGR	25563.32	5.28%	1349.74
13	Residential Bldg	8692.12	3.34%	290.32
14	Road/Bridge	4429.61	3.34%	147.95
15	Water Supply	1700.73	5.28%	89.80
16	Locomotive	4456.38	9.50%	423.36
17	Wagons	2447.33	5.28%	129.22
18	Spares	12093.91	5.28%	638.56
19	Furniture & Fixtures,OFFICE EQU	2242.98	6.33%	141.98
20	Communication Equip.	194.06	6.33%	12.28
21	EDP,WP&SATCOM.	853.79	15.00%	128.07
22	VEHICLES	29.34	9.50%	2.79
23	Construction equip.	1061.83	5.28%	56.06
24	Temp.Constructions.	170.36	100.00%	170.36
	TOTAL	471423.20		24089.46
	Weighted Average Rate of Depreciation (%)			5.10990

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Statement of Depreciation

Name of the Company :		NTPC Limited							
Name of the Power Station :		Sipat Super Thermal Power Station Stage-II							
S. No.	Particulars	Existing 2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	(Amount in Rs Lakh)	
1	2	3	4	5	6	7	8		
1	Opening Capital Cost	433050.41	4,33,164.73	4,33,964.73	4,33,964.73	4,33,964.73	4,33,964.73		
2	Closing Capital Cost	433164.73	4,33,964.73	4,33,964.73	4,33,964.73	4,33,964.73	4,33,964.73		
3	Average Capital Cost	433107.57	4,33,564.73	4,33,964.73	4,33,964.73	4,33,964.73	4,33,964.73		
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	5,212.10	5,212.10	5,212.10	5,212.10	5,212.10	5,212.10		
5	Rate of depreciation	5.1104	5.1099	5.1099	5.1099	5.1099	5.1099		
6	Depreciable value	3,85,105.92	3,85,517.37	3,85,877.37	3,85,877.37	3,85,877.37	3,85,877.37		
7.	Balance useful life at the beginning of the period	15.49	14.49	13.49	12.49	11.49	10.49		
8	Remaining depreciable value	1,78,275.10	1,56,663.64	1,34,868.91	1,12,693.75	1,03,671.03	95,098.31		
9	Depreciation (for the period)	0.00	22,154.72	22,175.16	9,022.72	9,022.72	9,065.62		
10	Depreciation (annualised)		22,154.72	22,175.16	9,022.72	9,022.72	9,065.62		
11	Cumulative depreciation at the end of the period	22,133.53	22,154.72	22,175.16	9,022.72	9,022.72	9,065.62		
12	Less: Cumulative depreciation adjustment on account of un-discharged liabilities deducted as on 01.04.2009	0.00	2,51,008.45	2,73,183.62	2,82,206.34	2,91,229.05	3,00,294.67		
13	Less: Cumulative depreciation adjustment on account of de-capitalisation	111.00							
14	Net Cumulative depreciation at the end of the period after adjustments	2,28,853.73	2,51,008.45	2,73,183.62	2,82,206.34	2,91,229.05	3,00,294.67		

** shall be submitted at the time of true up

D. W.
(Petitioner)

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Sl. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
	2					
1	LIC of India-III -Consolidated					
	Gross loan - Opening	3500	3500	3500	3500	3500
	Cumulative repayments of Loans upto previous period	2450	2683	2917	3150	3383
	Net loan - Opening	1049.91	816.57	583.23	349.89	116.55
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE	0.00	0.00	0.00	0.00	0.00
	Total	1049.91	816.57	583.23	349.89	116.55
	Repayments of Loans during the period	233.34	233.34	233.34	233.34	116.55
	Net loan - Closing	816.57	583.23	349.89	116.55	0.00
	Average Net Loan	933.24	699.90	466.56	233.22	58.27
	Rate of Interest on Loan	6.5710%	6.5710%	6.5710%	6.5710%	6.5710%
	Interest on Loan (Annualised)	61.32	45.99	30.66	15.32	3.83
2	Bonds XXII Series					
	Gross loan - Opening	4200	4200	4200	4200	4200
	Cumulative repayments of Loans upto previous period	3360	3780	4200	4200	4200
	Net loan - Opening	840.00	420.00	0.00	0.00	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	840.00	420.00	0.00	0.00	0.00
	Repayments of Loans during the period	420.00	420.00	0.00	0.00	0.00
	Net loan - Closing	420.00	0.00	0.00	0.00	0.00
	Average Net Loan	630.00	210.00	0.00	0.00	0.00
	Rate of Interest on Loan	8.2071%	8.2071%	8.2071%	8.2071%	8.2071%
	Interest on Loan (Annualised)	51.70	17.23	0.00	0.00	0.00
3	Bonds XXIII Series					
	Gross loan - Opening	6800	6800	6800	6800	6800
	Cumulative repayments of Loans upto previous period	5440	6120	6800	6800	6800
	Net loan - Opening	1360.00	680.00	0.00	0.00	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	1360.00	680.00	0.00	0.00	0.00
	Repayments of Loans during the period	680.00	680.00	0.00	0.00	0.00
	Net loan - Closing	680.00	0.00	0.00	0.00	0.00
	Average Net Loan	1020.00	340.00	0.00	0.00	0.00
	Rate of Interest on Loan	8.4096%	8.4096%	8.4096%	8.4096%	8.4096%
	Interest on Loan (Annualised)	85.78	28.59	0.00	0.00	0.00
4	Bonds XXVII Series					
	Gross loan - Opening	3000	3000	3000	3000	3000
	Cumulative repayments of Loans upto previous period	0	600	1200	1800	2400
	Net loan - Opening	3000.00	2400.00	1800.00	1200.00	600.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	3000.00	2400.00	1800.00	1200.00	600.00
	Repayments of Loans during the period	600.00	600.00	600.00	600.00	600.00
	Net loan - Closing	2400.00	1800.00	1200.00	600.00	0.00
	Average Net Loan	2700.00	2100.00	1500.00	900.00	300.00
	Rate of Interest on Loan	11.2800%	11.2800%	11.2800%	11.2800%	11.2800%
	Interest on Loan (Annualised)	304.56	236.88	169.20	101.52	33.84
5	SBI VI					
	Gross loan - Opening	26500	26500	26500	26500	26500
	Cumulative repayments of Loans upto previous period	22714	26500	26500	26500	26500
	Net loan - Opening	3785.71	0.00	0.00	0.00	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00

NTPC
SIPAT-II

(In lakhs)

Sl. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
	2					
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	3785.71	0.00	0.00	0.00	0.00
	Repayments of Loans during the period	3785.71	0.00	0.00	0.00	0.00
	Net loan - Closing	0.00	0.00	0.00	0.00	0.00
	Average Net Loan	1892.86	0.00	0.00	0.00	0.00
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest on Loan (Annualised)	156.16	0.00	0.00	0.00	0.00
6	SBI-VII D-1					
	Gross loan - Opening	3500	3500	3500	3500	3500
	Cumulative repayments of Loans upto previous period	2000	2500	3000	3500	3500
	Net loan - Opening	1500.00	1000.00	500.00	0.00	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period					
	Total	1500.00	1000.00	500.00	0.00	0.00
	Repayments of Loans during the period	500.00	500.00	500.00	0.00	0.00
	Net loan - Closing	1000.00	500.00	0.00	0.00	0.00
	Average Net Loan	1250.00	750.00	250.00	0.00	0.00
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest on Loan (Annualised)	103	62	21	0	0
7	PFV V Total					
	Gross loan - Opening	900	900	900	900	900
	Cumulative repayments of Loans upto previous period	431	506	581	656	731
	Net loan - Opening	468.75	393.75	318.75	243.75	168.75
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period					
	Total	468.75	393.75	318.75	243.75	168.75
	Repayments of Loans during the period	75.00	75.00	75.00	75.00	75.00
	Net loan - Closing	393.75	318.75	243.75	168.75	93.75
	Average Net Loan	431.25	356.25	281.25	206.25	131.25
	Rate of Interest on Loan	7.6133%	7.6133%	7.6133%	7.6133%	7.6133%
	Interest on Loan (Annualised)	32.83	27.12	21.41	15.70	9.99
8	SBI VIII (Refinancing OBC on 14.02.2017 & Repayment starts from 30.01.2022 in 9Y installments)					
	Gross loan - Opening	571.43	571.43	571.43	571.43	571.43
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	63.49	126.98
	Net loan - Opening	571.43	571.43	571.43	507.94	444.44
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period					
	Total	571.43	571.43	571.43	507.94	444.44
	Repayments of Loans during the period	0.00	0.00	63.49	63.49	63.49
	Net loan - Closing	571.43	571.43	507.94	444.44	380.95
	Average Net Loan	571.43	571.43	539.68	476.19	412.70
	Rate of Interest on Loan	8.4500%	8.4500%	8.4500%	8.4500%	8.4500%
	Interest on Loan (Annualised)	48	48	46	40	35
9	PNB III (Refinancing ICICI IV on 01.01.2019 & Repayments starts from 01.02.2022 in 9Y installments) PNB_ICICI IV					
	Gross loan - Opening	1714.00	1714.00	1714.00	1714.00	1714.00
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	190.44	380.89
	Net loan - Opening	1714.00	1714.00	1714.00	1523.56	1333.11
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period					

Sl. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
	2					
	Total	1714.00	1714.00	1714.00	1523.56	1333.11
	Repayments of Loans during the period	0.00	0.00	190.44	190.44	190.44
	Net loan - Closing	1714.00	1714.00	1523.56	1333.11	1142.67
	Average Net Loan	1714.00	1714.00	1618.78	1428.33	1237.89
	Rate of Interest on Loan	8.3000%	8.3000%	8.3000%	8.3000%	8.3000%
	Interest on Loan (Annualised)	142	142	134	119	103
10	Corp IV (Refinancing ICICI V on 11.01.2019 & repayment starts from 11.01.2023 in 9Y installments)					
	Gross loan - Opening	10107.14	10107.14	10107.14	10107.14	10107.14
	Cumulative repayments of Loans upto previous period	0.00	0.00	0.00	0.00	1123.02
	Net loan - Opening	10107.14	10107.14	10107.14	10107.14	8984.13
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period					
	Total	10107.14	10107.14	10107.14	10107.14	8984.13
	Repayments of Loans during the period	0.00	0.00	0.00	1123.02	1123.02
	Net loan - Closing	10107.14	10107.14	10107.14	8984.13	7861.11
	Average Net Loan	10107.14	10107.14	10107.14	9545.63	8422.62
	Rate of Interest on Loan	8.3333%	8.3333%	8.3333%	8.3333%	8.3333%
	Interest on Loan (Annualised)	842	842	842	795	702
	Total Loan					
	Net loan - Opening	24396.95	18102.89	15594.55	13932.27	11646.98
	Repayments of Loans during the period	6294.05	2508.34	1662.28	2285.29	2168.50
	Net loan - Closing	18102.89	15594.55	13932.27	11646.98	9478.48
	Average Net Loan	21249.92	16848.72	14763.41	12789.63	10562.73
	Rate of Interest on Loan	8.6038%	8.6090%	8.5625%	8.4976%	8.3990%
	Interest on Loan (Annualised)	1828.29	1450.51	1264.12	1086.81	887.16
	LIC of India-III					
	LIC of india-III - T-1 D-1					
	Gross loan - Opening	3500	3500	3500	3500	3500
	Cumulative repayments of Loans upto previous period	2450	2683	2917	3150	3383
	Net loan - Opening	1049.91	816.57	583.23	349.89	116.55
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE	0.00	0.00	0.00	0.00	0.00
	Total	1049.91	816.57	583.23	349.89	116.55
	Repayments of Loans during the period	233.34	233.34	233.34	233.34	116.55
	Net loan - Closing	816.57	583.23	349.89	116.55	0.00
	Average Net Loan	933.24	699.90	466.56	233.22	58.27
	Rate of Interest on Loan	6.5710%	6.5710%	6.5710%	6.5710%	6.5710%
	Interest on Loan (Annualised)	61.32	45.99	30.66	15.32	3.83
	LIC of India-III - Consolidated:					
	Gross loan - Opening	3500	3500	3500	3500	3500
	Cumulative repayments of Loans upto previous period	2450	2683	2917	3150	3383
	Net loan - Opening	1049.91	816.57	583.23	349.89	116.55
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE	0.00	0.00	0.00	0.00	0.00
	Total	1049.91	816.57	583.23	349.89	116.55
	Repayments of Loans during the period	233.34	233.34	233.34	233.34	116.55
	Net loan - Closing	816.57	583.23	349.89	116.55	0.00
	Average Net Loan	933.24	699.90	466.56	233.22	58.27
	Rate of Interest on Loan	6.5710%	6.5710%	6.5710%	6.5710%	6.5710%
	Interest on Loan (Annualised)	61.32	45.99	30.66	15.32	3.83
	SBI VI D-2					
	Gross loan - Opening	5000	5000	5000	5000	5000

NTPC
SIPAT-II

(In lakhs)

Sl. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
	2					
	Cumulative repayments of Loans upto previous period	4286	5000	5000	5000	5000
	Net loan - Opening	714.29	0.00	0.00	0.00	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period					
	Total	714.29	0.00	0.00	0.00	0.00
	Repayments of Loans during the period	714.29	0.00	0.00	0.00	0.00
	Net loan - Closing	0.00	0.00	0.00	0.00	0.00
	Average Net Loan	357.14	0.00	0.00	0.00	0.00
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest on Loan (Annualised)	29.46	0.00	0.00	0.00	0.00
	SBI VI D-3					
	Gross loan - Opening	13500	13500	13500	13500	13500
	Cumulative repayments of Loans upto previous period	11571	13500	13500	13500	13500
	Net loan - Opening	1928.57	0.00	0.00	0.00	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period					
	Total	1928.57	0.00	0.00	0.00	0.00
	Repayments of Loans during the period	1928.57	0.00	0.00	0.00	0.00
	Net loan - Closing	0.00	0.00	0.00	0.00	0.00
	Average Net Loan	964.29	0.00	0.00	0.00	0.00
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest on Loan (Annualised)	79.55	0.00	0.00	0.00	0.00
	SBI VI D-4					
	Gross loan - Opening	7000	7000	7000	7000	7000
	Cumulative repayments of Loans upto previous period	6000	7000	7000	7000	7000
	Net loan - Opening	1000.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period					
	Total	1000.00	0.00	0.00	0.00	0.00
	Repayments of Loans during the period	1000.00	0.00	0.00	0.00	0.00
	Net loan - Closing	0.00	0.00	0.00	0.00	0.00
	Average Net Loan	500.00	0.00	0.00	0.00	0.00
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest on Loan (Annualised)	41.25	0.00	0.00	0.00	0.00
	SBI VI D-5					
	Gross loan - Opening	1000	1000	1000	1000	1000
	Cumulative repayments of Loans upto previous period	857	1000	1000	1000	1000
	Net loan - Opening	142.86	0.00	0.00	0.00	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period					
	Total	142.86	0.00	0.00	0.00	0.00
	Repayments of Loans during the period	142.86	0.00	0.00	0.00	0.00
	Net loan - Closing	0.00	0.00	0.00	0.00	0.00
	Average Net Loan	71.43	0.00	0.00	0.00	0.00
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest on Loan (Annualised)	5.89	0.00	0.00	0.00	0.00
	SBI VI total					
	Gross loan - Opening	26500	26500	26500	26500	26500
	Cumulative repayments of Loans upto previous period	22714	26500	26500	26500	26500
	Net loan - Opening	3785.71	0.00	0.00	0.00	0.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period	0.00	0.00	0.00	0.00	0.00
	Total	3785.71	0.00	0.00	0.00	0.00
	Repayments of Loans during the period	3785.71	0.00	0.00	0.00	0.00

Sl. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
	2					
	Net loan - Closing	0.00	0.00	0.00	0.00	0.00
	Average Net Loan	1892.86	0.00	0.00	0.00	0.00
	Rate of Interest on Loan	8.2500%	8.2500%	8.2500%	8.2500%	8.2500%
	Interest on Loan (Annualised)	156.16	0.00	0.00	0.00	0.00
	PFV V D-31					
	Gross loan - Opening	500	500	500	500	500
	Cumulative repayments of Loans upto previous period	240	281	323	365	406
	Net loan - Opening	260.42	218.75	177.08	135.42	93.75
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period					
	Total	260.42	218.75	177.08	135.42	93.75
	Repayments of Loans during the period	41.67	41.67	41.67	41.67	41.67
	Net loan - Closing	218.75	177.08	135.42	93.75	52.08
	Average Net Loan	239.58	197.92	156.25	114.58	72.92
	Rate of Interest on Loan	7.4400%	7.4400%	7.4400%	7.4400%	7.4400%
	Interest on Loan (Annualised)	17.83	14.73	11.63	8.52	5.42
	PFV V D-33					
	Gross loan - Opening	400	400	400	400	400
	Cumulative repayments of Loans upto previous period	192	225	258	292	325
	Net loan - Opening	208.33	175.00	141.67	108.33	75.00
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period					
	Total	208.33	175.00	141.67	108.33	75.00
	Repayments of Loans during the period	33.33	33.33	33.33	33.33	33.33
	Net loan - Closing	175.00	141.67	108.33	75.00	41.67
	Average Net Loan	191.67	158.33	125.00	91.67	58.33
	Rate of Interest on Loan	7.8300%	7.8300%	7.8300%	7.8300%	7.8300%
	Interest on Loan (Annualised)	15.01	12.40	9.79	7.18	4.57
	PFV V Total					
	Gross loan - Opening	900	900	900	900	900
	Cumulative repayments of Loans upto previous period	431	506	581	656	731
	Net loan - Opening	468.75	393.75	318.75	243.75	168.75
	Increase/ Decrease due to FERV	0.00	0.00	0.00	0.00	0.00
	Increase/ Decrease due to ACE/Drawl during the period					
	Total	468.75	393.75	318.75	243.75	168.75
	Repayments of Loans during the period	75.00	75.00	75.00	75.00	75.00
	Net loan - Closing	393.75	318.75	243.75	168.75	93.75
	Average Net Loan	431.25	356.25	281.25	206.25	131.25
	Rate of Interest on Loan	7.6133%	7.6133%	7.6133%	7.6133%	7.6133%
	Interest on Loan (Annualised)	32.83	27.12	21.41	15.70	9.99

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Details of Source wise Fuel for Computation of Energy Charges

Name of the Company :		NTPC						
Name of the Power Station :		Sipat-II						
S. No.	Month	Unit	Stage 2 Oct-18		Stage 2 Nov-18		Stage 2 Dec-18	
			Domestic	Imported	Domestic	Imported	Domestic	Imported
1	Quantity of Coal/Lignite supplied by Coal/Lignite Company*	(MMT)	1.2514		1.2818			1.2167
2	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	(MMT)						
3	Coal supplied by Coal/Lignite Company (1+2)	(MMT)	1.2514		1.2818			1.2167
4	Normative Transit & Handling Losses (For coal/ Lignite based projects)	(MMT)	0.0026		0.0030			0.0031
5	Net coal / Lignite Supplied (3-4)	(MMT)	1.2489		1.2788			1.2136
6	Amount charged by the Coal /Lignite Company	(Rs.)	2314393203		2365876367			2258561531
7	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)	-58962357		-49075861			-107847145
8	Total amount Charged (6+7)	(Rs.)	2255430846		2316800506			2150714386
9	Transportation charges by rail/ship/road transport	(Rs.)	11754703		40035806			60965540
10	Adjustment (+/-) in amount charged made by Railways/transport Company	(Rs.)						
11	Demurrage Charges, if any	(Rs.)						880266
12	Cost of diesel in transporting coal through MGR system, if applicable	(Rs.)	17651426		15927672			15197052
13	Total Transportation Charges (9+/-10-11+12)	(Rs.)	29406129		55963478			75282326
13A	Other charges	(Rs.)	18972095		28077932			63077002
14	Total amount Charged for coal/lignite supplied including Transportation (8+13+13A)	(Rs.)	2303809070		2400841916			2289073714
15	Landed cost of coal/ Lignite	Rs./MT	1844.72		1877.39			1886.18
16	Blending Ratio (Domestic/Imported)		100.00		100.00			100.00
17	Weighted average cost of coal/ Lignite for preceding three months	Rs./MT	1844.72		1877.39			1886.18
18	GCV of Domestic Coal as per bill of Coal Company (Eq Basis)	(kCal/Kg)	4081		4060			4072
19	GCV of Imported Coal as per bill Coal Company	(kCal/Kg)		0				0
20	Weighted average GCV of coal/ Lignite as Billed	(kCal/Kg)	4081		4060			4072
21	GCV of Domestic Coal as received at Station (TM basis)	(kCal/Kg)	3937		3817			4010
22	GCV of Imported Coal of opening stock as received at Station	(kCal/Kg)		0				0
23	Weighted average GCV of coal/ Lignite as Received (TM basis)	(kCal/Kg)	3937		3817			4010

* includes opening stock



Petitioner

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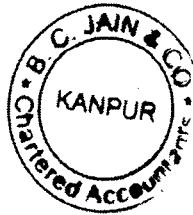
FORM - 15

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

S No	Month	Unit	October-18		November-18		December-18	
			Domestic	Imported	Domestic	Imported	Domestic	Imported
1	Quantity of Coal/Lignite supplied by Coal/Lignite Company	MMT	1.2514	0.0000	1.2818	0.0000	1.2187	0.0000
2	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company	MMT	0.0000		0.0000		0.0000	
3	Coal supplied by Coal/Lignite Company (1+2)	MMT	1.2514	0.0000	1.2818	0.0000	1.2187	0.0000
4	Normative Transit & Handling Losses (For Coal/Lignite based Projects)	MMT	0.0026	0.0000	0.0030	0.0000	0.0031	0.0000
5	Net Coal/Lignite Supplied (3-4)	MMT	1.2489	0.0000	1.2788	0.0000	1.2136	0.0000
6	Amount Charged by the Coal/Lignite Company	(RS)	2314393203	0	2365876367	0	2258561531	0
7	Adjustment(+/-) in amount charged made by Coal/Lignite Company	(RS)	-58962357		-49075861		-107847145	
8	Total Amount Charged (6+7)	(RS)	2255430846	0	2316800506	0	2150714386	0
9	Transportation Charges by rail/ship/road transport	(RS)	11754703	0	40035806	0	60965540	0
10	Adjustment(+/-) in amount charged made by Railways/Transport Company	(RS)	0		0		0	
11	Demurrage Charges, if any	(RS)	0	0	0	0	880266	0
12	Cost of diesel in transporting coal through MGR system, if applicable	(RS)	17651426		15927672		15197052	
13	Total Transportation Charges (9+10-11+12)	(RS)	29406129	0	55963478	0	75282326	0
13 (A)	Other Charges	(RS)	18972095	0	28077932	0	63077002	0
14	Total amount charged for coal /Lignite supplied including Transportation (8+13)	(RS)	2303809070	0	2400841916	0	2289073714	0
15	Landed cost of coal/lignite	RS/MT	1844.72	0.00	1877.39	0.00	1886.18	0.00
16	Blending Ratio (Domestic/Imported)		100.00	0.00	100.00	0.00	100.00	0.00
17	Weighted average cost of coal/ Lignite for the month	RS/MT	1844.72		1877.39		1886.18	
18	GCV of Domestic Coal as per bill of Coal Company (EQ basis)	(Kcal/Kg)	4081		4060		4072	
19	GCV of Imported Coal as per bill of Coal Company (ADB basis)	(Kcal/Kg)		0		0		0
20	Weighted average GCV of coal/ Lignite as billed	(Kcal/Kg)	4081		4060		4072	
21	GCV of Domestic Coal as received at station (TM basis)	(Kcal/Kg)	3937		3817		4010	
22	GCV of Imported Coal as received at station (TM basis)	(Kcal/Kg)		0		0		0
23	Weighted average GCV of coal/ Lignite as Received	(Kcal/Kg)	3937		3817		4010	

* includes opening stock

Anuj Kush
अनुज कुश
ANUJ KUSH
 अ.प्र.प्र. (विद्युत एवं लेखा)
 AGM (F&A)
 सा.वे.के.प.वे.-II, सीपत
 SSC, WR-II, SIPAT



S. C. G.
 UDIN 19416157 AAAACR.G4 74

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Details of Secondary Fuel for Computation of Energy Charges

Name of the Company :		NTPC Limited			
Name of the Power Station :		Sipat Super Thermal Power Station Stage-II			
Sl.No.	Month	Unit	Oct-18 LDO	Nov-18 LDO	Dec-18 LDO
1	Quantity of oil supplied by Oil Company*	KL	2906.417	5998.797	5853.797
2	Value of Oil *	(Rs)	159245050	348154215	325506953.3
3	Adjustment (+/-) in quantity supplied made by Oil Company	KL	0	0	0
4	Oil supplied by Oil Company	KL	0	0	0
5	Normative transit & Handling losses	KL	0	0	0
6	Net Oil supplied (4-5)	KL	0	0	0
7	Amount charged by the Oil Company	(Rs)	0	0	0
8	Adjustment (+/-) in amount charged by Oil Company	(Rs)	0	0	0
9	Total Amount charged (7+8)	(Rs)	0	0	0
10	Transportation charges by Rail / Ship / Road Transport	(Rs)			
11	Adjustment (+/-) in amount charged by railways / transport company	(Rs)			
12	Demurrage charges, if any	(Rs)			
13	Cost of diesel in transporting Oil through MGR system, if applicable	(Rs)			
14	Total transportation charges (10+/- 11 - 12 + 13)	(Rs)			
15	Others- Entry Tax on oil	(Rs)			
16	Total amount charged for Oil supplied including transportation (14 + 15)	(Rs)			
17	Landed Cost of Oil (HFO/LDO) (2+16) / (1+6)	Rs/KL	54790.85	58037.34	55606.12
18	Weighted average GCV of Oil as fired	(kCal/L)	10230	10230	10230
19	Weighted average rate of Secondary Fuel	Rs/KL	54790.85	58037.34	55606.12

*including opening stock

[Signature]
(Petitioner)

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Computation of Energy Charges

Form-ISB
ADDITIONAL FORM

Name of the Company	NTPC Limited
Name of the Power Station	Sipat Super Thermal Power Station Stage-II

Computation of Energy Charges

- Rate of Energy Charge from Sec. Fuel Oil/ Alternate Fuel (REC)_s
(p/kwh) = $(Q_s)_n \times P_s$ 2.822
- Heat Contribution from SFO / Alternate Fuel (H_s) = $(Q_s)_n \times (GCV)_s$ 5.115
- Heat Contribution from coal (H_p)_s = $GHR - H_s$ 2384.89
- Specific Primary Fuel Consumption (Qp)_n = $H_p / (GCV)_p$ 0.622
- Rate of Energy charge from Primary Fuel (p/kwh) (REC)_p = 116.259
- Rate of Energy charge ex-bus (p/kWh) (REC) = $\frac{((REC)_s + (REC)_p)}{(1-(AUX))}$ 127.019

	2019-20	2020-21	2021-22	2022-23	2023-24
No of Days in the year	366	365	365	365	366
Sp. Oil consumption ml/kwh	0.5	0.5	0.5	0.5	0.5
Auxiliary consumption %	6.25	6.25	6.25	6.25	6.25
Heat Rate Kcal/kwh	2,390.00	2,390.00	2,390.00	2,390.00	2,390.00
Computation of Variable Charges					
Variable Charge (Coal) p/kwh	124.010	124.010	124.010	124.010	124.010
Variable Charge (Oil) p/kwh	3.010	3.010	3.010	3.010	3.010
Total p/kwh	127.019	127.019	127.019	127.019	127.019

Price of fuel from Form-15/15A

Coal Cost (Rs./MT)	1869.33	1869.33	1869.33	1869.33	1869.33
Oil Cost (Rs./KL)	56433.74	56433.74	56433.74	56433.74	56433.74

Computation of Fuel Expenses for Calculation of IWC:

ESO in a year (MUs)	6999.75	6980.63	6980.63	6980.63	6999.750
ESO for 40 days (MUs)	765.000	765.000	765.000	765.000	765.000
Cost of coal for 45 Days (Rs. Lakh)	9486.73	9486.73	9486.73	9486.73	9486.73
Cost of oil for 2 months (Rs. Lakh)	351.13	350.17	350.17	350.17	351.13
Energy Expenses for 45 days (Rs. Lakh)	10931.61	10931.61	10931.61	10931.61	10931.61

Coal	3rd month	2nd month	1st month	Wtd. Avg.
Wtd. Avg. Price of Coal Rs./MT	1844.72	1877.39	1886.18	1869.33
Wtd. Avg. GCV of Coal as received kCal/Kg	3937	3817	4010	3919.66
Wtd. Avg. GCV of Coal as received after adjustment of 85 kcal/kg				3834.66
Sec. Oil				
Wtd. Avg. Price of Secondary Fuel Rs/KL	54790.85	58037.34	55606.12	56433.74
Wtd. Avg. GCV of Secondary Fuel kCal/L	10230.00	10230.00	10230.00	10230.00

P. V. V.
PETITIONER

(51)

Name of the Petitioner
Name of the Generating StationNTPC Ltd
Sipat STPS STPS(2X500 MW)**Statement of Capital cost**

(To be given for relevant dates and year wise)

(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	47423.43	1483.04	45940.39
	b) Amount of IDC in A(a) above	2154.87		
	c) Amount of FC in A(a) above			
	d) Amount of FERV in A(a) above	-3870.53		
	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			


 (Petitioner)

(52)

Name of the Petitioner
Name of the Generating Station

NTPC Ltd
Sipat STPS STPS(2X500 MW)

Statement of Capital Woks in Progress

(To be given for relevant dates and year wise)

(Amount in Rs. Lakh)

S. No.	Particulars	2019-20		
		Accrual Basis	Un-discharged Liabilities	Cash Basis
A	a) Opening CWIP as per books	36.82		36.82
	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			

[Signature]
(Petitioner)

(53)

Calculation of Interest on Normative Loan

Name of the Company :		NTPC Limited							
Name of the Power Station :		Sipat Super Thermal Power Station Stage-II							
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	3,03,135.28	3,03,215.31	3,03,775.31	3,03,775.31	3,03,775.31	3,03,775.31		
2	Cumulative repayment of Normative loan up to previous year	2,05,825.61	2,27,786.31	2,49,941.03	2,72,116.20	2,81,138.95	2,90,161.69		
3	Adj. in repayment due to liability discharge*								
4	Adj. in repayment due to decap*	172.83							
5	Net Normative loan - Opening	97,309.67	75,429.00	53,834.27	31,659.11	22,636.36	13,613.61		
6	Add: Increase due to addition during the year / period	-107.42	560.00	-	-	-	700.00		
7	Less: Decrease due to de-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00	0.00		
8	Less: Decrease due to reversal during the year / period								
9	Add: Increase due to discharges during the year / period	187.45	0.00	0.00	0.00	0.00	0.00		
10	Less: Repayment of Loan	22133.53	22,154.72	22,175.16	9,022.75	9,022.75	9,065.65		
11	Net Normative loan - Closing	75,427.99	53,834.27	31,659.11	22,636.36	13,613.61	5,247.97		
12	Average Normative loan	86,368.83	64,631.64	42,746.69	27,147.74	18,124.99	9,430.79		
13	Weighted average rate of interest	8.5373	8.6038	8.6090	8.5625	8.4976	8.3990		
14	Interest on Loan	7373.57	5560.76	3680.06	2324.53	1540.18	792.09		
15	Cumulative repayment of Normative loan at the end of the period after adjustments	2,27,786.31	2,49,941.03	2,72,116.20	2,81,138.95	2,90,161.69	2,99,227.34		

* Additional data

[Signature]
(Petitioner)

(54)

Calculation of Interest on Working Capital

Name of the Company :	NTPC Limited
Name of the Power Station :	Sipat Super Thermal Power Station Stage-II


(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	11,946.35	9486.73	9486.73	9486.73	9486.73	9486.73
2	Cost of Main Secondary Fuel Oil	320.48	351.13	350.17	350.17	350.17	351.13
3	Fuel Cost						
4	Liquid Fuel Stock						
5	O & M Expenses	2,207.64	2287.79	2367.59	2450.36	2536.12	2624.07
6	Maintenance Spares	5,298.33	5490.70	5682.21	5880.86	6086.70	6297.76
7	Receivables	31,229.53	21294.81	21217.56	19530.48	19565.52	19593.30
8	Total Working Capital	51002.33	38911.16	39104.26	37698.61	38025.25	38352.99
9	Rate of Interest	13.5000	12.0500	12.0500	12.0500	12.0500	12.0500
10	Interest on Working Capital	6885.31	4688.79	4712.06	4542.68	4582.04	4621.54


Petitioner

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Summary of issue involved in the petition

Name of the Company :		NTPC Limited				
Name of the Power Station :		Sipat Super Thermal Power Station Stage-II				
1	Petitioner:	NTPC Limited				
2	Subject	Approval of tariff of Sipat STPS Stage-II (2x500 MW) for the period from 01.04.2019 to 31.03.2024				
3	Prayer:	<p>i) Approve tariff of Sipat-II for the tariff period 01.04.2019 to 31.03.2024.</p> <p>ii) Allow the recovery of filing fees as & when paid to the Hon'ble Commission and publication expenses from the beneficiaries.</p> <p>iii) Allow reimbursement of Ash Transportation Charges directly from the beneficiaries quarterly on net basis.</p> <p>iv) Consider station heat rate based on design heat rate with applicable operating margin.</p> <p>v) Pass any other order as it may deem fit in the circumstances mentioned above.</p>				
4	Respondents	Seven(7) no. respondents				
5	Name of Respondents	<p>1.MSEDCL, Maharashtra</p> <p>2.GUVNL, Gujarat</p> <p>3.MPPMCL, Madhya Pradesh</p> <p>4. CSPDCL, Chhattisgarh</p> <p>5.Electricity Deptt. Goa</p> <p>6.Electricity Deptt. DD</p> <p>7. DNH Power Distribution Corporation Ltd-DNH</p>				
Cost (Approved cost) (In Rs Crore)						
Claim		2019-20	2020-21	2021-22	2022-23	2023-24
AFC (Rs Lakh)		84287.39	83430.50	69746.45	70030.65	70448.43
Capital cost(Rs Lakh)		4,33,564.73	4,33,964.73	4,33,964.73	4,33,964.73	4,34,464.73
Initial spare		N.A.				
NAPAF (Gen)		85%				
Any Specific						
		 Petitioner				

Capital liabilities from 01.04.2014 and onwards

Station: Sipat STPS Stage-II

Sr. No.	Name of the Party	Name of the work	Undischarged liabilities relating to GB 31.03.2019
1	SUNIL HI-TECH ENGINEERS PVT LTD	SG- Civil	1,04,08,675
2	EB Reddy	TG-Civil-Offloading	3,00,722
3	Bhola Singh Jaiprakash	TG CIVIL	2,04,89,060
4	HSCL	Off-Site Civil	1,80,45,720
5	BHEL	SG	22,84,320
6	Sartech	SG	1,92,409
7	BHEL	TG	3,72,76,934
8	Indure Ltd	AHP	81,08,147
9	KBL	CW-Mech	20,94,518
10	NPCC	Ash Dyke	62,58,143
11	NPCC	RWR	11,19,110
12	Dinesh Construction	AHP	7,03,040
13	Blue Star Ltd	AC	59,40,341
14	C Doctor	Ventilation	14,379
15	Project Eng	Cabling	18,464
16	ABB Limited	Station C&I	1,41,765
17	SDM & LAO,KATGHORA	Land Compensation	1,49,47,940
18	Rajesh Kumar Murraka	Ash Dyke	9,63,654
19	Vijay Contruccion	Township	14,18,505
20	SR Constructin	Township	1,98,545
21	PRECISION ENGINEERING	Offsite	3,01,814
22	UBV INFRASTRUCTURES LTD	Ash Dyke	31,16,033
23	Fuji Electric/Analyser Instrument/Logic Ladder	CEMS	3,56,446
Liability claimed/Admitted			13,01,40,695
Liability not claimed			
24	Capital Spare/ MBOA	Capital Spare/ MBOA	18163131
			14,83,03,826

Paper

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